abbvie ABT-494

M15-572 Protocol Amendment 8 EudraCT 2016-004130-24

1.0 Title Page

Clinical Study Protocol M15-572

A Phase 3, Randomized, Double-Blind, Study
Comparing Upadacitinib (ABT-494) to Placebo and to
Adalimumab in Subjects with Active Psoriatic
Arthritis Who Have a History of Inadequate
Response to at Least One Non-Biologic Disease
Modifying Anti-Rheumatic Drug (DMARD) – SELECT –
PSA 1

Incorporating Administrative Changes 1, 2, 3, 4, 5, 6 [Hong Kong (China)], 7, 8, and 11 (China) and Amendments 1, 1.01 (VHP Countries), 2, 3, 4, 5, 6, 6.01 (Japan), 7 (All Countries except Japan) and 8 (All Countries except EU Countries)

AbbVie Investigational Product: Upadacitinib

Date: 20 December 2023

Development Phase: 3

Study Design: A Phase 3, randomized, double-blind, parallel-group, active

and placebo-controlled, multicenter study

EudraCT Number: 2016-004130-24

Investigators: Multicenter trial (Investigator information is on file at AbbVie)

Sponsor: For Non-EU Countries:

AbbVie Inc.*

1 North Waukegan Road

North Chicago, IL 60064 United States of America

For EU Countries:

AbbVie Deutschland GmbH & Co. KG (AbbVie)

Knollstrasse 50 67061 Ludwigshafen

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M15-572 Protocol Amendment 8 EudraCT 2016-004130-24

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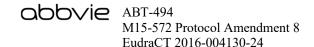
* For European Union countries: the sponsor is AbbVie Deutschland GmbH & Co. KG. The specific contact details of the AbbVie legal/regulatory entity (person) within the relevant country are provided within the clinical trial agreement with the Investigator/Institution and in the Clinical Trial Application with

the Competent Authority.

This study will be conducted in compliance with the protocol, Good Clinical Practice and all other applicable regulatory requirements, including the archiving of essential documents.

Confidential Information

No use or disclosure outside AbbVie is permitted without prior written authorization from AbbVie.



1.1 Protocol Amendment: Summary of Changes

Previous Protocol Versions

Protocol	Date
Original	10 February 2017
Amendment 1	03 March 2017
Amendment 1.01 (VHP Countries)	20 June 2017
Amendment 2	30 June 2017
Administrative Change 1	27 October 2017
Administrative Change 2	13 December 2017
Amendment 3	22 March 2018
Administrative Change 3	04 April 2018
Administrative Change 4	04 June 2018
Administrative Change 5	31 October 2018
Administrative Change 6 [Hong Kong (China) Only]	11 April 2019
Amendment 4	11 October 2019
Amendment 5	11 December 2019
Amendment 6	15 May 2020
Administrative Change 7	22 June 2020
Administrative Change 8	13 August 2020
Amendment 6.01 (Japan Only)	19 November 2020
Amendment 7 (all countries except Japan)	30 January 2021
Administrative Change 11 (China Only)	20 October 2022

The purpose of this amendment is to:

• Apply administrative changes throughout protocol.

Rationale: Revised text to improve consistency and readability, and/or provide clarifications.

• This includes the application of Administrative Change 11 throughout protocol.

Rationale: To reinstate the use of subject paper diary cards for sites in China only.

- Update the Title page to include the sponsor statement for the European Union. *Rationale:* The changes align with the sponsor's protocol template.
- Update Section 3.2 Benefits and Risks to include information on the ORAL Surveillance study, a study of a different JAK inhibitor.

Rationale: Additional detail provided based on the ORAL Surveillance study to support the current research.

• Update Section 3.2 Benefits and Risks to include a benefit:risk statement on the effects of upadacitinib on the course of COVID-19.

Rationale: To include detail for COVID-19.

• Update Section 5.1 Overall Study Design and Plan: Description, Follow-Up Period to add that the 30-day follow-up visit is allowed to be a phone call.

Rationale: Updated to align with discontinuation procedures and allow more flexibility in case there are no safety issues necessitating an in-person visit.

• Update Section 5.1 Overall Study Design and Plan: Description, Follow-Up Period and Section 5.4.1 Discontinuation of Individual Subjects to add that follow-up visit/phone call is not applicable to subjects who begin commercially available upadacitinib or adalimumab.

Rationale: Updated to latest AbbVie standards.

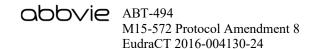
• Update Section 5.1 Overall Study Design and Plan: Description, Follow-Up Period to add that 30-day follow-up visit/phone call is not required for subjects who enter CTTP.

Rationale: Updated to maintain the protocol to be in line with the company directive for CTTP

Add new Section 5.1.1 Treatment After End of Study and Appendix I
 Continued Treatment for Trial Participants (CTTP) and update Section 5.1
 Overall Study Design and Plan: Description, Follow-Up Period, Section 13.0
 Completion of the Study, and Synopsis to include details of CTTP protocol to follow the end of study.

Rationale: To maintain the protocol to be in line with the company directive.

• Update Section 5.2.3.3 Prohibited Therapy with additional non-biologic DMARDs, biologic therapies with immunosuppression potential, examples of



commonly used strong CYP3A inhibitors and inducers, and vaccines with replicating potential.

Rationale: Updated to reflect prohibited medications used in indications currently being studied. To align with currently approved options of live vaccines and to highlight country-specific requirements.

• Update Section 5.2.3.3 Prohibited Therapy to allow live vaccines that are incapable of replicating within 28 days of prior to first dose of study drug.

Rationale: To distinguish between live vaccines with replicating potential and those without.

 Update Section 5.2.4 Contraception Recommendations and Appendix H Local Requirements to change postmenopausal FSH level from > 40 mIU/mL to ≥ 30 IU/L and to add non-surgical permanent infertility to the definition of non-childbearing potential.

Rationale: Updated to latest AbbVie standards.

• Update Section 5.3.1.1, Study Procedures (HIV Test) and Appendix C. Study Activities

Rationale: To remove sentence that AbbVie will not receive results from HIV testing and will not be made aware of any positive result as this sentence is no longer part of the AbbVie standards.

- Update Section 5.4.1 Discontinuation of Individual Subjects:
 - Added new criteria for discontinuation serious hypersensitivity reaction without an alternative etiology.
 - Added clarification that the investigator can discontinue a subject from study drug for non-compliance with study procedures, regardless of whether the non-compliance would put the subject at risk.
 - Added clarification that it is up to the investigator, not the TAMD, to decide if a subject meets discontinuation criteria.
 - Added new criteria that subjects who develop a major cardiovascular event (MACE: acute myocardial infarction or stroke) must be discontinued.
 - Added new criteria for discontinuation new ECG change considered clinically significant and with reasonable possibility of being related to study drug.

- Added new criteria for discontinuation to align with adalimumab SmPC language - subject develops new or worsening symptoms of congestive heart failure
- Added discontinuation criteria for upadacitinib and adalimumab study drug treatments, respectively.

Rationale: Updated to latest AbbVie standards.

 Update Section 5.4.2 Discontinuation of Entire Study, Section 10.0 Source Documents and Case Report Form Completion, Section 11.0 Data Quality Assurance, and add new Section 9.3 Subject Confidentiality

Rationale: Updated to latest AbbVie standards.

 Update Section 6.1.1.3 Adverse Events of Special Interest to add "adjudicated" to gastrointestinal perforations and embolic and thrombotic events, and to add "active" to tuberculosis.

Rationale: To provide clarification.

• Update Section 6.1.1.3 Adverse Events of Special Interest to add new AEs bone fracture and retinal detachment.

Rationale: To align with current upadacitinib investigator brochure.

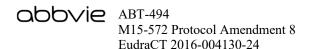
• Update Section 6.1.5 Serious Adverse Event and Malignancy Reporting to update the Immunology Safety Team contact information.

Rationale: To update the Immunology Safety Team contact information.

• Update Section 6.1.6 Pregnancy to remove the requirement for obtaining informed consent from the pregnant partner of an enrolled male subject to obtain pregnancy outcomes.

Rationale: To remove reference language which was based on an embryofetal study. Exposure margins calculated for doses used in humans do not
indicate a product risk associated with administration of upadacitinib to male
partners of females of childbearing potential. Male subjects were therefore no
longer required to use contraception when participating in upadacitinib
clinical trials. Informed consents to collect pregnancy outcomes therefore are
not required to be obtained from the pregnant partner of an enrolled male
subject for the same reason.

• Update Section 6.1.7 Toxicity Management and Table 4.



- Clarified that toxicity management requirements do not apply for subjects who discontinue study drug but continue participation in the study and are on standard of care therapies
- Updated Gastrointestinal Perforation section to specify that subjects taking upadacitinib must be permanently discontinued from study drug if the diagnosis of gastrointestinal perforation is confirmed (other than due to appendicitis or mechanical injury)
- Updated MACE section to add the requirement to permanently discontinue subjects taking upadacitinib who develop and acute myocardial infarction or stroke.
- Added Congestive heart failure section to indicate that subjects taking adalimumab who develop new or worsening symptoms of congestive heart failure must be permanently discontinued from study drug align with adalimumab SmPC language.
- Updated Malignancy section that subjects who develop malignancies should be referred to appropriate specialists and managed as per standard of care.
- Updated Thrombosis Events section that subjects should be assessed for symptoms of thrombosis during the assessment of adverse events. Added requirement to discontinue study drug is for subjects taking upadacitinib if the diagnosis of deep vein thrombosis, pulmonary embolus, or non-cardiac, non-neurologic arterial thrombosis is confirmed.
- Updated COVID-19 guidelines for subjects who test positive for asymptomatic COVID-19 and when study drug may be restarted.
- Oupdated ECG section to remove the QTcF value > 500 msec as a criterion for discontinuing upadacitinib as it has not been shown to have an effect on prolongation of the QTc interval at plasma exposures associated with the 15 mg QD adult equivalent dose, so discontinuation due to prolonged QTc is not necessary. Added requirement to discontinue study drug for subjects taking upadacitinib if there is a new ECG finding that is considered clinically significant and with a reasonable possibility of relationship to study drug.
- Clarified when to update an eCRF related to laboratory abnormalities.

- Updated elective surgery requirements to indicate that if the subject undergoes elective surgery, the study drug should be interrupted at least 3 days prior to the planned surgery.
- Updated Table 4
 - AST or ALT to clarify parameter language for interruptions.
 - AST or ALT to clarify that CPK should be drawn to exclude muscle injury.
 - AST or ALT added "new onset" to eosinophilia to clarify the list of symptoms for rationale of repeat testing.
 - AST or ALT to clarify that if ALT or AST > 8 × ULN, TA MD should be contacted if repeat test confirms result
 - Serum creatinine to update criteria for when study drug may be restarted.

Rationale: To provide clarification of study drug management for respective events and update to latest AbbVie standards.

• Added new Section 6.1.10 Gastrointestinal Perforation Adjudication Committee

Rationale: Updated to latest AbbVie standards.

• Update Section 7.0 Protocol Deviations to update the AbbVie Clinical Monitors contact information.

Rationale: To update the AbbVie Clinical Monitors contact information.

• Update Section 13.0 Completion of the Study to add the definition of the start of the study and provide further clarification of completion of the study.

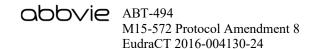
Rationale: To align with the AbbVie protocol template, provide further clarification of completion of the study, and maintain the protocol to be in line with the company directive for CTTP.

• Update Appendix B, List of Protocol Signatories

Rationale: Updated list of Protocol Signatories responsible for Amendment 8.

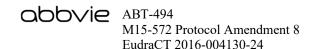
• Update Appendix C Study Activities, footnote "jj" for EQ-5D-5L and WPAI to be replaced with footnote "ii."

Rationale: Updated footnote in the table to align with the footnote text.



• Update Appendix C Study Activities, footnote "b" to specify that 30-day follow up visit is allowed to be a phone call, the follow-up visit/phone call is not required for subjects who begin commercial available upadacitinib or adalimumab, and the 30-day follow up visit/phone call is not required for subjects who continue in CTTP.

Rationale: Updated footnote in the table



1.2 Synopsis

AbbVie Inc.	Protocol Number: M15-572
Name of Study Drug: Upadacitinib (ABT-494)	Phase of Development: 3
Name of Active Ingredient: Upadacitinib	Date of Protocol Synopsis: 20 December 2023

Protocol Title: A Phase 3, Randomized, Double-Blind, Study Comparing Upadacitinib (ABT-494) to Placebo and to Adalimumab in Subjects with Active Psoriatic Arthritis Who Have a History of Inadequate Response to at Least One Non-Biologic Disease Modifying Anti-Rheumatic Drug (DMARD) – *SELECT – PsA 1*

Objectives:

Period 1

Primary Objective

1. To compare the efficacy of upadacitinib 15 mg QD and 30 mg QD versus placebo and versus adalimumab (ADA) for the treatment of signs and symptoms of PsA in subjects with moderately to severely active PsA who have an inadequate response or intolerance to 1 or more non-biologic DMARD (DMARD-IR).

Secondary Objective

- 2. To compare the efficacy of upadacitinib 15 mg QD and 30 mg QD versus placebo for the prevention of structural progression in subjects with moderately to severely active PsA who have an inadequate response or intolerance to 1 or more non-biologic DMARD (DMARD-IR).
- 3. To compare the safety and tolerability of upadacitinib 15 mg QD and 30 mg QD versus placebo and versus adalimumab in subjects with moderately to severely active PsA who have an inadequate response or intolerance to 1 or more non-biologic DMARD (DMARD-IR).

Period 2

To evaluate the long-term safety, tolerability and efficacy of upadacitinib 15 mg QD and 30 mg QD in subjects with PsA who have completed Period 1.

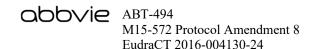
Investigators: Multicenter

Study Sites: Approximately 350 sites

Study Population: Patients with active psoriatic arthritis despite prior use of at least one non-biologic

DMARD.

Number of Subjects to be Enrolled: Approximately 1640



Methodology:

This is a Phase 3 multicenter study that includes two periods. Period 1 is 56 weeks in duration and includes a 24-week randomized, double-blind, parallel-group, placebo-controlled and active comparator-controlled period followed by an additional 32 weeks of blinded, active comparator-controlled treatment (Weeks 24 – 56). Period 1 is designed to compare the safety, tolerability, and efficacy of upadacitinib 15 mg QD and 30 mg QD versus placebo and versus adalimumab 40 mg every other week (eow) in subjects with moderately to severely active PsA and have an inadequate response to non-biologic DMARDs (DMARD-IR). Period 1 is also designed to compare the efficacy of upadacitinib 15 mg QD and 30 mg QD versus placebo for the prevention of structural progression. Period 2 is an open-label (blinded until the last subject completes the last visit of Period 1), long-term extension of up to a total treatment duration of approximately 5 years to evaluate the safety, tolerability and efficacy of upadacitinib 15 mg QD and 30 mg QD in subjects with PsA who have completed Period 1.

The study is designed to enroll approximately 1640 subjects at approximately 350 study centers worldwide to meet scientific and regulatory objectives without enrolling an undue number of subjects in alignment with ethical considerations.

The study duration will include a 35-day screening period; a 56-week blinded period which includes 24 weeks of double-blind, placebo-controlled and active comparator controlled treatment followed by 32 weeks of active comparator controlled treatment (Period 1); a long-term extension period of up to a total treatment duration of approximately 5 years ([blinded until the last subject completes the last visit of Period 1] Period 2); a 30-day follow-up call or visit; and a 70-day follow-up call.

Subjects who meet eligibility criteria will be stratified by extent of psoriasis (\geq 3% body surface area [BSA] or < 3% BSA), current use of at least 1 DMARD, presence of dactylitis, and presence of enthesitis, except for subjects from China and Japan, where randomization for each country will be stratified by extent of psoriasis (\geq 3% body surface area [BSA] or < 3% BSA) only, and then will be randomized in a 2:2:2:1:1 ratio to one of five treatment groups:

Group 1: upadacitinib 15 mg QD (N = 410)

Group 2: upadacitinib 30 mg QD (N = 410)

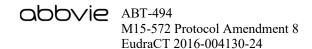
Group 3: ADA (40 mg eow) (N = 410)

Group 4: Placebo followed by upadacitinib 15 mg QD (N = 205)

Group 5: Placebo followed by upadacitinib 30 mg QD (N = 205)

No more than approximately 15% of subjects will be enrolled with concomitant use of hydroxychloraquine, sulfasalazine, bucillamine, or iguratimod.

Subjects will receive both oral study drug QD (upadacitinib 15 mg, upadacitinib 30 mg, or matching placebo) and subcutaneous study drug eow (either ADA 40 mg or matching placebo) until all subjects have completed Period 1 (Week 56) and sites and subjects are unblinded to study treatment.

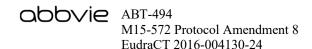


Methodology (Continued):

Subjects who were assigned to placebo at Baseline will be preassigned to receiving either upadacitinib 15 mg QD or upadacitinib 30 mg QD starting at Week 24 in a 1:1 ratio. Subjects who complete the Week 56 visit (end of Period 1) will enter the long-term extension portion of the study, Period 2 (total study duration up to approximately 5 years). Subjects will continue study treatment as assigned at the end of Period 1. Subjects who are assigned to the upadacitinib 15 mg QD, upadacitinib 30 mg QD, or adalimumab 40 mg eow will continue to receive upadacitinib 15 mg QD, upadacitinib 30 mg QD, or adalimumab 40 mg eow, respectively, in a blinded manner. When the last subject completes the last visit of Period 1 (Week 56), study drug assignment in both periods will be unblinded to the sites, and subjects will be dispensed study drug in an open-label fashion until the completion of Period 2. Subjects must have had inadequate response to ≥ 1 non-biologic DMARD (MTX, SSZ, LEF, cyclosporine, apremilast, bucillamine or iguratimod) or an intolerance to or contraindication for DMARDs as defined by the investigator prior to the Screening visit. No background non-biologic DMARD therapy is required during participation in this study. For subjects who are on non-biologic DMARD therapy at baseline (MTX, SSZ, LEF, apremilast, hydroxychloroquine (HCQ), bucillamine or iguratimod), non-biologic DMARDs should have been started ≥ 12 weeks prior to the baseline visit, must be at stable dose for ≥ 4 weeks prior to the first dose of study drug and remain on a stable dose through Week 36 of the study; the non-biologic DMARD dose may be decreased only for safety reasons. In addition, all subjects taking MTX should take a dietary supplement of oral folic acid (or equivalent) throughout study participation. Folic acid dosing and timing of regimen should be followed according to the Investigator's instructions. Please refer to Section 5.2.3.1 and Section 5.2.3.2 for additional details related to prior and concomitant DMARD therapy, respectively. Starting at the Week 36 visit (after Week 36 assessments have been performed), initiation of or change in background PsA medication(s) including, corticosteroids, non-steroidal anti-inflammatory drugs (NSAIDs), acetaminophen/paracetamol, low potency opiates, and non-biologic DMARDs (concomitant use of up to 2 non-biologic DMARDs except the combination of MTX and leflunomide) is allowed as per local label with maximum doses as outlined in Section 5.2.3.3.

At Week 16, subjects classified as non-responders (defined as not achieving at least 20% improvement in either or both tender joint count (TJC) and swollen joint count (SJC) at both Week 12 and Week 16) will add or modify background therapy for PsA.

After the last subject completes the Week 24 study visit, an unblinded analysis will be conducted for the purpose of initial regulatory submission. To maintain integrity of the trial during the blinded 56-week period, study sites and subjects will remain blinded until all subjects have reached Week 56. A second unblinded analysis may be conducted for regulatory purposes after all subjects have completed Period 1. A final analysis will be conducted after all subjects have completed Period 2. An unblinded interim analysis will be conducted by an independent external Data Monitoring Committee (DMC) after approximately 600 subjects have completed the Week 12 visit or have prematurely discontinued from the study. The interim analysis is to assess if the study met the pre-defined No-Go boundary for the primary endpoint ACR20.



Methodology (Continued):

Each subject will undergo a maximum of 6 scheduled visits for x-ray examination of bilateral hands and feet (unless unscheduled repeat imaging is needed due to failure to meet the quality requirements) at Screening, Week 24, Week 56, Week 104, Week 152, and Week 260/Premature discontinuation. In addition, all subjects who fail to attain at least 20% improvement in either or both TJC and SJC at Week 12 and Week 16 will have an x-ray examination at Week 16 (refer to Section 5.2.3.4 for additional details). All subjects will receive x-rays of hands and feet if they discontinue from the study or from study drug at Week 12 or later and it has been at least 12 weeks from when x-rays were last obtained during Period 1 or at least 24 weeks during Period 2.

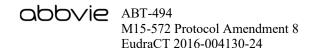
Starting at Week 36, subjects who fail to demonstrate at least 20% improvement in either or both TJC and SJC compared to baseline at 2 consecutive visits will be discontinued from study drug treatment. Upon approval of protocol amendment 7, subjects receiving upadacitinib 30 mg QD will be switched to upadacitinib 15 mg QD at their next scheduled study visit.

For subjects receiving upadacitinib, as the subject nears the end of the study (Week 260 in Period 2), the investigator will discuss the appropriate subsequent treatment with the subject. If the subject and investigator determine continued therapy with upadacitinib remains the best course of treatment, AbbVie will work with the investigator to evaluate a path for continued treatment in accordance with local regulation until upadacitinib is commercially available and/or the subject can access upadacitinib locally. All subjects randomized to the adalimumab treatment arm will have the opportunity to continue with adalimumab treatment through the end of Period 2 (Week 260). Following completion of the Week 260 visit, subjects randomized to adalimumab will complete the study by the 70-day follow-up phone call.

Diagnosis and Main Criteria for Inclusion/Exclusion:

Main Inclusion:

- 1. Adult male or female, ≥ 18 years old at Screening.
- 2. Clinical diagnosis of PsA with symptom onset at least 6 months prior to the Screening Visit and fulfillment of the Classification Criteria for PsA (CASPAR) criteria.
- 3. Subject has active disease at Baseline defined as ≥ 3 tender joints (based on 68 joint counts) and ≥ 3 swollen joints (based on 66 joint counts) at Screening and Baseline Visits.
- 4. Presence of either at Screening:
 - \geq 1 erosion on x-ray as determined by central imaging review or;
 - hs-CRP > laboratory defined upper limit of normal (ULN).
- 5. Diagnosis of active plaque psoriasis or documented history of plaque psoriasis.
- 6. Subject has had an inadequate response (lack of efficacy after a minimum 12 week duration of therapy) to previous or current treatment with at least 1 non-biologic DMARD at maximally tolerated dose or up to dose defined in Inclusion Criterion 7 [(inadequate response to MTX is defined as ≥ 15 to ≤ 25 mg/week; or ≥ 10 mg/week in subjects who are intolerant of MTX at doses ≥ 12.5 mg/week after complete titration; for subjects in China, Korea, Malaysia, Singapore, Hong Kong (China), Taiwan, and Japan inadequate response to MTX is defined as ≥ 7.5 mg/week), SSZ, LEF, cyclosporine, apremilast, bucillamine or iguratimod)], or subject has an intolerance to or contraindication for DMARDs as defined by the investigator.



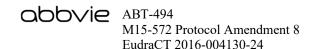
Diagnosis and Main Criteria for Inclusion/Exclusion (Continued): Main Inclusion (Continued):

- 7. Subject who is on current treatment with concomitant non-biologic DMARDs at study entry must be on ≤ 2 non-biologic DMARDs (except the combination of MTX and leflunomide) at the following doses: MTX (≤ 25 mg/week), SSZ (≤ 3000 mg/day), leflunomide (LEF) (≤ 20 mg/day), apremilast (≤ 60 mg/day), HCQ (≤ 400 mg/day), bucillamine (≤ 300 mg/day) or iguratimod (≤ 50 mg/day) for ≥ 12 weeks and at stable dose for ≥ 4 weeks prior to the Baseline Visit. No other DMARDs are permitted during the study.
 - Subjects who need to discontinue DMARDs prior to the Baseline Visit to comply with this inclusion criterion must follow the procedure specified below or at least five times the mean terminal elimination half-life of a drug:
 - ≥ 8 weeks for LEF if no elimination procedure was followed, or adhere to an elimination procedure (i.e., 11 days with cholestyramine, or 30 days washout with activated charcoal or as per local label);
 - \circ \geq 4 weeks for all others.

Main Exclusion:

- 1. Prior exposure to any Janus Kinase (JAK) inhibitor (including but not limited to ruxolitinib, tofacitinib, baricitinib, and filgotinib).
- 2. Current treatment with > 2 non-biologic DMARDs or use of DMARDs other than MTX, SSZ, LEF, apremilast, HCQ, bucillamine or iguratimod or use of MTX in combination with LEF at Baseline.
- 3. History of fibromyalgia, any arthritis with onset prior to age 17 years, or current diagnosis of inflammatory joint disease other than PsA (including, but not limited to rheumatoid arthritis, gout, overlap connective tissue diseases, scleroderma, polymyositis, dermatomyositis, systemic lupus erythermatosus). Prior history of reactive arthritis or axial spondyloarthritis including ankylosing spondylitis and non-radiographic axial spondyloarthritis is permitted if documentation of change in diagnosis to PsA or additional diagnosis of PsA is made. Prior history of fibromyalgia is permitted if documentation of change in diagnosis to PsA or documentation that the diagnosis of fibromyalgia was made incorrectly.

Investigational Product:	upadacitinib (ABT-494)	
Doses:	15 mg or 30 mg once daily	
Mode of Administration:	Oral	
Reference Therapy:	Matching placebo for upadacitinib (ABT-494)	
Dose:	1 tablet once daily	
Mode of Administration:	Oral	
Reference Therapy:	Adalimumab (ADA)	
Dose:	40 mg every other week (eow)	
Mode of Administration:	Subcutaneous	
Reference Therapy:	Matching Placebo for Adalimumab	
Dose:	Subcutaneous	
Duration of Treatment: 260 weeks		



Criteria for Evaluation:

Efficacy:

The primary efficacy endpoint is the proportion of subjects achieving ACR20 response at Week 12. Key secondary endpoints:

The key multiplicity adjusted secondary efficacy endpoints (each dose of upadacitinib versus placebo unless noted) are:

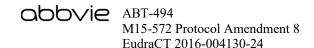
- 1. Change from baseline in HAQ-DI at Week 12;
- 2. Proportion of subjects achieving a static Investigator Global Assessment (sIGA) of Psoriasis of 0 or 1 and at least a 2-point improvement from baseline at Week 16;
- 3. Psoriasis Area Severity Index (PASI) 75 response at Week 16 (for subjects with ≥ 3% BSA psoriasis at baseline);
- 4. Change from baseline in SHS at Week 24;
- 5. Proportion of subjects achieving MDA at Week 24;
- 6. Proportion of subjects with resolution of enthesitis (LEI = 0) at Week 24;
- 7. ACR 20 response rate at Week 12 (non-inferiority of upadacitinib vs adalimumab);
- 8. Change from baseline in SF-36 PCS at Week 12.
- 9. Change from baseline in FACIT-Fatigue Questionnaire at Week 12;
- 10. ACR 20 response rate at Week 12 (superiority of upadacitinib vs. adalimumab);
- 11. Proportion of subjects with resolution of dactylitis (LDI = 0) at Week 24;
- 12. Change from baseline in Patient's Assessment of Pain NRS at Week 12 (superiority of upadacitinib vs. adalimumab);
- 13. Change from baseline in HAQ-DI at Week 12 (superiority of upadacitinib vs. adalimumab); and
- 14. Change from baseline in Self-Assessment of Psoriasis Symptoms (SAPS) Questionnaire at Week 16.

Additional key secondary efficacy endpoints (each dose of upadacitinib versus placebo) are:

- ACR50/70 response at Week 12;
- ACR20 response at Week 2;

The following outcome measures will be assessed in subjects treated with upadacitinib as compared to placebo and adalimumab at scheduled time points other than those specified for the primary and key secondary variables:

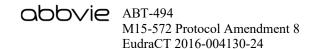
• Proportion of subjects with no radiographic progression (defined as change from baseline in SHS ≤ 0);



Criteria for Evaluation (Continued):

Efficacy (Continued):

- Change from baseline in individual components of ACR response;
 - O Change from baseline in Tender Joint Count (TJC) (0-68);
 - O Change from baseline in Swollen Joint Count (SJC) (0-66);
 - Change from baseline in Physician Global Assessment (PGA) Disease Activity Numerical Rating Scale (NRS);
 - o Change from baseline in Patient's Global Assessment (PtGA)-Disease Activity NRS;
 - o Change from baseline in Patient's Assessment of Pain NRS;
 - o Change from baseline in Health Assessment Questionnaire Disability Index (HAQ-DI);
 - o Change from baseline in High-Sensitivity C Reactive Protein (hs-CRP);
- ACR 20/50/70 response rates;
- Change from baseline in Leeds Dactylitis Index (LDI);
- Change from baseline in dactylitis count;
- Proportion of subjects with resolution of dactylitis;
- Change from baseline in Leeds Enthesitis Index (LEI);
- Proportion of subjects with resolution of enthesitis sites included in the LEI;
- Change from baseline in SPARCC Enthesitis Index;
- Proportion of subjects with resolution of enthesitis sites included in the SPARCC Enthesitis Index;
- Change from baseline in total enthesitis count;
- Proportion of subjects with resolution of enthesitis;
- PASI 75/90/100 response rates (for subjects with ≥ 3% Body Surface Area (BSA) psoriasis at baseline);
- Proportion of subjects achieving a static Investigator Global Assessment of Psoriasis (sIGA) score of 0 or 1 and at least a 2-point improvement from baseline;
- BSA-Ps.
- Modified Psoriatic Arthritis Response Criteria (PsARC) response rate;
- Change from baseline in Disease Activity Score 28 (DAS28) (CRP);
- Change from baseline in DAS28 (ESR);
- Change from baseline in PsA Disease Activity Score (PASDAS);
- Change from baseline in Disease Activity In Psoriatic Arthritis (DAPSA) score;
- Change from baseline in Short Form 36 (SF-36) Health Questionnaire;
- Change from baseline in Functional Assessment of Chronic Illness Therapy (FACIT)-Fatigue Questionnaire;
- Change from baseline in EuroQol-5-Dimensions-5-Levels (EQ-5D-5L) Questionnaire;
- Change from baseline in Work Productivity and Activity Impairment (WPAI) Questionnaire;
- Health Resource Utilization (HRU);
- Change from baseline in SAPS Questionnaire;
- Change from baseline in BASDAI;



Criteria for Evaluation (Continued):

Efficacy (Continued):

- BASDAI 50 response rates:
- Change from baseline in Morning stiffness (mean of BASDAI Questions 5 and 6);
- Change from baseline in Ankylosing Spondylitis Disease Activity Score (ASDAS);
- Proportion of subjects with ASDAS Inactive Disease;
- Proportion of subjects with ASDAS Major Improvement;
- Proportion of subjects with ASDAS Clinically Important Improvement;
- Proportion of subjects achieving a clinically meaningful improvement in HAQ-DI (≥ 0.35);
- Proportion of subjects achieving MDA.

Pharmacokinetic:

Blood samples for assay of upadacitinib and possibly other medications in plasma will be collected at each visit after baseline in Period 1.

Exploratory Research Variables and Validation Studies (Optional)

Prognostic, surrogate, predictive, and pharmacodynamic biomarkers signatures may be evaluated. Samples for different applications including, but not limited to, pharmacogenetic, epigenetic, transcriptomic, metabolomic, proteomic and targeted investigations will be collected at various time points. Assessments will include but may not be limited to nucleic acids, proteins, metabolites, or lipids.

Safety

Safety evaluations include adverse event (AE) monitoring, physical examinations, vital sign measurements, electrocardiogram (ECG), and clinical laboratory testing (hematology, chemistry, and urinalysis) as a measure of safety and tolerability for the entire study duration.

Statistical Methods:

Efficacy:

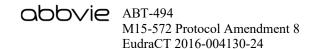
All efficacy analyses will be carried out using the Full Analysis Set population, which includes all randomized subjects who receive at least one dose of study drug.

Period 1 Efficacy:

Analysis of the Primary and Key Secondary Endpoints:

For binary endpoints, frequencies and percentages will be reported for each treatment group. Pairwise comparisons between each upadacitinib treatment group and the combined placebo groups will be conducted using the Cochran-Mantel-Haenszel test adjusting for main stratification factors.

For ACR20 response rate at Week 12, analysis will be conducted to assess the non-inferiority of each upadacitinib dose versus ADA on placebo-subtracted treatment difference using Koch's 3-arm test statistic. The test aims to show that upadacitinib preserves at least 50% of the placebo-subtracted ADA effect. Superiority of upadacitinib versus ADA will also be tested for ACR20.



Statistical Methods (Continued):

Period 1 Efficacy (Continued):

For continuous endpoints, the mean, standard deviation, median, and range will be reported for each treatment group. Pairwise comparisons for each of the upadacitinib treatment groups and the combined placebo groups will be carried out using the analysis of covariance model with treatment group as the fixed factor, and the corresponding baseline value and the main stratification factors as the covariates. For change from baseline in Patient's Assessment of Pain NRS and change from baseline in HAQ-DI at Week 12, superiority of upadacitinib vs adalimumab will also be tested. The overall type I error rate of the primary and key secondary endpoints for the two doses will be strongly controlled using a graphical multiple testing procedure.

Long-Term Efficacy for Period 1 and Period 2 Combined:

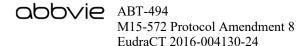
Long-term efficacy by time point will be summarized using descriptive statistics.

Pharmacokinetic:

A non-linear mixed-effects modeling approach will be used to estimate the population central values and the empirical Bayesian estimates of the individual values of upadacitinib oral clearance (CL/F) and volume of distribution (V/F). Additional parameters may be estimated if useful in the interpretation of the data.

Safety:

Safety analyses will be carried out using the Safety Analysis Set, which includes all subjects who receive at least one dose of study drug. There will be two sets of planned safety analyses: safety analysis by Week 24, and long-term safety analysis. Safety will be assessed by AEs, physical examination, laboratory assessments, ECG, and vital signs. Frequency tables and lists of subjects with treatment-emergent AEs by preferred term as in the Medical Dictionary for Regulatory Activities dictionary, by system organ class, by severity, and by relationship to the study drug as assessed by the Investigator will be provided. The changes from baseline in vital signs, physical examination results, and clinical laboratory values will be analyzed in a descriptive manner. Shift of laboratory values from baseline to defined time points will be tabulated.



