

Thomas Jefferson University
Informed Consent Document for Human Subjects Research

Department: Neurology / Jefferson Headache Center

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12 **Medical Study Title:** A Double-Blind, Placebo-Controlled Pilot Study to Collect and Evaluate
13 Data on the Use of Intravenous Ibuprofen in the Treatment of an Acute Migraine Attack
14 (Protocol Number: SDS/IVIb/01)

16 **Lay Study Title:** A Research Study to Evaluate the Safety and Effectiveness of Intravenous (IV)
17 Ibuprofen for the Treatment of One Migraine Headache.

What Is Informed Consent?

21 You are being asked to take part in a medical research study. As required by federal regulations,
22 this research study has been reviewed and approved by an Institutional Review Board (IRB), a
23 University committee that reviews, approves and monitors research involving humans. Before
24 you can make a knowledgeable decision about whether to participate, you should understand the
25 possible risks and benefits related to this study. This process of learning and thinking about a
26 study before you make a decision is known as *informed consent* and includes:
27

- Receiving detailed information about this research study;
- Being asked to read, sign and date this consent form, once you understand the study and have decided to participate. If you don't understand something about the study or if you have questions, you should ask for an explanation before signing this form;
- Being given a copy of the signed and dated consent form to keep for your own records.

34 You should understand that your relationship with the study doctor is different than your
35 relationship with your treating or personal doctor. The treating doctor treats a specific health
36 problem with the goal of improving a medical condition. A study doctor treats all subjects
37 according to a research plan to obtain information about the experimental drug, device or
38 procedure being studied and with the understanding that you may or may not benefit from being
39 in the study. You should ask questions of the study doctor if you want to know more about this.

41 The type of study you are being asked to join is known as a pilot study. A pilot study is a
42 preliminary study involving a small number of subjects. Information from this small study may
43 be used to help design future larger studies.

Thomas Jefferson University IRB
Approval Date 6-1-17
Expiration Date 5-31-18
Annual review due 6 weeks before expiration

45 **What is the purpose of this study?**

46 Patients that present to an ambulatory acute care setting or emergency room with a severe
47 migraine have a limited number of effective treatment options. Because patients with migraine
48 often have nausea, vomiting or digestive disturbances, oral medications are often not effective.
49 The purpose of this study is to evaluate the effectiveness of ibuprofen, given intravenously
50 (through a vein in the arm or hand), for the treatment of a moderate or severe migraine headache.
51

52 Ibuprofen is the active ingredient in over the counter oral medications, such as Motrin and Advil.
53 It is also available in oral form in a stronger, prescription strength. The intravenous form of
54 ibuprofen has been approved by the FDA for the treatment of pain and for the treatment of fever.
55 This study will specifically look at IV ibuprofen for the treatment of migraine pain.
56

57 **How many individuals will participate in the study and how long will the study last?**

58 This study will only take place at the Jefferson Headache Center. We plan to screen
59 approximately 150 patients at Jefferson. Your involvement in the study will last about 6 months.
60 The entire study will take about 12 months to complete.
61

62 **What will I have to do during the study?**

63 This study consists of 3 visits to the Jefferson Headache Center:

- 64 • Screening Visit (Visit #1)
- 65 • Treatment Visit (Visit #2)
- 66 • Final Visit (Visit #3)

67 It is possible that Visit #1 and Visit #2 will be combined and may occur as a single visit.
68

69 During the first visit (screening visit) you will be asked to read this informed consent form. You
70 have the option to take this consent form home for review and discussion with other physicians
71 and/or family members. You will be asked to sign and date this informed consent form, provided
72 that all of your questions have been answered to your satisfaction and you agree to participate. In
73 addition, the following procedures will be performed during your screening visit:
74

75 ***Screening: Visit 1***

- 76 □ Medical history
- 77 □ Headache History
- 78 □ Urine pregnancy test for women of childbearing potential
- 79 □ Physical and neurological examination performed by study physician
- 80 □ Blood pressure and pulse measurements
- 81 □ Height and weight measurements
- 82 □ Collection of blood for chemistry (salts and labs for kidney function), hematology (white
83 blood cells, red blood cells and platelets) - (approximately 3 teaspoons of blood will be
84 withdrawn.)
- 85 □ Detailed medication history