1.3 List of Abbreviations and Definition of Terms

Abbreviations

Ab antibody

ACR American College of Rheumatology

ADA Adalimumab

ADL Activities of Daily Living

AE Adverse Event

AESI Adverse Events of Special Interest

Ag antigen

ALC Absolute Lymphocyte Count

ALT Alanine Transaminase
ANC Absolute Neutrophil Count
ANA Antinuclear Antibody

Anti-CCP Anti-Cyclic Citrullinated Peptide

ASDAS Ankylosing Spondylitis Disease Activity Score

AST Aspartate Transaminase

AUC Area under the plasma concentration-time curve
BASDAI Bath Ankylosing Spondylitis Disease Activity Index

BCG Bacillus Calmette-Guerin

BID twice a day

BSA Body Surface Area
BUN Blood Urea Nitrogen

CASPAR Classification Criteria for Psoriatic Arthritis

CBC Complete Blood Count
CCP Cyclic Citrullinated Peptide
CDAI Clinical Disease Activity Index

CL/F Apparent Clearance

 C_{max} Maximum Observed Plasma Concentration C_{min} Minimum Observed Plasma Concentration

COVID-19 Coronavirus Disease – 2019
CPK creatine phosphokinase
CRF Case Report Form
CRP C-reactive protein

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CS Clinically Significant

csDMARD Conventionally synthetic Disease Modifying Anti-Rheumatic Drug

CSR Clinical Study Report

CTCAE Common Terminology Criteria for Adverse Events

CTTP Continued Treatment for Trial Participants

CXR Chest X-Ray

CYP3A Cytochrome P450 3A

DAPSA Disease Activity In Psoriatic Arthritis

DAS Disease Activity Score
DAS28 Disease Activity Score 28

DMARD Disease Modifying Anti-Rheumatic Drug

DMC Data Monitoring Committee
DNA Deoxyribonucleic acid

dsDNA Double Strand Deoxyribonucleic Acid

DSS Dactylitis Severity Score

ECG Electrocardiogram

eCRF Electronic Case Report Form
EDC Electronic Data Capture

EMEA Evaluation of Medicinal Products

EOW Every Other Week

ePRO Electronic Patient Reported Outcome
EQ-5D-5L EuroQoL-5 Dimensions – 5 Levels
ESR Erythrocyte Sedimentation Rate

EU European Union

FACIT-F Functional Assessment of Chronic Illness Therapy-Fatigue

FAS Full Analysis Set

FDA US Food and Drug Administration FSH Follicle-Stimulating Hormone

GCP Good Clinical Practice
GFR Glomerular Filtration Rate

GI gastrointestinal

GLP Good Laboratory Practice

HAQ-DI Health Assessment Questionnaire – Disability Index

HB hepatitis B



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HBsAb Hepatitis B Core Antibody
HBsAb Hepatitis B Surface Antibody
HBsAg Hepatitis B Surface Antigen

HBV Hepatitis B Virus
HCQ Hydroxychloroquine
HCV hepatitis C virus

HCV Ab Hepatitis C Virus Antibody

HDL-C High-Density Lipoprotein Cholesterol

Hgb hemoglobin

HIV Human Immunodeficiency Virus
HRU Health Resource Utilization

hs-CRP High-Sensitivity C Reactive Protein

IBD inflammatory bowel disease

ICH International Conference on Harmonisation

IEC Independent Ethics Committee
IGRA Interferon-Gamma Release Assay

IL interleukin IM intramuscular

IMP Investigational Medicinal Product

IR Inadequate Response

IRB Institutional Review Board

IRT Interactive Response Technology

IU International UnitIUD Intrauterine Device

IUS Intrauterine Hormone-Releasing System

JAK Janus Kinase JAK2 Janus kinase 2

LDA Low Disease Activity
LDI Leeds Dactylitis Index

LDL-C Low-Density Lipoprotein Cholesterol

LEF Leflunomide

LEI Leeds Enthesitis Indicies

MACE Major Adverse Cardiovascular Event

MD Medical Director



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MDA Minimal Disease Activity

MDRD Modification of Diet in Renal Disease

MedDRA Medical Dictionary for Regulatory Activities

MTX Methotrexate

N Number

NK Natural Killer

NMSC Non-Melanoma Skin Cancer

NONMEM Non-Linear Mixed-Effects Modeling

NRI Non-Responder Imputation
NRS Numerical Rating Scale

NSAID Non-Steroidal Anti-Inflammatory Drug

OC Observed Cases
OL Open Label

OLE open-label extension

PASI Psoriasis Area Severity Index
PCR Polymerase Chain Reaction
PCS Physical Component Summary
PD Premature Discontinuation
PE pulmonary embolism

PGA Physician's Global Assessment

PK Pharmacokinetics

PPD Purified Protein Derivative

PRN As Needed (Latin: Pro Re Nata)

PRO Patient-Reported Outcome

PsA Psoriatic Arthritis

PsARC Psoriatic Arthritis Response Criteria

PsO Psoriasis

PT Preferred Term

PtGA Patient's Global Assessment of Disease Activity

PUVA Psoralens and Ultraviolet A

QD Once Daily (Latin: Quaque Die)
QTc QT interval corrected for heart rate

QTcF QT interval corrected for heart rate using Fridericia's formula

RA Rheumatoid Arthritis

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RAVE EDC System from Medidata

RBC Red Blood Count

RCT Randomized Controlled Trial

RNA Ribonucleic acid

SAE Serious Adverse Event SAP Statistical Analysis Plan

SAPS Self-Assessment of Psoriasis Symptoms SF-36 36-Item Short Form Health Survey

SHS Sharp/van der Heijde Score

sIGA Static Investigator Global Assessment of Psoriasis

SJC Swollen Joint Count SOC System Organ Class

SPARCC Spondyloarthritis Research Consortium of Canada

SSZ Sulfasalazine

SUSAR Suspected Unexpected Serious Adverse Reaction

TA Therapeutic Area

TA MD Therapeutic Area Medical Director

TB Tuberculosis

TEAE Treatment emergent adverse event

TJC Tender Joint Count
TNF Tumor Necrosis Factor
Tyk2 Tyrosine kinase 2
UC ulcerative colitis

ULN Upper Limit of Normal

US United States
UVA Ultraviolet A
UVB Ultraviolet B

V/F Apparent Volume of Distribution

WBC White Blood Cell

WPAI Work Productivity and Activity Impairment

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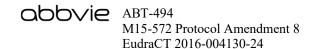
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	Interpretation and Management of HBV Serologic Test Results Adverse Event Collection



3.0 Introduction

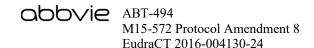
Psoriatic Arthritis

Psoriatic Arthritis (PsA) is a chronic systemic inflammatory disease classified as a subtype of spondyloarthritis (SpA) and characterized by the association of arthritis and psoriasis. PsA can develop at any time, but for most people it appears between the ages of 30 and 50, and it affects men and women equally ¹. The course of PsA is usually characterized by flares and remissions ¹. Left untreated, patients with PsA can have persistent inflammation, progressive joint damage, disability, and a reduced life expectancy ^{1,2}. For most patients, skin manifestations predate the arthritis ¹.

Patients with PsA experience varying combinations of disease manifestations affecting the synovium, tendons, entheses, skin, and bone. These manifestations of disease range in prevalence with peripheral arthritis and variable degrees of psoriasis observed in all patients at some point during their disease course, axial disease in 40 - 74% depending on the criteria used for diagnosis 3 , enthesitis in 25 - 51%, dactylitis in 8 - 59%, $^{4-6}$ and anterior uveitis in 2 - 25% 7 . Additionally, PsA patients are more likely to experience the co-morbid conditions of cardiovascular disease, metabolic syndrome, obesity, diabetes, fatty liver disease, inflammatory bowel disease, kidney disease, osteoporosis, fibromyalgia, 8 depression, and anxiety than healthy subjects 9 , and have decreased quality of life and functional impairment 10,11 .

The prevalence of PsA varies by region and has been reported as 0.13% in North America, 0.07% in South America, 0.19% in Europe, and 0.01 - 0.07% in Africa, the Middle East, and Asia 12 .

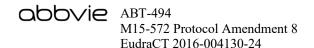
PsA patients require treatment of the entire spectrum of disease manifestations. The primary goal of treating patients with PsA is to maximize long-term health-related quality of life, through control of symptoms, prevention of structural damage, normalization of function and social participation and abrogation of inflammation. Initial treatment of musculoskeletal symptoms is composed of nonsteroidal anti-inflammatory drugs



(NSAIDs) and local corticosteroid injections, while topical therapies are used for the initial treatment of psoriasis. For patients who experience lack of efficacy or toxicity with these measures, for the treatment of peripheral arthritis, both the European League Against Rheumatism (EULAR) ¹³ and Group for Research and Assessment of Psoriasis and Psoriatic Arthritis (GRAPPA) ¹⁴ recommend systemic therapy with conventional disease modifying anti-rheumatic drugs (cDMARDs) (methotrexate [MTX], leflunomide [LEF], sulfasalazine [SSZ], or ciclosporin A), followed by anti-tumor necrosis factor (TNF) therapy in patients who do not respond adequately to cDMARDs. Other biologic therapies (e.g., IL-12 /23 or IL-17 inhibitors) are also recommended as alternatives to anti-TNF inhibitors in selected PsA patients. Additional specific recommendations differ slightly between EULAR and GRAPPA, however recommendations for therapeutic choice are made based on a patient's clinical presentation as some manifestations of PsA, such as enthesitis, dactylitis, and axial disease are either not responsive or poorly responsive to cDMARDs. Additional therapeutic options are also recommended specifically for treatment of skin disease ^{13,14}.

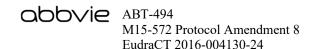
Despite the beneficial results achieved with currently available biologic agents, approximately 40% of patients do not have at least 20% improvement in American College of Rheumatology (ACR) scores ^{13,15-21} and only 58% ²² to 61% ²³ of patients with PsA who receive them are able to achieve clinical remission after 1 year of treatment, with only approximately 43% achieving sustained remission for at least 1 year ²⁴. Thus, there remains a clear medical need for additional therapeutic options in PsA for patients with inadequate response to or intolerance to currently available therapies.

Targeting the Janus kinase (JAK) signaling pathway for autoimmune diseases, such as PsA, rheumatoid arthritis (RA), Crohn's disease, ulcerative colitis (UC), and atopic dermatitis, is supported by the involvement of various pro-inflammatory cytokines that signal via JAK pathways in the pathogenesis of these immune-related disorders. The activation of JAK signaling initiates expression of survival factors, cytokines, chemokines, and other molecules that facilitate leukocyte cellular trafficking and cell proliferation, which contribute to inflammatory and autoimmune disorders ^{25,26}.



The JAK family is composed of 4 members: JAK1, 2, 3, and tyrosine kinase 2 (Tyk2). These cytoplasmic tyrosine kinases act in tandem to activate the Signal Transducer and Activator of Transcription (STAT) that transduce cytokine-mediated signals, and are associated with multiple membrane cytokine receptors such as common gamma-chain (CGC) receptors and the glycoprotein 130 trans-membrane proteins ²⁷. JAK3 and JAK1 are components of the CGC cytokine receptor complexes that are responsible for the signaling of the inflammatory cytokines IL-2, -4, -7, -9, -15 and -21; whereas IL-12 and IL-23 signal through JAK2 and Tyk2 ²⁸. Propagation of these signals is important in the amplification of inflammatory responses. While the exact mechanism of PsA has not been fully elucidated, multiple cytokines such as IL-1, -6, -12, -17, -20, and -23 are thought to be involved in the activation and proliferation of epidermal keratinocytes in psoriatic lesions ²⁹. The IL-17/IL-23 cytokine axis is also thought to be important in PsA pathogenesis ³⁰. Thus, blockade of either JAK1 or Tyk2 could inhibit the response of central cytokine signals thought to be important in the pathogenesis of PsA.

Tofacitinib is an oral JAK inhibitor that inhibits JAK1, JAK2, and JAK3 with high in vitro functional specificity for kinases 1 and 3. Tofacitinib is currently in Phase 3 development in PsA. The Phase 3 studies evaluated the efficacy and safety of tofacitinib 5 mg and 10 mg twice daily (BID) in adult patients with active PsA who had an inadequate response to at least one conventional synthetic DMARD (csDMARD) and who were TNF inhibitor-naïve (OPAL Broaden) or who had an inadequate response to at least 1 TNF inhibitor (OPAL Beyond). Both studies achieved the primary endpoints of ACR20 and change in Health Assessment Questionnaire Disability Index (HAQ-DI) versus placebo for both the 5 mg BID and 10 mg BID doses at Month 3. Data reported from OPAL Broaden indicate ACR20 response at Month 3 for placebo, tofacitinib 5 mg BID, tofacitinib 10 mg BID, and adalimumab 40 mg EOW of 33.3%, 50.5%, 60.6%, and 51.9%, respectively; p-value versus placebo for each active therapy was ≤ 0.05 . At Month 3, statistically significant results in favor of tofacitinib over placebo for both dose groups were also observed for ACR50/70 responses, and PASI75 response. Superiority of tofacitinib versus placebo was seen in the Leeds Enthesitis Index (LEI), and Dactylitis Severity Score (DSS) at the 10 mg BID dose only. Results for the primary and reported

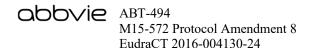


secondary efficacy endpoints were maintained to Month 12. No radiographic data were reported at Month 3 (end of double-blind period); however at Month 12 little radiographic progression was observed in any dose group ³¹. OPAL Beyond results for ACR20 response at Month 3 for placebo, tofacitinib 5 mg BID, and tofacitinib 10 mg BID were 23.7%, 49.6%, and 47.0%, respectively; p-value versus placebo for each active therapy was ≤ 0.0001. At Month 3 statistically superior results in favor of tofacitinib at both doses versus placebo for ACR50, LEI, and DSS were also observed with superiority over placebo for PASI75 demonstrated only at the 10 mg BID dose while ACR70 response was not significantly different from placebo for either dose group ³². The observed safety findings for both studies were consistent with those observed in the RA and psoriasis development programs. In related diseases (RA ³³, psoriasis ³⁴, and ankylosing spondylitis ³⁵), tofacitinib has demonstrated an impact on signs and symptoms, as measured by ACR, Psoriasis Area and Severity Index (PASI), and Assessment in Ankylosing Spondylitis (ASAS) response criteria ³¹⁻³⁵.

Upadacitinib is a novel JAK1 inhibitor being developed for the treatment of adult patients with inflammatory diseases. Based on in vitro selectivity assays and in vivo animal models, upadacitinib has demonstrated inhibition of JAK1 at efficacious drug exposure levels that spare an inhibitory effect on JAK2. The enhanced selectivity of upadacitinib may have the potential for an improved benefit/risk profile by mitigating JAK2 inhibitory effects on erythropoiesis and myelopoiesis.

Upadacitinib Clinical Development

To date, single and multiple doses of upadacitinib have been studied in healthy volunteers in 10 Phase 1 studies (one of which also employed a substudy in subjects with mild to moderate RA), which have completed study conduct. In addition, upadacitinib has been studied in 4 Phase 2 trials in subjects with RA or Crohn's disease. Two of these Phase 2 trials have completed study conduct: 2 randomized controlled trials (RCTs) in 575 subjects with moderately to severely active RA on background MTX (Studies M13-550 and M13-537). One open-label extension to the completed RA studies (Study M13-538) and 1 randomized, dose-ranging, placebo-controlled study



(Study M13-740) in subjects with moderately to severely active Crohn's disease with a history of inadequate response to or intolerance to anti-TNF therapy are ongoing. The RA Phase 3 clinical development program has been initiated and will include 6 randomized, controlled studies followed by long-term extension periods.

No Phase 2 studies in subjects with PsA have been performed with upadacitinib. Results from the Phase 2 randomized controlled studies in subjects with RA are available. Efficacy of treatment with upadacitinib in patients with moderate to severe RA was demonstrated in both Phase 2 Studies M13-550 and M13-537. Results from both studies demonstrated dose- and exposure-dependent improvement in clinical signs and symptoms as measured by the ACR20/50/70 response criteria.

The Phase 2 program for upadacitinib in subjects with moderately to severely active RA consisted of 2 randomized controlled trials (RCTs), both on stable background methotrexate (MTX) therapy, and one open-label extension (OLE) study (Study M13-538; NCT02049138) for those subjects who had completed either one of the RCTs. Study M13-550 (NCT01960855) enrolled subjects who had an inadequate response to anti-TNF therapy and Study M13-537 (NCT02066389) enrolled subjects who had shown an inadequate response to MTX. A total of 4 twice daily (BID) and 1 once daily (QD) dose regimens of upadacitinib immediate release capsules (3 mg BID, 6 mg BID, 12 mg BID, 18 mg BID, and 24 mg QD) were evaluated.

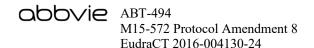
In TNF-inadequate responder (TNF-IR) subjects, who represent the population with the greatest unmet need, the primary endpoint of ACR20 response rate at Week 12 was significantly greater at all doses of upadacitinib (up to 73%) compared with placebo (35%).

In addition, numerically higher proportions of subjects achieved ACR50 and ACR70 responses and low disease activity (LDA, based on Disease Activity Score [DAS] 28 C-reactive protein [CRP] and Clinical Disease Activity Index [CDAI]) in the upadacitinib dose groups versus placebo.

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In MTX-inadequate responder (MTX-IR) subjects, the primary endpoint of ACR20 response rate at Week 12 was significantly greater (up to 82%) at all but the lowest dose of upadacitinib compared with placebo (50%). At all doses of upadacitinib compared to placebo, significantly higher proportions of subjects achieved LDA and clinical remission at Week 12.

Safety results across the studies showed that upadacitinib was well tolerated and the types and frequencies of adverse events (AEs) were consistent with subjects with moderately to severely active RA receiving immunomodulatory therapy. One subject died from lung cancer 14 weeks after completing the 12-week study (Study M13-537); the lung cancer was considered by the investigator as not related to study drug. This subject had a 40 pack-year history of tobacco use and a positive family history of lung cancer. The rates of serious adverse events (SAEs) and AEs resulting in discontinuation of study drug were low and not significantly different from placebo. No trends in the number of subjects with potentially clinically significant values or changes per dose group were observed for any of the hematology or urine parameters; however, treatment-emergent increases in blood creatine phosphokinase (CPK), all of which were asymptomatic, were reported with higher doses of upadacitinib (12 to 18 mg BID). No subject discontinued study drug due to elevated CPK. In all subjects, the CPK values normalized or were significantly reduced at the time of last observation. Among subjects with laboratory evidence of systemic inflammation (as evidenced by C-reactive protein [CRP] > upper limit of normal [ULN]), treatment with upadacitinib 3 mg BID or 6 mg BID was associated with improvements in mean hemoglobin (Hgb) relative to placebo. At higher doses, there was a reduction in mean Hgb, however the reduction was not clinically significant, as mean Hgb levels remained within normal range throughout the treatment period. One subject each in the 18 mg BID group in both Study M13-550 and Study M13-537 had an AE of anemia. Overall, the AEs observed during the Phase 2 development, as well as changes in physical examination findings, vital signs and clinical laboratory results, do not indicate any safety concerns for further development of upadacitinib.



Phase 3 Studies with upadacitinib

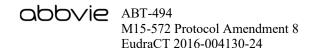
Six multi-country randomized controlled trials (RCTs) inclusive of approximately 4,425 subjects are planned or ongoing for upadacitinib in subjects with moderately to severely active RA. Study M13-542 (NCT02706847) will enroll subjects who had an inadequate response to biologic DMARDs. Study M15-925 (NCT03086343) will compare upadacitinib vs. abatacept in subjects who had an inadequate response to biologic DMARDs. Study M13-549 (NCT02675426) will enroll subjects who are on a stable dose of conventional synthetic DMARD (csDMARD) and have an inadequate response to csDMARDs. Study M14-465 (NCT02629159) will enroll subjects who are on a stable dose of MTX and have an inadequate response to MTX. Study M13-545 (NCT02706873) will enroll subjects who are MTX naïve. Study M15-555 (NCT02706951) will enroll subjects who had an inadequate response to MTX and will investigate the use of upadacitinib as monotherapy. A total of 3 dose regimens of upadacitinib once-daily tablets [30 mg QD, 15 mg QD, and 7.5 mg QD (Japan only)] will be evaluated. There are no data available from these studies at this time.

3.1 Differences Statement

This study is the first to evaluate safety, tolerability, and efficacy of upadacitinib in subjects with PsA and a previous inadequate response to at least one non-biologic DMARD.

3.2 Benefits and Risks

Despite the availability of various PsA therapies, including conventional synthetic (cs)DMARDs, 1 targeted synthetic (ts)DMARD and biologic (b)DMARDs, many patients still do not respond adequately to these treatments, or gradually lose response over time. There is evidence for clinical benefit of JAK inhibition in PsA based on 2 Phase 3 studies of tofacitinib, a non-selective JAK inhibitor ^{31,32}. Many AEs (serious infections, herpes zoster reactivation, malignancies, and hematologic adverse events) observed for tofacitinib are thought to be a consequence of non-selectivity against the members of the JAK family of proteins. Upadacitinib is a novel selective JAK1 inhibitor with the ability

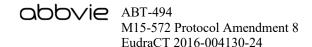


to decrease joint inflammation and damage mediated by JAK1 signaling while having minimal inhibitory effects on JAK2 and JAK3. This could potentially minimize some of the reported safety concerns with non-selective JAK inhibition which are thought to be mediated by inhibition of JAK2 and JAK3 signaling pathways.

The safety profile specific to upadacitinib is evolving with safety results to date consistent with those known to be associated with JAK inhibition. Adverse events in the categories of infection such as urinary tract infection, upper respiratory tract infection and herpes zoster reactivation have been reported as well as adverse events in the categories of malignancies, and gastrointestinal disorders such as gastrointestinal perforation. Events of deep vein thrombosis (DVT) and pulmonary embolism (PE) have been reported in patients receiving JAK inhibitors including upadacitinib.

In addition, laboratory changes including elevations of liver function tests, increase in lipids, elevation in serum creatinine, creatine phosphokinase, reduced hemoglobin depending on baseline inflammatory burden, lower white blood cell counts, and reductions in Natural Killer (NK) cells have been observed with upadacitinib therapy.

In ORAL Surveillance, a study of a different JAK inhibitor, tofacitinib, in RA patients 50 years of age and older with at least one cardiovascular risk factor, higher rates of all-cause mortality, malignancies, MACE (defined as cardiovascular death, non-fatal myocardial infarctions and non-fatal strokes) and thrombosis (overall thrombosis, deep vein thrombosis, and pulmonary embolism) were seen in patients treated with tofacitinib versus TNF blockers ³⁶. These higher rates were primarily observed in patients 65 years of age and older, patients with a history of atherosclerotic cardiovascular disease, and patients with other cardiovascular risk factors (such as current or past long-time smokers). Although upadacitinib clinical trial data to date have not indicated a higher risk for MACE, venous thromboembolism, malignancies excluding NMSC, or deaths in RA patients treated with upadacitinib versus adalimumab, the findings of the ORAL Surveillance study may potentially also apply to other JAK inhibitors and an increased risk for these events compared to TNF blockers cannot be completely excluded. Therefore, the investigator should consider the benefits and risks of upadacitinib treatment



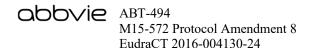
and suitable treatment alternatives in determining study participation and the continued use of upadacitinib in patients 65 years of age and older, patients with a history of atherosclerotic cardiovascular disease or other cardiovascular risk factors, patients who are current or past long-time smokers, and/or patients with other malignancy risk factors (e.g., current malignancy or history of malignancy).

The results of all genetic toxicology testing indicate that upadacitinib is not genotoxic, however upadacitinib is teratogenic based on animal studies, which necessitates avoidance of pregnancy in women of childbearing potential. Based on calculated safety margins for human fetal exposure with seminal fluid transfer, there is judged to be no risk to pregnancy of female partners of male subjects who are treated with upadacitinib.

A detailed discussion of the pre-clinical and clinical toxicology, metabolism, pharmacology and safety experience with upadacitinib can be found in the current Investigator's Brochure.

A Phase 2 program with upadacitinib demonstrated efficacy for improvement in signs and symptoms of RA and the safety results were consistent with those known to be associated with JAK inhibition ^{37-45,46,47}. Together, the safety and efficacy data from the Phase 2 RA program and establishment of proof of concept for efficacy of JAK inhibition in PsA support further development of upadacitinib in Phase 3 in subjects with PsA.

The benefit:risk profile of various immunomodulatory therapies on COVID-19 is being evaluated. At this time, the effects of upadacitinib on the course of COVID-19 are not well defined.



4.0 Study Objective

Period 1

Primary Objective

1. To compare the efficacy of upadacitinib 15 mg QD and 30 mg QD versus placebo and versus adalimumab (ADA) for the treatment of signs and symptoms of PsA in subjects with moderately to severely active PsA who have an inadequate response or intolerance to 1 or more non-biologic DMARD (DMARD-IR).

Secondary Objective

- 2. To compare the efficacy of upadacitinib 15 mg QD and 30 mg QD versus placebo for the prevention of structural progression in subjects with moderately to severely active PsA who have an inadequate response or intolerance to 1 or more non-biologic DMARD (DMARD-IR).
- 3. To compare the safety and tolerability of upadacitinib 15 mg QD and 30 mg QD versus placebo and versus adalimumab in subjects with moderately to severely active PsA who and have an inadequate response or intolerance to 1 or more non-biologic DMARD (DMARD-IR).

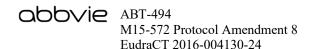
Period 2

To evaluate the long-term safety, tolerability and efficacy of upadacitinib 15 mg QD and 30 mg QD in subjects with PsA who have completed Period 1.

5.0 Investigational Plan

5.1 Overall Study Design and Plan: Description

This is a Phase 3 multicenter study that includes two periods. Period 1 is 56 weeks in duration and includes a 24-week randomized, double-blind, parallel-group, placebo-



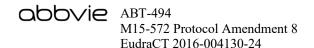
controlled and active comparator-controlled period followed by an additional 32 weeks of blinded, active comparator-controlled treatment (Weeks 24 – 56). Period 1 is designed to compare the safety, tolerability, and efficacy of upadacitinib 15 mg QD and 30 mg QD versus placebo and versus adalimumab 40 mg eow for the treatment of signs and symptoms of subjects with moderately to severely active PsA and have an inadequate response or intolerance to non-biologic DMARDs (DMARD-IR). Period 1 is also designed to compare the efficacy of upadacitinib 15 mg QD and 30 mg QD versus placebo for the prevention of structural progression. Period 2 is an open-label (blinded until the last subject completes the last visit of Period 1), long-term extension of up to a total treatment duration of approximately 5 years to evaluate the safety, tolerability and efficacy of upadacitinib 15 mg QD and 30 mg QD in subjects with PsA who have completed Period 1.

Upon approval of protocol amendment 7, subjects receiving upadacitinib 30 mg QD will be switched to upadacitinib 15 mg QD at their next scheduled study visit.

The study is designed to enroll approximately 1640 subjects at approximately 350 study centers worldwide to meet scientific and regulatory objectives without enrolling an undue number of subjects in alignment with ethical considerations.

The study duration will include a 35-day screening period; a 56-week blinded period which includes 24 weeks of double-blind, placebo-controlled and active comparator-controlled treatment followed by 32 weeks of active comparator controlled treatment (Period 1); a long-term extension period of up to a total treatment duration of approximately 5 years ([blinded until the last subject completes the last visit of Period 1] Period 2); a 30-day follow-up call or visit; and a 70-day follow-up call.

Subjects who meet eligibility criteria will be stratified by extent of psoriasis (\geq 3% body surface area [BSA] or < 3% BSA), current use of at least 1 DMARD, presence of dactylitis, and presence of enthesitis, except for subjects from China and Japan, where randomization for each country will be stratified by extent of psoriasis (\geq 3% body



surface area [BSA] or < 3% BSA) only, and then randomized in a 2:2:2:1:1 ratio to one of five treatment groups:

Group 1: Upadacitinib 15 mg QD (N = 410)

Group 2: Upadacitinib 30 mg QD (N = 410)

Group 3: ADA (40 mg every other week [eow]) (N = 410)

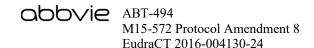
Group 4: Placebo followed by upadacitinib 15 mg QD (N = 205)

Group 5: Placebo followed by upadacitinib 30 mg QD (N = 205)

No more than approximately 15% of subjects will be enrolled with concomitant use of HCQ, sulfasalazine, bucillamine, or iguratimod.

Subjects will receive both oral study drug QD (upadacitinib 15 mg, upadacitinib 30 mg, or matching placebo) and subcutaneous study drug eow (either ADA 40 mg or matching placebo) until all subjects have completed Period 1 (Week 56) and sites and subjects are unblinded to study treatment.

Subjects who were assigned to placebo at Baseline will be preassigned to receive either upadacitinib 15 mg QD or upadacitinib 30 mg QD starting at Week 24 in a 1:1 ratio. Subjects who complete the Week 56 visit (end of Period 1) will enter the long-term extension portion of the study, Period 2 (total treatment up to approximately 5 years). Subjects will continue study treatment as assigned in Period 1. Subjects who are assigned to the upadacitinib 15 mg QD, upadacitinib 30 mg QD, or adalimumab 40 mg eow will continue to receive upadacitinib 15 mg QD, upadacitinib 30 mg QD, or adalimumab 40 mg eow, respectively, in a blinded manner. When the last subject completes the last visit of Period 1 (Week 56), study drug assignment in both periods will be unblinded to the sites, and subjects will be dispensed study drug in an open-label fashion until the completion of Period 2. Upon approval of protocol amendment 7, subjects receiving

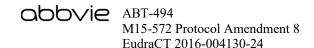


upadacitinib 30 mg QD will be switched to upadacitinib 15 mg QD at their next scheduled study visit.

Subjects must have had inadequate response to ≥ 1 non-biologic DMARD (MTX, SSZ, LEF, cyclosporine, apremilast, bucillamine or iguratimod) or an intolerance to or contraindication for DMARDs as defined by the investigator prior to the Screening visit. No background non-biologic DMARD therapy is required during participation in this study. For subjects who are on non-biologic DMARD therapy at baseline (MTX, SSZ, LEF, apremilast, hydroxychloroquine (HCQ), bucillamine or iguratimod), non-biologic DMARDs should have been started ≥ 12 weeks prior to the baseline visit, must be at stable dose for ≥ 4 weeks prior to the first dose of study drug and remain at stable dose through Week 36 of the study; the non-biologic DMARD dose may be decreased only for safety reasons. In addition, all subjects taking MTX should take a dietary supplement of oral folic acid (or equivalent) throughout study participation. Folic acid dosing and timing of regimen should be followed according to the Investigator's instructions. Please refer to Section 5.2.3.2 for additional details related to prior and concomitant DMARD therapy.

At Week 16, rescue therapy will be offered to subjects classified as non-responders (defined as not achieving at least 20% improvement in either or both tender joint count (TJC) and swollen joint count (SJC) at both Week 12 and Week 16) as follows: 1) add or modify doses of non-biologic DMARDs, NSAIDs, acetaminophen/paracetamol, low potency opioid medications (tramadol or combination of acetaminophen and codeine or hydrocodone), oral corticosteroids and/or 2) receive 1 intra-articular, trigger point or tender point, intra-bursa, or intra-tendon sheath corticosteroid injection for 1 peripheral joint, 1 trigger point, 1 tender point, 1 bursa, or 1 enthesis as described in Section 5.2.3.4 (Rescue Therapy).

After the last subject completes the Week 24 study visit, an unblinded analysis will be conducted for the purpose of initial regulatory submission. To maintain integrity of the trial during the blinded 56-week period study sites and subjects will remain blinded until all subjects have reached Week 56. A second unblinded analysis may be conducted for



regulatory purposes after all subjects have completed Period 1. A final analysis will be conducted after all subjects have completed Period 2.

Starting at Week 36, subjects who fail to demonstrate at least 20% improvement in either or both TJC and SJC compared to baseline at 2 consecutive visits will be discontinued from study drug treatment. Additionally, in subjects continuing on study drug, starting at the Week 36 visit (after Week 36 assessments have been performed), initiation of or change in background PsA medication(s) including, oral corticosteroids, non-steroidal anti-inflammatory drugs (NSAIDs), acetaminophen/paracetamol, low potency opiates, and non-biologic DMARDs (concomitant use of up to 2 non-biologic DMARDs except the combination of MTX and leflunomide) is allowed as per local label with maximum doses as outlined in Section 5.2.3.3.

Each subject will undergo a maximum of 6 scheduled visits for x-ray examination of bilateral hands and feet (unless unscheduled repeat imaging is needed due to failure to meet the quality requirements) at Screening, Week 24, Week 56, Week 104, Week 152, and Week 260/Premature discontinuation.

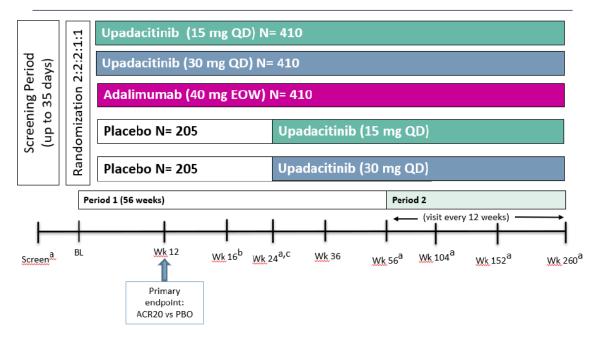
All subjects who fail to attain at least a 20% improvement in either or both TJC and SJC at Week 12 and Week 16 will have an x-ray examination at Week 16. All subjects will receive x-rays of hands and feet if they discontinue from the study or from study drug at Week 12 or later and it has been at least 12 weeks from when x-rays were last obtained during Period 1 or at least 24 weeks during Period 2.

X-rays of the hands and feet will be sent to the central imaging vendor designated by the Sponsor. Images should be reviewed by the investigator to assess for clinically significant findings. The x-rays will not be assessed by the central imaging vendor for any clinically significant findings that may impact a subject's health.

A schematic of the overall study design is shown in Figure 1 below.

Figure 1. Study Design

N=1640



- a. All subjects will receive x-rays of hands and feet at Screening, Wk 24, Wk 56, Wk 104, 152, and Wk 260/PD.
- b. At Week 16 rescue therapy will be offered to, subjects classified as non-responders (defined as not achieving at least 20% improvement in either or both tender joint count (TJC) and swollen joint count (SJC) at both Week 12 and Week 16) as described in Section 5.2.3.4.
- c. At Week 24, all placebo subjects will switch to upadacitinib 15 mg QD or 30 mg QD (1:1 ratio) regardless of response.

Note: Upon approval of protocol amendment 7, subjects receiving upadacitinib 30 mg QD will be switched to upadacitinib 15 mg QD at their next scheduled study visit.

Additionally, an unblinded interim analysis will be conducted by an independent external Data Monitoring Committee (DMC) after approximately 600 subjects have completed the Week 12 visit or have prematurely discontinued from the study. The interim analysis is to assess if the study met the pre-defined No-Go boundary for the primary endpoint ACR20. Details of the interim analysis and decision criteria will be specified in a separate DMC charter.

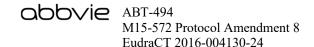
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Screening Period

Within 35 days prior to the Baseline Visit, subjects will receive a full explanation of the study design and study procedures, provide a written informed consent, and undergo the screening procedures outlined in Appendix C. Lab values can be re-tested once during the screening period. If the re-tested lab value(s) remain(s) exclusionary, the subject will be considered a screen failure. If the subject does not have either an elevated hs-CRP or an erosion on x-ray examination of bilateral hands and feet (inclusion criterion 4), hs-CRP may be re-tested once during the screening period. Redrawing samples if initial samples were unable to be analyzed would not count as a retest since initial result was never obtained.

Subjects that initially screen fail for the study are permitted to re-screen once following re-consent without prior AbbVie approval. For additional re-screening, AbbVie Therapeutic Area Medical Director (TA MD) approval is required. All screening procedures with the possible exceptions noted below will be repeated during re-screening. The subject must meet all the inclusion and none of the exclusion criteria at the time of rescreening in order to qualify for the study. There is no minimum period of time a subject must wait to re-screen for the study.

If the subject had a complete initial screening evaluation including HBV, HCV and HIV serology, the assessment of an Interferon-Gamma Release Assay (IGRA; QuantiFERON Tuberculosis [TB] Gold test) and/or a purified protein derivative (PPD) test (or equivalent) (or both if required per local guidelines), ANA, chest x-ray, and electrocardiogram (ECG), these tests will not be required to be repeated for re-screening provided the conditions noted in Section 5.3.1.1 are met, there are no changes in the subject's medical history that would warrant re-testing, and no more than 90 days have passed. Provided the conditions noted in the central imaging manual are met, if the subject had x-rays of hands and feet performed within 12 weeks of re-screening these tests will not be required for re-screening.



Period 1 (56-Week Randomized, Double-Blind Treatment Period)

Period 1 will begin at the Baseline Visit (Day 1) and will end at the Week 56 Visit. At the Baseline Visit, subjects who meet all the inclusion criteria and none of the exclusion criteria described in Section 5.2.1 and Section 5.2.2 will be enrolled into the study and randomized to double-blind treatment. During this period of the study, subjects will visit the study site at Baseline (Day 1), Weeks 2, 4, 8, 12, 16, 20, 24, 28, 32, 36, 44 and 56. A \pm 3 day window is permitted around scheduled study visits up to Week 36. Following Week 36, a \pm 7 day window is permitted. The last dose of oral study drug in Period 1 is taken the day prior to the Week 56 visit.

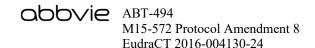
<u>Period 2 (Long-Term Extension Period [Up to a Total Treatment Duration of Approximately 5 Years])</u>

Period 2 will begin at the Week 56 visit after all assessments have been completed. When the last subject completes the last visit of Period 1 (Week 56), study drug assignment in both periods will be unblinded to the sites, and subjects will be dispensed study drug in an open-label fashion until the completion of Period 2. During Period 2, subjects will have a study visit at Week 56 and every 12 weeks thereafter until completion of the study. A \pm 7 day window is permitted around scheduled study visits. The last dose of oral study drug is taken the day prior to the Week 260 visit.

Upon approval of protocol amendment 7, subjects receiving upadacitinib 30 mg QD will be switched to upadacitinib 15 mg QD at their next scheduled study visit.

Discontinuation of Study Drug and Continuation of Study Participation (Period 1 and Period 2)

Starting at Week 36, subjects who failed to show at least 20% improvement in either or both TJC and SJC compared to baseline at 2 consecutive visits will be discontinued from study drug treatment. Subjects who discontinue study drug treatment may choose to continue to participate in the study (refer to Section 5.4.1 for additional details). Subjects who prematurely discontinue study drug should complete a Premature Discontinuation



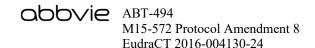
visit (PD visit) as soon as possible, preferably within 2 weeks of study drug discontinuation and preferably prior to initiation of another therapy. Afterwards, subjects should follow the regular visit schedule as outlined in Appendix C and adhere to all study procedures except for dispensing study drug, annual TB testing, PK sample collection, blood sample collection for optional exploratory research and validation studies, and calculation for drug assignment based on TJC/SJC. If a subject no longer wants to provide assessments (withdrawal of informed consent) following discontinuation of study drug, a second PD visit is not required.

Premature Discontinuation of Study (Withdrawal of Informed Consent) (Period 1 and Period 2)

Subjects may withdraw from the study completely (withdrawal of informed consent) for any reason at any time (refer to Section 5.4.2 for additional details). If a subject prematurely discontinues study drug treatment and study participation (withdrawal of informed consent), the procedures outlined for the Premature Discontinuation visit (PD visit) should be completed as soon as possible, preferably within 2 weeks of study drug discontinuation and preferably prior to initiation of another therapy. In addition, a 30-day follow-up visit (or phone call if a visit is not possible) should occur to determine the status of any ongoing AEs/SAEs or the occurrence of any new AEs/SAEs. For subjects on subcutaneous study drug, a 70-day follow-up phone call should occur to determine the status of any ongoing AEs/SAEs or the occurrence of any new AEs/SAEs. The 70-day follow-up phone call will not be required for any subject that initiates commercial adalimumab. Subjects who discontinue from the study will not be replaced.

Follow-Up Period

Subjects who complete the last visit of Period 2 (Week 260) will have a follow-up visit/phone call approximately 30 days after the last dose of oral study drug to obtain additional safety information. Whenever laboratory results are needed for AE follow-up, the 30-day follow-up should be performed as a visit at the site. A follow-up phone call will also occur 70 days after the last administration of injectable study drug to determine



the status of any ongoing AEs/SAEs or the occurrence of any new AEs/SAEs. Subjects completing the study on open label (OL) therapy will only be required to have the 30-day follow-up visit/phone call if on oral study drug or the 70-day follow-up phone call if on injectable study drug. The follow-up visit/phone call is not applicable for subject who begin commercially available upadacitinib or adalimumab. The 30-day follow-up visit/phone call and 70-day follow-up call are not required for subjects who discontinued study drug and continued study participation with completion of at least one study visit approximately 30 days or 70 days after last dose of study drug, respectively. For subjects who enter CTTP, the 30-day follow-up visit/phone call following the last dose of study drug at the Week 260 visit will not be required.

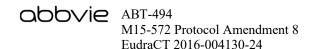
5.1.1 Treatment After End of Study

For subjects receiving upadacitinib, as the subject nears the end of the study (Week 260 in Period 2), the investigator will discuss the appropriate subsequent treatment with the subject. If the subject and investigator determine continued therapy with upadacitinib remains the best course of treatment, AbbVie will work with the investigator to evaluate a path for continued treatment in accordance with local regulation until upadacitinib is commercially available and/or the subject can access upadacitinib locally (refer to Appendix I for further details).

All subjects randomized to the adalimumab treatment arm will have the opportunity to continue with adalimumab treatment through the end of Period 2 (Week 260). Following completion of the Week 260 visit, subjects randomized to adalimumab will complete the study by the 70-day follow-up phone call.

5.2 Selection of Study Population

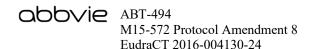
It is anticipated that approximately 1640 subjects with active PsA with inadequate response to at least one non-biologic DMARD will be randomized at approximately 350 study centers, globally.



A subject may be enrolled in this study provided that he/she has met all of the inclusion criteria specified in Section 5.2.1 and none of the exclusion criteria specified in Section 5.2.2 of this protocol.

5.2.1 Inclusion Criteria

- 1. Adult male or female, at least \geq 18 years old at Screening.
- 2. Clinical diagnosis of PsA with symptom onset at least 6 months prior to the Screening Visit and fulfillment of the Classification Criteria for PsA (CASPAR) criteria.
- Subject has active disease at Baseline defined as ≥ 3 tender joints (based on 68 joint counts) and ≥ 3 swollen joints (based on 66 joint counts) at Screening and Baseline Visits.
- 4. Presence of either at Screening:
 - ≥ 1 erosion on x-ray as determined by central imaging review or;
 - hs-CRP > laboratory defined upper limit of normal (ULN).
- 5. Diagnosis of active plaque psoriasis or documented history of plaque psoriasis.
- 6. Subject has had an inadequate response (lack of efficacy after a minimum 12 week duration of therapy) to previous or current treatment with at least 1 non-biologic DMARD at maximally tolerated dose or up to dose defined in Inclusion Criterion 7 [(inadequate response to MTX is defined as ≥ 15 to ≤ 25 mg/week; or ≥ 10 mg/week in subjects who are intolerant of MTX at doses ≥ 12.5 mg/week after complete titration; for subjects in China, South Korea, Malaysia, Singapore, Hong Kong (China), Taiwan, and Japan inadequate response to MTX is defined as ≥ 7.5 mg/week), SSZ, LEF, cyclosporine, apremilast, bucillamine or iguratimod], or subject has an intolerance to or contraindication for DMARDs as defined by the investigator.
- 7. Subject who is on current treatment with concomitant non-biologic DMARDs at study entry must be on ≤ 2 non-biologic DMARDs (except the combination of



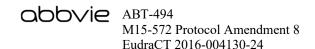
MTX and leflunomide) at the following doses: MTX (\leq 25 mg/week), SSZ (\leq 3000 mg/day), leflunomide (LEF) (\leq 20 mg/day), apremilast (\leq 60 mg/day), HCQ (\leq 400 mg/day), bucillamine (\leq 300 mg/day) and iguratimod (\leq 50 mg/day) for \geq 12 weeks and at stable dose for \geq 4 weeks prior to the Baseline Visit. No other DMARDs are permitted during the study. Use of MTX in combination with LEF is prohibited. Subjects who need to discontinue DMARDs prior to the Baseline Visit to comply with this inclusion criterion must follow the procedure specified below or at least five times the mean terminal elimination half-life of a drug:

- \geq 8 weeks for LEF if no elimination procedure was followed, or adhere to an elimination procedure (i.e., 11 days with cholestyramine, or 30 days washout with activated charcoal or as per local label);
- \geq 4 weeks for all others.
- 8. Stable doses of non-steroidal anti-inflammatory drugs (NSAIDs), acetaminophen/paracetamol, low-potency opiates (tramadol or combination of acetaminophen and codeine or hydrocodone), oral corticosteroids (equivalent to prednisone ≤ 10 mg/day), or inhaled corticosteroids for stable medical conditions are allowed, but must have been at a stable dose for ≥ 1 week prior to the Baseline Visit.
- 9. Subjects must have discontinued all opiates (except for tramadol, or combination of acetaminophen and codeine or hydrocodone) at least 1 week and oral traditional Chinese medicine for at least 4 weeks prior to the first dose of study drug (refer to Section 5.2.3.3 for prohibited medications).
- 10. Where mandated by local requirements only, treatment with at least one of the following background medications is required: non-biologic DMARDs, NSAIDs, acetaminophen, low potency opiates (tramadol or combination of acetaminophen codeine or hydrocodone), or oral corticosteroids at doses described in Inclusion Criteria 7 and 8.

- 11. Women of childbearing potential (refer to Section 5.2.4), must not have a positive serum pregnancy test at the Screening Visit and must have a negative urine pregnancy test at the Baseline Visit-prior to study drug dosing. Where mandated by local requirements a negative serum pregnancy test will be required.
 - Note: Subjects with a borderline serum pregnancy test at Screening must have a serum pregnancy test ≥ 3 days later to document continued lack of a positive result.
- 12. If female, subject must be postmenopausal OR permanently surgically sterile OR for women of childbearing potential practicing at least one protocol specified method of birth control (Section 5.2.4) that is effective from the Baseline visit through at least 150 days after the last dose of subcutaneous study drug, and 30 days after the last dose of oral study drug.
 - Additional local requirements may apply. Refer to Appendix H.
- 13. Subjects must voluntarily sign and date an informed consent, approved by an Independent Ethics Committee (IEC)/Institutional Review Board (IRB), prior to the initiation of any screening or study-specific procedures. For subjects in Japan only: if a subject is under 20 years of age, then the subject and their parent or legal guardian must voluntarily sign and date an informed consent.

Rationale for Inclusion Criteria

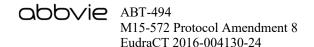
1 - 10	To select the appropriate subject population
11 – 12	The effect of upadacitinib on pregnancy and reproduction is unknown
13	In accordance with harmonized Good Clinical Practice (GCP)



5.2.2 Exclusion Criteria

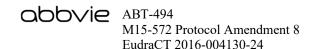
A subject will not be eligible for study participation if he/she meets any of the following criteria:

- 1. Prior exposure to any biologic immunomodulation agents.
- 2. Prior exposure to any Janus Kinase (JAK) inhibitor (including but not limited to ruxolitinib, tofacitinib, baricitinib, and filgotinib).
- 3. Has been treated with any investigational drug within 30 days or five half-lives of the drug (whichever is longer) prior to the first dose of study drug or is currently enrolled in another interventional clinical study.
- 4. Current treatment with > 2 non-biologic DMARDs or use of DMARDs other than MTX, SSZ, LEF, apremilast, HCQ, bucillamine or iguratimod or use of MTX in combination with LEF at Baseline.
- 5. Current or past history of infection including:
 - History of recurrent or disseminated (even a single episode) herpes zoster;
 - History of disseminated (even a single episode) herpes simplex;
 - History of known invasive infection (e.g., listeriosis and histoplasmosis);
 - Active human immunodeficiency virus (HIV) or immunodeficiency syndrome. Active HIV is defined as confirmed positive anti-HIV antibody (HIV Ab) test;
 - Subject has active TB or meets TB exclusionary parameters (refer to Section 5.3.1.1 for specific requirements for TB testing);
 - For subjects in Japan only: Positive result of beta-D-glucan or two consecutive indeterminate results of beta-D-glucan (screening for pneumocystis jiroveci infection).
 - Active infection(s) requiring treatment with parenteral anti-infectives within 30 days, or oral anti-infectives within 14 days prior to the Baseline Visit.
 - Chronic recurring infection and/or active viral infection that based on the investigator's clinical assessment makes the subject an unsuitable candidate for the study;



• Active HBV or HCV defined as:

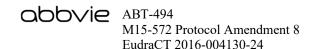
- o HBV: hepatitis B surface antigen (HBs Ag) positive (+) or detected sensitivity on the HBV deoxyribonucleic acid (DNA) polymerase chain reaction (PCR) qualitative test for hepatitis B core antibody (HBc Ab) positive (+) subjects (and for Hepatitis B surface antibody positive [+] subjects in China, Japan and South Korea, or where mandated by local requirements);
- HCV: HCV ribonucleic acid (RNA) detectable in any subject with anti-HCV antibody (HCV Ab).
- 6. Underlying medical diseases or problems including but not limited to the following:
 - History of any of the following cardiovascular conditions:
 - Moderate to severe congestive heart failure (New York Heart Association class III or IV);
 - Recent (within past 6 months) cerebrovascular accident, myocardial infarction, coronary stenting;
 - Uncontrolled hypertension as defined by a confirmed systolic blood pressure > 160 mmHg or diastolic blood pressure > 100 mmHg;
 - Subject has been a previous recipient of an organ transplant which requires continued immunosuppression;
 - History of gastrointestinal perforation (other than appendicitis or penetrating injury), diverticulitis, or significantly increased risk for GI perforation per investigator judgment;
 - Conditions that could interfere with drug absorption including but not limited to short bowel syndrome;
 - History of any malignancy except for successfully treated non-melanoma skin cancer (NMSC) or localized carcinoma in situ of the cervix;
 - History of demyelinating disease such as Multiple Sclerosis or neurologic symptoms suggestive of demyelinating disease (including myelitis);
 - History of clinically significant medical conditions or any other reason which in the opinion of the investigator would interfere with the subject's



participation in this study or would make the subject an unsuitable candidate to receive study drug or would put the subject at risk by participating in the protocol; or permanently wheelchair-bound or bedridden or very poor functional status which prevents the ability to perform self-care.

- 7. Use of the following concomitant psoriasis treatments within the specified timeframe:
 - Oral retinoids within 4 weeks of the Baseline visit;
 - Fumarates within 1 week of the Baseline Visit:
 - Psoralens and Ultraviolet A (PUVA) within 4 weeks of the Baseline visit;
 - Ultraviolet A (UVA) or Ultraviolet B (UVB); or Laser therapy within 2 weeks of the Baseline visit;
 - All topical psoriasis treatments, including medicated shampoos, within 2 weeks of the Baseline visit. The following exceptions are allowed:
 - Bland (without beta or alpha hydroxy acids, urea or salicylic acids)
 emollients
 - Low potency (Class VI or VII) topical corticosteroids on the palms, soles, face, inframammary area and groin only.
 - Topical anti-itch treatment with no expected effect on psoriatic skin lesions.
- 8. Systemic use of known strong cytochrome P450 (CYP) 3A inhibitors or strong CYP3A inducers from Screening through the last dose of the study drug (refer to Table 1 for examples of commonly used strong CYP3A inhibitors and inducers).
- 9. Receipt of any live vaccine within 4 weeks (8 weeks in Japan) prior to the Baseline Visit, or expected need of live vaccination during study participation including at least 4 weeks (8 weeks in Japan) after the last dose of oral study drug, and including at least 70 days after the last dose of subcutaneous study drug.
- 10. Subject has received oral or parenteral Traditional Chinese Medicines within 4 weeks prior to Baseline, has received opioid analgesics (except for tramadol or combination of acetaminophen and codeine or hydrocodone which are allowed)

- within 1 week prior to Baseline, or use of inhaled marijuana within 2 weeks prior to Baseline.
- 11. History of an allergic reaction or significant sensitivity to constituents of the study drugs (including adalimumab or its excipients) and/or other products in the same class.
- 12. History of fibromyalgia, any arthritis with onset prior to age 17 years or current diagnosis of inflammatory joint disease other than PsA (including, but not limited to rheumatoid arthritis, gout, overlap connective tissue diseases, scleroderma, polymyositis, dermatomyositis, systemic lupus erythematosus.) Prior history of reactive arthritis or axial spondyloarthritis including ankylosing spondylitis and non-radiographic axial spondyloarthritis is permitted if documentation of change in diagnosis to PsA or additional diagnosis of PsA is made. Prior history of fibromyalgia is permitted if documentation of change in diagnosis to PsA or documentation that the diagnosis of fibromyalgia was made incorrectly.
- 13. History of clinically significant (per Investigator's judgment) drug or alcohol abuse within the last 6 months preceding the Baseline Visit.
- 14. Female subject who is pregnant, breastfeeding or is considering becoming pregnant during the study within 150 days after the last dose of subcutaneous study drug, and within 30 days after the last dose of oral study drug.
- 15. Laboratory values meeting the following criteria within the Screening period:
 - Serum aspartate transaminase (AST) $> 2 \times ULN$;
 - Serum alanine transaminase (ALT) $> 2 \times ULN$;
 - Estimated glomerular filtration rate (GFR) by simplified 4-variable Modification of Diet in Renal Disease (MDRD) formula
 40 mL/min/1.73 m²;
 - Total white blood cell count (WBC) < 2,500/μL;
 - Absolute neutrophil count (ANC) $< 1,500/\mu L;$
 - Platelet count $< 100,000/\mu L$;
 - Absolute lymphocyte count < 800/μL;



- Hemoglobin < 10 g/dL.
- 16. Active skin disease other than psoriasis that would interfere with the assessment of psoriasis.
- 17. Subject with extra-articular manifestations of PsA (e.g., PsO, uveitis, or IBD) that are not clinically stable for at least 30 days prior to study entry.
- 18. Subject has had joint surgery at joints to be assessed within this study or has been treated with intra-articular, intramuscular, intravenous, trigger point or tender point, intra-bursa, or intra-tendon sheath corticosteroids in the preceding 8 weeks prior to the Baseline visit.
- 19. Consideration by the Investigator, for any reason, that the subject is an unsuitable candidate to receive upadacitinib or adalimumab or subject has any contraindication to adalimumab, according to the local label.

Rationale for Exclusion Criteria

1-4 To select the appropriate subject population 14 The impact of upadacitinib on pregnancies is unknown 5-13, 15-19 To ensure safety of the subjects throughout the study

5.2.3 Prior and Concomitant Therapy

Any medication or vaccine (including over-the-counter or prescription medicines, vitamins and/or herbal supplements including folic acid) that the subject is receiving within 28 days prior to Screening and/or receives during the study, must be recorded along with the reason for use, date(s) of administration including start and end dates, and dosage information including dose, route and frequency must be recorded in the eCRF.

In addition, for subject's \leq 30 years old with a reported malignancy AE, prior exposure to, or current use of antineoplastics, or other drugs which have a risk of malignancy as stated in their label and other relevant dosing information to estimate total exposure will be

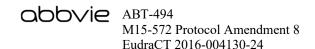
collected in the source documents and appropriate eCRF pages. At the time of the reported malignancy AE, sites will be asked if any of the below prior and concomitant medication categories contributed to the event. Any medications in these categories used prior to the study will be captured on the appropriate eCRF. Information on the reason for use, date(s) of administration including start and end dates, highest maintained dose, dosage information including dose, route and frequency, and reason for stopping the medication will be collected in the source documents and appropriate eCRF pages.

Medication Categories:

- corticosteroids
- immunosuppressants
- biologic agents
- antineoplastics
- other

Vaccines

Vaccines recommended by local guidelines should be considered. If the investigator chooses to administer a vaccine, this should be completed before first dose of study drug with appropriate precautions and time interval. It is recommended that subjects be up to date for recommended inactivated, toxoid or biosynthetic vaccines, such as injectable flu vaccine, pneumococcal, and pertussis (Tdap). It is recommended that the live herpes zoster vaccine should be considered for administration at least 4 weeks (8 weeks in Japan) before first dose of study drug or administered at least 30 days after last dose of oral study drug, or at least 70 days after last dose of subcutaneous study drug. If the herpes zoster vaccine is to be administered, and there is no known history of primary varicella (chicken pox), pre-existing immunity to varicella should be confirmed with antibody testing at or prior to screening and prior to administration of the herpes zoster vaccine. If screening varicella antibody testing is negative the herpes zoster vaccine should not be administered. See Section 5.2.3.3 for a list of commonly used live vaccines.



The AbbVie Therapeutic Area Medical Director (TA MD) should be contacted if there are any questions regarding concomitant or prior therapy(ies).

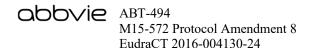
5.2.3.1 Prior Therapy

All prior drug therapies for PsA (arthritis and psoriasis), since initial diagnosis, must be recorded in the eCRF along with the dates of first and last dose, maximum dosage taken, route of administration and reason for discontinuation, if known. Additionally, the investigator will record response to DMARDs (e.g., no response, inadequate response, loss of response), intolerance to DMARD and/or contraindication for DMARDs.

5.2.3.2 Permitted Background Therapy

In Period 1, if subjects are on background DMARDs they should continue on stable treatment of up to 2 non-biologic DMARDs (DMARDs should have been started ≥ 12 weeks prior to the Baseline visit and without dosing or administration changes ≥ 4 weeks prior to the Baseline visit). The following non-biologic DMARDs are allowed as background therapy during the study: MTX (≤ 25 mg/week), SSZ (≤ 3000 mg/day), leflunomide (LEF) (≤ 20 mg/day), apremilast (≤ 60 mg/day), HCQ (≤ 400 mg/day), bucillamine (≤ 300 mg/day) and iguratimod (≤ 50 mg/day). In addition, for all subjects taking MTX, subjects should take a dietary supplement of oral folic acid (or equivalent, such as folinic acid) throughout study participation. Folic acid dosing and timing of regimen should be followed according to Investigator's instructions. No other DMARDs are permitted during the first 36 weeks of study participation in Period 1. At any time, the background DMARD dose may be decreased for safety reasons. AbbVie will not provide background DMARDs or folic acid.

In the first 36 weeks of study participation in Period 1, subjects should also continue on their stable doses of NSAIDs, acetaminophen/paracetamol, low-potency opiates (tramadol or combination of acetaminophen with codeine or hydrocodone), oral corticosteroids (equivalent to prednisone ≤ 10 mg/day). If taking any of the above on a scheduled basis, they should continue to take them as they did at study entry with no change in dose or frequency, including on study visit days. If not taking any of the above at baseline, these

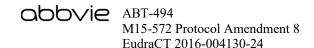


should not be initiated except where permitted by protocol (specific time period or protocol-defined rescue). If taking any of the above at baseline on an as-needed basis (PRN), they should continue to use them for the same reason and same dose each time but they should not be taken within the 24 hours prior to any study visit to avoid bias in outcome measurements. In the event of tolerability (or other safety) issues, these medications may be decreased, or discontinued with substitution of another permitted medication from that class. PRN use of inhaled corticosteroids is permitted at any time.

In Periods 1 and 2, starting at Week 36 (after Week 36 assessments have been performed) and thereafter, 1 intra-articular, trigger point or tender point, intra-bursa, or intra-tendon sheath injections of corticosteroids, dosage and frequency per standard of care, is allowed every 12 weeks. However, corticosteroid injections should be avoided within 21 days prior to the next scheduled study visit to avoid confounding effects of systemic absorption of intra-articular, trigger point or tender point, intra-bursa, and intra-tendon sheath corticosteroids.

In addition, at Week 36 (after Week 36 assessments have been performed) and thereafter, initiation of or change in corticosteroids, NSAIDs, acetaminophen/paracetamol, low-potency opiates (tramadol or combination of acetaminophen with codeine or hydrocodone) or adding or changing doses of non-biologic DMARDs (MTX, LEF, SSZ, apremilast, HCQ, bucillamine or iguratimod) is allowed as per local label. Concomitant use of up to 2 non-biologic DMARDs (MTX, LEF, SSZ, apremilast, HCQ, bucillamine or iguratimod) except the combination of MTX and LEF is permitted. Doses of non-biologic DMARDs and oral corticosteroids may not exceed maximums defined above and in inclusion criteria (Section 5.2.1).

After the Week 16 visit has been completed, a subject who qualifies for rescue therapy will be permitted to add or modify doses of non-biologic DMARDs, NSAIDs, acetaminophen/paracetamol, low potency opioid medications (tramadol or combination of acetaminophen and codeine or, hydrocodone), oral corticosteroids, and/or receive 1 intra-articular, trigger point or tender point, intra-bursa, or intra-tendon sheath corticosteroid injection for 1 peripheral joint, 1 trigger point, 1 tender point, 1 bursa, or 1 enthesis as



described in Section 5.2.3.4 (Rescue Therapy). Corticosteroid injections should be avoided within 21 days prior to the next scheduled study visit to avoid confounding effects of systemic absorption of corticosteroids.

In Period 1 and Period 2 permitted topical treatments for Psoriasis (PsO) include:

- Non-medicated shampoos
- Bland (without beta or alpha hydroxy acids, urea or salicylic acid) emollients
- Low potency (Class VI or VII) topical corticosteroids on the palms, soles, face, inframammary area and groin only.

Starting at Week 16 (after Week 16 assessments have been performed) and thereafter, subjects may use any therapy for PsO per investigator judgment, with the exception of non-biologic DMARDs which may not be initiated or modified at Week 16 unless non-responder criteria are met as detailed in Section 5.2.3.4 Rescue Therapy. At Week 36 and thereafter, initiation of or change in dose of non-biologic DMARDs is permitted, as described above.

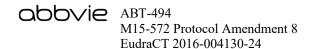
5.2.3.3 Prohibited Therapy

Non-Biologic DMARDs

Prior exposure to or concomitant use of JAK/TYK2 inhibitors (including but not limited to commercial upadacitinib [Rinvoq®], ruxolitinib [Jakafi®, Opzelura®], tofacitinib [Xeljanz®], baricitinib [Olumiant®], peficitinib [Smyraf®], abrocitinib [Cibinqo®], filgotinib [Jyseleca®], fedratinib [Inrebic®], and deucravacitinib [Sotyktu®]) is not allowed.

Use of MTX in combination with LEF is NOT allowed.

Concomitant therapy with > 2 non-biologic DMARDs or therapy with DMARDs other than MTX (≤ 25 mg/week), SSZ (≤ 3000 mg/day), leflunomide (LEF) (≤ 20 mg/day), apremilast (≤ 60 mg/day), HCQ (≤ 400 mg/day), bucillamine (≤ 300 mg/day) and



iguratimod (≤ 50 mg/day). Subjects must have discontinued all other non-biologic DMARDs prior to Baseline Visit as specified in Inclusion Criterion 7, Section 5.2.1.

Corticosteroids

Intravenous (IV), intramuscular (IM) and epidural corticosteroids are NOT allowed.

Biologic Therapies

All prior and concomitant biologic therapies with immunosuppression potential, and biosimilar versions of biologic drugs for treatment of PsA are prohibited during the study (Period 1 and Period 2). Examples of biologic therapies include but are not limited to the following:

- Humira® (adalimumab)
- Orencia® (abatacept)
- Kineret® (anakinra)
- Saphnelo® (anifrolumab)
- Benlysta® (belimumab)
- Cimzia[®] (certolizumab pegol)
- Prolia® (denosumab)
- Dupixent® (dupilumab)
- Raptiva® (efalizumab)
- Enbrel[®] (etanercept)
- Simponi[®] (golimumab)
- guselkumab
- Remicade® (infliximab)
- Taltz[®] (ixekizumab)
- lebrikizumab
- Tysabri[®] (natalizumab)
- nemolizumab

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- Rituxan® (rituximab)
- Skyrizi[®] (risankizumab)
- Cosentyx® (secukinumab)
- Actemra® (tocilizumab)
- tralokinumab
- Stelara® (ustekinumab)
- Entyvio® (vedolizumab)

Strong CYP3A Inhibitors or Inducers

Systemic use of known strong CYP3A inhibitors or strong CYP3A inducers is excluded from the Screening Visit through the end of the study. This includes over-the-counter or prescription medicines, vitamins, herbal supplements, and/or traditional medicines. The most commonly strong CYP3A inhibitors and inducers are listed in Table 1.

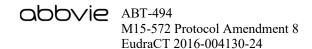


Table 1. Examples of Commonly Used Strong CYP3A Inhibitors and Inducers

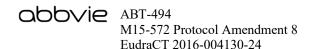
Strong CYP3A Inhibitors	Strong CYP3A Inducers	
Boceprevir	Apalutamide	
Ceritinib	Carbamazepine	
Cobicstat	Enzalutamide	
Clarithromycin	Ivosidenib	
Conivaptan	Lumacaftor	
Grapefruit (fruit or juice)	Mitotane	
Idelalisib	Phenytoin	
Itraconazole	Rifampin (Rifampicin)	
Ketoconazole	Rifapentine	
Mibefradil	St. John's Wort	
Nefazodone		
Nelfinavir		
Posaconazole		
Ritonavir (alone or in combination with danoprevir, elvitegravir, indinavir, lopinavir, nirmatrelvir, paritaprevir, saquinavir, telaprevir, tipranavir, ombitasvir and/or dasabuvir)		
Telithromycin		
Troleandomycin		
Voriconazole		

Cannabis

Use of inhaled medicinal and recreational marijuana is prohibited during the study and subjects must have discontinued use at least 2 weeks prior to Baseline.

Opiates

Opiates, with the exception of tramadol or combination of acetaminophen and codeine or hydrocodone, are not permitted during the study, and subjects must have discontinued



prohibited opiates at least 1 week prior to the first dose of study drug, including (but not limited to):

- buprenorphine
- codeine
- fentanyl
- hydrocodone
- hydromorphone
- levorphanol
- meperidine
- methadone
- morphine
- oxycodone
- oxymorphone
- propoxyphene

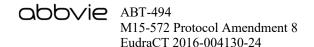
Low potency opioid medications limited to tramadol or combination of acetaminophen and codeine or hydrocodone are permitted during the study.

Traditional Chinese Medications

Oral or parenteral Traditional Chinese Medicine is not permitted during the study, and subjects must have discontinued Traditional Chinese Medicines at least 4 weeks prior to the first dose of study drug. Subjects may not use oral or parenteral Traditional Chinese Medicines during the study including for treatment of AEs.

<u>Investigational Drugs</u>

Subjects who have been treated with any investigational drug within 30 days or five half-lives of the drug (whichever is longer) prior to the first dose of study drug are excluded from participation in this study. Investigational drugs are also prohibited during the study.



Vaccines

Although not mandated by the protocol, vaccines recommended by local guidelines should be considered. If the subject and investigator choose to administer live vaccines with replicating potential, these vaccinations must be completed at least 4 weeks (8 weeks in Japan) before first dose of study drug. Live vaccines with replicating potential are prohibited during the study participation including at least 30 days after the last dose of study drug.

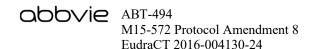
Examples of live vaccines with replicating potential include, but are not limited to, the following:

- Monovalent live attenuated influenza A (H1N1) (intranasal);
- Seasonal trivalent live attenuated influenza (intranasal);
- Herpes zoster (Zostavax[®], live attenuated);
- Rotavirus;
- Varicella (chicken pox);
- Measles-mumps-rubella or measles mumps rubella varicella;
- Oral polio vaccine;
- Smallpox or monkeypox vaccine capable of replicating;
- Yellow fever;
- Bacille Calmette-Guérin (BCG);
- Typhoid (oral).

Examples of common vaccines that are inactivated, toxoid or biosynthetic, include but are not limited to: injectable influenza vaccine, pneumococcal and, pertussis (Tdap) vaccines.

5.2.3.4 Rescue Therapy

At Week 16, subjects classified as non-responders (defined as not achieving at least 20% improvement in either or both tender joint count (TJC) and swollen joint count (SJC) at both Week 12 and Week 16) will add or modify doses of non-biologic DMARDs,



NSAIDs, acetaminophen/paracetamol, low potency opioid medications (tramadol or combination of acetaminophen and codeine or hydrocodone), oral corticosteroids, and/or receive 1 intra-articular, trigger point or tender point, intra-bursa, or intra-tendon sheath corticosteroid injection for 1 peripheral joint, 1 trigger point, 1 tender point, 1 bursa, or 1 enthesis. Doses of non-biologic DMARDs and oral corticosteroids may not exceed maximums defined in inclusion criteria (Section 5.2.1).

Corticosteroid injections should be avoided within 21 days prior to the next scheduled study visit to avoid confounding effects of systemic absorption of intra-articular, trigger point or tender point, intra-bursa, and intra-tendon sheath corticosteroids. For the analysis of the TJC, SJC, and enthesitis sites, injected joints or enthesitis sites will be considered "not assessable" for 90 days from the time of the injection.

5.2.4 Contraception Recommendations

Contraception Recommendation for Females

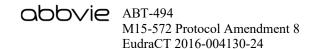
A woman who is postmenopausal, permanently surgically sterile, or permanently infertile is not considered to be a woman of childbearing potential and is not required to follow contraception recommendations.

Surgically sterile is defined as:

- bilateral oophorectomy (surgical removal of both ovaries); or
- bilateral salpingectomy (surgical removal of both fallopian tubes); or
- hysterectomy (surgical removal of uterus)

Postmenopausal is defined as:

- Age \geq 55 years with no menses for 12 or more months without an alternative medical cause; or
- Age < 55 years with no menses for 12 or more months without an alternative medical cause AND a follicle-stimulating hormone (FSH) level ≥ 30 IU/L.



Non-surgical permanent infertility is defined as:

• Mullerian agenesis, androgen insensitivity, or gonadal dysgenesis; investigator discretion should be applied to determining study entry for these individuals.