86 It is important that you inform the study physician and study coordinator of all medications that
87 you take, including over-the-counter vitamins and herbs, so that we can determine if you are
88 eligible to participate in the study and to minimize the risk of a drug interaction with the study
89
90

91 drug. Additionally, if, during the course of your study participation, you start a new medication,
92 it is important for you to inform the research staff of the change.
93

94 **Treatment Visit:** (visit may occur on same day as screening visit, but must occur within 6
95 months from screening visit)
96

97 If you qualify to continue in the treatment phase of the study, you will be asked to call the
98 Jefferson Headache Center when you think that you have a headache that qualifies for study
99 treatment: moderate or severe headache pain intensity, within 6 hours of the onset of headache
100 pain, and you have not taken an analgesic (pain) medication, within 24 hours. The study
101 coordinator will review your headache history with you by phone and determine if you should
102 come to the headache center for treatment with study drug.
103

104 If you qualify to come into the headache center for treatment of your headache, we update your
105 health and medication history, take your pulse and blood pressure before treatment, perform a
106 urine pregnancy test if you are a woman of childbearing potential, and teach you how to
107 complete your paper headache diary. You will then be randomized (assigned by chance, like the
108 flip of a coin) to either ibuprofen or placebo (placebo is saline - salt water without active drug).
109 You have a 50% chance of receiving either ibuprofen or placebo.
110

111 Since this is a double-blind study, neither you nor the research staff will know if you are on
112 placebo or study drug. However, in the event of an emergency, the medication code can be
113 broken to identify what medication you have taken.
114

115 Both the ibuprofen and placebo will be administered to you intravenously (IV) through a vein in
116 your hand or arm. A small needle will be inserted into a vein in your hand or arm. The needle
117 will be attached to a long, narrow tube, which, in turn, attaches to a plastic container. Either
118 placebo or active medication will be slowly infused (flow from the container, through the tube,
119 and into your vein.)
120

121 Your pulse and blood pressure will be checked every 30 minutes, after the administration of
122 study medication, until you are discharged to home. You also will be asked to complete your
123 diary, which assess the intensity of your headache pain, the presence of associated migraine
124 symptoms, and your ability to function at the time points listed below.
125

126 If you still have a moderate to severe headache at 2 hours after the study drug dose (either
127 ibuprofen or placebo), you can receive a dose of active drug as a rescue. (Everyone can receive
128 ibuprofen; no one will receive placebo as rescue). If you receive IV ibuprofen rescue
129 medication, you will remain at the Jefferson Headache Center for additional monitoring (pulse,
130 blood pressure) every 30 minutes for an additional 2 hours and assessment of your headache
131 symptoms.
132

133 Summary of steps for treatment visit:

134 ▪ If eligible headache occurs after the screening visit has been completed, call the Jefferson
135 Headache Center at the onset of qualifying migraine attack. Study coordinator will
136 determine whether you can treat this attack.
137 ▪ Blood pressure and pulse measurements pre-dose

138 ▪ Urine pregnancy test for women of childbearing potential
139 ▪ Inform study staff of any changes in concomitant medications and/or medical conditions
140 since screening visit
141 ▪ Review of headache diary
142 ▪ Migraine pain and associated symptoms assessments at pre-dose, 15 minutes, 30 minutes, 1
143 hour, 1 ½ hours, 2 hours. The 4 hours, 8 hours and 24 hours post-dosing assessments will be
144 performed at home. (*However, if you received rescue IV ibuprofen at 2 hours after study*
145 *drug, you will still be at the Jefferson Headache Center at the 4 hour time point, and will*
146 *complete the 4 hour diary in the clinic.*)
147 ▪ Administration of study drug 800 mg. (ibuprofen/placebo) in 250 ml of normal saline over 7-
148 10 minutes. (Infusion time may be increased up to 1 hour if necessary).
149 ▪ Vital signs (pulse and blood pressure) 30 minutes, 1-hour and 2-hours post-dosing.
150 ▪ If you still have a moderate to severe headache at 2 hours after receiving double-blind study
151 drug, you will receive a rescue dose of 800 mg. IV Ibuprofen and will be monitored for an
152 additional 2 hours.
153 ▪ Inform research staff of any adverse events experienced.
154 ▪ You will be discharged from the headache center at 2 hours after your dose of double-blind
155 study medication if you have headache relief, or when it is clinically indicated. If you do not
156 have headache relief at 2 hours after study medication administration, you may receive IV
157 ibuprofen rescue and will be observed at the Jefferson Headache Center for an additional 2
158 hours.
159

160 It is possible that you may receive up to 1600 mg of IV Ibuprofen in a 24 hour period (800 mg.
161 as double-blind treatment and 800 mg. as optional rescue), but this is not standard treatment and
162 has not been extensively studied.