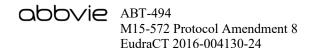
If the female subject is < 55 years of age and has had no menses for ≥ 12 months AND has no history of permanent surgical sterilization (defined above), FSH should be tested at Screening:

- If FSH is not tested, it is assumed that the subject is of childbearing potential and protocol-specified contraception is required.
- If the FSH is tested and the result is consistent with post-menopausal status, contraception is not required.
- If the FSH is tested and the result is consistent with pre-menopausal status, contraception is required, and pregnancy testing requirements for women of childbearing potential must be followed (see Section 5.3.1.1 pregnancy test).

For a female subject at any age:

- Female subjects with menses within the past 12 months are of childbearing potential and FSH is therefore not required but contraception is required.
- Female subjects who are surgically sterile (defined above) are not of childbearing potential and therefore no FSH testing or contraception is required.

A woman who does not meet the definition of postmenopausal, permanently surgically sterile, or permanently infertile is considered of childbearing potential and is required to practice at least one of the following highly effective methods of birth control that is effective from Study Day 1 (or earlier) through at least 150 days after the last dose of subcutaneous study drug, and at least 30 days after the last dose of oral study drug.



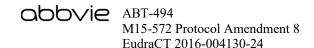
- Combined (estrogen and progestogen containing) hormonal contraception (oral, injectable, intravaginal, transdermal) associated with the inhibition of ovulation, initiated at least 30 days prior to Baseline Visit.
- Progestogen-only hormonal contraception (oral, injectable, implantable) associated with inhibition of ovulation, initiated at least 30 days prior to Baseline Visit.
- Bilateral tubal occlusion/ligation (Japan only: bilateral tubal ligation only).
- Vasectomized partner(s) provided the vasectomized partner verbally confirms receipt of medical assessment of the surgical success and is the sole sexual partner of the women of childbearing potential trial participant.
- Intrauterine device (IUD).
- Intrauterine hormone-releasing system (IUS).
- True abstinence: Refraining from heterosexual intercourse when this is in line with the preferred and usual lifestyle of the subject. Periodic abstinence for example, using calendar, ovulation, symptothermal, post-ovulation methods and withdrawal are not acceptable.

If required per local practices, male or female condom with or without spermicide OR cap, diaphragm or sponge with spermicide should be used in addition to one of the birth control methods listed above (excluding true abstinence).

If during the course of the study a woman becomes surgically sterile or post-menopausal and complete documentation is available, contraceptive measures as defined above are no longer required.

It is important to note that contraception recommendations described above are specifically intended to prevent pregnancy during exposure to the investigational therapy. Contraception recommendations related to use of concomitant therapies prescribed per standard of care should be based on the local label.

Additional local requirements may apply. Refer to Appendix H for local requirements.



Contraception Recommendation for Males

Based on data from animal studies (including a fertility study) there is no effect of upadacitinib on male reproduction.

No contraception is required for male subjects.

If a pregnancy occurs, a partner authorization form requesting pregnancy outcome information may be requested from the pregnant partner.

Contraception recommendations related to use of concomitant therapies prescribed per standard of care should be based on the local label.

5.3 Efficacy and Safety Assessments/Variables

5.3.1 Efficacy and Safety Measurements Assessed

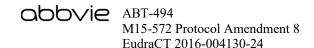
Subjects will be allowed a visit window of \pm 3 days for all study visits (with the exception of the Baseline Visit, as the screening window is a maximum of 35 days) up to the Week 36 visit. Visits after the Week 36 visit will have a visit window of \pm 7 days.

If a subject has an out of window visit, the next visit should occur as originally scheduled based on the first date of study drug administration (Baseline Visit).

Study procedures described are listed in the following section of this protocol and are summarized in tabular format in Appendix C.

5.3.1.1 Study Procedures

The study procedures outlined in Appendix C are discussed in detail in this section, with the exception of in vivo pharmacodynamic biomarkers (discussed in Section 5.3.1.2), exploratory research and validation studies (discussed in Section 5.3.1.2), drug concentration measurements (discussed in Section 5.3.2), the collection of prior and concomitant medication information (discussed in Section 5.2.3), and the collection of AE



information (discussed in Section 6.0). All study data will be recorded in source documents and on the appropriate eCRFs.

Informed Consent

At the Screening visit, the subject, will sign and date a study specific, IEC/IRB approved, informed consent form before any study procedures are performed or any medications are withheld from the subject in order to participate in this study. Separate written consent will be required for each subject in order to participate in the optional exploratory research and validation studies. The separate written consent may be part of the main consent form. Subjects can withdraw informed consent at any time. Details regarding how informed consent will be obtained and documented are provided in Section 9.4.

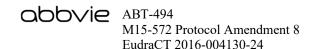
Inclusion/Exclusion Criteria

Subjects will be evaluated to ensure they meet all inclusion criteria and have none of the exclusion criteria at both Screening and Baseline Visits.

Medical/Surgical History

A complete non-PsA medical and surgical history, including history of alcohol use and nicotine use will be taken from each subject during the Screening Visit. Additionally, a list of each subjects' PsA and PsO related medical and surgical history will be recorded at Screening. History of herpes zoster, herpes zoster vaccination, and hepatitis B vaccination status will be recorded as part of the medical history. An updated medical history will be obtained prior to study drug administration at Baseline, to ensure the subject is still eligible for enrollment.

A detailed medical history with respect to TB risk factors will be documented in the study source documentation. This information will include BCG vaccination, cohabitation with individuals who have had TB, and travel to, residence in, or work in TB endemic locations.



Vital Signs, Weight and Height

Vital sign determinations of systolic and diastolic blood pressure, pulse rate (counted for at least 30 seconds after 5 minutes in sitting position), respiratory rate, body weight, and body temperature will be obtained at the designated study visits in Appendix C. Vital signs should be performed before blood draws and prior to receipt of study drug. Height will be measured at the Screening Visit only (with shoes off). All measurements will be recorded in metric units where applicable.

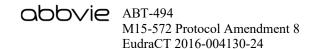
Due to a state of emergency or pandemic situation, subject visits may be conducted via phone or video conference. In these situations, vital signs and weight may be performed by the subject or caregiver as needed.

Physical Exam

A complete physical examination will be performed at the designated study visits as specified in Appendix C. The physical examination at the Baseline Visit will serve as the baseline physical examination for the entire study. Physical examination abnormalities noted by the Investigator at the Baseline Visit prior to the first dose of study drug should be recorded in the subject's medical history. Abnormalities noted after the Baseline Visit and first dose of study drug should be evaluated and documented by the Investigator as to whether or not these are AEs. All findings whether related to an AE or part of each subject's medical history should be captured on the appropriate eCRF page.

A symptom-directed physical examination will be performed when necessary.

Due to a state of emergency or pandemic situation, subject visits may be conducted via phone or video conference. In these situations, if a visit by phone or video conference occurs at one of the designated study visits specified for complete physical examination, the complete physical examination will be performed at the next feasible visit.



12-Lead Electrocardiogram (ECG)

A resting 12-lead ECG will be performed at the Screening and Week 56 Visit. A qualified physician will interpret the clinical significance of any abnormal finding, sign, and date each ECG. ECGs with QT interval corrected for heart rate using Friedericia's correction formula (QTcF) should be reported (or calculated) and documented in the source documents and later transcribed on to the appropriate eCRF if QTcF prolongation is observed. In these cases, the baseline QTcF will need to be entered into the appropriate eCRF for comparison as well. A valid QTcF cannot be calculated in subjects who have a pacemaker or supraventricular or ventricular conduction abnormalities. In addition, any clinically significant findings will be documented in the source documents and later transcribed on to the appropriate eCRF. Each signed original ECG will be kept with subject's source documents onsite.

For subjects with a normal ECG taken within 90 days of Screening, a repeat ECG at Screening will not be required, provided all protocol required documentation is available and nothing has changed in the subject's health status since the time of the test that warrants a repeat test. If there are clinically significant findings, the Investigator must contact the AbbVie TA MD before enrolling the subject.

Subjects can have a repeat ECG at any time during the study as warranted based on the opinion of the Investigator.

X-Rays of the Hands and Feet

Each subject will undergo a maximum of 6 scheduled visits for x-ray examination of bilateral hands and feet (unless unscheduled repeat imaging is needed due to failure to meet the quality requirements) at Screening, Week 24, Week 56, Week 104, Week 152, and Week 260/Premature discontinuation.

All subjects who fail to attain at least 20% improvement in either or both TJC and SJC at Week 12 and Week 16 will have an x-ray examination at Week 16. All subjects will receive x-rays of hands and feet if they discontinue from the study or from study drug at

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Week 12 or later and it has been at least 12 weeks from when x-rays were last obtained during Period 1 or at least 24 weeks during Period 2. In such subjects, x-rays should be obtained as close as possible to the date of study drug discontinuation.

For subjects who re-screen: Provided the conditions outlined in the imaging manual are met, if the subject had x-rays of hands and feet performed within 12 weeks of re-screening these tests will not be required for re-screening.

Radiographs will be sent to the designated central imaging vendor and will be interpreted by an experienced reader selected for the study, who will make the final determination as to whether a subject has at least 1 erosion. The imaging vendor will return an eligibility notification report to the site as outlined in the central imaging documents.

Further details regarding the specific imaging techniques to be used will be provided in an imaging manual from AbbVie or designee.

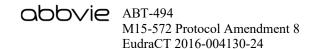
The Investigator or their qualified delegate should read the Screening visit x-rays of the hands and feet to determine if the subject fulfills item 5 of the CASPAR criteria (Appendix G). It is the responsibility of the Investigator to ensure that all delegates are qualified and that all training is documented.

In the event Hand and Feet x-rays may not be performed at the planned visit due to a state of emergency or pandemic situation, perform the Hand and Feet x-rays at the next feasible visit.

Chest X-Ray (CXR)

A CXR (posterior-anterior and lateral views) is required:

• For all subjects at Screening to rule out the presence of TB or other clinically relevant findings. The CXR will not be required if the subject had a previously normal CXR (posterior-anterior and lateral views) within 90 days of Screening, provided all source documentation is available at the site as



outlined below and provided nothing has changed in the subject's medical history to warrant a repeat test.

• Annually for subjects with one or more TB risk factors as identified by the TB risk assessment form (Appendix E), subjects living in areas endemic for TB, and subjects with newly positive PPD and/or QuantiFERON-TB Gold test or equivalents after baseline.

Subjects can have a repeat CXR at any time during the study as warranted based on the opinion of the Investigator.

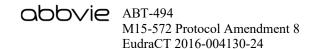
A radiologist or pulmonologist must perform an assessment of the CXR. The Principal Investigator will indicate the clinical significance of any findings and will sign and date the report. In the assessment of the CXR (review of images required), a radiologist, the Principal Investigator or their physician delegate must indicate the presence or absence of (1) calcified granulomas, (2) pleural scarring/thickening, and (3) signs of active TB. If the CXR demonstrates changes suggestive of previous TB (e.g., calcified nodule, fibrotic scar, apical or basilar pleural thickening) or other findings that are clinically significant, the Principal Investigator should contact the AbbVie TA MD before enrolling the subject.

In the event CXR may not be performed at the planned visit due to a state of emergency or pandemic situation, perform the CXR at the next feasible visit.

Pregnancy Test

A serum pregnancy test will be performed for all women of childbearing potential at the Screening Visit. The serum pregnancy test will be sent to and performed by the central laboratory. If the serum pregnancy test is positive the subject is considered a screen failure. If the serum pregnancy test is borderline, it should be repeated ≥ 3 days later to determine eligibility. If the repeat serum pregnancy test is:

- Positive, the subject is considered a screen failure;
- Negative, the subject can be enrolled into the study;

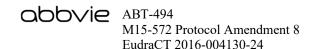


• Still borderline ≥ 3 days later, this will be considered documentation of continued lack of a positive result and the subject can be enrolled into the study in the absence of clinical suspicion of pregnancy and other pathological causes of borderline results. Where mandated by local requirements a negative serum pregnancy test will be required.

In Period 1, a urine pregnancy test will be performed for all women of childbearing potential at the Baseline Visit prior to the first dose of study drug and at all subsequent visits. More frequent pregnancy tests will be performed throughout the study if required per local/country requirements.

- If the baseline urine pregnancy test performed at the site is negative, then dosing with study drug may begin.
- If the baseline urine pregnancy test performed at the site is positive, dosing with study drug must be withheld and a serum pregnancy test is required. The serum pregnancy test will be sent to and performed by the central laboratory. If the serum pregnancy test is negative, study drug may be started. If the serum pregnancy test is positive, study drug must be withheld and the subject must be discontinued from study drug treatment. In the event a serum pregnancy test comes back borderline, a repeat test is required (≥ 3 days later) to document continued lack of a positive result.
- If a urine pregnancy test post-baseline is positive, study drug needs to be temporarily discontinued and a serum pregnancy test is required. The serum pregnancy test will be sent to and performed by the central laboratory. If the serum pregnancy test is negative, study drug may be restarted. If the serum pregnancy test is positive, study drug must be permanently discontinued. In the event a pregnancy test comes back borderline, a repeat test is required (≥ 3 days later) to document continued lack of a positive result.

In Period 2, for women of childbearing potential, a urine pregnancy test will be performed at all visits and monthly at home between scheduled study visits. The results of the monthly at home tests will be communicated to the site. If a urine pregnancy test is



positive, the subject must stop dosing, return to the study site and have blood drawn for a serum pregnancy test that will be analyzed at the central laboratory.

At each visit, the study staff should review the pregnancy avoidance recommendations with each subject of childbearing potential and document this discussion in the subject's source records.

If during the course of the study a woman becomes surgically sterile or post-menopausal and complete documentation as described in Section 5.2.4 is available, pregnancy testing is no longer required.

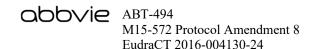
A pregnant or breastfeeding female will not be eligible for participation in this study or be allowed to continue study drug.

TB Testing/TB Prophylaxis

The TB screening tests provide diagnostic test results to be interpreted in the context of the subject's epidemiology, history, exam findings, etc., and it is the responsibility of the Investigator to determine if a subject has previous, active, or latent TB.

At screening, all subjects will be assessed for evidence of increased risk for TB by a risk assessment form (Appendix E) and tested for TB infection by QuantiFERON-TB Gold test. The PPD Skin Test should be utilized only when a QuantiFERON-TB Gold Test is not possible for any reason (unless both tests are required per local guidelines). The site staff will complete the TB risk assessment form and enter the data into an appropriate eCRF. The TB risk assessment form will be completed annually for all subjects, regardless of TB test results. One or more "yes" response on the TB risk assessment form indicates increased risk of TB. At annual evaluations, questions on the TB risk assessment form should be answered considering the previous year when the timeframe is not indicated in the question.

If a QuantiFERON-TB Gold Test cannot be performed by the Central Lab at Screening and a subject had a negative PPD within 90 days prior to Screening and source

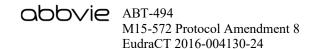


documentation is available, TB testing by PPD Skin Test does not need to be repeated, provided nothing has changed in the subject's medical history to warrant a repeat test. These cases may be discussed with the AbbVie Therapeutic Area Medical Director. The results of the TB test(s) will be retained at the site as the original source documentation.

In cases where the annual QuantiFERON-TB Gold test by the central laboratory is positive and the investigator considers the subject at low risk for TB (i.e., no risk factors identified on the TB risk questionnaire) and has no clinical suspicion of TB, the investigator may perform a local QuantiFERON-TB Gold test (or repeat testing through the central laboratory if not locally available) to confirm the positive test result. If repeat testing result is negative, the investigator may consider the test to be negative based on his/her clinical judgment; if the repeat testing result is positive, the test is considered positive.

For subjects with a negative TB test result at Screening or most recent evaluation, an annual TB re-test will be performed. If an annual TB test is newly positive (seroconversion), a chest x-ray (CXR) needs to be performed as soon as possible to aid in distinguishing active versus latent TB. For subjects with seroconversion on an annual TB test, in the absence of a positive response to any question on the TB risk assessment questionnaire, if a CXR cannot be done due to restrictions because of a state of emergency or pandemic situation, the investigator should contact the AbbVie TA MD to determine if the subject may continue on study drug. CXR should be performed as soon as restrictions are lifted at the study site or local hospital/facility. Expert consultation can be considered per Investigator's discretion. Any positive TB screen after the patient has started the study, should be reported as an AE of latent TB or active TB (as applicable).

Subjects with documentation of a prior positive result of QuantiFERON-TB Gold Test (or equivalent) or PPD are not required to repeat either test at Screening or during the study and should be considered positive.



TB test:

- For regions that require both PPD and QuantiFERON-TB Gold testing, both will be performed. If either PPD or QuantiFERON-TB Gold is positive, the TB test is considered positive.
- If a site has the capacity to perform both PPD and QuantiFERON-TB Gold tests, and local guidelines require only one test to be performed, then the QuantiFERON-TB Gold is the preferred test. At a site with capacity to perform both tests, if a PPD is placed as the only form of TB test at screening, then the TB test to be used for the remainder of the study for that subject is the PPD. Similarly, if a subject enters the study with a QuantiFERON-TB Gold test alone or other IGRA (negative result), then the subject should have their annual TB test performed with QuantiFERON-TB Gold test.
- If the QuantiFERON-TB Gold Test is NOT possible (or if both the QuantiFERON-TB Gold Test and the PPD Skin Test are required per local guidelines): the PPD Skin Test (also known as a TB Skin Test) will be performed according to standard clinical practice. The TB Skin Test should be read by a licensed healthcare professional between 48 and 72 hours after administration. A subject who does not return within 72 hours will need to be rescheduled for another skin test. The reaction will be measured in millimeters (mm) of induration and induration ≥ 5 mm is considered a positive reaction. The absence of induration will be recorded as "0 mm" not "negative." Subjects who have had an ulcerating reaction to the TB Skin Test in the past should not be re-exposed and the TB Skin Test should be considered positive.
- If the QuantiFERON-TB Gold test is indeterminate, then the investigator should perform a local QuantiFERON-TB Gold test (or through the central laboratory, if not locally available) to rule out a positive test result. If testing remains indeterminate or is positive, then the subject is considered to be positive for the purpose of this study. If the testing result is negative, then the patient is considered to be negative.
- An equivalent Interferon Gamma Release Assay (IGRA) (such as T-SPOT TB test) may be substituted for the QuantiFERON-TB Gold.

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Subjects with a negative TB test and chest x-ray (CXR) not suggestive of active TB or prior TB exposure may be enrolled.

Subjects with a positive TB test must be assessed for evidence of active TB versus latent TB, including signs and symptoms and CXR. Subjects with no signs or symptoms and a CXR not suggestive of active TB may be enrolled after initiation of TB prophylaxis (see below). Subjects with evidence of active TB must not be enrolled.

TB prophylaxis:

At screening, if the subject has evidence of latent TB infection (positive TB test and the subject has a CXR not suggestive of active TB), prophylactic treatment must be initiated at least 2 weeks prior to administration of study drug (or per local guidelines, whichever is longer); at least 6 months of prophylaxis needs to be completed; however, the full course of prophylaxis does not need to be completed prior to the first dose of study drug. If the Investigator deems that it is necessary, consultation with a TB expert could be considered.

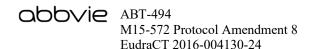
Of note: Rifampin (Rifampicin) or Rifapentine are not allowed for TB prophylaxis.

Subjects with a prior history of latent TB that have documented completion of a full course of anti-TB therapy will be allowed to enter the study provided nothing has changed in the subject's medical history to warrant repeat treatment.

For subjects with completion of a full course of anti-TB therapy, but insufficient documentation, the investigator should consult with the AbbVie TA MD.

Newly initiated prophylactic treatment should be captured in the eCRF and in the source documents. Prior therapy should be captured in the eCRF.

During the study, subjects with new evidence of latent TB must initiate prophylactic treatment immediately per local guidelines and complete at least 6 months of prophylaxis. Study drug(s) should not be withheld. Two to 4 weeks later the subject should be reevaluated (unscheduled visit) for signs and symptoms of toxicity to TB prophylaxis.



If the subject is experiencing signs or symptoms suspicious for TB or something has changed in the subject's medical history to warrant a repeat test before the next scheduled annual TB re-test, the case (including the TB test results) must be discussed with the AbbVie Therapeutic Area Medical Director.

Clinical Laboratory Tests

Blood and urine samples will be obtained for clinical laboratory tests listed in Table 2. Samples will be obtained at the designated study visits in Appendix C.

Unscheduled clinical labs may be obtained at any time during the study if deemed appropriate per Investigator's discretion. A certified central laboratory will be utilized to process and provide results for the clinical laboratory tests. All abnormal laboratory test results that are considered clinically significant by the Investigator will be followed to a satisfactory resolution.

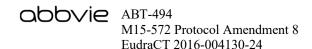
The central laboratory chosen for this study will provide instructions regarding the collection, processing, and shipping of these samples.

Blood draws should be performed after all clinical assessments and questionnaires and vital sign determinations have been completed but before any study drug administration during a visit.

Due to a state of emergency or pandemic situation, local laboratories may be used to collect laboratory samples per instructions from AbbVie, as local regulations allow.

For clinic visits where samples for serum chemistry tests are collected, subjects should be fasting (a minimum 8-hour fast) whenever possible. If a subject is not able to fast when necessary, due to unforeseen circumstances, the non-fasting status will be recorded in study source documentation.

Urine samples will be obtained for urinalysis testing at the specified time points as noted in Appendix C. The central laboratory will be responsible for performing a macroscopic



urinalysis (urine dipstick) on the collected urine specimens. Specified abnormal macroscopic urinalyses defined as leukocytes, nitrite, protein, ketones or blood greater than negative, or glucose greater than normal will be followed-up with a microscopic analysis at the central laboratory.

For any laboratory test value outside the reference range that the Investigator considers to be clinically significant, the Investigator should apply the standard of care for medical evaluation and treatment per local guidelines:

- The Investigator will repeat the test to verify the out-of-range value.
- The Investigator will follow the out-of-range value to a satisfactory clinical resolution.

A laboratory test value that requires a subject to be discontinued from study drug treatment or requires a subject to receive treatment will be recorded as an AE. The central laboratory chosen for this study will provide instructions regarding the collection, processing and shipping of these samples. The baseline laboratory test results for clinical assessment for a particular test will be defined as the last measurement prior to the initial dose of study drug.

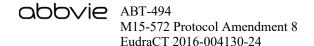
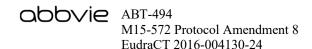


Table 2. Clinical Laboratory Tests

Hematology	Clinical Chemistry ^a	Urinalysis ^b	Other Laboratory Tests
(Central Lab)	(Central Lab)	(Central Lab)	
Hematocrit Hemoglobin RBC count WBC count Neutrophils Bands Lymphocytes Monocytes Basophils Eosinophils Platelet count	Blood Urea Nitrogen (BUN) Creatinine Total bilirubin INR (reflex only) ^c Albumin AST ALT Alkaline phosphatase CPK Sodium Potassium Bicarbonate/CO ₂ Chloride Calcium Inorganic phosphate Uric acid Total protein Glucose Cholesterol LDL-C HDL-C Triglycerides	Specific gravity Ketones pH Protein Glucose Blood Urobilinogen Bilirubin Leukocytes Nitrites Microscopic examination, if needed	Central Lab Tests: Serum Pregnancy (bHCG) test ^d ANA/reflex anti-dsDNA ^e HBsAg ^e HBsAb ^e HBv DNA PCR reflex only ^e HCV Ab ^e HCV RNA reflex only ^e Rheumatoid Factor ^e Anti-CCP antibodies ^e QuantiFERON-TB Gold ^f hs-CRP ^g FSHi ^h beta-D-glucan ⁱ HIV Ab ^j Local Lab Tests: Urine pregnancy test ^k ESR Varicella antibody, if indicated

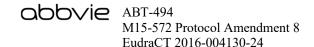
- a. Minimum 8-hour fast. If a subject is not able to fast when necessary, due to unforeseen circumstances, the non-fasting status will be recorded in study source documentation.
- b. A urine dipstick macroscopic urinalysis will be completed by the central laboratory at all required visits. A microscopic analysis will be performed in the event the dipstick results show leukocytes, nitrite, protein, ketones, or blood greater than negative or glucose greater than normal.
- c. INR will only be measured if ALT and/or AST $> 3 \times$ ULN. A separate blood sample for INR testing will be needed to measure INR at the time of repeat testing for ALT or AST.
- d. A serum pregnancy test will be performed for all female subjects of childbearing potential at the Screening Visit and if any post-baseline urine pregnancy is positive.
- e. At Screening only. For subjects in China and Japan, or where mandated by local requirements: for subjects with HBs Ab+ and/or HBc Ab+ and negative HBV DNA at Screening, the HBV-DNA PCR test should be performed again every 12 weeks. Retesting every 12 weeks is not necessary with subjects that have a history of HBV vaccine and is HBs Ab+ and HBc Ab-.
- f. All subjects will be assessed for evidence of increased risk for TB by a risk assessment form (Appendix E) and tested for TB infection by QuantiFERON-TB Gold test analyzed by the central laboratory. The PPD Skin Test should be utilized only when an IGRA is not possible for any reason (unless both tests are required per local guidelines).



- g. Starting from Baseline (Day 1) the hs-CRP results will not be reported to the Sponsor, Investigator, study site personnel, or the subject. For safety evaluations of signs and symptoms of infection and management of adverse events, the investigator may locally test procalcitonin. Results of tests such as hs-CRP, and procalcitonin may be blunted in subjects taking a JAK inhibitor, thereby limiting the clinical utility of these tests in the setting of a possible safety assessment or adverse event management. Any local hs-CRP, CRP, or serial procalcitonin tests reported to the investigator until a subject is known to receive upadacitinib or until treatment allocation is unblinded will be recorded as protocol deviations.
- h. At screening for female subjects < 55 years of age AND has had no menses for ≥ 12 months AND has no history of permanent surgical sterilization.
- i. Japan only. If the result from the central lab is indeterminate or otherwise not interpretable, a local lab may be used
- j. Anti-HIV Ab will be performed at Screening, unless prohibited by local regulations. The Investigator must discuss any local reporting requirements to local health agencies with the subject. The site will report confirmed positive results to their health agency per local regulations, if necessary. If a subject has a confirmed positive result, the Investigator must discuss with the subject the potential implications to the subject's health and subject should receive or be referred for clinical care promptly. A subject will not be eligible for study participation if test results indicate a positive HIV infection. AbbVie will not receive results from the testing and will not be made aware of any positive result.
- k. A urine pregnancy test will be performed for all female subjects of childbearing potential at the Baseline Visit prior to the first dose of study drug and all subsequent visits. If the baseline urine pregnancy test performed at the site is negative, then dosing with study drug may begin. If the baseline urine pregnancy test performed at the site is positive, dosing with study drug must be withheld and a serum pregnancy test is required. The serum pregnancy test will be sent to and performed by the central laboratory. If the serum pregnancy test is positive, study drug must be withheld and the subject must be discontinued from study drug treatment. In the event a serum pregnancy test comes back borderline, a repeat test is required ≥ 3 days later to document continued lack of a positive result. If a urine pregnancy test post-baseline is positive, study drug must be temporarily discontinued and a serum pregnancy test is required. The serum pregnancy test will be sent to and performed by the central laboratory. If the serum pregnancy test is positive, study drug must be permanently discontinued.

HIV Test

Subjects with HIV infection are excluded from study participation. HIV antibody (Ab) testing will be performed at Screening. The Investigator must discuss any local reporting requirements to local health agencies with the subject. The site will report confirmed positive results to their health agency per local regulations, if necessary. If a subject has a confirmed positive HIV Ab result, the Investigator must discuss with the subject the potential implications to the subject's health and subject should receive or be referred for clinical care promptly. A subject will not be eligible for study participation if test results indicate a positive HIV infection (HIV Ab positive).



Hepatitis Screening

All subjects will be tested for the presence of the Hepatitis B Virus (HBV) at Screening.

Hepatitis B:

Subjects will be tested for the presence of HBV at screening using the following tests:

- HBs Ag (Hepatitis B surface antigen)
- HBc Ab/anti-HBc (Hepatitis B core antibody)
- HBs Ab/anti-HBs (Hepatitis B surface antibody)

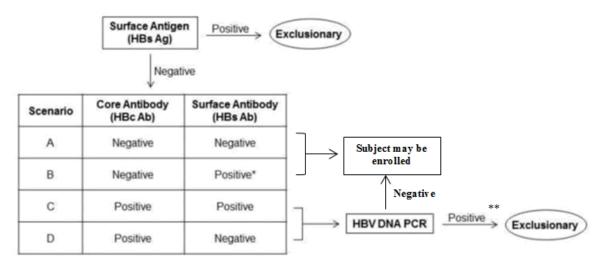
A positive result for HBs Ag will be exclusionary.

A negative result for HBs Ag will be tested (automatic reflex testing) for core antibodies (HBc Ab) and surface antibodies (HBs Ab).

- A negative test result for HBc Ab does not require HBV DNA PCR qualitative testing and the subject may be enrolled (Figure 2, Scenarios A and B). For a subject who has had a HBV vaccination (should document in the medical history), the HBV DNA PCR qualitative testing is not required and the subject may be enrolled. For subjects without a history of HBV vaccination (and where mandated by local requirements) a positive result for HBs Ab requires HBV DNA PCR testing (automatic reflex testing). (Figure 2, Scenario B).*
- A positive test result for HBc Ab requires HBV DNA PCR testing (automatic reflex testing) (Figure 2, Scenarios C and D).
 - A positive result for HBV DNA or a result that exceeds detection sensitivity will be considered positive and will be exclusionary. A subject with a negative result for HBV DNA may be enrolled.
 - For China, Japan and South Korea, or where mandated by local requirements: subjects with HBs Ab+ and/or HBc Ab+ and negative HBV DNA at Screening, should have HBV-DNA PCR testing performed approximately every 12 weeks. Retesting every 12 weeks is not necessary

when a subject has a history of HBV vaccine and are HBs Ab+ and HBc Ab-. If necessary, HBV-DNA PCR may be tested at unscheduled visits.

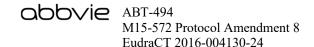
Figure 2. Interpretation and Management of HBV Serologic Test Results



- * For subjects who have had a HBV vaccination (should be documented in the medical history), a positive test result for HBs Ab is expected and these subjects may be enrolled. For subjects without a history of HBV vaccination (and where mandated by local requirements. a positive result for HBs Ab requires HBV DNA PCR testing.
- ** For China, Japan and South Korea, or where mandated by local requirements; subjects with HBs Ab+ and/or HBc Ab+ and negative HBV DNA at screening should have HBV DNA PCR testing performed approximately every 12 weeks. HBV DNA PCR testing every 12 weeks is not necessary when the subject has a history of HBV vaccine and is HBs Ab+ and HBc Ab-. If necessary, HBV DNA PCR may be tested at unscheduled visits.

Hepatitis C:

All subjects will be tested for the presence of Hepatitis C Virus antibodies (HCV Ab) at Screening. Samples positive for HCV Ab require PCR qualitative testing for HCV RNA. Any HCV RNA PCR result that meets or exceeds detection sensitivity will be exclusionary. Subjects with a history of treated HCV infection may be allowed to enroll if documentation of effective treatment is available and no evidence of HCV is detected by HCV RNA PCR.



Randomization and Drug Assignment

All Screening laboratory results must be reviewed, signed and dated by the Principal Investigator or Sub-investigator prior to the Baseline Visit. Subjects will not be enrolled into the study if laboratory or other Screening result abnormalities are deemed clinically significant by the Principal Investigator or Sub-investigator.

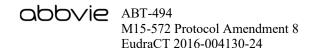
Subjects will be eligible for randomization if they continue to meet all of the selection criteria (Section 5.2) at the Baseline Visit and are willing to continue in the study. Subjects will be randomized in a 2:2:2:1:1 ratio using an Interactive Response Technology (IRT) to receive double-blind study drug in one of the following treatment groups:

- Group 1: Upadacitinib 15 mg QD (N = 410)
- Group 2: Upadacitinib 30 mg QD (N = 410)
- Group 3: ADA (40 mg every other week [eow]) (N = 410)
- Group 4: Placebo followed by upadacitinib 15 mg QD (N = 205)
- Group 5: Placebo followed by upadacitinib 30 mg QD (N = 205)

No more than approximately 15% subjects will be enrolled with concomitant use of HCQ, sulfasalazine, bucillamine, or iguratimod.

Randomization will be stratified by extent of psoriasis (\geq 3% body surface area [BSA] or < 3% BSA), current use of at least 1 DMARD, presence of dactylitis, and presence of enthesitis, except for subjects from China and Japan, where randomization for each country will be stratified by extent of psoriasis (\geq 3% body surface area [BSA] or < 3% BSA) only. See Section 5.5.3 for details.

Upon approval of protocol amendment 7, subjects receiving upadacitinib 30 mg QD will be switched to upadacitinib 15 mg QD at their next scheduled study visit.



Study Drug Dispensing, Dosing, and Compliance

Study drug will be dispensed to subjects beginning at Baseline (Day 1) and as specified in Appendix C. The first dose of study drug will be administered after all other Baseline (Day 1) procedures are completed. Subjects will maintain a diary through Week 151 (except for subjects in China where the paper subject diary is reinstated) for all study drug administered (i.e., at home) to capture dosing dates and times. At visits specified in Appendix C, the site personnel will review and retain a copy of the diary, returned study drug kits, and empty study drug packaging to verify compliance. Diaries will not be dispensed beyond Week 140 (except for subjects in China where the paper subject diary is reinstated); dosing compliance will be captured during the drug accountability process for each subject in the IRT system.

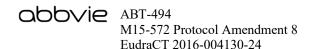
Due to a state of emergency or pandemic situation, study drug may be shipped directly to subjects per instructions from AbbVie, as local regulations allow.

All relevant dosing information will be entered into the eCRF at each visit. ADA/placebo for ADA study drug can be self-administered, or administered to subjects by study site medical staff or designee (subject, friend, family member, or health care professional) during the visit at Baseline. Subjects or a designated family member or friend will be trained to administer study drug at this visit.

Refer to Section 5.5 for additional information.

Subject Diary

During the Baseline Visit, subjects will be dispensed a paper subject diary and will be trained on how to complete the diary by site staff. Subjects will be asked to notate their concomitant medication use, AEs, and document date and times of doses of study drug taken between study visits. The subject diary will be reviewed by site personnel with the subject at each visit and a review and description of the subject diary notations will be documented in the subject's source documentation and recorded on the applicable eCRF. Replacement diaries will be dispensed as needed should a subject misplace a subject



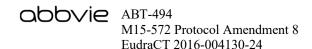
diary. The completed diaries will be collected at the subject's Week 152 visit and maintained at the site as source documentation. Diaries will not be dispensed beyond Week 140; concomitant medication use and AEs will be documented in the subject's source documentation during study visits and recorded on the applicable eCRF. For sites in China, paper subject diary will be reinstated for subjects to record their concomitant medication use, AEs and document date and time for doses of study drug taken between study visits through Week 259 and will be collected at Week 260 visit. Paper subject diary will be documented as subject's source document and will be recorded on the applicable eCRF.

Patient Questionnaires

Subjects will complete the following questionnaires as specified in Appendix C. A validated translation will be provided in their local language, as applicable:

- Bath Ankylosing Spondylitis Disease Activity Index (BASDAI)
- EuroQol-5D-5L (EQ-5D-5L) Health Questionnaire
- Functional Assessment of Chronic Illness Therapy-Fatigue (FACIT-Fatigue)
- Disability Index of the Health Assessment Questionnaire (HAQ-DI)
- Patient's Assessment of Pain NRS
- Patient's Global Assessment (PtGA) of Disease Activity Numeric Rating Scale
- Self-Assessment of Psoriasis Symptoms (SAPS)
- SF-36 Health Questionnaire
- Work Productivity and Activity Impairment (WPAI)

All patient-reported outcomes (PROs) are collected electronically. The subject should complete the questionnaires before site personnel perform any clinical assessments and before any interaction with site personnel has occurred to avoid biasing the subject's response.



Due to a state of emergency or pandemic situation, PROs may be administered on paper or over the telephone directly to subjects by site personnel within the study visit window per instructions from AbbVie, as local regulations allow.

Investigator Assessments

The investigator assessments will be recorded on paper worksheets and entered into the eCRF and conducted at the study visits specified in Appendix C. For the following assessment, if possible, the investigator assessments should be performed by an independent and blinded assessor who should not perform any other study related procedures.

- Psoriasis Area Severity Index (PASI)
- Body Surface Area (BSA)
- Static Investigator Global Assessment (sIGA)
- TJC and SJC Assessment
- Dactylitis
- Enthesitis

In order to minimize variability, the same assessor should evaluate the subject at each visit for the duration of the trial. A back-up assessor should be identified. The assessor should be a qualified medical professional (e.g., nurse, physician's assistant, or physician) or be pre-approved by the TA MD as an assessor after review of assessor training and experience. Any assessor must be trained and competent in performing such assessments. It is the responsibility of the Investigator to ensure that all assessors are qualified and trained to perform assessments and that all training is documented. If the assessor is not available, the pre-identified back-up assessor should perform such assessments.



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<u>Physician's Global Assessment of Disease Activity Numerical Rating Scale (PGA-Disease Activity)</u>

The PGA-Disease Activity will be conducted to assess the subject's current disease activity, taking into consideration both arthritis and psoriasis activity, independent of the subject's self-assessment, using a 0-10 NRS, anchored at either end by opposite adjectives.

The assessor is not required to be independent but should be a qualified medical professional, preferably a physician.

Health Resource Utilization (HRU) Questionnaire

Sites will complete a HRU questionnaire at the study visits specified in Appendix C. The questionnaire will be interview administered by the site. The assessor is not required to be independent and may be a qualified medical professional or a study coordinator. The answers will be completed on the source worksheet provided by the sponsor and entered in the eCRF.

Psoriasis Assessments

Psoriasis Area Severity Index (PASI) 48

The PASI is a measure of psoriasis severity. Four anatomic sites – head, upper extremities, trunk, and lower extremities – are assessed for erythema, induration and desquamation using a 5-point scale. Based on the extent of lesions in a given anatomic site, the area affected is assigned a numerical value.

Since the head, upper extremities, trunk and lower extremities correspond to approximately 10, 20, 30 and 40% of body surface area, respectively; the PASI score is calculated using the formula:

$$\begin{split} PASI &= 0.1(E_h + I_h + D_h)A_h + 0.2(E_u + I_u + D_u)A_u + 0.3(E_t + I_t + D_t)A_t + 0.4(E_l + I_l + D_l)A_l \end{split}$$

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Where *E*, *I*, *D*, and A denote erythema, induration, desquamation, and area, respectively, and *h*, *u*, *t*, and *l* denote head, upper extremities, trunk, and lower extremities, respectively. PASI scores range from 0.0 to 72.0 with the highest score representing complete erythroderma of the severest possible degree.

Typically scores of 3 or less represent mild disease, scores over 3 and up and including 15 represent moderate disease and scores over 15 are considered to be associated with severe disease.

The assessor should be an independent qualified medical professional.

Body Surface Area (BSA) – Psoriasis

The subject's right or left hand should be selected as the measuring device. For purposes of clinical estimation, the total surface of the palm plus five digits will be assumed to be approximately equivalent to 1%. Measurement of the total area of involvement is aided by imagining if scattered plaques were moved so that they were next to each other and then estimating the total area involved.

The assessor should be an independent qualified medical professional.

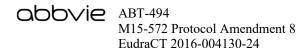
Static Investigator Global Assessment (sIGA)

The sIGA is a 5-point score ranging from 0 to 4, based on the investigator's assessment of the average elevation, erythema, and scaling of all psoriatic lesions.

The assessment is considered "static" which refers to the patient's disease state at the time of the assessments, without comparison to any of the patient's previous disease states, whether at Baseline or at a previous visit.

A lower score indicates less body coverage, with 0 being clear and 1 being almost clear.

The assessor should be an independent qualified medical professional.



TJC and SJC Assessment

TJC Assessment

An assessment of 68 joints will be done for tenderness by pressure manipulation on physical examination. Joint pain/tenderness will be classified as: present, absent, replaced or no assessment. Joints injected with corticosteroid will be considered non-evaluable for 90 days from the time of the injection.

The assessor should be an independent qualified medical professional.

SJC Assessment

An assessment of 66 joints will be done by directed physical examination. The joints to be examined for swelling are the same as those examined for tenderness, except the hip joints are excluded. Joint swelling will be classified as present, absent, replaced or no assessment. Joints injected with corticosteroid will be considered non-evaluable for 90 days from the time of the injection.

The assessor should be an independent qualified medical professional.

Dactylitis

Leeds Dactylitis Index (LDI 49)

This evaluation will be conducted to assess the presence or absence of dactylitis in all 20 of the subject's digits. The assessment should begin with visual inspection of the hands and feet. For each pair of digits in which one or both digits appear dactylitic, the circumference of the affected digits (both right and left side) will be assessed using a dactylometer. Additionally, the affected digit pairs will be assessed for tenderness by squeezing the digital shaft mid-way between the metacarpophalangeal and proximal interphalangeal joints and will be recorded as tenderness, yes or no. Tenderness should not be assessed by squeezing the joint lines. Digits injected with corticosteroid will be considered non-evaluable for 90 days from the time of the injection. If a digit is missing

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and its contralateral digit is dactylitic, "digit absent" will be recorded for the missing digit. For any digit without an available dacylometer measurement the standard reference value will be utilized in calculation of the LDI. The standard reference values will not be entered into the eCRF. A dactylometer will be provided to sites for use.

The assessor should be an independent qualified medical professional.

Enthesitis

Leeds Enthesitis Index (LEI)

This evaluation will be conducted to assess the presence or absence of enthesitis at 3 bilateral sites. Tenderness on examination is recorded as either present, absent, or not assessed for each of the 6 sites, for an overall score range of 0 - 6. Enthesitis sites injected with corticosteroid will be considered non-evaluable for 90 days from the time of the injection.

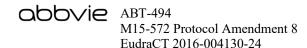
The assessor should be an independent qualified medical professional.

Spondyloarthritis Research Consortium of Canada (SPARCC) Enthesitis Index

This evaluation will be conducted to assess the presence or absence of enthesitis at 9 bilateral sites. Tenderness on examination is recorded as either present, absent, or not assessed for each of the 18 sites. For scoring purposes, the inferior patella and tibial tuberosity are considered to be one site due to their anatomical proximity. The overall score range is 0 - 16. Enthesitis sites injected with corticosteroid will be considered non-evaluable for 90 days from the time of the injection.

The Lateral epicondyle and Achilles tendon insertion will only need to be assessed once since the 2 bilateral sites overlap between the LEI and SPARCC Enthesitis Index.

The assessor should be an independent qualified medical professional.



Psoriatic Spondylitis

This evaluation will be conducted at Baseline only as a single question asking the investigator to take into consideration all that is known about the subject to assess whether or not the subject has psoriatic spondylitis. Responses will be recorded as yes or no. This evaluation should be assessed by the rheumatologist investigator.

5.3.1.2 Optional Samples for Exploratory Research and Validation Studies

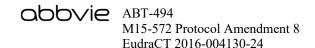
Subjects will have the option to provide samples for exploratory research and validation studies. Subjects may still participate in the main study even if they decide not to participate in the optional collection of samples for exploratory research/validation studies.

Exploratory research can help to improve our understanding of how individuals respond to drugs and our ability to predict which subjects would benefit from receiving specific therapies. In addition, exploratory research may help to improve our understanding of how to diagnose and assess/monitor PsA by assessing associations between disease characteristics, outcomes data and biomarkers of interests.

Validation studies, including those related to the development of potential in-vitro diagnostic tests may be carried out retrospectively in order to assess associations between events of interest (i.e., efficacy and/or safety events) and candidate biomarkers.

For Japan only: The research on DNA and RNA exploratory research samples will be restricted to the subject's response to the treatment in terms of pharmacokinetics, efficacy, tolerability, and safety.

AbbVie (or people or companies working with AbbVie) will store the exploratory research/validation studies samples in a secure storage space with adequate measures to protect confidentiality. The samples will be retained while research on upadacitinib (or



drugs of this class) or PsA and related conditions continues, but for no longer than 20 years after study completion.

All subjects are preferred to have been fasting for a minimum of 8 hours prior to sample collection. If a subject is not able to fast when necessary, due to unforeseen circumstances, the non-fasting status will be recorded in study source documentation. The following samples will be collected according to Appendix D for each subject who consents to provide samples for exploratory research/validation studies:

- DNA samples for pharmacogenetic or epigenetic analyses;
- RNA samples for transcriptomic and/or epigenetic analyses;
- Serum and plasma samples for systemic analyses, including but not limited to proteomic and metabolomics;
- Urine samples, including but not limited to targeted protein and metabolomic analyses.

The procedures for obtaining and documenting informed consent are discussed in Section 9.4.

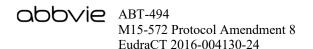
Samples will be shipped to AbbVie or a designated laboratory for RNA/DNA extraction, if applicable, and/or analyses or long-term storage. Instructions for the preparation and shipment of the samples will be provided in the laboratory manual.

5.3.2 Drug Concentration Measurements

Blood Samples for upadacitinib PK Assay (Period 1 Only)

Blood samples (plasma) for assay of upadacitinib and possibly other medications will be collected as follows (Appendix C):

- Weeks 2 and 4 prior to oral study drug dosing;
- Weeks 8 and beyond at any time during the visit. For subjects who prematurely discontinue from study drug treatment prior to Week 56, at any time during the PD visit.



On Week 2 and Week 4 visit days, if possible, subjects should take the oral study drug dose at the clinic after collecting the PK blood sample, except if the subjects regularly take the study drug dose at night. Those subjects who regularly take the oral study drug dose at night should continue to take study drug according to their normal schedule. For all other visits, subjects can take the study drug dose on visit days at their regular schedule and not necessarily at the clinic.

For all PK samples, the date and accurate time of the PK sample collection will be recorded on the lab requisition form. The date and accurate time of the last two study drug doses will be recorded on the eCRF to the nearest minute.

Refer to the study specific laboratory manual for detailed instructions on sample collection, processing, and shipment.

5.3.2.1 Measurement Methods

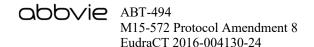
Plasma concentrations of upadacitinib will be determined by the Drug Analysis Department at AbbVie using a validated liquid chromatography/mass spectrometry method.

5.3.3 Efficacy Variables

5.3.3.1 Primary Variables

The primary efficacy endpoint is the proportion of subjects achieving ACR20 response at Week 12.

ACR20 response rate will be determined based on 20% or greater improvement in TJC and SJC and ≥ 3 of the 5 measures of Patient's Assessment of Pain NRS, PtGA-Disease Activity NRS, PGA-Disease Activity NRS, HAQ-DI, or hs-CRP.

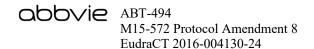


5.3.3.2 Key Secondary Variables

The key multiplicity adjusted secondary efficacy endpoints (each dose of upadacitinib versus placebo unless noted) are:

- 1. Change from baseline in HAQ-DI at Week 12;
- 2. Proportion of subjects achieving a static Investigator Global Assessment (sIGA) of Psoriasis of 0 or 1 and at least a 2-point improvement from baseline at Week 16;
- 3. Psoriasis Area Severity Index (PASI) 75 response at Week 16 (for subjects with ≥ 3% BSA psoriasis at baseline);
- 4. Change from baseline in modified PsA Sharp/van der Heijde Score (SHS) at Week 24;
- 5. Proportion of subjects achieving Minimal Disease Activity (MDA) at Week 24;
- 6. Proportion of subjects with resolution of Enthesitis (LEI = 0) at Week 24;
- 7. ACR 20 response rate at Week 12 (non-inferiority of upadacitinib vs adalimumab);
- 8. Change from baseline in SF-36 PCS at Week 12;
- 9. Change from baseline in FACIT-Fatigue Questionnaire at Week 12;
- 10. ACR 20 response rate at Week 12 (superiority of upadacitinib vs. adalimumab);
- 11. Proportion of subjects with resolution of dactylitis (LDI = 0) at Week 24;
- 12. Change from baseline in Patient's Assessment of Pain NRS at Week 12 (superiority of upadacitinib vs. adalimumab);
- 13. Change from baseline in HAQ-DI at Week 12 (superiority of upadacitinib vs. adalimumab); and
- 14. Change from baseline in Self-Assessment of Psoriasis Symptoms (SAPS)

 Questionnaire at Week 16.



Additional key secondary efficacy endpoints (each dose of upadacitinib versus placebo) are:

- ACR50/70 response at Week 12;
- ACR20 response at Week 2;

ACR20/50/70 response rates will be determined based on 20%/50%/70% or greater improvement in TJC and SJC and \geq 3 of the 5 measures of Patient's Assessment of Pain NRS, PtGA-Disease Activity NRS, PGA-Disease Activity NRS, HAQ-DI, or hs-CRP.

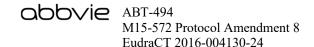
The proportion of subjects achieving MDA 14 will be determined based on subjects fulfilling 5 of 7 outcome measures: TJC \leq 1; SJC \leq 1; PASI \leq 1 or BSA-Ps \leq 3%; Patient's Assessment of Pain NRS \leq 1.5; PtGA-Disease Activity NRS \leq 2.0; HAQ-DI score \leq 0.5; and tender entheseal points \leq 1.

5.3.3.3 Additional Variables

The following outcome measures will be assessed in subjects treated with upadacitinib as compared to placebo and adalimumab when obtained at the scheduled time points in Appendix C other than those specified for the primary and key secondary variables:

- Proportion of subjects with no radiographic progression (defined as change from baseline in SHS ≤ 0);
- Change from baseline in joint space narrowing score and joint erosion score.
- Change from baseline in individual components of ACR response;
 - \circ Change from baseline in Tender Joint Count (TJC) (0-68);
 - Change from baseline in Swollen Joint Count (SJC) (0-66);
 - Change from baseline in Physician Global Assessment (PGA) Disease Activity (NRS);
 - Change from baseline in Patient's Global Assessment (PtGA) Disease Activity (NRS);
 - Change from baseline in Patient's Assessment of Pain Numerical Rating Scale (NRS);

- Change from baseline in Health Assessment Questionnaire Disability Index (HAQ-DI);
- Change from baseline in High-Sensitivity C Reactive Protein (hs-CRP);
- ACR 20/50/70 response rates;
- Change from baseline in Leeds Dactylitis Index (LDI);
- Change from baseline in dactylitis count;
- Proportion of subjects with resolution of dactylitis;
- Change from baseline in Leeds Enthesitis Index (LEI);
- Proportion of subjects with resolution of enthesitis sites included in the LEI;
- Change from baseline in SPARCC Enthesitis Index;
- Proportion of subjects with resolution of enthesitis sites included in the SPARCC Enthesitis Index;
- Change from baseline in total enthesitis count;
- Proportion of subjects with resolution of enthesitis;
- PASI 75/90/100 response rates (for subjects with ≥ 3% Body Surface Area (BSA) psoriasis at baseline);
- Proportion of subjects achieving a static Investigator Global Assessment of Psoriasis (sIGA) score of 0 or 1 and at least a 2-point improvement from baseline:
- BSA-Ps;
- Modified Psoriatic Arthritis Response Criteria (PsARC) response rate;
- Change from baseline in Disease Activity Score 28 (DAS28) (CRP);
- Change from baseline in DAS28 (ESR);
- Change from baseline in PsA Disease Activity Score (PASDAS);
- Change from baseline in Disease Activity in Psoriatic Arthritis (DAPSA) score;
- Change from baseline in Short Form 36 (SF-36) Health Questionnaire;
- Change from baseline in Functional Assessment of Chronic Illness Therapy (FACIT)- Fatigue Questionnaire;
- Change from baseline in EuroQol-5D-5L (EQ-5D-5L) Questionnaire;



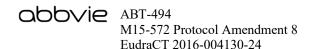
- Change from baseline in Work Productivity and Activity Impairment (WPAI) Questionnaire;
- Health Resource Utilization (HRU);
- Proportion of subjects achieving MDA
- Change from baseline in Self-Assessment of Psoriasis Symptoms (SAPS) Questionnaire;
- Change from baseline in Bath Ankylosing Spondylitis Disease Activity Index (BASDAI);
- BASDAI 50 response rates:
- Change from baseline in morning stiffness (mean of BASDAI Questions 5 and 6); Change from baseline in Ankylosing Spondylitis Disease Activity Score (ASDAS);
- Proportion of subjects with ASDAS Inactive Disease;
- Proportion of subjects with ASDAS Major Improvement;
- Proportion of subjects with ASDAS Clinically Important Improvement;
- Proportion of subjects achieving a clinically meaningful improvement in HAQ-DI (≥ 0.35);

5.3.4 Safety Variables

Safety evaluations include AE monitoring, physical examinations, vital sign measurements, ECG, and clinical laboratory testing (hematology, chemistry, and urinalysis) as a measure of safety and tolerability for the entire study duration.

5.3.5 Pharmacokinetic Variables

Plasma upadacitinib concentrations will be obtained at the times indicated in Appendix C. A non-linear mixed-effects modeling approach will be used to estimate the population central values and the empirical Bayesian estimates of the individual values of upadacitinib oral clearance (CL/F) and volume of distribution (V/F). Additional parameters for upadacitinib may be estimated if useful in the interpretation of the data.



5.3.6 Exploratory Research Variables and Validation Studies

Optional samples may be collected to conduct exploratory investigations into known and novel biomarkers. The types of biomarkers to be analyzed may include, but are not limited to: nucleic acids, proteins, lipids or metabolites.

For Japan only: The research on DNA and RNA exploratory research samples will be restricted to the subject's response to the treatment in terms of pharmacokinetics, efficacy, tolerability, and safety.

Biomarker assessments may be used to assess and generate prognostic, predictive, pharmacodynamic, or surrogate biomarker signatures. These assessments may be explored in the context of PsA or related conditions and/or upadacitinib or drugs of similar classes. The results from these analyses are exploratory in nature and may not be included with the study report.

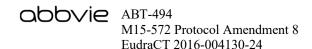
The samples may also be used to develop new therapies, research methods or technologies. In addition, samples from this study may be banked for future use. Samples may then be used to validate putative biomarker signatures obtained from a prospective study, leading to the development of diagnostic tests.

5.4 Removal of Subjects from Therapy or Assessment

5.4.1 Discontinuation of Individual Subjects

A subject may withdraw from the study at any time and for any reason. The Investigator may discontinue any subject's participation for any reason, including an AE, safety concerns or failure to comply with the protocol. See Section 6.1.7 for toxicity management criteria. Subjects will be withdrawn from study drug treatment immediately if any one of the following occurs:

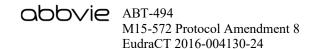
• Clinically significant abnormal laboratory result(s) or AE(s), which rule out continuation of the study drug, as determined by the Investigator or the AbbVie TA MD.



- Serious infections (e.g., sepsis) which cannot be adequately controlled within 2 weeks by anti-infective treatment or would put the subject at risk for continued participation in the trial as determined by the Investigator.
- The Investigator believes it is in the best interest of the subject.
- The subject requests withdrawal from study drug or the study.
- Inclusion and exclusion criteria violation was noted after the subject started study drug, when continuation of the study drug would place the subject at risk as determined by the AbbVie TA MD.
- Introduction of prohibited medications or dosages when continuation of the study drug would place the subject at risk as determined by the AbbVie TA MD.
- Subject is non-compliant with TB prophylaxis (if applicable) or develops active TB at any time during the study.
- The subject becomes pregnant while on study drug.
- Malignancy, except for localized NMSC or carcinoma in-situ of the cervix.
- Subjects with disease progression or not responding to treatment are to be withdrawn from study drug treatment based on investigator's discretion.
- Starting at Week 36, subjects who fail to show at least 20% improvement in either or both TJC and SJC compared to baseline at 2 consecutive visits will be discontinued from study drug treatment.
- The subject experiences a serious hypersensitivity reaction without an alternative etiology
- The investigator determines the subject is significantly non-compliant with study procedure(s)

Subjects will have upadacitinib study drug treatment discontinued immediately if any of the following occur:

• Subject develops a gastrointestinal perforation, defined as acute, spontaneous perforation of the gastrointestinal tract that requires inpatient medical care or urgent surgical intervention (other than appendicitis or mechanical injury).



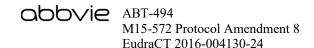
- Confirmed diagnosis of deep vein thrombosis, pulmonary embolus or noncardiac, non-neurologic arterial thrombosis
- Subject develops a major cardiovascular event (MACE: acute myocardial infarction or stroke)
- Subject develops a new ECG change considered clinically significant and with reasonable possibility of being related to study drug

Subjects will have adalimumab study drug treatment discontinued immediately if any of the following occur:

- Subject develops new or worsening symptoms of congestive heart failure
- Subject is diagnosed with lupus-like syndrome, multiple sclerosis, or demyelinating disease.

In order to minimize missing data for safety and efficacy assessments, subjects who prematurely discontinue study drug treatment should continue to be followed for all regularly scheduled visits as outlined in Appendix C, and adhere to all study procedures except for dispensing study drug, annual TB testing, PK sample collection, and blood sample collection for optional exploratory research and validation studies unless they have decided to discontinue the study participation entirely (withdrawal of informed consent). In addition, all future rescue and efficacy driven discontinuation criteria no longer apply. Subjects should be advised on the continued scientific importance of their data even if they discontinue treatment with study drug early.

If a subject is discontinued from study drug, the procedures outlined for the PD Visit should be completed as soon as possible, preferably within 2 weeks of the last dose of study drug, and preferably prior to the initiation of another therapy. In addition, if subject is willing, 30-day follow-up visit (or phone call if a visit is not possible) may occur to determine the status of any ongoing AEs/SAEs or occurrence of any new AEs/SAEs. For subjects on subcutaneous study drug, if the subject is willing, a 70-day follow-up phone call may occur to determine the status of any ongoing AEs/SAEs, the occurrence of any new AEs/SAEs, and medications used to treat AEs/SAEs. The follow-up visit/phone call



following the last dose of study drug will not occur for subjects who begin commercially available upadacitinib or adalimumab. Subjects who discontinue the study prematurely after randomization will not be replaced.

All attempts must be made to determine the date of the last study drug dose and the primary reason for discontinuation of study drug or study participation. The information will be recorded on the appropriate eCRF page. However, these procedures should not interfere with the initiation of any new treatments or therapeutic modalities that the Investigator feels are necessary to treat the subject's condition. Following discontinuation of the study drug, the subject will be treated in accordance with the Investigator's best clinical judgment.

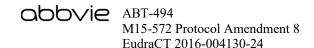
Lost to Follow-Up

For subjects that are considered lost to follow-up, reasonable attempts must be made to obtain information on the final status of the subject. At a minimum, two phone calls must be made and one certified letter must be sent and documented in the subject's source documents.

5.4.2 Discontinuation of Entire Study

AbbVie may terminate this study prematurely, either in its entirety or at any site. The study will be discontinued or terminated in case of an unacceptable risk, any relevant toxicity, request of regulatory agency and/or ethics commission, withdrawal of the license to manufacture the study drug, withdrawal of the permission to import the study drug, or a negative change in the risk/benefit assessment. This might include the occurrence of AEs with a character, severity or frequency that is new in comparison to the existing risk profile. In addition, data deriving from other clinical trials or toxicological studies which negatively influence the risk/benefit assessment might cause discontinuation or termination of the study.

The investigator may also stop the study at their site if they have safety concerns. If AbbVie terminates the study for safety reasons, AbbVie will promptly notify the



investigator. Advance notice is not required by either party if the study is stopped due to safety concerns.

5.5 Treatments

5.5.1 Treatments Administered

There are two active study drugs in this study. The first is daily upadacitinib and the second is ADA eow.

Upadacitinib (or matching placebo) will be taken orally once daily, beginning on Day 1 (Baseline), and should be taken at approximately the same time each day. The study drug can be taken with or without food. Subjects will continue their stable background non-biologic DMARD therapy. AbbVie will not supply background DMARDs.

ADA (or matching placebo) will be provided as a subcutaneous injection solution in 1 mL pre-filled syringes containing ADA 40 mg/0.8 mL (or matching placebo). ADA (or matching placebo) will be subcutaneously administered eow at approximately the same time of day.

Subjects taking MTX as background therapy should take a dietary supplement of oral folic acid beginning on Day 1 (Baseline) throughout study participation. Folic acid dosing and timing of regimen should be followed according to the Investigator's instructions. AbbVie will not supply folic acid (or equivalent, such as folinic acid).

Subjects will receive both oral study drug QD (either upadacitinib 15 mg, upadacitinib 30 mg, or matching placebo) and subcutaneous study drug eow (either ADA 40 mg or matching placebo). When the last subject completes the Week 56 visit, study drug assignment in both periods will be unblinded to the sites, and subjects will be dispensed study drug in an open-label fashion until the completion of Period 2.

Upon approval of protocol amendment 7, subjects receiving upadacitinib 30 mg QD will be switched to upadacitinib 15 mg QD at their next scheduled study visit.

5.5.2 Identity of Investigational Products

The individual study drug information is presented in Table 3.

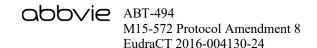
Table 3. Identity of Investigational Products

Investigational Product	Mode of Administration	Formulation	Strength	Manufacturer
Upadacitinib (ABT-494)	Oral	Tablet	15 mg 30 mg	AbbVie
Upadacitinib (ABT-494) Matching Placebo	Oral	Tablet	NA	AbbVie
Adalimumab	Subcutaneous injection	Adalimumab/Mannitol, Citric acid monohydrate, Sodium citrate, Disodium phosphate dihydrate, Sodium dihydrogen phosphate dihydrate, Sodium chloride, Polysorbate 80, Water for injections, Sodium hydroxide added as necessary to adjust pH	40 mg/ 0.8 mL	AbbVie or Vetter
Adalimumab Matching Placebo	Subcutaneous injection	Mannitol, Citric acid monohydrate, Sodium citrate, Disodium phosphate dihydrate, Sodium dihydrogen phosphate dihydrate, Sodium chloride, Polysorbate 80, Water for injections, Sodium hydroxide added as necessary to adjust pH	NA	AbbVie or Vetter

5.5.2.1 Packaging and Labeling

Upadacitinib and matching placebo will be packaged in bottles with quantities sufficient to accommodate study design. Each kit label will contain a unique kit number. This kit number is assigned to a subject via IRT and encodes the appropriate study drug to be dispensed at the subject's corresponding study visit.

Adalimumab will contain 2 pre-filled syringes of 40 mg/0.8 mL or matching placebo per carton. Each kit label will contain a unique kit number. This kit number is assigned to a subject via IRT and encodes the appropriate study drug to be dispensed at the subject's corresponding study visit.



Each kit will be labeled as required per country requirements. Labels must remain affixed to the kits. All blank spaces on the label will be completed by the site staff prior to dispensing to the subjects.

5.5.2.2 Storage and Disposition of Study Drugs

Upadacitinib must be stored at controlled room temperature (15° to 25°C/59° to 77°F). Adalimumab and placebo for adalimumab pre-filled syringes are to be stored protected from light at 2°C to 8°C/36°F to 46°F. Adalimumab and placebo for ADA must not be frozen at any time. A storage temperature log is to be maintained to document proper storage conditions. The refrigerator temperature must be recorded on a temperature log to record proper function. Malfunctions or any temperature excursions must be reported to the Sponsor immediately. Study medication should be quarantined until AbbVie deems the medication as acceptable. The investigational products are for investigational use only and are to be used only within the context of this study. The study drug supplied for this study must be maintained under adequate security and stored under the conditions specified on the label until dispensed for subject use or destroyed on site as appropriate.

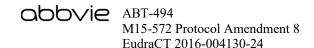
5.5.3 Method of Assigning Subjects to Treatment Groups

All subjects meeting eligibility criteria will be centrally randomized using an IRT system. Before the study is initiated, IRT directions will be provided to each site.

At the Screening Visit, subjects will be assigned a unique subject number by the IRT. The unique subject number will be used for each subject throughout the study. For subjects that re-screen, the Screening number assigned by the IRT at the initial Screening visit should be used; a new Screening number should not be requested.

Subjects who meet the inclusion and exclusion criteria defined in Section 5.2.1 and Section 5.2.2 will be centrally randomized in a 2:2:2:1:1 ratio to one of five treatment groups at Baseline (Day 1) as follows:

• Group 1: Upadacitinib (ABT-494) 15 mg QD (N = 410)



- Group 2: Upadacitinib (ABT-494) 30 mg QD (N = 410)
- Group 3: ADA (40 mg every other week [eow]) (N = 410)
- Group 4: Placebo followed by upadacitinib 15 mg QD (N = 205)
- Group 5: Placebo followed by upadacitinib 30 mg QD (N = 205)

No more than approximately 15% of subjects will be enrolled with concomitant use of HCQ, sulfasalazine, bucillamine, or iguratimod.

Subjects will receive both oral study drug QD (upadacitinib 15 mg, upadacitinib 30 mg, or matching placebo) and subcutaneous study drug eow (either ADA 40 mg or matching placebo) until all subjects have completed Period 1 (Week 56) and sites and subjects are unblinded to study treatment. Randomization will be stratified by extent of psoriasis ($\geq 3\%$ body surface area [BSA] or < 3% BSA), current use of at least 1 DMARD, presence of dactylitis, and presence of enthesitis, except for subjects from China and Japan, where randomization for each country will be stratified by extent of psoriasis ($\geq 3\%$ body surface area [BSA] or < 3% BSA) only.

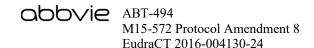
The IRT will assign a randomization number that will encode the subject's treatment group assignment according to the randomization schedule generated by the Data Sciences and Statistics Departments at AbbVie.

IRT will provide the appropriate study drug kit number(s) to dispense to each subject. Study drug will be administered at the study visits as summarized in Section 5.3.1.1. Returned study drug should not be re-dispensed to any subject.

5.5.4 Selection and Timing of Dose for Each Subject

Subjects should take study drugs as outlined in Section 5.5.1.

On dosing days that occur on study visit days, subjects should follow the regular dosing schedule (refer to Section 5.3.2 regarding Week 2 and Week 4 visits).



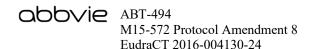
Each subject's dosing schedule should be closely monitored by the site at each study visit through Week 151 (except for subjects in China where the paper subject diary is reinstated) by careful review of the subject's diary. This will ensure that all subjects enrolled into the study maintain their original dosing schedule beginning with the first dose of study drug (Baseline/Day 1). Diaries will not be dispensed beyond Week 140 (except for subjects in China where the paper subject diary is reinstated); dosing compliance will be captured during the drug accountability process for each subject in the IRT system.

Upadacitinib/Placebo (daily dosing):

- If a subject should forget to take their upadacitinib (or matching placebo) dose at their regularly scheduled dosing time, they should take the forgotten dose as soon as they remember the dose was missed as long as it is at least 10 hours before their next scheduled dose. If a subject only remembers the missed dose within 10 hours before next scheduled dose, the subject should skip the missed dose and take the next dose at the scheduled time.
- If the subject experiences a study drug interruption > 14 consecutive days during the first 24 weeks or > 21 consecutive days after Week 24, they should notify their study site physician, and the subject should be discontinued from study drug treatment. If study drug treatment is interrupted or withdrawn in Periods 1 or 2, both oral and subcutaneous study drug administration must be stopped.

ADA/Placebo (biweekly dosing):

• Biweekly ADA (or matching placebo) should be injected the same day and approximately the same time every other week. If the subject should forget to inject their subcutaneous study drug on their regularly scheduled dosing date, they should inject the forgotten dose as soon as they remember the dose was missed up to the day before their scheduled dose. The subject must not administer two injections on the same day.



• If the subject experiences a study drug interruption of > 2 consecutive missed doses during the first 24 weeks or > 3 consecutive missed doses after Week 24, they should notify their study site physician, and the subject should be discontinued from study drug. If study drug treatment is interrupted or withdrawn in Periods 1 or 2, both oral and subcutaneous study drug administration must be stopped.

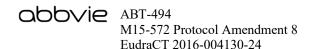
Refer to Appendix F for injection instructions.

5.5.5 Blinding

5.5.5.1 Blinding of Investigational Product

All AbbVie personnel with direct oversight of the conduct and management of the trial (with the exception of AbbVie Drug Supply Management Team), the Investigator, study site personnel, and the subject will remain blinded to each subject's treatment throughout the study. In order to maintain the blind, the upadacitinib/placebo tablets and adalimumab/matching placebo syringes provided for the study will be identical in appearance. The IRT will provide access to unblinded subject treatment information in the case of medical emergency.

In the event of a medical situation that requires unblinding of the study drug assignment, the Investigator is requested to contact the AbbVie TA MD prior to breaking the blind. However, if an urgent therapeutic intervention is necessary which warrants breaking the blind prior to contacting the AbbVie TA MD, the Investigator can directly access the IRT system to break the blind without AbbVie notification or agreement. Unblinding is available in the IRT system via the Unblind Subject transaction, which is available only to the Investigator. If the IRT system is unavailable, unblinding may occur by contacting EndPoint technical support via either phone (preferred) or email (support@endpointclinical.com). For country-specific phone numbers, please see the following website: http://www.endpointclinical.com/helpdesk/.



In the event that the blind is broken before notification to the AbbVie TA MD, AbbVie requests that the AbbVie TA MD be notified within 24 hours of the blind being broken. The date and reason that the blind was broken must be conveyed to AbbVie and recorded on the appropriate eCRF.

After the last subject completes the Week 24 visit the Sponsor will be unblinded to study drug assignment to facilitate regulatory filings. When the last subject completes the last visit of Period 1 (Week 56), study drug assignment will be unblinded to the sites, and subjects will be dispensed study drug in an open-label fashion until the completion of Period 2.

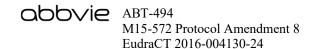
5.5.5.2 Blinding of Data for Data Monitoring Committee (DMC)

An independent Data Monitoring Committee (DMC) comprised of persons external to AbbVie and with relevant expertise in their field will review unblinded safety data from the ongoing study. If necessary to ensure subject safety, the DMC will also be given access to selected efficacy data which will be specified in the DMC charter. The primary responsibility of the DMC will be to protect the safety of the subjects participating in this study.