163
164 At approximately 24 hours after your dose of IV study medication, the study coordinator will
165 contact you by telephone. The coordinator will ask you if you have had any side effects and if
166 you have properly completed your headache diary. You must return to the headache center for
167 your Study Termination Visit (Visit 3), within 7 days of your treatment with study drug.
168

169 **Termination Visit:** Visit to occur within 7 days from Treatment Visit

170 ▪ Coordinator will collect and review your take-home diary
171 ▪ Coordinator will ask you about any changes in your medications and/or medical conditions
172 since your last visit
173 ▪ Coordinator will ask you about any adverse events that you may have experienced.
174

175 **What are the risks or discomforts involved?**

176 IV ibuprofen has been well tolerated. There is a risk that your headache pain may not improve
177 or may even worsen. Additional risks include the following:
178

179 Cardiac (heart) and circulatory problems:

180 Ibuprofen is a non-steroidal anti-inflammatory (NSAID) drug. This class of drugs has been
181 associated with heart and circulation problems, as serious as heart attack and stroke, which can
182 be fatal. Patients with known cardiovascular disease may be at increased risk, although it is
183 possible that these problems could occur in someone who does not have a history of heart

184 disease. Our study will not include subjects with known cardiovascular disease or risk factors
185 for cardiovascular disease that the investigator feels should prohibit study participation. It is
186 important to inform the study personnel if you have any history of heart failure, heart attack,
187 stroke, or TIAs.
188

189 **Gastrointestinal Effects: Risk of Ulceration, Bleeding, and Perforation**

190 NSAIDs, including ibuprofen, can cause serious gastrointestinal adverse events including
191 inflammation, bleeding, ulceration, and perforation of the stomach, small intestine, or large
192 intestine. Upper gastrointestinal ulcers, gross bleeding, or perforation caused by NSAIDs occur
193 in approximately 1% of patients treated for 3-6 months and in about 2-4% of patients treated for
194 one year. Longer duration of NSAID use increases the likelihood of developing a serious
195 gastrointestinal event at some time during the course of therapy. However, even short-term
196 therapy is not without risk. Subjects participating in this study will only be treating one
197 headache with the IV ibuprofen. It is important to inform your study coordinator or physician if
198 you have a history of peptic ulcer or gastrointestinal bleed, or if you are using oral
199 corticosteroids or anticoagulants, since this could place you at greater risk.
200

201 **Hepatic (Liver) Effects**

202 Small elevations of one or more liver tests may occur in up to 15% of patients taking NSAIDs,
203 including ibuprofen. Significant elevations of liver function tests (approximately three or more
204 times the upper limit of normal) have been reported in approximately 1% of patients in clinical
205 trials with NSAIDs. In addition, rare cases of severe hepatic reactions have been reported,
206 including jaundice (skin and membranes [such as the whites of the eyes] turn a yellowish or a
207 yellow-brown color), fulminant (overwhelming) hepatitis, liver necrosis (destruction of liver
208 tissue), and hepatic (liver) failure, some with fatal outcomes. Our study will not include subjects
209 with a history of liver disease. Additionally, we will be obtaining serum chemistry at the
210 screening visit, to ensure that our subjects have normal baseline liver function tests and are
211 eligible to participate.
212

213 **Hypertension (high blood pressure)**

214 NSAIDs, including ibuprofen, can lead to onset of new hypertension or worsening of pre-
215 existing hypertension. Patients taking certain anti-hypertensive medications may have impaired
216 response to these therapies when taking NSAIDs. Our study will exclude subjects with
217 uncontrolled hypertension and subjects taking any of the following classes of medications for
218 high blood pressure: angiotensin-converting enzyme inhibitors (ACE inhibitors), thiazides, or
219 loop diuretics. It, therefore, is important that you inform your research physician or coordinator
220 of all medications that you are taking. If you qualify for study participation, your vital signs,
221 including BP will be assessed at baseline, then every 30 minutes through 2 hours after dosing
222 with study medication and for 2 hours after receiving IV ibuprofen rescue.
223