Additionally, the external DMC will review efficacy data after at least 600 subjects have completed the Week 12 Visit or have prematurely discontinued from the study. The interim analysis is to assess if the study met the pre-defined No-Go boundary for the primary endpoint ACR20.

A DMC charter will be prepared for the safety and efficacy data review outside of the protocol and will describe the roles and responsibilities of the DMC members, frequency of data reviews, and relevant safety and efficacy data to be assessed.

Communications from the DMC to the Study Team will not contain information that could potentially unblind the team to subject treatment assignments.



5.5.6 Treatment Compliance

The investigator or his/her designated and qualified representatives will administer/dispense study drug only to subjects enrolled in the study in accordance with the protocol. The study drug must not be used for reasons other than that described in the protocol.

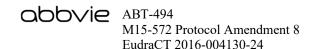
Subject dosing will be recorded on a subject diary through Week 151 (except for subjects in China where the paper subject diary will be recorded through Week 259). Subjects will be instructed to return all drug containers (even if empty) to the study site personnel at each clinic visit. The study site personnel will document compliance in the study source documents. Dosing compliance will be captured during the drug accountability process for each subject in the IRT system.

5.5.7 Drug Accountability

The Investigator or his/her representative will verify that study drug supplies are received intact, at the appropriate temperature (US/Puerto Rico is cool to touch and outside the US temperature recording devices, i.e., Temptales provided in shipments) and in the correct amounts. This will be documented by signing and dating the Proof of Receipt or similar document and by registering the arrival of drug through the IRT. The original Proof of Receipt Note and the IRT confirmation sheet will be kept in the site files as a record of what was received.

In addition, an IRT will be used to document investigational product accountability including but not limited to date received, the lot number, kit number(s), date dispensed, subject number, and the identification of the person dispensing the drug.

All empty/used study drug packaging including pre-filled syringes will be inventoried by the site. Each subject will be given their own Sharps container to dispose of used syringes. Empty/used study drug packaging and Sharps containers should be returned by the subject at each visit for accountability and compliance purposes. Site staff will



complete study drug accountability via IRT, source documents, subject dosing diaries, empty IP boxes and by visually inspecting the packaging whenever possible.

After drug accountability has been completed by the site, empty used packaging may be discarded with any subject identifiers removed or returned to AbbVie-designated destruction depot.

Unused study drug and used packaging with remaining study drug will be destroyed on site according to local procedures or regulations or returned to the AbbVie-designated destruction depot (for those sites that do not meet AbbVie's documentation requirements for on-site destruction).

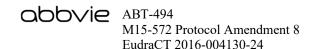
For sites performing on-site drug destruction or using a third-party vendor for drug destruction a copy of the destruction methodology and date of destruction/date prepared for destruction should be maintained at the site's facility. Monitors will reconcile the site's process, source documents, subject's dosing diaries, IRT or site accountability records, and destruction records to assure site compliance.

5.6 Discussion and Justification of Study Design

5.6.1 Discussion of Study Design and Choice of Control Groups

This study includes two periods.

Period 1 is 56-weeks in duration and includes a 24 week randomized, double-blind, parallel-group, placebo-controlled and active-comparator controlled period followed by an additional 32 weeks of blinded, active comparator-controlled treatment (Weeks 24 – 56). Period 1 is designed to compare the safety, tolerability, and efficacy of upadacitinib 15 mg QD and upadacitinib 30 mg versus placebo and versus ADA 40 mg eow in subjects with moderately to severely active PsA who have an inadequate response to non-biologic DMARD therapy. Period 1 is designed to test the superiority of upadacitinib versus placebo for achieving the primary endpoint (ACR20 at Week 12) and other efficacy parameters at Weeks 12 – 24, and to test non-inferiority of upadacitinib versus



adalimumab (ACR20 at Week 12). At Week 24 all subjects will be given upadacitinib and will continue on blinded treatment until all subjects have completed the last visit of Period 1 (Week 56). This will allow unbiased assessments of long-term safety of upadacitinib without compromising the study conduct or results of the ongoing study. In addition, the blinded study design will allow the assessment of the maintenance of treatment response of both doses in an unbiased manner during the first year of the study.

The purpose of Period 2 is to further evaluate the long-term safety, tolerability, and efficacy of upadacitinib (15 mg QD and 30 mg QD) in PsA subjects who have completed Period 1. All subjects will continue treatment to which they were assigned at the end of Period 1 in a blinded manner.

When the last subject completes the last visit of Period 1 (Week 56), study drug assignment will be unblinded to the sites, and subjects will be dispensed study drug in an open-label fashion until the completion of Period 2.

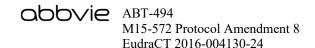
Adalimumab was first approved in the United States and European Union for the treatment of PsA in 2005 and 2006, respectively, and is considered standard of care. Additional updates regarding approved indications and safety can be found in the current edition of the Package Insert and Summary of Product Characteristics.

5.6.2 Appropriateness of Measurements

Standard statistical, clinical and laboratory procedures will be utilized in this study. Efficacy measurements in this study have been selected or designed to assess disease activity in subjects with PsA. Other than the biomarker analyses which are exploratory, all clinical and laboratory procedures in this study are standard and generally accepted.

5.6.3 Suitability of Subject Population

The intended study population is moderately to severely active PsA patients who have had an inadequate response to prior non-biologic DMARD treatment. Key entry criteria are to enroll adult female and male subjects who are at least 18 years of age with a clinical

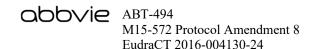


diagnosis of PsA and who fulfill the CASPAR criteria with symptoms for at least 6 months. Eligible study subjects must have ≥ 3 swollen joints (based on 66 joint counts) and ≥ 3 tender joints (based on 68 joint counts) at Screening and Baseline Visits, and either ≥ 1 erosion on x-ray of the hands or feet as determined by the central imaging reader or an elevated hs-CRP > laboratory defined ULN) at Screening.

5.6.4 Selection of Doses in the Study

The doses of upadacitinib selected for this study, 15 mg QD and 30 mg QD, dosed up to approximately 5 years, are expected to be efficacious with an acceptable safety profile. Two doses of upadacitinib have been selected for this study in order to perform limited dose ranging in subjects with PsA. The upadacitinib 15 mg QD and 30 mg QD doses were selected as they are expected to demonstrate efficacy in the treatment of patients with PsA while limiting potential drug-related effects on laboratory parameters (e.g., hemoglobin). Doses of 15 mg QD and 30 mg QD are the doses that are currently being evaluated in Phase 3 trials in rheumatoid arthritis (RA). The doses being evaluated in the RA Phase 3 trials are considered appropriate for investigation in PsA as (1) effects of upadacitinib on tender and swollen joints, markers of inflammation, and ACR responses are expected to be similar in RA and PsA; and (2) proof of concept has been demonstrated with another JAK inhibitor (tofacitanib) at the doses that are efficacious in RA. In addition, in RA the plateau for efficacy was achieved by exposures equivalent to 30 mg QD, indicating that higher doses may not provide greater therapeutic benefit.

Results from two Phase 2b trials in subjects with RA with the upadacitinib immediate release capsule formulation indicate that all evaluated doses (3 mg BID, 6 mg BID, 12 mg BID, 18 mg BID, and 24 mg QD) were generally well tolerated and without unexpected safety concerns. The Phase 2 dose-response and exposure-response results in RA show that the 6 mg BID dose approaches the plateau of efficacy, and increasing the dose to 12 mg BID appears to result in some incremental efficacy benefit, particularly in the more refractory subjects with inadequate response or intolerance to anti-TNF biologic therapy. Therefore, upadacitinib exposures associated with 6 mg BID and 12 mg BID were selected as the target exposures to evaluate in Phase 3 trials in RA.



In order to enhance patients' compliance and to provide a more convenient dosing regimen than BID administration, AbbVie developed a once-daily tablet formulation which will be used in the current study.

A bioavailability study has demonstrated that 15 mg QD and 30 mg QD regimens of the once-daily tablet formulation provide equivalent daily AUC and comparable C_{max} , and C_{min} to 6 mg BID and 12 mg BID, respectively, of the immediate-release capsule formulation used in Phase 2 studies in RA.

The mean exposures (AUC and C_{max}) for the highest dose that will be evaluated in this study (30 mg QD) are predicted to be lower than the exposures associated with the no-observed-adverse-effect level in the 9-month GLP preclinical toxicology study in dogs (1.5 mg/kg/day) and lower than the highest mean upadacitinib exposures evaluated in healthy subjects or in patients in previous clinical studies.

The adalimumab dose selected for this study, 40 mg SQ EOW, is the dose marketed for treatment of patients with PsA.

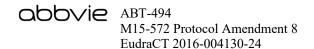
6.0 Complaints

A Complaint is any written, electronic, or oral communication that alleges deficiencies related to the physical characteristics, identity, quality, purity, potency, durability, reliability, safety, effectiveness, or performance of a product/device after it is released for distribution.

Complaints associated with any component of this investigational product must be reported to the Sponsor (Section 6.2.2). For adverse events (AE), please refer to Section 6.1. For product complaints, please refer to Section 6.2.

6.1 Medical Complaints

The investigator will monitor each subject for clinical and laboratory evidence of AEs on a routine basis throughout the study. The investigator will assess and record any AE in detail including the date of onset, event diagnosis (if known) or sign/symptom, severity,



time course (end date, ongoing, intermittent), relationship of the AE to study drug, and any action(s) taken. For serious adverse events (SAE) considered as having "no reasonable possibility" of being associated with study drug, the investigator will provide an Other cause of the event. For AEs to be considered intermittent, the events must be of similar nature and severity. AEs, whether in response to a query, observed by site personnel, or reported spontaneously by the subject will be recorded.

All AEs will be followed to a satisfactory conclusion.

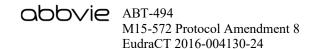
6.1.1 Definitions

6.1.1.1 Adverse Event

An AE is defined as any untoward medical occurrence in a patient or clinical investigation subject administered a pharmaceutical product and which does not necessarily have a causal relationship with this treatment. An AE can therefore be any unfavorable and unintended sign (including an abnormal laboratory finding), symptom, or disease temporally associated with the use of a medicinal (investigational) product, whether or not the event is considered causally related to the use of the product.

Such an event can result from use of the drug as stipulated in the protocol or labeling, as well as from accidental or intentional overdose, drug abuse, or drug withdrawal. Any worsening of a pre-existing condition or illness is considered an AE. Worsening in severity of a reported AE should be reported as a new AE. Laboratory abnormalities and changes in vital signs are considered to be AEs only if they result in discontinuation from the study, necessitate therapeutic medical intervention, and/or if the investigator considers them to be AEs.

Expected manifestations of PsA (i.e., psoriasis, joint pain and swelling, dactylitis, enthesitis, etc.) are not to be recorded as AEs unless the manifestation is considered to be a disease flare (worsening) of the underlying condition.

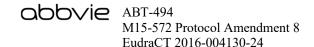


An elective surgery/procedure scheduled to occur during a study will not be considered an AE if the surgery/procedure is being performed for a pre-existing condition and the surgery/procedure has been pre-planned prior to study entry. However, if the pre-existing condition deteriorates unexpectedly during the study (e.g., surgery performed earlier than planned), then the deterioration of the condition for which the elective surgery/procedure is being done will be considered an AE.

6.1.1.2 Serious Adverse Events

If an AE meets any of the following criteria, it is to be reported to AbbVie as a SAE within 24 hours of the site being made aware of the SAE.

Death of Subject	An event that results in the death of a subject.
Life-Threatening	An event that, in the opinion of the investigator, would have resulted in immediate fatality if medical intervention had not been taken. This does not include an event that would have been fatal if it had occurred in a more severe form.
Hospitalization or Prolongation of Hospitalization	An event that results in an admission to the hospital for any length of time or prolongs the subject's hospital stay. This does not include an emergency room visit or admission to an outpatient facility.
Congenital Anomaly	An anomaly detected at or after birth, or any anomaly that results in fetal loss.
Persistent or Significant Disability/Incapacity	An event that results in a condition that substantially interferes with the activities of daily living of a study subject. Disability is not intended to include experiences of relatively minor medical significance such as headache, nausea, vomiting, diarrhea, influenza, and accidental trauma (e.g., sprained ankle).



Important Medical Event Requiring Medical or Surgical Intervention to Prevent Serious Outcome An important medical event that may not be immediately life-threatening or result in death or hospitalization, but based on medical judgment may jeopardize the subject and may require medical or surgical intervention to prevent any of the outcomes listed above (i.e., death of subject, life-threatening, hospitalization, prolongation of hospitalization, congenital anomaly, or persistent or significant disability/incapacity). Additionally, any elective or spontaneous abortion or stillbirth is considered an important medical event. Examples of such events include allergic bronchospasm requiring intensive treatment in an emergency room or at home, blood dyscrasias or convulsions that do not result in inpatient hospitalization, or the development of drug dependency or drug abuse.

For SAEs with the outcome of death, the date and cause of death will be recorded on the appropriate case report form.

6.1.1.3 Adverse Events of Special Interest

The following adverse events of special interest (AESI) will be monitored during the study (see detailed toxicity management in Section 6.1.7):

- Serious infections;
- Opportunistic infections;
- Malignancy (all types);
- Hepatic disorder;
- Adjudicated gastrointestinal perforations;
- Anemia;
- Neutropenia;
- Lymphopenia;
- Herpes Zoster;
- Creatine Phosphokinase (CPK elevation);
- Renal dysfunction;

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- Active tuberculosis;
- Adjudicated cardiovascular events (e.g., major adverse cardiovascular event [MACE]);
- Adjudicated embolic and thrombotic events (non-cardiac, non-CNS).
- Bone fracture
- Retinal detachment

6.1.2 Adverse Event Severity

When criteria are available, events should be graded as described in the National Cancer Institute Common Terminology Criteria for Adverse Events (CTCAE, version 5.0), which can be accessed at:

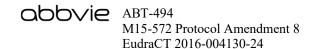
http://ctep.cancer.gov/protocolDevelopment/electronic_applications/ctc.htm#ctc. If guidance for specific events is not available grading should be as follows:

Mild (Grade 1): asymptomatic or mild symptoms; clinical or diagnostic observations only; intervention not indicated.

Moderate (Grade 2): minimal, local or noninvasive intervention indicated; limiting ageappropriate instrumental activities of daily living (ADL). (Instrumental ADL refer to preparing meals, shopping for groceries or clothes, using the telephone, managing money, etc.).

Severe (Grade 3 - 5):

- Grade 3: Severe or medically significant but not immediately life-threatening; hospitalization or prolongation of hospitalization indicated; disabling; limiting self-care ADL. (Self-care ADL refers to bathing, dressing and undressing, feeding self, using the toilet, taking medications, and not bedridden.)
- Grade 4: Life-threatening consequences; urgent intervention indicated
- Grade 5: Death related to AE.



6.1.3 Relationship to Study Drug

The investigator will use the following definitions to assess the relationship of the AE to the use of study drug:

Reasonable Possibility	After consideration of factors including timing of the event, biologic plausibility, clinical judgment, and potential alternative causes, there is sufficient evidence (information) to suggest a causal relationship.
No Reasonable Possibility	After consideration of factors including timing of the event, biologic plausibility, clinical judgment, and potential alternative causes, there is insufficient evidence (information) to suggest a causal relationship.

For causality assessments, events assessed as having a reasonable possibility of being related to the study drug will be considered "associated." Events assessed as having no reasonable possibility of being related to study drug will be considered "not associated." In addition, when the investigator has not reported a causality or deemed it not assessable, AbbVie will consider the event associated.

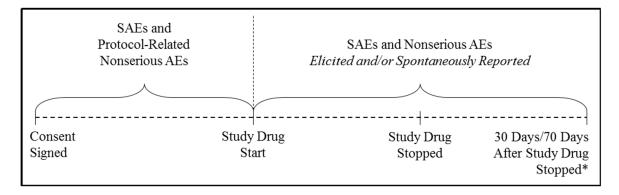
If an investigator's opinion of no reasonable possibility of being related to study drug is given, an Other cause of event must be provided by the investigator for the serious adverse event.

6.1.4 Adverse Event Collection Period

All AEs reported from the time of study drug administration until 70 days following discontinuation of subcutaneous study drug administration and until 30 days following the discontinuation of oral study drug administration have elapsed will be collected, whether solicited or spontaneously reported by the subject. Subjects who discontinue study drug treatment but continue to participate in the study will have SAEs and non-serious AEs collected for the remainder of the study participation. In addition, SAEs and protocol-related nonserious AEs (AEs due to study procedures) will be collected from the time the subject signed the study-specific informed consent.

Adverse event information will be collected as shown in Figure 3.

Figure 3. Adverse Event Collection



^{* 30} days after the last dose of oral study drug; 70 days after the last dose of subcutaneous study drug.

Additionally, in order to assist the adjudication process, additional information on any potential MACE will be collected, if applicable.

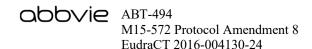
In the case of any of the following reported events, an appropriate supplemental MACE eCRF should be completed:

- Cardiac events:
- Myocardial infarction or unstable angina;
- Heart failure;
- Cerebral vascular accident and transient ischemic attack;

In the case of a reported AE of herpes zoster infection or a non-cardiac, non-CNS embolic or thrombotic event, or is COVID-19 related, a Supplemental AE eCRF should be completed.

6.1.5 Serious Adverse Event and Malignancy Reporting

AbbVie is committed to continue to collect safety information including those events that may occur in this trial in order to confirm this established safety profile and to identify



any unknown potential adverse reactions, rare events, and those events with a long latency. AbbVie is participating in an FDA-requested, TNF inhibitor class wide exploration of the rare appearance of malignancy in subjects/patients who are 30 years of age or younger at the time of diagnosis. The risk of malignancy in this age group has not been established and is difficult to study due to its rarity. AbbVie appreciates your attention to the additional reporting requirements needed in this unlikely event.

In the event of a SAE, and additionally, any nonserious event of malignancy in subjects 30 years of age and younger, whether related to subcutaneous study drug or not, the physician will notify Clinical Pharmacovigilance within 24 hours of the physician becoming aware of the event by entering the SAE or nonserious event of malignancy in subjects 30 years of age and younger data into the electronic data capture (EDC) system.

SAEs that occur prior to the site having access to the RAVE® system, or if RAVE is not operable, should be documented on the SAE non-CRF forms and emailed (preferred route) or faxed to Clinical Pharmacovigilance within 24 hours of the site being made aware of the SAE.

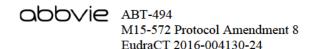
Email: PPDINDPharmacovigilance@abbvie.com

FAX to: +1 (847) 938-0660

For safety concerns, contact the Immunology Safety Team at:

Immunology Safety Team

Email: SafetyManagement Immunology@abbvie.com



For any subject safety concerns, please contact the physician listed below:

Therapeutic Area Medical Director (TA MD):



In emergency situations involving study subjects when the primary TA MD is not available by phone, please contact the 24-hour AbbVie Medical Escalation Hotline where your call will be re-directed to a designated backup AbbVie TA MD:

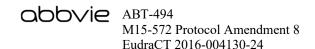
Phone: +1 973 784-6402

The sponsor will be responsible for Suspected Unexpected Serious Adverse Reactions (SUSAR) reporting for the Investigational Medicinal Product (IMP) in accordance with Directive 2001/20/EC. The reference document used for SUSAR reporting in the EU countries will be the most current version of the Investigator's Brochure for upadacitinib and/or the Summary of Product Characteristics (SmPC) for adalimumab, as applicable.

In Japan, the principal investigator will provide documentation of all SAEs to the Director of the investigative site and the Sponsor.

6.1.6 Pregnancy

Pregnancy in a study subject must be reported to AbbVie within 24 hours after the site becomes aware of the pregnancy. Subjects who become pregnant during the study must be discontinued from study drug treatment (Section 5.4.1).



Information regarding a pregnancy occurrence in a study subject and the outcome of the pregnancy will be collected. Pregnancies in study subjects and female partners of male subjects will be collected from the date of the first dose through 30 days of the last dose of oral study drug and 150 days following the last dose of subcutaneous study drug.

Pregnancy in a study subject is not considered an AE. The medical outcome for either mother or infant, meeting any serious criteria including an elective or spontaneous abortion is considered a SAE and must be reported to AbbVie within 24 hours of the site becoming aware of the event.

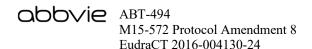
Female subjects should avoid pregnancy throughout the course of the study, starting with the Screening Visit through 150 days after the last subcutaneous study drug administration for female subjects and through 30 days after the last oral study drug administration. Results of a positive pregnancy test or confirmation of a pregnancy will be assessed starting with the Screening Visit through the final study visit.

6.1.7 Toxicity Management

The toxicity management of the AEs including AESIs consists of safety monitoring (review of AEs on an ongoing basis, and periodic/ad hoc review of safety issues by an independent external data monitoring committee), interruption of study drug dosing with appropriate clinical management if applicable, and discontinuation of the subjects from study drug. The management of specific AEs and laboratory parameters is described below.

For subjects who discontinue study drug but continue participation in the study and are on standard of care therapies, these toxicity management requirements do not apply (including alerts from the central lab) and any intolerability to standard of care therapies should be managed by the prescribing physician.

Serious Infections: Subjects should be closely monitored for the development of signs and symptoms of infection during and after treatment with study drug. Study drug should be interrupted if a subject develops a serious infection or an opportunistic infection. A



subject who develops a new infection during treatment with study drug should undergo prompt diagnostic testing appropriate for an immunocompromised subject. As appropriate, antimicrobial therapy should be initiated, and the subject should be closely monitored. Re-challenge with study drug may occur once the infection has been successfully treated. Subjects who develop active TB must be permanently discontinued from study drug. See Section 5.5.4 Selection and Timing of Dose for Each Subject for study drug interruption guidelines.

Herpes zoster: If a subject develops herpes zoster, consider temporarily interrupting study drug until the episode resolves.

Gastrointestinal Perforation: If the diagnosis of gastrointestinal perforation is confirmed (other than due to appendicitis or mechanical injury) in a subject taking upadacitinib, the subject must be permanently discontinued from study drug.

Major Cardiovascular Events (MACE): Subjects taking upadacitinib who develop an acute myocardial infarction or stroke must be permanently discontinued from study drug.

Congestive heart failure: Subjects taking adalimumab who develop new or worsening symptoms of congestive heart failure must be permanently discontinued from study drug.

Malignancy: Subjects who develop malignancy other than NMSC or carcinoma in-situ of the cervix must be discontinued from study drug. Information including histopathological results should be queried for the confirmation of the diagnosis. Periodic skin examination is recommended for subjects who are at increased risk for skin cancer. Subjects who develop malignancies should be referred to appropriate specialists and managed as per standard of care.

Muscle-related symptoms: If a subject experiences symptoms suggestive of myositis or rhabdomyolysis, consider checking CPK and aldolase with clinical management and/or study drug interruption as deemed appropriate by the treating physician.

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Thrombosis Events: Subjects should be assessed for symptoms of thrombosis during the assessment of adverse events. Subjects who develop symptoms of thrombosis should be promptly evaluated and treated appropriately. If the diagnosis of deep vein thrombosis, pulmonary embolus, or non-cardiac, non-neurologic arterial thrombosis is confirmed, subjects taking upadacitinib must be discontinued from study drug.

COVID-19: Interrupt study drug in subjects with a confirmed diagnosis of COVID-19. Consider interrupting study drug in subjects who show signs and/or symptoms with suspicion of COVID-19. Study drug may be restarted if fever is resolved without use of antipyretics for 24 hours and other symptoms improved, or if 5 days have passed since the COVID-19 positive test result (whichever comes last). The COVID-19 eCRF must be completed.

ECG Abnormality: Subjects taking upadacitinib must be discontinued from study drug for a new ECG change considered clinically significant and with a reasonable possibility of relationship to study drug.

Management of Select Laboratory Abnormalities: For any given laboratory abnormality, the Investigator should assess the subject, apply the standard of care for medical evaluation and treatment following any local guidelines. Specific toxicity management guidelines for abnormal laboratory values are described in Table 4 and may require an appropriate supplemental eCRF be completed. For subjects with ongoing laboratory abnormalities which require data entry into an eCRF, an additional eCRF related to subsequent laboratory abnormalities is only required if the subject has relevant changes in history (e.g., new onset signs or symptoms) or laboratory values which have returned to normal reference range or its Baseline value followed by subsequent laboratory abnormalities meeting toxicity guidelines (considered a new event). All abnormal laboratory tests that are considered clinically significant by the Investigator will be followed to a satisfactory resolution. If a repeat test is required per Table 4, the repeat testing must occur as soon as possible.

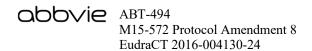
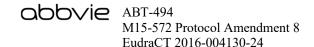


Table 4. Specific Toxicity Management Guidelines for Abnormal Laboratory Values

Laboratory Parameter	Toxicity Management Guideline
Hemoglobin	 If hemoglobin < 8 g/dL interrupt study drug dosing and confirm by repeat testing with a new sample. If hemoglobin decreases ≥ 3.0 g/dL from Baseline without an alternative etiology, interrupt study drug dosing and confirm by repeat testing with new sample. If hemoglobin decreases ≥ 3.0 g/dL from Baseline and an alternative etiology is known or the hemoglobin value remains in the normal reference range, the subject may remain on study drug at the investigator's discretion. If confirmed, continue to withhold study drug until hemoglobin value returns to normal reference range or its Baseline value.
Absolute neutrophil count (ANC)	 If confirmed < 1000/μL by repeat testing with new sample, interrupt study drug dosing until ANC value returns to normal reference range or its Baseline value. Interrupt study drug if confirmed < 500/μL by repeat testing with new sample. If value returns to normal reference range or its Baseline value, restarting study drug is allowed if there is an alternative etiology identified; documentation should include reason that rechallenge is expected to be safe for the subject. Study drug should be discontinued if no alternative etiology can be found.
Absolute lymphocyte counts (ALC)	• If confirmed < 500/μL by repeat testing with new sample, interrupt study drug dosing until ALC returns to normal reference range or its Baseline value.
Total white blood cell count	• If confirmed < 2000/μL by repeat testing with new sample, interrupt study drug dosing until white blood cell count returns to normal reference range or its Baseline value.
Platelet count	• If confirmed < 50,000/µL by repeat testing with new sample, interrupt study drug dosing until platelet count returns to normal reference range or its Baseline value.
AST or ALT	Interrupt study drug, if any of the following scenarios are confirmed by repeat testing of AST/ALT: • ALT or AST > 3 × ULN and either a total bilirubin > 2 × ULN or an international normalized ratio (INR) > 1.5: • A separate blood sample for INR testing will be needed to measure INR at the time of repeat testing for ALT or AST. A repeat test of INR is not needed for determination if above toxicity management criteria are met.



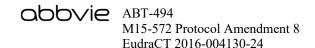
Laboratory	
Parameter	Toxicity Management Guideline
	 If a creatine phosphokinase (CPK) value is not available, a CPK should be drawn to exclude AST/ALT elevations related to muscle injury.
	 ALT or AST > 3 × ULN along with new appearance of fatigue, nausea, vomiting, right upper quadrant pain or tenderness, fever, rash, and/or new-onset eosinophilia.
	• ALT or AST $> 5 \times$ ULN for more than 2 weeks.
	If ALT or AST $> 8 \times$ ULN, interrupt study drug immediately, repeat testing with a new sample, and if repeat test confirms result contact the TA MD.
	Subjects with HBc Ab+ (irrespective of HBs Ab status) and negative HBV DNA PCR testing at Screening who develop the following laboratory findings should have HBV DNA PCR testing performed within 1 week (based on initial elevated value):
	• ALT > 5 × ULN OR
	 ALT or AST > 3 × ULN if an alternative cause is not readily identified. A separate blood sample for HBV DNA PCR testing will be needed at the time of repeat testing for ALT or AST.
	A positive result for HBV DNA PCR testing will require immediate interruption of study drug (unless not acceptable by local practices) and a hepatologist consultation should occur within 1 week for recommendation regarding subsequent treatment.
	Subjects who meet any of the above criteria should be evaluated for an alternative etiology of the ALT or AST elevation and managed as medically appropriate. If applicable, the alternative etiology should be documented appropriately in the eCRF. If ALT or AST values return to the normal reference range or its Baseline value, study drug may be restarted. If restarting study drug, documentation should include reason that rechallenge is expected to be safe. If after clinically appropriate evaluation, no alternative etiology for ALT or AST elevation is found or the ALT or AST elevation has not resolved or is not trending down toward normal, the subject should be discontinued from study drug. For any confirmed ALT or AST elevation > 3 ULN, complete the appropriate supplemental hepatic eCRF(s).
Serum Creatinine	• If serum creatinine is > 1.5 × the Baseline value and > ULN, repeat the test for serum creatinine (with subject in an euvolemic state) to confirm the results. If the results of the repeat testing still meet this criterion then interrupt study drug and re-start study drug once serum creatinine returns to ≤ 1.5 × Baseline value.
	• If confirmed serum creatinine ≥ 2 mg/dL, interrupt study drug and re-start study drug once serum creatinine returns to normal reference range or its Baseline value.



Laboratory Parameter	Toxicity Management Guideline
	For the above serum creatinine elevation scenarios, complete the appropriate supplemental renal eCRF(s).
Creatine Phosphokinase	• If confirmed CPK value ≥ 4 × ULN and there are no symptoms suggestive of myositis or rhabdomyolysis, the subjects may continue study drug at the investigator's discretion.
	 If confirmed CPK ≥ 4 × ULN accompanied by symptoms suggestive of myositis or rhabdomyolysis, interrupt study drug and contact AbbVie TA MD.
	For the above CPK elevation scenarios, complete supplemental CPK eCRF.

For study drug interruption, the following rules apply:

- For upadacitinib/placebo (daily dosing):
 - Ouring first 24 weeks, study drug interruption of \leq 14 consecutive days is allowed.
 - After Week 24, study drug interruption of \leq 21 consecutive days is allowed.
- For adalimumab/placebo (biweekly dosing):
 - Ouring first 24 weeks, study drug interruption is allowed \leq 2 consecutive missed doses.
 - After Week 24, study drug interruption is allowed ≤ 3 consecutive missed doses.
- If the subject must undergo emergency surgery, the study drugs should be interrupted at the time of the surgery.
- Elective surgery during the first 24 weeks is not allowed.
- Elective surgery between Weeks 24 and 56 is discouraged and should be discussed with the AbbVie TA MD.
- If the subject undergoes elective surgery, oral study drug should be interrupted at least 3 days prior to the planned surgery and injectable study drug should be interrupted 2 weeks prior to the planned surgery.
- After surgery, allow reintroduction of study drugs once a physician has examined the surgical site and determined that it has healed and there is no sign of infection.



6.1.8 Data Monitoring Committee

An independent external DMC will review unblinded safety data. See Section 5.5.5.2 for details.

The independent external DMC will also review unblinded efficacy data at a single time point to perform a Go analysis. See Section 8.1.4.6 for details.

6.1.9 Cardiovascular Adjudication Committee

An independent committee of physician experts in cardiovascular adjudication will be utilized to assess potential cardiovascular AEs in a blinded manner as defined by the Cardiovascular Adjudication Committee charter.

6.1.10 Gastrointestinal Perforation Adjudication Committee

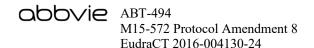
An internal gastrointestinal perforation committee will identify and adjudicate adverse events of spontaneous GI perforation. The internal committee will be comprised of at least two gastroenterologists or physicians with appropriate expertise who are independent of the clinical study team and blinded to subject treatment assignments. The committee's primary responsibility is to review potential events of GI perforation and adjudicate against a pre-specified case definition. A separate GI perforation charter will be prepared outside of the protocol and will describe the case definition, procedures, roles, and responsibilities.

6.2 Product Complaint

6.2.1 Definition

A Product Complaint is any Complaint (see Section 6.0 for the definition) related to the biologic or drug component of the product.

For a product this may include, but is not limited to, damaged/broken product or packaging, product appearance whose color/markings do not match the labeling, labeling



discrepancies/inadequacies in the labeling/instructions (example: printing illegible), missing components/product, or packaging issues.

Any information available to help in the determination of causality to the events outlined directly above should be captured.

6.2.2 Reporting

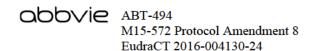
Product Complaints concerning the investigational product must be reported to the Sponsor within 24 hours of the study site's knowledge of the event via the Product Complaint form. Product Complaints occurring during the study will be followed-up to a satisfactory conclusion. All follow-up information is to be reported to the Sponsor (or an authorized representative) and documented in source as required by the Sponsor. Product Complaints associated with AEs will be reported in the study summary. All other complaints will be monitored on an ongoing basis.

Product Complaints may require return of the product with the alleged complaint condition. In instances where a return is requested, every effort should be made by the investigator to return the product within 30 days. If returns cannot be accommodated within 30 days, the site will need to provide justification and an estimated date of return.

The description of the complaint is important for AbbVie in order to enable AbbVie to investigate and determine if any corrective actions are required.

7.0 Protocol Deviations

AbbVie does not allow intentional/prospective deviations from the protocol unless when necessary to eliminate an immediate hazard to study subjects. The principal investigator is responsible for complying with all protocol requirements, and applicable global and local laws regarding protocol deviations. If a protocol deviation occurs (or is identified) after a subject has been enrolled, the principal investigator is responsible for notifying Independent Ethics Committee (IEC)/Independent Review Board (IRB) regulatory authorities (as applicable), and the following AbbVie Clinical Monitor(s):



Primary Contact:

AbbVie Inc.
One North Waukegan Road
North Chicago, IL 60064
United States of America

Office:

Email:

AbbVie s.r.l.
Viale dell' Arte, 25
United States of America

Office:
Email:

Such contact must be made as soon as possible to permit a review by AbbVie to determine the impact of the deviation on the subject and/or the study.

Examples of protocol deviations include the following:

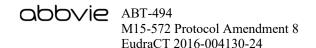
- Subject entered into the study even though she/he did not satisfy entry criteria;
- Subject who developed withdrawal criteria during the study and was not withdrawn;
- Subject who received wrong treatment or incorrect dose;
- Subject who received excluded or prohibited concomitant treatment.

In Japan, the Investigator will record all protocol deviations in the appropriate medical records at site.

8.0 Statistical Methods and Determination of Sample Size

8.1 Statistical and Analytical Plans

An unblinded analysis will be conducted after all subjects have completed Week 24 or have prematurely discontinued for the purpose of submission. To maintain integrity of the trial during the blinded 56-week period, study sites and subjects will remain blinded



until all subjects have reached Week 56. A second unblinded analysis may be conducted for regulatory purposes after all subjects have completed Week 56. A final analysis will be conducted after all subjects have completed the last visit of the study.

Completed and specific details of the statistical analysis will be described and fully documented in the Statistical Analysis Plan (SAP). The SAP will be finalized prior to the first unblinded analysis (Week 24 analysis). The statistical analyses will be performed using SAS® (SAS Institute Inc., Cary, NC, USA).

Upon approval of protocol amendment 7, subjects receiving upadacitinib 30 mg QD will be switched to upadacitinib 15 mg QD at their next scheduled study visit. The details for handling the change in dose in analysis will be described in the Statistical Analysis Plan (SAP) for final reporting.