224 **Congestive Heart Failure and Edema (fluid retention)**

225 Fluid retention and edema have been observed in some patients taking NSAIDs. Subjects with a
226 history of heart failure will be excluded from the study.
227
228
229

230 Renal (Kidney) Effects

231 Long-term administration of NSAIDs has resulted in kidney damage, such as renal papillary
232 necrosis and other renal injury. Patients at greatest risk of renal toxicity include those with
233 impaired kidney function, heart failure, liver disease, those taking certain blood pressure
234 medications, such as diuretics or ACE inhibitors, and the elderly. This study will exclude
235 subjects with impaired hepatic (liver) or renal (kidney) function. As part of the study, we will
236 obtain serum chemistry, including liver function tests and tests of kidney function (blood urea
237 nitrogen and creatinine levels).

238 Anaphylactoid Reactions

239 As with other NSAIDs, anaphylaxis (severe, life-threatening allergic reaction) may occur in
240 patients without known prior exposure to ibuprofen. It is also possible that a less severe allergic
241 reaction could occur. Our study will exclude subjects with a history of allergy or
242 hypersensitivity to any component of IV ibuprofen, aspirin (or aspirin related products),
243 NSAIDs.

244 Serious Skin Reactions

245 NSAIDs, including ibuprofen, can cause rare but very serious skin adverse reactions such as
246 exfoliative dermatitis (rash characterized by redness, scaling and peeling), Stevens-Johnson
247 Syndrome (a severe, potentially life-threatening disorder of the skin and mucous membranes),
248 and toxic epidermal necrolysis (a very rare, but very severe skin disorder related to Stevens-
249 Johnson Syndrome), which can be fatal. These rare, but serious events may occur without
250 warning.

251 Hematological Effects

252 Anemia may occur in patients receiving NSAIDs, including ibuprofen. This may be due to fluid
253 retention, gastrointestinal blood loss, or an effect on erythropoiesis (the formation of red blood
254 cells in the body). NSAIDs can also inhibit platelet (a type of blood cell important in clotting)
255 function. Subjects with clinically significant anemia, bleeding problems or platelet problems
256 will be excluded from the study. Additionally, we will obtain blood to check hematology (white
257 blood cells, red blood cells and platelets) at screening.

258 Pre-existing Asthma

259 Patients with asthma may have aspirin-sensitive asthma. Our study will exclude subjects with a
260 history of asthma.

261 Ophthalmological Effects

262 Blurred or diminished vision and changes in color vision have been reported with oral ibuprofen.

263 Aseptic Meningitis

264 Aseptic meningitis (inflammation of the lining of the brain and spinal cord) with fever and coma
265 has been observed in patients on oral ibuprofen therapy. Although it is probably more likely to
266 occur in patients with a disease called lupus (SLE) and related connective tissue diseases, it has
267 been reported in patients who do not have underlying chronic disease.

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276 Drug interactions

277 Drug interactions can occur between ibuprofen and medications such as the following: aspirin,
278 anticoagulants, certain medications to treat high blood pressure, and lithium. Our study excludes
279 subjects taking the above medications. It is very important that you tell your study physician
280 and/or coordinator of all medications (including over the counter medications) that you are
281 taking.
282

283 There may be risks to IV ibuprofen that are not now known. You will be notified of any new
284 significant findings that might affect your willingness to continue in the study.
285

286 Blood Collection and IV placement

287 Risks from blood collection and IV placement include the possibility of bruising, swelling,
288 bleeding, and infection. Additionally, dizziness and fainting can be associated with the blood
289 collection. There is a risk that infusing too quickly can cause pain at the IV injection site.
290

291 You should call the study doctor as soon as possible at 215-955-2243 if, during the course of this
292 study, you develop any of these side effects or symptoms. The study doctor has told you that if
293 your condition worsens, if side effects become very severe, or if it turns out that being in this
294 study is not in your best interest, you will be taken out of the study.
295