8.1.1 Analysis Populations

8.1.1.1 Full Analysis Set (FAS)

The Full Analysis Set (FAS) includes all randomized subjects who received at least one dose of study drug. The FAS will be used for all efficacy and baseline analyses.

8.1.1.2 Per Protocol Analysis Set

The Per Protocol Analysis Set represents a subset of the FAS and consists of all FAS subjects who did not have major protocol violations which are expected to impact the primary endpoint. Additional analysis may be conducted on the Per Protocol analysis set, in order to evaluate the impact of major protocol violations. The Per Protocol Analysis Set will be determined prior to the Week 24 analysis.

8.1.1.3 Safety Analysis Set

The Safety Analysis Set consists of all subjects who received at least one dose of study drug. For the Safety Analysis Set, subjects are assigned to a treatment group based on the treatment actually received, regardless of the treatment randomized.

8.1.2 Subject Accountability, Disposition and Study Drug Exposure

8.1.2.1 Subject Accountability

The following will be summarized by site and by treatment group as well as overall, separately for Period 1 and Period 2 as appropriate: the number of subjects randomized, the number of subjects who received at least one dose of study drug, the number of subjects who completed, and the number of subjects who prematurely discontinued study participation.

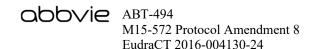
8.1.2.2 Subject Disposition

Separately for Period 1 and Period 2, the number and percentage of subjects who are randomized, received at least one dose of study drug, prematurely discontinued study drug, prematurely discontinued study participation, and completed will be summarized by treatment group and overall. Reasons for premature discontinuation of study drug and study participation will be summarized separately for all randomized subjects by treatment group and overall, with frequencies and percentages by reason for discontinuation.

8.1.2.3 Study Drug Exposure

Exposure to study drug will be summarized for the Safety Analysis Set for Period 1 alone as well as for Period 1 and Period 2 combined. The exposure to study drug (days) will be summarized with the mean, standard deviation, median, and range for each treatment group. The exposure to study drug is defined as the difference between the dates of the first and last doses of the study drug plus 1 day for oral study drug and plus 14 days for injectable study drug.

Study drug compliance will be summarized for each treatment group for Period 1. The compliance for oral study drug is defined as the total number of tablets taken divided by the total number of tablets a subject is supposed to take during Period 1. The compliance



for injectable study drug is defined as the total number of injections received divided by the total number of injections a subject is supposed to receive during Period 1.

8.1.3 Analysis of Demographic and Baseline Characteristics

Demographic and baseline characteristics will be summarized by treatment group and overall for the FAS. For the purpose of this analysis, baseline data for each subject will be the data collected prior to the first dose of study drug.

Summary statistics for continuous variables will include the number of observations, mean, standard deviation, median, and range. For discrete variables, frequencies and percentages for each category will be summarized.

Medical history will be presented by counts and percentages of subjects, broken down by Body System and Diagnosis.

Prior therapy and medication will be summarized by treatment group. Prior therapy and medication will include all therapies and medications with a start date prior to the date of first dose of study drug.

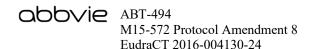
Concomitant medications will also be summarized with frequencies and percentages for each treatment group. All medications administered during study drug exposure will be included.

8.1.4 Efficacy Analysis

All efficacy analyses will be carried out using the FAS population, which includes all randomized subjects who receive at least one dose of study drug.

8.1.4.1 Primary Efficacy Variable

Analysis of the primary endpoint will be conducted on the FAS based on treatment as randomized. Comparison of the primary endpoint will be made between each upadacitinib dose group and the combined placebo groups using the Cochran-Mantel-Haenszel test adjusting for main stratification factors. For the primary analysis, Non-



Responder Imputation (NRI) will be used. The analysis will be repeated using Observed Cases (OC). Supportive analysis will also be conducted on the Per Protocol Analysis Set.

The primary efficacy analyses will also be performed in demographic subgroups including age, gender, race, body mass index, and geographical region to assess the consistency of the treatment effect. Additional subgroup analyses based on baseline disease characteristics and stratification factors will also be conducted.

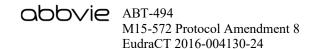
8.1.4.2 Key Secondary Efficacy Variables

Unless otherwise specified, comparisons are between each dose group of upadacitinib and the combined placebo group.

For binary endpoints, frequencies and percentages will be reported for each treatment group. Similar analyses as for the primary endpoint will be conducted.

For ACR20 response rate at Week 12, analysis will be conducted to assess the non-inferiority of each upadacitinib dose versus ADA on placebo-subtracted treatment difference using Koch's 3-arm test statistic. Non-inferiority will be claimed if upadacitinib preserves at least 50% of the placebo-subtracted ADA effect, i.e., the multiplicity adjusted lower confidence limit for the ratio of placebo-subtracted upadacitinib ACR20 rate versus the placebo-subtracted ADA ACR20 rate is at least 50%. Superiority of upadacitinib versus ADA will also be tested for ACR20 at Week 12.

For continuous endpoints, the mean, standard deviation, median, and range will be reported for each treatment group. Pairwise comparisons between each upadacitinib dose group and the combined placebo groups will be carried out using the Mixed-Effects Model Repeated Measures (MMRM) with treatment group, visit, treatment-by-visit interaction as the fixed factor, and the corresponding baseline value and the main stratification factors as the covariates. For change from baseline in Patient's Assessment of Pain NRS and change from baseline in HAQ-DI at Week 12, superiority of upadacitinib vs ADA will also be tested.



8.1.4.3 Additional Efficacy Variables

Additional efficacy variables as listed in Section 5.3.3.3 will be summarized for all visits. For binary endpoints, frequencies and percentages will be reported by treatment group by visit. For continuous endpoints, the mean, standard deviation, median, and range will be reported by treatment group by visit.

8.1.4.4 Multiplicity Control for the Primary and Key Secondary Endpoints

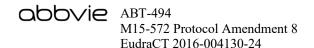
The overall type I error rate of the primary and key secondary endpoints for the two doses will be strongly controlled using a graphical multiple testing procedure 50,51 . Specifically, the testing will utilize the endpoint sequence of primary endpoint followed by key secondary endpoints in the order as specified in Section 5.3.3.2, and will begin with testing the primary endpoint using α of 0.025 for each dose. Continued testing will follow a pre-specified α transfer path which includes downstream transfer along the endpoint sequence within each dose as well as cross-dose transfer. More details of the graphical procedure will be specified in the SAP.

8.1.4.5 Imputation Methods

The following methods will be used for missing data imputation:

Observed Cases (OC): The OC analysis will not impute values for missing evaluations, and thus a subject who does not have an evaluation on a scheduled visit will be excluded from the OC analysis for that visit.

Multiple Imputation (MI): The MI analysis imputes missing data multiple times under appropriate random variation and thus generates multiple imputed "pseudo-complete" datasets. Results will be aggregated across the multiple imputed datasets, overcoming drawbacks of the single imputation methods.



Non-Responder Imputation (NRI): NRI applies to binary endpoints only. In NRI analysis, subjects who prematurely discontinue study drug will be considered non-responders for visits after the discontinuation.

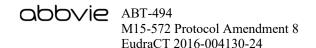
Linear Extrapolation for Radiographic Data: For radiographic data (i.e., SHS-based endpoints), if a subject prematurely discontinued before Week 24/56, their Week 24/56 data will be imputed assuming a linear relationship between baseline and the time point when x-ray should be collected.

Mixed Model Repeated Measures (MMRM): The MMRM includes treatment, visit, and treatment-by-visit interaction as fixed effects, and baseline as covariate.

For non-radiographic data, the NRI approach will serve as the primary analysis approach for binary endpoints. Analysis for key binary endpoints will also be repeated using OC. The mixed model repeated measures (MMRM) will serve as the primary analysis for key continuous endpoints at Week 12 which are prior to potential modification of background therapy. The Multiple Imputation (MI) approach will serve as the primary analysis for key continuous endpoints at Week 24. A Missing Not At Random (MNAR) model that varies assumptions for the missing data in active treatment groups and placebo groups may be used as a sensitivity analysis for important continuous endpoints to account for potential deviation from the missing at random assumption. For radiographic data, both linear extrapolation and as-observed analysis will be conducted.

8.1.4.6 Interim Analysis

An unblinded interim efficacy analysis will be conducted by an independent external DMC after at least 600 subjects have completed the Week 12 Visit or have prematurely discontinued from the study. The interim analysis is to assess if the study met the predefined No-Go boundary for the primary endpoint ACR20. A futility recommendation will be made only when both the upadacitinib 15 mg and 30 mg QD doses meet the futility criteria. Details of the decision making rules will be specified in a separate DMC charter.



8.1.4.7 Long-Term Efficacy for Period 1 and Period 2 Combined

The efficacy variables are listed in Section 5.3.3.3 and will be summarized for all visits.

Long-term efficacy by time point will be summarized using descriptive statistics. For binary endpoints, frequencies and percentages will be summarized. For continuous endpoints, the mean and standard deviation will be reported.

8.1.5 Safety Analyses

8.1.5.1 General Considerations

Safety analyses will be carried out using the Safety Analysis Set. There will be two sets of planned safety analysis: safety analysis by Week 24, and long-term safety analysis.

Safety analyses are based on treatments actually received. Safety will be assessed by AEs, physical examination, laboratory assessments, and vital signs. Frequency tables and lists of subjects with treatment-emergent AEs by preferred term as in the Medical Dictionary for Regulatory Activities (MedDRA) dictionary, by system organ class, by severity, and by relationship to the study drug as assessed by the Investigator will be provided. The vital signs, physical examination results, and clinical laboratory values will be analyzed in a descriptive manner. Shift of laboratory values from baseline to defined time points will be tabulated.

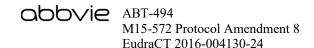
Missing safety data will not be imputed.

8.1.5.2 Analysis of Adverse Events

Unless otherwise specified, the following conventions apply for both sets of safety analysis.

8.1.5.2.1 Treatment-Emergent Adverse Events (TEAE)

AEs will be coded using MedDRA. A TEAE is defined as AE that began or worsened in severity after initiation of study drug.



AEs starting more than 70 days following the last dose of study drug for subjects on ADA and AEs starting more than 30 days following the last dose of study drug for subjects on upadacitinib or PBO will not be included in summaries of TEAEs.

As a general safety summary, the number and percentage of subjects experiencing TEAEs will be summarized for each treatment group for the following AE categories:

- All AEs;
- All severe AEs;
- All reasonably possibly related AEs;
- All SAEs;
- Frequent AEs (reported in 5% of subjects or more in any treatment group);
- Frequent reasonably possibly related AEs (reported in 5% of subjects or more in any treatment group);
- Discontinuations due to AEs;
- Death.

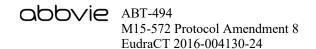
Additional AEs may be considered for tabulation/summary based on recommendations from the TA MD and Pharmacovigilance and Patient Safety as deemed appropriate.

TEAEs will be summarized and presented by system organ classes (SOCs) and preferred terms (PTs) using MedDRA. The SOCs will be presented in alphabetical order, and the PTs will be presented in alphabetical order within each SOC.

TEAE will also be summarized by maximum severity and by maximum relationship.

The AESIs listed in Section 6.1.1.3 will be summarized. Event rate (per 100 patient years) for AESIs will also be summarized for the long-term safety analysis.

All AEs leading to discontinuation of study drug will be presented in listing format. A listing by treatment group of TEAEs grouped by SOC and MedDRA preferred term with subject identification numbers will be generated.



8.1.5.2.2 Serious Adverse Events and Death

All treatment-emergent SAEs and AEs leading to death will also be presented in listing format. In addition, SAEs will be summarized by SOC and MedDRA PT.

8.1.5.3 Analysis of Laboratory and Vital Sign Data

Summary statistics by visit, and changes from baseline to minimum value, maximum value, and final values in continuous laboratory data, and vital signs will be summarized by treatment group.

Baseline values are defined as the last non-missing measurements recorded on or before the date of the first dose of study drug in Period 1.

The laboratory data will be categorized as Grade 0, Grade 1, Grade 2, Grade 3, and Grade 4 based on National Cancer Institute (NCI) Common Toxicity Criteria for Adverse Events (CTCAE). The shift tables will tabulate the number and percentage of subjects with baseline and post-baseline values by the above categories.

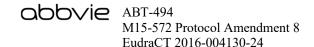
Descriptive summary and listings will be provided for potentially clinically significant laboratory values and vital signs.

8.1.6 Pharmacokinetic and Exposure-Response Analyses

Individual upadacitinib plasma concentrations at each study visit will be tabulated and summarized with appropriate statistical methods.

Data from this study may be combined with data from other studies for the population PK and exposure-response analyses. Population PK and exposure-response analyses of only data from this study may not be conducted. The following general methodology will be used for the population PK and exposure-response analyses.

Population PK analyses will be performed using the actual sampling time relative to dosing. PK models will be built using a non-linear mixed-effects modeling approach with NONMEM software (Version 7, or a higher version). The CL/F and V/F of upadacitinib

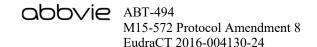


will be the PK parameters of major interest in the analyses. If necessary, other parameters, including the parameters describing absorption characteristics, may be fixed if useful in the analysis. The relationship between the conditional estimates of CL/F and V/F values with only potentially physiologically relevant or clinically meaningful covariates (such as subject age, sex, body weight, concomitant medications, laboratory markers of hepatic of renal function, etc.) will be explored using stepwise forward selection backward elimination approach. Relationships between upadacitinib exposure and clinical observations will be explored. The effect of meaningful covariates (e.g., body weight) on the exposure-response relationships for efficacy measures (e.g., ACR and PASI) in PsA patients will be evaluated.

Results of the PK and exposure-response analyses may be summarized in a separate report, rather than in the CSR. Additional analyses will be performed if useful and appropriate.

8.2 Determination of Sample Size

The planned sample size of approximately 1640 for this study (with 2:2:2:1:1 randomization ratio for upadacitinib 15 mg, upadacitinib 30 mg, adalimumab and placebo subjects) provides at least 90% power for a 20% difference in ACR20 response rate (assuming a placebo ACR20 response rate of 30%). It will also provide at least 90% power for the majority of the key secondary endpoints. With the given sample size, there is approximately 90% power to detect a standardized effect size of 0.26 in change from baseline in SHS for each upadacitinib dose group versus the combined placebo group at Week 24 ⁵². This sample size will also provide at least 85% power for evaluating non-inferiority for each upadacitinib dose group vs. ADA in ACR20 response rate at Week 12 assuming 50% ACR20 response rates for ADA and upadacitinib and 30% ACR20 response rates for placebo. All power and sample size calculations are performed at two-sided significance level of 0.025 and accounting for a 10% dropout rate.



8.3 Randomization Methods

Subjects will be randomly assigned in a 2:2:2:1:1 ratio to one of the five treatment sequences per study design diagram Figure 1.

Randomization will be stratified by extent of psoriasis (\geq 3% body surface area [BSA] or < 3% BSA), current use of at least 1 DMARD, presence of dactylitis, and presence of enthesitis, except for subjects from China and Japan, where randomization for each country will be stratified by extent of psoriasis (\geq 3% body surface area [BSA] or < 3% BSA) only. See Section 5.5.3 for details.

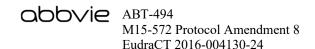
9.0 Ethics

9.1 Independent Ethics Committee (IEC) or Institutional Review Board (IRB)

Good Clinical Practice (GCP) requires that the clinical protocol, any protocol amendments, the Investigator's Brochure, the informed consent and all other forms of subject information related to the study (e.g., advertisements used to recruit subjects) and any other necessary documents be reviewed by an IEC/IRB. The IEC/IRB will review the ethical, scientific and medical appropriateness of the study before it is conducted. IEC/IRB approval of the protocol, informed consent and subject information and/or advertising, as relevant, will be obtained prior to the authorization of drug shipment to a study site.

Any amendments to the protocol will require IEC/IRB approval prior to implementation of any changes made to the study design. The investigator will be required to submit, maintain and archive study essential documents according to ICH GCP.

Any SAEs that meet the reporting criteria, as dictated by local regulations, will be reported to both responsible Ethics Committees and Regulatory Agencies, as required by local regulations. During the conduct of the study, the investigator should promptly provide written reports (e.g., ICH Expedited Reports, and any additional reports required by local regulations) to the IEC/IRB of any changes that affect the conduct of the study



and/or increase the risk to subjects. Written documentation of the submission to the IEC/IRB should also be provided to AbbVie.

9.2 Ethical Conduct of the Study

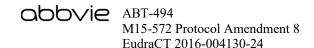
The study will be conducted in accordance with the protocol, International Conference on Harmonization (ICH) guidelines, applicable regulations and guidelines governing clinical study conduct and the ethical principles that have their origin in the Declaration of Helsinki. Responsibilities of the clinical investigator are specified in Appendix A.

In cases of state of emergency or pandemic situations leading to difficulties in performing protocol-specified procedures, AbbVie will engage with study site personnel in efforts to ensure the safety of subjects, maintain protocol compliance, and minimize risks to the integrity of the study while trying to best manage subject continuity of care. This may include alternative methods for assessments (e.g., phone contacts or virtual site visits), alternative locations for data collection (e.g., use of a local lab instead of a central lab), and shipping investigational product and/or supplies direct to subjects to ensure continuity of treatment where allowed. In all cases, these alternative measures must be allowed by local regulations and permitted by IRB/IEC. Investigators should notify AbbVie if any urgent safety measures are taken to protect the subjects against any immediate hazard.

9.3 Subject Confidentiality

To protect subjects' confidentiality, all subjects and their associated samples will be assigned numerical study identifiers or "codes." No identifiable information will be provided to AbbVie.

For the personal data that AbbVie controls and maintains, AbbVie has developed a robust security program focused on due diligence in design, managed change, and information security governance. Information Security policies govern the Information Security functions including identity and access management, operations, infrastructure, application, and third-party security requirements. The risk-based AbbVie Data Classification Tool dictates the level of scrutiny and control required for the relevant



activities per AbbVie's Information Security policies taking into account the sensitivity of the data.

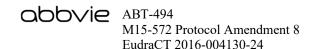
Before subject data are shared with AbbVie, the study doctor and staff will replace any information that could directly identify a subject (such as name, address, and contact information) with a generic code which AbbVie cannot link to that subject's identity to protect the confidentiality of the data.

AbbVie has a data protection impact assessment (DPIA) program to ensure and document the appropriate controls and safeguards stated above are in place for clinical trial data that it controls and maintains and these processing activities respect privacy of clinical trial subjects. AbbVie also maintains robust security incident response policies and procedures, including requirements for the containment of any data related incidents, the mitigation measures where needed, and notification to authorities or affected individuals where required.

9.4 Subject Information and Consent

The investigator or his/her representative will explain the nature of the study to the subject and answer all questions regarding this study. Prior to any study-related screening procedures being performed on the subject, the informed consent statement will be reviewed and signed and dated by the subject, the person who administered the informed consent, and any other signatories according to local requirements. A copy of the informed consent form will be given to the subject and the original will be placed in the subject's medical record. An entry must also be made in the subject's dated source documents to confirm that informed consent was obtained prior to any study-related procedures and that the subject received a signed copy.

Information regarding incentives for subjects and information regarding provisions for treating and/or compensating subjects who are harmed as a consequence of participation in the study can be found in the informed consent form.



Samples for exploratory research/validation studies will only be collected if the subject has voluntarily signed and dated the separate written consent for exploratory research/validation studies, approved by an IEC/IRB, after the nature of the testing has been explained and the subject has had an opportunity to ask questions. The separate written consent must be signed before the exploratory research/validation studies samples are collected and testing is performed. If the subject does not consent to the exploratory research/validation studies, it will not impact the subject's participation in the study.

In the event a subject withdraws from the main study, optional exploratory research/validation samples will continue to be stored and analyzed unless the subject specifically withdraws consent for the optional samples. If consent is withdrawn for the optional sampling, the subject must inform their study doctor, and once AbbVie is informed, the optional samples will be destroyed. However, if the subject withdraws his/her consent and the samples have already been tested, those results will still remain as part of the overall research data.

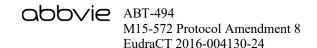
In cases of state-of emergency or pandemic situations, in addition to the study informed consent, additional verbal consent may be obtained prior to adaptations to substantial changes in study conduct, according to local regulations (e.g., labs taken at a local facility, direct to patient courier study drug deliver, home or virtual study visits, etc.).

9.4.1 Informed Consent Form and Explanatory Material

In Japan, the principal investigator will prepare the consent form and explanatory material required to obtain subject's consent to participate in the study with the cooperation of the sponsor and will revise these documents as required. The prepared or revised consent forms and explanatory material will be submitted to the sponsor. Approval of the IRB will be obtained prior to use in the study.

9.4.2 Revision of the Consent Form and Explanatory Material

In Japan, when important new information related to the subject's consent becomes available, the principal investigator will revise the consent form and explanatory material



based on the information without delay and will obtain the approval of the IRB prior to use in the study. The investigator will provide the information, without delay, to each subject already participating in the study, and will confirm the intention of each subject to continue the study or not. The investigator shall also provide a further explanation using the revised form and explanatory material and shall obtain written consent from each subject of their own free will to continue participating in the study.

10.0 Source Documents and Case Report Form Completion

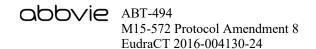
The investigator is responsible for ensuring the accuracy, completeness, legibility, and timeliness of the data reported. All source documents should be attributable, legible, contemporaneous, original, accurate, and complete to ensure accurate interpretation of data. Clinical site monitoring is conducted to ensure that the rights and well-being of human subjects are protected, that the reported trial data are accurate, complete, and verifiable, and that the conduct of the trial is in compliance with the currently approved protocol, ICH Good Clinical Practice (GCP), and applicable local regulatory requirement(s).

10.1 Source Documents

Source documents are defined as original documents, data and records. This may include hospital records, clinical and office charts, laboratory data/information, subjects' diaries or evaluation checklists, pharmacy dispensing and other records, recorded data from automated instruments, microfiches, photographic negatives, microfilm or magnetic media, and/or x-rays. Data collected during this study must be recorded on the appropriate source documents.

The investigator(s)/institution(s) will permit study-related monitoring, audits, IEC/IRB review, and regulatory inspection(s), providing direct access to source data documents.

In cases of state of emergency or pandemic situations, remote monitoring of data may be employed if allowed by the local regulatory authority, IRB/IEC, and the study site.



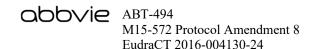
10.2 Case Report Forms

Case report forms (CRF) must be completed for each subject screened/enrolled in this study. These forms will be used to transmit information collected during the study to AbbVie and regulatory authorities, as applicable. The CRF data for this study are being collected with an electronic data capture (EDC) system called Rave® provided by the technology vendor Medidata Solutions Incorporated, NY, USA. The EDC system and the study-specific electronic case report forms (eCRFs) will comply with Title 21 CFR Part 11. The documentation related to the validation of the EDC system is available through the vendor, Medidata, while the validation of the study-specific eCRFs will be conducted by AbbVie and will be maintained in the Trial Master File at AbbVie.

The investigator will document subject data in his/her own subject files. These subject files will serve as source data for the study. All eCRF data required by this protocol will be recorded by investigative site personnel in the EDC system. All data entered into the eCRF will be supported by source documentation.

Supplemental study case report forms should be completed in the event of COVID-19 (coronavirus SARS-CoV-2) related missing/incomplete/virtual visits, study drug interruptions or discontinuations, or adverse events (including capture of specific signs/symptoms of infection and testing results).

The investigator or an authorized member of the investigator's staff will make any necessary corrections to the eCRF. All change information, including the date and person performing the corrections, will be available via the audit trail, which is part of the EDC system. For any correction, a reason for the alteration will be provided. The eCRFs will be reviewed periodically for completeness, legibility, and acceptability by AbbVie personnel (or their representatives). AbbVie (or their representatives) will also be allowed access to all source documents pertinent to the study in order to verify eCRF entries. The principal investigator will review the eCRFs for completeness and accuracy and provide his or her electronic signature and date to eCRFs as evidence thereof.



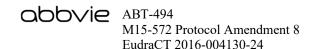
Medidata will provide access to the EDC system for the duration of the trial through a password-protected method of internet access. Such access will be removed from investigator sites at the end of the site's participation in the study. Data from the EDC system will be archived on appropriate data media (CD-ROM, etc.) and provided to the investigator at that time as a durable record of the site's eCRF data. It will be possible for the investigator to make paper printouts from that media.

Electronic Patient Reported Data:

Patient reported data must be completed for each subject screened/enrolled in this study. Some of these data are being collected with an Electronic Patient Reported Outcome (ePRO) system called Trialmanager, provided by the technology vendor Signant Health of Plymouth Meeting, PA, USA. The ePRO system is in compliance with Title 21 CFR Part 11. The documentation related to the system validation of the ePRO system is available through the vendor, Signant Health, while the user acceptance testing of the study-specific PRO design will be conducted and maintained at AbbVie.

The subject will be entering the data on an electronic device; these data will be uploaded to a server. The data on the server will be considered source, and maintained and managed by Signant Health.

The ePRO data will be collected electronically via a Tablet device into which the patient will directly enter the required pieces of information. The electronic device will be programmed to allow data entry for only the visits specified in the protocol and will not allow for patients to complete more than one of the same assessments at any one visit. All data entered on the device will be immediately stored to the device itself and automatically uploaded to a central server administrated by Signant Health. The Investigator and delegated staff will be able to access all uploaded patient entered data via a password protected website, up until the generation, receipt and confirmation of the study archive.



In cases of state-of emergency or pandemic situations, PROs may be administered within the study visit window on paper or over the telephone by site personnel directly to subjects per instructions from AbbVie, as local regulations allow.

Internet access to the ePRO data will be provided by Signant Health for the duration of the study. This access will be available for the duration of the study to the site investigator, as well as delegated personnel. Such access will be removed from investigator sites following the receipt of the study archive. Data from the ePRO system will be archived on appropriate data media (CD-ROM, etc.) and provided to the investigator at that time as a durable record of the site's ePRO data. It will be possible for the investigator to make paper print-outs from that media.

The assessments completed by the subject will be considered source documentation.

11.0 Data Quality Assurance

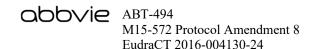
AbbVie will ensure that the clinical trial is conducted with a quality management system that will define quality tolerance limits in order to ensure human subject protection and reliability of study results. Data will be generated, documented, and reported in compliance with the protocol, ICH GCP, and applicable regulatory requirements.

Computer logic and manual checks will be created to identify items such as inconsistent study dates. Any necessary corrections will be made to the eCRF.

12.0 Use of Information

All information concerning upadacitinib, adalimumab and AbbVie operations, such as AbbVie patent applications, formulas, manufacturing processes, basic scientific data, or formulation information, supplied by AbbVie and not previously published is considered confidential information.

The information developed during the conduct of this clinical study is also considered confidential and will be used by AbbVie in connection with the development of

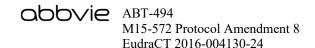


upadacitinib. This information may be disclosed as deemed necessary by AbbVie to other clinical investigators, other pharmaceutical companies, and to governmental agencies. To allow for the use of the information derived from this clinical study and to ensure complete and thorough analysis, the investigator is obligated to provide AbbVie with complete test results and all data developed in this study and to provide direct access to source data/documents for study-related monitoring, audits, IEC/IRB review, and regulatory inspection.

This confidential information shall remain the sole property of AbbVie, shall not be disclosed to others without the written consent of AbbVie, and shall not be used except in the performance of this study.

The investigator will maintain a confidential subject identification code list of all subjects enrolled in the study, including each subject's name, subject number, address, phone number and emergency contact information. This list will be maintained at the study site with other study records under adequate security and restricted access, and will not be retrieved by AbbVie.

Any exploratory research/validation studies that may be done using the samples from this study will be experimental in nature and the results will not be suitable for clinical decision making or patient management, hence, neither the investigator, the subject, nor the subject's physician (if different from the investigator) will be informed of individual subject results, should analyses be performed, nor will anyone not directly involved in this research. Correspondingly, researchers will have no access to subject identifiers. Individual results will not be reported to anyone not directly involved in this research other than for regulatory purposes. Aggregate exploratory research/validation studies from this study may be used in scientific publications or presented at medical conventions. The data from exploratory research/validation studies will be published or presented only in a way that does not identify any individual subject.



13.0 Completion of the Study

The investigator will conduct the study in compliance with the protocol and complete the study within the timeframe specified in the contract between the investigator (Director of the Site in Japan) and AbbVie. Continuation of this study beyond this date must be mutually agreed upon in writing by both the investigator (Director of the Site in Japan) and AbbVie. The investigator will provide a final report to the IEC/IRB following conclusion of the study and will forward a copy of this report to AbbVie or their representative.

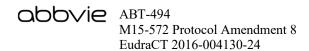
The Investigator (Director of the Site in Japan) must retain any records related to the study according to local requirements. If the investigator (Director of the Site in Japan) is not able to retain the records, he/she must notify AbbVie to arrange alternative archiving options.

AbbVie will select the signatory investigator from the investigators who participate in the study. Selection criteria for this investigator will include level of participation as well as significant knowledge of the clinical research, investigational drug and study protocol. The signatory investigator for the study will review and sign the final study report in accordance with the European Agency for the Evaluation of Medicinal Products (EMEA) Guidance on Investigator's Signature for Study Reports.

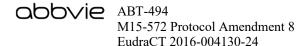
The start of the study is defined as the date of the first site activated.

A subject is considered to have completed the study if the subject completes the Period 2 Week 260 visit and the safety follow-up visit/phone call. The safety follow-up visit/phone call following the Week 260 visit is waived for subjects who participate in CTTP or begin commercially available upadacitinib or adalimumab. For subjects who enter CTTP, the study will be deemed completed after the Week 260 Visit is performed as shown in the Study Activities Schedule (Appendix C).

The end of study is defined as the date of end of study participation in Period 2 by the last subject in the last country where the study was conducted.



For a subject who is eligible for participation in CTTP, continued treatment access is optional and occurs following the subject's completion of the study at Week 260.



14.0 Investigator's Agreement

- 1. I have received and reviewed the Investigator's Brochure for upadacitinib and product labeling for Humira® (adalimumab).
- 2. I have read this protocol and agree that the study is ethical.
- 3. I agree to conduct the study as outlined and in accordance with all applicable regulations and guidelines.
- 4. I agree to maintain the confidentiality of all information received or developed in connection with this protocol.
- 5. I agree that all electronic signatures will be considered the equivalent of a handwritten signature and will be legally binding.

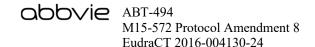
Protocol Title: A Phase 3, Randomized, Double-Blind, Study Comparing

Upadacitinib (ABT-494) to Placebo and to Adalimumab in Subjects with Active Psoriatic Arthritis Who Have a History of Inadequate Response to at Least One Non-Biologic Disease Modifying Anti-

Rheumatic Drug (DMARD) – SELECT – PsA 1

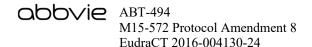
Protocol Date: 20 December 2023

Signature of Principal Investigator	Date	
Name of Principal Investigator (printed or typed)		

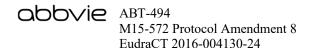


15.0 Reference List

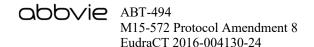
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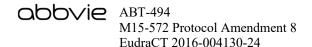
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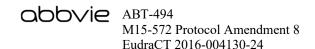
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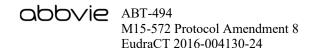
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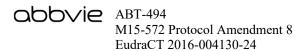
Appendix A. Responsibilities of the Clinical Investigator

Clinical research studies sponsored by AbbVie are subject to the Good Clinical Practices (GCP) and local regulations and guidelines governing the study at the site location. In signing the Investigator Agreement in Section 14.0 of this protocol, the investigator is agreeing to the following:

- 1. Conducting the study in accordance with the relevant, current protocol, making changes in a protocol only after notifying AbbVie, except when necessary to protect the safety, rights or welfare of subjects.
- 2. Personally conducting or supervising the described investigation(s).
- 3. Informing all subjects, or persons used as controls, that the drugs are being used for investigational purposes and complying with the requirements relating to informed consent and ethics committees (e.g., independent ethics committee [IEC] or institutional review board [IRB]) review and approval of the protocol and amendments.
- 4. Reporting adverse experiences that occur in the course of the investigation(s) to AbbVie and the site director.
- 5. Reading the information in the Investigator's Brochure/safety material provided, including the instructions for use and the potential risks and side effects of the investigational product(s).
- 6. Informing all associates, colleagues, and employees assisting in the conduct of the study about their obligations in meeting the above commitments.
- 7. Maintaining adequate and accurate records of the conduct of the study, making those records available for inspection by representatives of AbbVie and/or the appropriate regulatory agency, and retaining all study-related documents until notification from AbbVie.
- 8. Maintaining records demonstrating that an ethics committee reviewed and approved the initial clinical investigation and all amendments.

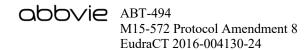


- 9. Reporting promptly, all changes in the research activity and all unanticipated problems involving risks to human subjects or others, to the appropriate individuals (e.g., coordinating investigator, institution director) and/or directly to the ethics committees and AbbVie.
- 10. Following the protocol and not make any changes in the research without ethics committee approval, except where necessary to eliminate apparent immediate hazards to human subjects.