296 **What are the risks to fetuses, infants and pregnant women?**

297 Pregnant women or women who are breast feeding should not be in this study because exposure
298 to investigational drugs may be hazardous to an embryo, fetus or nursing infant. Even
299 medications that are well known and prescribed may have adverse effects on an embryo or fetus.
300 As with any medication, there are unknown risks. To be in this study you and your partner must
301 practice adequate birth control measures. The study doctor will discuss acceptable methods of
302 birth control with you. If you are a woman of childbearing potential, you will have a pregnancy
303 test before making a decision about being in this study. This requires a urine test prior to the start
304 of the study. The results of this pregnancy test will be made available to you prior to the start of
305 the study.
306

307 If you become pregnant during the course of this study, you should notify the study doctor as
308 soon as possible.
309

310 If you are a person in a same sex relationship, it is not necessary for you to practice birth control.
311 However, if you are female, you will still have to have pregnancy tests according to the study
312 protocol.
313

314 **Are there alternatives to being in the study?**

315 You do not have to participate in this study. There may be other alternatives that could be
316 considered. These alternative treatments may include drugs such as;

- 317 • Triptans (such as sumatriptan)
- 318 • Dihydroergotamine (DHE)
- 319 • Other non-steroidal anti-inflammatory drugs (NSAIDs) (such as Aleve®, Motrin®), or
320 injectable Ketorolac (Toradol)
- 321 • Opioids (such as Vicodin®).

322 The study doctor will provide information about the study and any alternative treatments
323 available to you.

324

325 **How will privacy and confidentiality (identity) be protected?**

326 Federal regulations require that certain information about individuals be kept confidential. This
327 information is called “protected health information” (PHI). PHI includes information that
328 identifies you personally such as name, address and social security number, or any medical or
329 mental health record, or test result, that may have this sort of information on it. The laws state
330 that you may see and review your/his/her TJU medical records at any time. However, in a
331 research study, you may not see the study results or other data about the study until after the
332 research is completed unless the study doctor decides otherwise.

333

334 If you join this study, the following individuals or entities may have access to your PHI and by
335 law must protect it. These include investigators listed on this consent form and other personnel
336 involved in this specific study, the University’s Division of Human Subjects Protection and the
337 Institutional Review Board (IRB), your health insurance company (if necessary for billing for
338 standard medical care).

339

340 Your PHI may also be shared with the following entities that, while not obligated by law to
341 protect PHI, will protect it to the best of their ability:

342

- The Food and Drug Administration (FDA)
- With any person or agency required by law.
- Cumberland Pharmaceuticals which is funding Thomas Jefferson University to conduct
345 this study.

346

347 The following information will be provided to the study sponsor (Dr. Silberstein) and other
348 entities noted above:

349

350 **Study data for analysis:**

351 Headache diaries, headache diagnoses, history, and responses to headache questionnaires will be
352 used for data analysis. Your blood work (chemistry, hematology, and clotting studies) and urine
353 pregnancy test results will *not* be used in data analysis, but are performed for safety reasons.

354

355 **Demographic data:** Your age, sex, race, employment status, education level and income will be
356 used in data analysis. Your name, social security number, address will *not* be used for data
357 analysis. This information will be used for payment purposes.

358

359 If you develop an illness or injury during the course of your participation in this study, other PHI
360 about treating and following the condition may be generated and disclosed as it relates to this
361 study. Your PHI may be used/disclosed indefinitely.

362

363 You may quit the study and revoke permission to use and share your PHI at any time by
364 contacting the principal investigator, in writing, at: **Stephen D. Silberstein, M.D., Jefferson**
365 **Headache Center, 900 Walnut Street, 2nd Floor, Suite 200, Philadelphia, PA 19107.** If you quit the
366 study further collection of PHI will be stopped, but PHI that has already been collected may still
367 be used.

368

369 The results of clinical tests and procedures performed as part of this research may be included in
370 your medical records. The information from this study may be published in scientific journals or
371 presented at scientific meetings but you will not be personally identified in these publications and
372 presentations.

373

374 What if I am injured as a result of being in this study?

375 In the event that you experience a research-related injury, necessary and available medical care
376 (including hospitalization) will be provided. However, Thomas Jefferson University cannot
377 assure that this comprehensive medical and/or surgical care will be provided without charge.
378 The costs may be billed to your insurance carrier but they may ultimately be your responsibility.
379 A research-related injury is a physical injury or illness resulting to you that is directly caused by
380 any procedure or treatment used in this study that is different from the treatment you would
381 receive if you were not participating in a research study. No other financial compensation is
382 available.

383

384 If you receive a bill related to a research-related injury that seems wrong, please discuss it with
385 the study doctor or research coordinator.

386

387 Will I benefit from being in this study?

388 You may not benefit from being in this research, but we hope that what we learn may be helpful
389 to future patients or society in general. Possible benefits from being in the study may include:
390 relief from your headache pain.

391

392 Will I be paid for being in this study?

393 You will receive payment for your participation in this study. You will be paid \$175 if you
394 complete all visits required for the study to cover your [transportation, parking, or other]
395 expenses related to your participation in this study. If you do not finish the study, you will be
396 paid for the part of the study that you did complete. You will receive \$25 for Visit 1, \$100 for
397 Visit 2 (Treatment Visit) and \$50 for Visit 3 (final visit). If Visit 1 and Visit 2 are combined,
398 you will receive \$125 for that combined visit. Your payment will be issued in the form of a
399 check after your last study visit.

400

401 Will I be told about any new findings?

402 Anything learned during the study, beneficial or not, that may affect your health or your
403 willingness to continue in the study, will be told to you and explained.

404

405 Disclosure of Financial Interest

406 The Cumberland Pharmaceuticals is paying Thomas Jefferson University to conduct this study.

407

408 Are there costs related to being in this study?

409 The study drug and testing required by this research will be provided free of charge.
410 You may have to pay for some expenses related to this study, such as transportation, parking,
411 meals, or other expenses.

412 **Research Procedures**
413 The history, physical examination and blood work to ensure that you qualify for the study are
414 research procedures. The administration of study drug (IV ibuprofen or placebo), administration
415 of rescue medication (IV ibuprofen) if needed, completion of headache diary and monitoring of
416 vital signs (pulse and blood pressure) during study drug administration are all considered
417 research procedures. You will not be charged for these research procedures.

418
419 **Standard Testing Procedures**
420 Procedures, tests and doctor's charges resulting from being in the study that are considered
421 standard of care will be billed to your health insurance carrier. These are charges that you would
422 have whether or not you were participating in a research study. It is possible that your insurance
423 company may deny payment. If that happens you may be responsible for some or all of these
424 charges. The study doctor will explain to you which procedures, tests and doctor visits are
425 considered standard of care.

426
427 If you receive a bill that you think is wrong, please discuss it with the study doctor or research
428 coordinator.

429
430 **Can I be removed from the study or quit the study?**
431 Your decision to participate in this research study is entirely voluntary. You have been told what
432 being in this study will involve, including the possible risks and benefits.

433
434 Your participation in this research project may be terminated by the study doctor without your
435 consent for any reason that he/she feels is appropriate.

436
437 You may refuse to participate in this investigation or withdraw consent and quit this study
438 without penalty and without affecting your ability to receive medical care at Thomas Jefferson
439 University.

440
441 If you withdraw from this study, you may continue treatment with your Jefferson doctor, or you
442 may seek treatment from another doctor of your choice.

443
444 Should you decide to withdraw from the study, please be sure to inform the study doctor.
445 Additional tests or procedures may be needed to ensure your safety. The study doctor will
446 explain why these tests or procedures are necessary.

447
448 **CONTACT INFORMATION**

Telephone number for questions about your rights as a research participant	The Jefferson Institutional Review Board	215-503-8966
For questions, concerns or complaints about the research, or if you suspect a research-related injury	The Principal Investigator, Dr. Silberstein, or any co-investigator listed at the beginning of this form	215-955-2243
If you have difficulty contacting the study staff	Call the Jefferson Office of Human Research during working hours	215-503-0203

449 **Non-Waiver of Legal Rights Statement**

450
451 **By your agreement to participate in this study, and by signing this consent form, you are**
452 **not waiving any of your legal rights.**

453
454 **In order to be in this research study, you must sign this consent form.**

455
456 **You affirm that you have read this consent form. You have been told that you will receive**
457 **a copy.**

458 **Signatures:**

459
460
461
462 Your Name (*please print or type*)

463
464
465 _____ (Date)

466 Your Signature

467
468
469
470
471 Name of Person Conducting Consent Interview

472
473
474 _____ (Date)

475 Signature of Person Conducting Consent Interview

476
477
478
479 _____ (Date)

480 Signature of Principal Investigator or
481 Co-Investigator

482
483
484

**As Per University Counsel - Do Not Sign
This Consent Form After 5-31-18**