Appendix B. List of Protocol Signatories

Name	Title	Functional Area
		Immunology Therapeutic Area
		Statistics



Appendix C. Study Activities

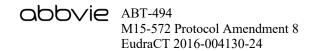
Activity	SCR D -35 to D -1	BL D	Wk 2 D 15	Wk 4 D 29	Wk 8 D 57	Wk 12 D 85	Wk 16 D 113	Wk 20 D 141	Wk 24 D 169	Wk 28 D 197	Wk 32 D 225	Wk 36 D 253	Wk 44 D 309	Wk 56 D 393	Wk 68 ^a to Wk 248 (Every 12 Wks) D 477 to D 1737	Wk 260 or PD D 1821	30 Day F/U Visit/ Call ^b D 1851	70- Day F/U Call ^b D 1877
Informed Consent ^c	X																	
Inclusion/Exclusion Criteria	X	X																
CASPAR Criteria	X																	
Medical/Surgical History ^d	X	X																
Vital Signs ^e /Weight/Height ^f	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Alcohol/Nicotine Use	X																	
Prior/Concomitant Therapy ^g	X	X	X	X	X	X	X	X	X	X	X	X ^g	X	X	X	X	X	
Physical Exam ^h	X	X							X					X	X^h	X		
12-Lead ECG	X ⁱ													X	X ⁱ			
															Yearly, only if required by local regulations			
Chest X-Ray ^{k,1}	X^k													X^{l}	X^{l}	X ^l		
Bilateral X-Rays of Hands and Feet ^{m,n}	X ^{m, n}						X ^m		X ^m					X ^m	X ^m	X ^m		
Serum Pregnancy Test at Central Lab ^o	X																	
Local Urine Pregnancy Test ^{p,q}		X	X	X	X	X	X	X	X	X	X	X^q	X^q	X^q	X^q	X	X	
Latent TB Risk Factor Questionnaire ^r	X													X	X^{r}	X		

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Activity	SCR D -35 to D -1	BL D 1	Wk 2 D 15	Wk 4 D 29	Wk 8 D 57	Wk 12 D 85	Wk 16 D 113	Wk 20 D 141	Wk 24 D 169	Wk 28 D 197	Wk 32 D 225	Wk 36 D 253	Wk 44 D 309	Wk 56 D 393	Wk 68 ^a to Wk 248 (Every 12 Wks) D 477 to D 1737	Wk 260 or PD D 1821	30 Day F/U Visit/ Call ^b D 1851	70- Day F/U Call ^b D 1877
Central Lab QuantiFeron TB Gold Test (and Local PPD Skin Test if Required) ^s	X													X	X ^s	X ^s		
Central Lab Tests ^t hs-CRP ^u Clinical Chemistry ^v Hematology (CBC) ^v Urinalysis ^w FSH ^x	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X^{hh}	
Central Lab Test ^t Total Cholesterol HDL-C LDL-C Triglycerides		X		X		X			X									
ESR (Local Lab)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Other Central Lab Tests HIV Screening ^j Hepatitis B ^y and C Screening Rheumatoid Factor Anti-CCP Antibodies ANA/Reflex Anti-dsDNA	X					X ^y			X ^y			X ^y			X ^y	X ^y		
Blood Samples for upadacitinib PK Assay ^{Z,aa}			X ^z	X ^z	X ^{aa}	X ^{aa}	X ^{aa}	X ^{aa}	X ^{aa}		X ^{aa}			X ^{aa}		X ^{aa}		

ABT-494 M15-572 Protocol Amendment 8 EudraCT 2016-004130-24

Activity	SCR D -35 to D -1	BL D	Wk 2 D 15	Wk 4 D 29	Wk 8 D 57	Wk 12 D 85	Wk 16 D 113	Wk 20 D 141	Wk 24 D 169	Wk 28 D 197	Wk 32 D 225	Wk 36 D 253	Wk 44 D 309	Wk 56 D 393	Wk 68 ^a to Wk 248 (Every 12 Wks) D 477 to D 1737	Wk 260 or PD D 1821	30 Day F/U Visit/ Call ^b D 1851	70- Day F/U Call ^b D 1877
Subject Questionnaires bb HAQ-DI Patient-Pain PtGA-Disease Activity	D-1	X	X	X	X	X	X	X	X	X	X	X	X	X	X X	X	1031	18//
Subject Questionnaires ^{bb} SF-36 EQ-5D-5L ⁱⁱ FACIT-F WPAI ⁱⁱ BASDAI		X				X			X			X		X	X	X		
Subject Questionnaire bb,cc SAPS		X					X		X			X		X	X ^{cc}	X ^{cc}		
Tender and Swollen Joint Counts	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Psoriatic Spondylitis Question		X																
PGA-Disease Activity		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
HRU		X				X			X			X		X	X	X		
BSA Psoriasis ^{cc}		X				X	X		X			X		X	X ^{cc}	X ^{cc}		
PASI ^{cc}		X				X	X		X			X		X	X ^{cc}	X ^{cc}		
sIGA ^{cc}		X				X	X		X			X		X	X ^{cc}	X ^{cc}		
Leeds Dactylitis Index (LDI)		X				X	X		X			X		X	X	X		
Leeds/SPARCC Enthesitis Indicies (LEI)		X				X	X		X			X		X	X	X		



	SCR D -35 to	BL D	Wk 2 D	Wk 4	Wk 8 D	Wk 12 D	Wk 16	Wk 20	Wk 24	Wk 28	Wk 32	Wk 36	Wk 44 D	Wk 56	Wk 68 ^a to Wk 248 (Every 12 Wks) D 477 to	Wk 260 or PD	30 Day F/U Visit/ Call ^b	70- Day F/U Call ^b
Activity	D -35 to	1	15	29	57	85	113	141	169	197	225	253	309	393	D 477 to D 1737	1821	1851	1877
Adverse Event Assessment ^{dd}	X ^{dd}	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Randomization		X																
Dispense Study Drug and Subject Diary ^{ee}		X		X	X	X	X	X	X	X	X	X	X	X	X^{jj}			
Calculation of TJC/SJC Responses ff,gg						X ^{ff}	X ^{ff}				X ^{gg}	X ^{gg}	X^{gg}	X ^{gg}	X ^{gg}			
Subject Diary Review			X	X	X	X	X	X	X	X	X	X	X	X	X^{jj}			

- a. These visits every 12 weeks are at: Wk 68, Wk 80, Wk 92, Wk 104, Wk 116, Wk 128, Wk 140, Wk 152, Wk 164, Wk 176, Wk 188, Wk 200, Wk 212, Wk 224, Wk 236, Wk 248.
- b. A 30-day follow-up visit/phone call will occur for all subjects on oral study drug approximately 30 days after the last dose of study drug to obtain additional safety information. Whenever laboratory results are needed for AE follow-up, the 30-day follow-up should be performed as a visit at the site. For those subjects who prematurely discontinue from the study (withdrawal of informed consent) a 30-day follow-up phone call (and not an on-site visit) may be allowed for subjects who have completed the PD visit to determine the status of any ongoing AEs/SAEs or the occurrence of any new AEs/SAEs. The 70-day follow-up phone call is to take place 70 days after the last dose of study drug. The 70-day follow-up phone call is also for those subjects who prematurely discontinue from the study (withdrawal of informed consent). Subjects completing the study on OL therapy will only be required to have the 30-day follow-up visit/phone call if on oral study drug and the 70-day follow-up call if on injectable study drug. The 30-day follow-up visit/phone call are not required for subjects who begin commercially available upadacitinib or adalimumab or who discontinued study drug and continued study participation with completion of at least one study visit approximately 30 days or 70 days after last dose of study drug, respectively. For subjects who enter CTTP, the 30-day follow-up visit/phone call following the last dose of study drug at the Week 260 visit will not be required.
- c. Obtain informed consent prior to performing any study related procedures.
- d. Note herpes zoster, herpes zoster vaccination, and hepatitis B vaccination status in medical history.
- e. Blood pressure, pulse rate, body temperature, body weight, and respiratory rate should be performed before blood draws are performed.
- f. Height will be measured at Screening visit only (with shoes off).

- g. For concomitant medications, at Week 36 (after Week 36 assessments have been performed), per Investigator judgment, may add non-biologic DMARDs (concomitant use of up to 2 non-biologic DMARDs, except the combination of MTX and leflunomide), or increase DMARD dose.
- h. For Period 1 (up to and including Week 56 visit), a full physical exam is required at the visits indicated. A symptom-directed physical exam may be performed when necessary. For Period 2 (after Week 56), a full physical exam is required approximately every 24 weeks (Wk 80, Wk 104, Wk 128, Wk 152, Wk 176, Wk 200, Wk 224, Wk 248 visits) and at the Wk 260/PD visit. A symptom-directed physical exam may be performed when necessary.
- i. For subjects with a normal ECG taken within 90 days of Screening, a repeat ECG at Screening will not be required; provided all protocol-required documentation is available and nothing has changed in the subject's health status since the time of the test that warrants a repeat test. If required by country regulatory authorities, an annual ECG will be performed.
- j. HIV testing will be performed at Screening. The Investigator must discuss any local reporting requirements to local health agencies with the subject. The site will report confirmed positive results to their health agency per local regulations, if necessary. If a subject has a confirmed positive result, the Investigator must discuss with the subject the potential implications to the subject's health and subject should receive or be referred for clinical care promptly. A subject will not be eligible for study participation if test results indicate a positive HIV infection.
- k. The screening chest x-ray will not be required if a subject had a previously normal chest-x-ray (posterior-anterior and lateral views) within 90 days of Screening, provided that all protocol-required documentation is available at the site and nothing has changed in the subject's health status since the time of the test that warrants a repeat test (refer to Section 5.3.1.1 for specific requirements).
- 1. Obtain a chest x-ray annually for subjects with one or more TB risk factors as identified by the TB risk assessment form, subjects living in areas endemic for TB, and subjects with a newly positive QuantiFERON-TB Gold test (and/or PPD skin test) after baseline. In the case a subject prematurely discontinues from the study drug a chest x-ray should not be performed if it has been less than 48 weeks since the last examination.
- m. X-rays of hands and feet will be performed for all subjects at Screening, Wk 24, Wk 56, Wk 104, Wk 152 and Wk 260/PD visits. All subjects who fail to attain at least 20% improvement in either or both TJC and SJC at Week 12 and Week 16 will have an x-ray examination at Week 16. An x-ray examination at Week 16 is not required for subjects with at least a 20% improvement in either or both TJC and SJC at Week 12 and Week 16. All subjects will receive x-rays of hands and feet if they discontinue from the study or from study drug at Week 12 or later and it has been at least 12 weeks from when x-rays were last obtained during Period 1 or at least 24 weeks during Period 2.
- n. Randomization is permitted prior to results of the central reading of hand and foot x-rays for eligibility if a subject has an elevated hs-CRP available from the central laboratory and all other criteria are met.
- o. For all women of childbearing potential, collect serum for pregnancy test at Screening and if any urine pregnancy test is positive at any time during the study. If the serum pregnancy test is positive the subject is considered a screen failure. If serum pregnancy test comes back borderline, a repeat test is necessary (pregnancy is an exclusion criterion). If still borderline ≥ 3 days later, this will be considered documentation of continued lack of a positive result and the subject can be enrolled into the study. Refer to Section 5.3.1.1 Study Procedures Pregnancy Test for additional details.

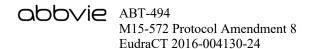
- p. For all female subjects of childbearing potential, collect urine for pregnancy test at Baseline and all subsequent visits. More frequent pregnancy tests will be performed throughout the study if required per local/country requirements. If urine pregnancy test (which is performed at the site) is negative, begin or continue dosing. If urine pregnancy test is positive, withhold dosing and perform a serum pregnancy test. Pregnant subjects must discontinue from study drug treatment. Refer to Section 5.3.1.1 Study Procedures Pregnancy Test for additional details.
- q. If time between visits is longer than one month, then collect the results of the monthly at home urine pregnancy test between scheduled visits. If a urine pregnancy test is positive, the subject must stop dosing, come into the clinic and have blood drawn for a serum pregnancy test that will be analyzed at the central laboratory. A pregnant or breastfeeding female will not be eligible for participation or continuation in this study. The monthly at home tests between scheduled on-site visits are to occur at Weeks 40, 48, 52, 60, 64, 72, 76, 84, 88, 96, 100, 108, 112, 120, 124, 132, 136, 144, 148, 156, 160, 168, 172, 180, 184, 192, 196, 204, 208, 216, 220, 228, 232, 240, 244, 252, and 256.
- r. Latent TB risk factor questionnaire will be obtained at Screening and annually thereafter through study participation. Refer to Section 5.3.1.1 for specific requirements for TB testing and TB Prophylaxis.
- s. TB testing will be performed at Screening and annually thereafter through study participation. In the case a subject prematurely discontinues from the study drug TB testing should not be performed if it has been less than 48 weeks since the last test was obtained. Refer to Section 5.3.1.1 for specific requirements for TB testing and TB Prophylaxis.
- t. Minimum 8-hour fast. If a subject is not able to fast when necessary, due to unforeseen circumstances, the non-fasting status will be recorded in study source documentation.
- u. Starting from Baseline (Day 1) the hs-CRP results will not be reported to the Sponsor, Investigator, study site personnel, or the subject. For safety evaluations of signs and symptoms of infection and management of adverse events, the investigator may locally test procalcitonin. Results of tests such as hs-CRP, and procalcitonin may be blunted in subjects taking a JAK inhibitor, thereby limiting the clinical utility of these tests in the setting of a possible safety assessment or adverse event management. Any local hs-CRP, CRP, or serial procalcitonin tests reported to the investigator until a subject is known to receive upadacitinib or until treatment allocation is unblinded will be recorded as protocol deviations.
- v. If required by country regulatory authorities, subjects who initiate or increase dose of MTX during the study should undergo ALT, AST, creatinine and CBC testing every 4 weeks for a 12-week period.
- w. A urine dipstick macroscopic urinalysis will be completed by the central laboratory at all required visits. A microscopic analysis will be performed in the event the dipstick results show leukocytes, nitrite, protein, ketones, or blood greater than negative or glucose greater than normal.
- x. FSH should be tested at Screening if the female subject is < 55 years of age AND has had no menses for ≥ 12 months AND has no history of permanent surgical sterilization (defined in Section 5.2.4).
- y. For China, Japan and South Korea, or where mandated by local requirements: for subjects with HBs Ab+ and/or HBc Ab+ and negative HBV DNA at Screening, the HBV-DNA PCR test should be performed again approximately every 12 weeks. Retesting approximately every 12 weeks is not necessary for subjects that have a history of HBV vaccine and HBs Ab+ and HBc Ab-. If necessary, HBV DNA PCR may be tested at unscheduled visits.
- z. At Week 2 and Week 4 visits, PK samples should be collected prior to oral study drug dosing and the subjects should take the study drug dose at the clinic after collecting the PK blood sample. However, if the subject normally takes the study drug dose at a time that is after the time of the scheduled study visit, the subject should follow the regular dosing schedule and the PK sample should be collected at any time during the visit.



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- aa. PK samples should be collected at any time during the visit. Subject should follow the regular dosing schedule. Collect PK samples at Week 8, Week 12, Week 16, Week 20, Week 24, Week 32, Week 56, and at PD visit only for subjects who prematurely discontinue from study drug treatment prior to Week 56. No PK sample collection is required at Week 260.
- bb. Prior to other study visit procedures.
- cc. PASI, BSA-Ps, sIGA, and SAPS are to be done at Week 80, Week 104, Week 128, Week 152, Week 176, Week 200, Week 224, Week 248 (every 24 weeks after the Week 56 visit) and at the final study visit (Week 260).
- dd. Collect serious adverse events and protocol-related non-serious AEs that occur after a subject signs the informed consent; prior to the first dose of study drug.
- ee. At Week 24, all placebo subjects will be switched to blinded upadacitinib regardless of clinical response.
- ff. At Week 16, subjects who do not achieve ≥ 20% improvement in either or both TJC and SJC compared to baseline at both Weeks 12 and 16 will be offered rescue therapy (see Section 5.2.3.4).
- gg. Starting at Week 36, subjects who failed to show at least 20% improvement in either or both TJC and SJC compared to baseline at 2 consecutive visits will be discontinued from study drug treatment.
- hh. Only blood chemistry and hematology.
- ii. After Week 152, administer these questionnaires every 6 months: EQ-5D-5L, WPAI.
- ij. After the Week 140 visit, Dosing Diaries will no longer be dispensed (except for subjects in China where the paper subject diary will continue to be dispensed).

Note: Visit window is ± 3 days for the first 36 weeks and ± 7 days for the remainder of the study. Any of the procedures may be performed at an unscheduled visit at the discretion of the Investigator.



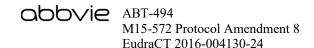
Appendix D. Study Activities – Optional Samples for Exploratory Research or Validation Studies

	SCR D – 35	BL D	Wk 2	Wk 4	Wk 8 D	Wk 12 D	Wk 16	Wk 20 D	Wk 24	Wk 28	Wk 32 D	Wk 36	Wk 44 D	Wk 56	Wk 68 to Wk 248 (Every 12 Wks) D 477 to	Wk 260 or PD
Activity	to D – 1	1	15	29	57	85	113	141	169	197	225	253	309	393	D 1737	1821
Pharmacogenetic Sample ^{a,b}		X														
Epigenetic Sample ^{a,b,c}		X	X			X										
Transcriptomic and Epigenetic Sample ^{a,b,c}		X	X			X										
Proteomic and Targeted Protein Investigations Sample (Serum) ^{a,b,c,d}		X	X			X										
Proteomic and Targeted Protein Investigations Sample (Plasma) ^{a,b,c,d}		X	X			X										
Proteomic and Targeted Protein Investigations Sample (Urine) ^{a,b,c,d}		X	X			X										

BL = Baseline Visit; D = Day; F/U = Follow-up; PD = Premature Discontinuation; SCR = Screening Visit; Wk = Week

- b. Optional with signed ICF: if the ICF is not signed, samples for exploratory research or validation studies will not be collected.
- c Subjects are preferred to have been fasting approximately 8 hours prior to collection.
- d. An effort should be made to collect prior to dosing.

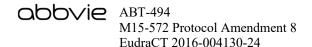
a. Based on the value of the different technologies, samples may also be used to assess other biomarker signatures, including but not limited to metabolomics, lipidomics and other approaches. Samples may be used for assay of study drugs if needed.



Appendix E. Latent TB Risk Assessment Form Example

- 1. Have you or an immediate family member or other close contact ever been diagnosed or treated for tuberculosis?
- 2. Have you lived in or had prolonged travels to countries in the following regions:
 - Africa
 - Eastern Europe
 - Asia
 - Russia
 - Latin America
 - Caribbean Islands
- 3. Have you lived or worked in a prison, refugee camp, homeless shelter, immigration center, or nursing home?
- 4. Have you, or an immediate family member, had any of the following problems for the past 3 weeks or longer:
 - Chronic Cough
 - Production of Sputum
 - Blood-Streaked Sputum
 - Unexplained Weight Loss
 - Fever
 - Fatigue/Tiredness
 - Night Sweats
 - Shortness of Breath

From: http://www.mayoclinic.org/diseases-conditions/tuberculosis/home/ovc-20188556 http://www.in.gov/fssa/files/Tuberculosis Questionnaire.pdf



Appendix F. Injection Instructions – Sample Pre-Filled Syringe

Injection Instructions – Sample Pre-Filled Syringe

Subject Instructions

0.8 mL dose

(Administered as a single dose-pre-filled syringe)

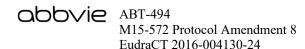
Protocol M15-572

Tables of Contents

Dosing Schedule

General Information & Supplies

Injection Procedures



Study Drug Dosin	ng Schedule	
Subject Number:		

You will require subcutaneous (SC) injections during the study. You will receive a kit each visit containing 2 syringes.

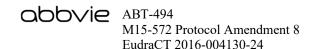
You will receive the following number of injections during this study:

- Baseline visit (the first visit to receive study medication for this study) you will receive 1 injection at the clinic (self-administer or receive help from site staff).
- You will receive either active study medication or placebo every other week throughout the blinded study period. You or a trained designee will inject your study drug.
- After all subjects have completed the blinded period you will only receive SQ injections if you continue on open-label adalimumab.

You should complete your injections the same day and approximately the same time every other week. If you forget to inject your study drug on your regularly scheduled dosing date, you should inject the forgotten dose as soon as you remember the dose was missed up to the day before the next scheduled dose. Two injections should not be administered on the same day.

If you experience a study drug interruption of > 2 consecutive missed doses during the first 24 weeks or > 3 consecutive missed doses after Week 24, you should notify your study site physician, and you should be discontinued from study drug. If study drug treatment is interrupted or withdrawn in Periods 1 or 2, study drug administration must be stopped.

Study drug kits containing 2 syringes will be provided for at home dosing, as needed.



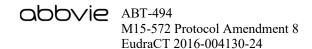
Please return all used and unused syringes, the sharps container and empty boxes to the clinic on your next visit. Used syringes should be placed in the special Sharps container provided. All unused syringes should be returned in the original box.

If an injection is missed or something occurs where the full dose cannot be injected, contact your study center immediately for further instructions. Please record any missed doses on your subject dosing sheet.

Remember to complete your dosing sheet after each injection and to call the doctor's office if you are having problems administering your study medication.

General Information

- Pre-filled syringes with study medication will be labeled "Adalimumab or Placebo" during the blinded period and "Adalimumab" during the open label period.
- Store all pre-filled syringes in your refrigerator at 36°F to 46°F (2°C to 8°C) in the original container until it is used. NOT in the freezer. Should the syringes accidentally become frozen, call your study doctor's office.
- Protect the study medication from light.
- When traveling, study medication should be stored in a cool carrier with an ice pack.
- Do not use a prefilled syringe if the liquid is cloudy, discolored, or has flakes or particles in it.
- Do not drop or crush the study medication. The prefilled syringe is glass.
- Study medication should be taken at about the same time of day, on the same day of the week as directed by your study doctor.
- USE A NEW SYRINGE EVERY INJECTION DAY. There may be medication left in the syringe. **DO NOT RE-USE**.
- Save all study medications. *Pre-filled syringes* (<u>used and unused</u>) & <u>empty</u> <u>boxes must be returned to the study center at each visit</u>. Used syringes will be disposed of in a sharps container provided to you.



- Call your doctor IMMEDIATELY if you experience any itching, hives, shortness of breath, or any symptom that has you concerned. If you are unable to reach your doctor or if you experience life-threatening symptoms call, or proceed to your nearest emergency room.
- Keep study medication, injection supplies, and all other medicines out of the reach of children.

Injection Procedures (PFS)

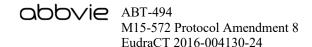
1. Setting up for an injection

- Find a clean flat surface.
- Do not use if the seals on the carton are broken or missing. Contact your study doctor's office if the seals are broken.
- Take one kit with the prefilled syringe(s) of study drug from the refrigerator.

 Do not use a prefilled syringe that has been frozen or if it has been left in direct sunlight.
- Return any unused syringe(s) to the refrigerator.
- You will need the following items for each dose:
- study medication in pre-filled syringe(s)
- alcohol prep(s)
- cotton ball(s) or gauze pad(s)



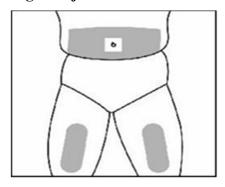
If you do not have all of the items you need to give yourself an injection, call your study physician. Use only the items provided in the box your study drug comes in.



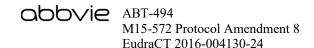
- Make sure the liquid in the prefilled syringe is clear and colorless. Do not use a prefilled syringe if the liquid is cloudy or discolored or has flakes or particles in it.
- Have a special sharps (puncture proof) container nearby for disposing of used needles and syringes.

For your protection, it is important that you follow these instructions.

2. Choosing and preparing an injection site



- Wash and dry your hands well
- Choose a site on the front of your thighs or your stomach area (abdomen). If you choose your abdomen, you should avoid the area 2 inches around your belly button (navel).
- Choose a different site each time you give yourself an injection. Each new injection should be given at least one inch from a site you used before.
 - **Never** inject into areas where the skin is tender, bruised, red or hard or where you have scars or stretch marks.
- If you have psoriasis, you should try not to inject directly into any raised, thick, red or scaly skin patches or lesions.
- You may find it helpful to keep notes on the location of your injection sites.
- Wipe the injection site with an alcohol prep (swab) using a circular motion.
- Do **not** touch this area again until you are ready to inject.



3. How to prepare your study drug dose for injection with a Prefilled Syringe

- Hold the syringe upright with the needle facing down.
- Check to make sure that there is liquid in the pre-filled
- The top of the liquid may be curved.
- If the syringe does not have liquid, do not use that syringe and call your study doctor.

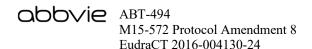
If the syringe does not have the correct amount of liquid, do not use that syringe. Call your study doctor.

- Remove the needle cover taking care not to touch the needle with your fingers or allow it to touch any surface.
- Turn the syringe so the needle is facing up and slowly push the plunger in to push the air in the syringe out through the needle. If a small drop of liquid comes out of the needle that is okay.
- Do not shake the syringe.

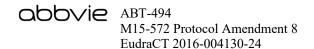
4. Injecting your study drug dose



- With your other hand, gently squeeze an area of the cleaned area of skin and hold it firmly.
- You will inject into this raised area of skin. Hold the syringe like a pencil at about a 45° angle (see picture) to the skin.
- With a quick, short, "dart-like" motion, push the needle into the skin.



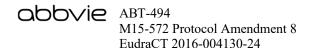
- After the needle is in, let go of the skin. Pull back slightly on the plunger. If blood appears in the syringe it means that you have entered a blood vessel. Do not inject the study drug. Pull the needle out of the skin and repeat the steps to choose and clean a new injection site. Do not use the same syringe. Dispose of it in your special sharps container. If no blood appears, slowly push the plunger all the way in until all of the study drug is injected.
- When the syringe is empty, remove the needle from the skin keeping it at the same angle it was when it was pushed into the skin.
- Press a cotton ball or gauze pad over the injection site and hold it for 10 seconds. Do not rub the injection site. You may have slight bleeding. This is normal.
- Dispose of the syringe right away into your special sharps container.



Appendix G. The CASPAR Criteria

To meet the CASPAR (Classification criteria for Psoriatic ARthritis) criteria,* a patient must have inflammatory articular disease (joint, spine, or entheseal) with ≥ 3 points from the following 5 categories:

- 1. Evidence of current psoriasis, a personal history of psoriasis, or a family history of psoriasis (one of a, b, c).
 - a. Current psoriasis is defined as psoriatic skin or scalp disease present today as judged by a rheumatologist or dermatologist.[†]
 - b. A personal history of psoriasis is defined as a history of psoriasis that may be obtained from a patient, family physician, dermatologist, rheumatologist, or other qualified health care provider.
 - c. A family history of psoriasis is defined as a history of psoriasis in a first- or second-degree relative according to a patient report.
- 2. Typical psoriatic nail dystrophy including onycholysis, pitting, and hyperkeratosis observed on current physical examination.
- 3. A negative test result for the presence of rheumatoid factor by any method except latex but preferably by enzyme-linked immunosorbent assay or nephelometry, according to the local laboratory reference range.
- 4. Either current dactylitis, defined as swelling of an entire digit, or a history of dactylitis recorded by a rheumatologist.
- 5. Radiographic evidence of juxta-articular new bone formation, appearing as ill defined ossification near joint margins (but excluding osteophyte formation) on plain radiographs of the hand or foot.
- * The CASPAR criteria have specificity of 98.7% and sensitivity of 91.4%.
- † Current psoriasis is assigned a score of 2; all other features are assigned a score of 1.



Appendix H. Local Requirements

Canada

Section 5.2.1, Inclusion Criteria

11. If female of childbearing potential, must be practicing at least two reliable methods of contraception (one highly effective method combined with one effective method or two highly effective methods, refer to Section 5.2.4), that are effective from Study Day 1 through at least 150 days after the last dose of subcutaneous study drug and through at least 30 days after the last dose of oral study drug.

Section 5.2.4, Contraception Recommendations

Contraception Recommendation for Females

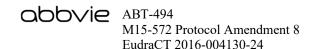
A woman who is postmenopausal, permanently surgically sterile (bilateral oophorectomy, bilateral salpingectomy or hysterectomy), or permanently infertile is not considered to be a woman of childbearing potential and is not required to follow contraception recommendations.

Postmenopausal is defined as:

- Age \geq 55 years with no menses for 12 or more months without an alternative medical cause; or
- Age < 55 years with no menses for 12 or more months without an alternative medical cause AND a FSH level \ge 30 IU/L.

Non-surgical permanent infertility is defined as:

• Mullerian agenesis, androgen insensitivity, or gonadal dysgenesis; investigator discretion should be applied to determining study entry for these individuals.



If the female subject is < 55 years of age:

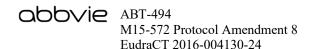
- AND has had no menses for ≥ 12 months AND has no history of permanent surgical sterilization (defined above), FSH should be tested at Screening.
- If FSH is not tested, it is assumed that the subject is of childbearing potential and protocol-specified contraception is required.
- If the FSH is tested and the result is consistent with post-menopausal status, contraception is not required.
- If the FSH is tested and the result is consistent with pre-menopausal status, contraception is required, and a serum pregnancy test must be performed (see Section 5.3.1.1 pregnancy test).

For a female subject at any age:

- Female subjects with menses within the past 12 months are of childbearing potential and FSH is therefore not required but contraception is required.
- Female subjects who are surgically sterile (defined above) are not of childbearing potential and therefore no FSH testing or contraception is required.

A woman who does not meet the definition of postmenopausal, permanently surgically sterile, or permanently infertile is considered of childbearing potential and is required to practice two forms of contraception. This includes one form of highly effective contraception and one effective method of contraception. That is effective from Study Day 1 (or earlier) through at least 150 days after the last dose of subcutaneous study drug and through at least 30 days after the last dose of oral study drug.

- Highly effective methods:
 - Hormonal contraceptives started at least 2 months prior to randomization (e.g., combined [estrogen and progestogen containing] [oral contraceptives, patch, vaginal ring, injectables, and implants);
 - Intrauterine device (IUD) or intrauterine system (IUS);
 - Vasectomy and tubal ligation.



• Effective methods:

- Barrier methods of contraception (e.g., male condom, female condom, cervical cap, diaphragm, contraceptive sponge)
- Note: The proper use of diaphragm or cervical cap includes use of spermicide and is considered one barrier method. The cervical cap and contraceptive sponge are less effective in parous women. The use of spermicide alone is not considered a suitable barrier method for contraception. When used consistently and correctly, "double barrier" methods of contraception (e.g., male condom with diaphragm, male condom with cervical cap) can be used as an effective alternative to the highly effective contraception methods described above. Male and female condoms should not be used together as they can tear or become damaged.

South Korea

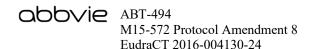
Section 5.2.4, Contraception Recommendations

Contraception Recommendation for Females

A woman who is postmenopausal, permanently surgically sterile (bilateral oophorectomy, bilateral salpingectomy or hysterectomy), or permanently infertile is not considered to be a woman of childbearing potential and is not required to follow contraception recommendations.

Postmenopausal is defined as:

- Age ≥ 55 years with no menses for 12 or more months without an alternative medical cause; or
- Age < 55 years with no menses for 12 or more months without an alternative medical cause AND a FSH level \ge 30 IU/L.



Non-surgical permanent infertility is defined as:

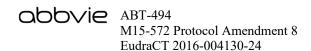
• Mullerian agenesis, androgen insensitivity, or gonadal dysgenesis; investigator discretion should be applied to determining study entry for these individuals.

A woman who does not meet the definition of postmenopausal, permanently surgically sterile, or permanently infertile is considered of childbearing potential and is required to practice at least one of the following highly effective methods of birth control that is effective from Study Day 1 (or earlier) through at least 150 days after the last dose of subcutaneous study drug and through at least 30 days after the last dose of oral study drug.

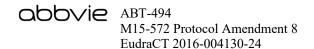
- Combined (estrogen and progestogen containing) hormonal contraception (oral, intravaginal, transdermal) associated with the inhibition of ovulation, initiated at least 30 days prior to Study Day 1.
- Progestogen-only hormonal contraception (oral, injectable, implantable) associated with inhibition of ovulation, initiated at least 30 days prior to Study Day 1.
- Bilateral tubal occlusion/ligation.
- Vasectomized partner(s), provided the vasectomized partner has received medical confirmation of the surgical success and is the sole sexual partner of the women of childbearing potential trial participant.
- Intrauterine device (IUD).
- Intrauterine hormone-releasing system (IUS).

If required per local practices, male or female condom with or without spermicide OR cap, diaphragm or sponge with spermicide should be used in addition to one of the highly effective birth control methods listed above.

It is important to note that contraception recommendations described above are specifically intended to prevent pregnancy during exposure to the investigational



therapies. Contraception recommendations related to use of concomitant therapies prescribed per standard of care should be based on the local label.



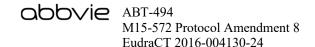
Appendix I. Continued Treatment for Trial Participants (CTTP)

Directions are found throughout this appendix for sites in countries that require continued treatment in accordance with local regulations until such time when upadacitinib is commercially available and/or the subject can access treatment locally.

As subjects approach Week 260 in Period 2, the investigator will discuss the appropriate subsequent treatment with the subject. If the subject and investigator determine continued therapy with upadactinib remains the best course of treatment, AbbVie will work with the investigator to evaluate a path for continued treatment in accordance with local regulations until upadacitinib is commercially available and/or the subject can access treatment locally. Subjects in applicable countries will be evaluated every 12 weeks until the end of CTTP (see Study Activities Table – CTTP Study Activities Table After Period 2 Week 260 for details). Safety information will continue to be collected for subjects who enter CTTP. Efficacy data will not be collected during CTTP. Overall management and monitoring of safety during CTTP is the responsibility of the investigator.

When upadacitinib is commercially available and/or the subject can access treatment locally, subjects will be brought in for a final CTTP visit.

Participating sites in applicable countries will be provided with estimated dates of when the subjects' final CTTP visits are expected to occur for planning purposes. It is acknowledged that these dates may change at any time during the course of the regulatory approval/reimbursement process. The final visit dates will be communicated to the sites based on actual approval/reimbursement dates or if decision to discontinue pursuit of regulatory approval/reimbursement is made. In the event regulatory approval, local reimbursement, or the decision to discontinue pursuit of regulatory approval/reimbursement occurs at a time point different than the estimated dates, subjects should then be brought in for their termination visit based on the actual date as provided by AbbVie. AbbVie reserves the right to terminate the study at any time.



Concomitant Medications

For subjects who receive open-label treatment with upadacitinib 15 mg QD during CTTP, addition or modification of concomitant medications can be made per Investigator judgement regardless of the disease activity status.

CTTP Study Activities Table After Period 2 Week 260

Activity ^a	Week 260	Every 12 weeks/Final Visit ^{b,c}	Unscheduled Visit ^d	30-Day F/U Visit or Phone Call ^e
Informed Consent	X			
Concomitant Therapy	X	X	X	X
Local Urine Pregnancy Test ^{f, g}	X	X	X	
Adverse Event Assessment	X	X	X	X
Dispense Study Drug	X	X (excludes Final Visit)		

- a. Any other procedures and/or evaluations necessary per local requirements or for the care of the subject are the responsibility of the investigator.
- b. Visit intervals for CTTP are to be scheduled starting from the Week 260 visit date based on the schedule established by the Baseline Visit date.
- c. When the subject can access upadacitinib locally, the subject should return as soon as possible to complete their final CTTP visit.
- d. Unscheduled Visits are performed when subjects come in for a medical visit for evaluation and assessment. Visits for dispensing new study drug in case of temperature excursion, loss, or damage, are not considered an Unscheduled Visit.
- e. A follow-up visit/phone call will occur for all subjects approximately 30 days after the last dose of study drug to obtain additional safety information. Whenever laboratory results are needed for AE follow-up, the 30-day follow-up should be performed as a visit at the site. The 30-day follow-up visit/phone call will not occur for subjects who begin commercially available upadacitinib.
- f. For all female subjects of childbearing potential, collect urine for pregnancy test at all subsequent visits. More frequent pregnancy tests will be performed throughout CTTP if required per local/country requirements. If urine pregnancy test (which is performed at the site) is negative, begin or continue dosing. If urine pregnancy test is positive, withhold dosing and perform a serum pregnancy test at a local laboratory. Refer to Section 5.3.1.1 for additional details.
- g. If time between visits is longer than one month, collect the results of the monthly at home urine pregnancy test between scheduled visits. If a urine pregnancy test is positive, the subject must stop dosing, return to the clinic and have blood drawn for a serum pregnancy test performed at a local laboratory.