

STANFORD UNIVERSITY Research Consent Form

Protocol Director: Philip Grant, MD

IRB# 50200

IRB Use Only

Approval Date: March 31, 2022

Expiration Date: March 31, 2023

Protocol Title: The effects of attenuated vs. inactivated flu vaccine in twin sets (IRB-50200)

**STANFORD UNIVERSITY CONSENT
TO PARTICIPATE IN A RESEARCH STUDY
The effects of attenuated vs. inactivated flu vaccine in twin sets**

Are you participating in any other research studies? Yes No

Please check all that are applicable:

 I am an adult participant in this study.Print your name here:

_____ I am the parent or guardian granting permission for a child in this study (the use of "you" refers to "your child" or "your ward.")

_____Print child's name here:

_____**Concise Summary**

We are asking your consent in order to participate in a research study. It is very important to know that your participation is entirely VOLUNTARY. The purpose of the study is to learn better the impact of genetics on response to flu vaccine. The study will involve 3 research visits over approximately 4 weeks. As part of the study you will receive one of two recommended flu vaccines (either the injected version or the spray version) and then have blood drawn at 3 different time points. The risks of the study are minor including a sore arm if you receive the shot and possible bruising from a blood draw. The benefits of the study is you will receive protection from the flu but the vaccinations would also be available through your regular doctor or pharmacy. The researchers also hope to better understand the body's response to vaccination so flu vaccines can be improved. The alternative to participating in the study is to not participate.

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PURPOSE OF RESEARCH

You are invited to participate in a research study on the human immune response. We know immunity to influenza (commonly known as "the flu") is quite variable and several factors can affect response to flu vaccination. We want to better understand the role of genetic factors in the response to the flu vaccine. We will enroll identical and fraternal twin sets to help better understand the role of genetics.

You were selected as a possible participant in this study because you are one of a healthy twin set.

The research study will be conducted at the Stanford Clinical Trials Research Unit (CTRU). Up to 40 participants (20 twin sets) will be enrolled.

Participants will complete a total of 3 study visits over a total of 4 weeks. During the first visit of you will receive either the injectable flu vaccine or the nasal flu vaccine spray and blood will be drawn. Both vaccines are licensed by the FDA and are not experimental. These are the seasonal flu vaccines that are given to the public during each flu season.

The second and third study visits will be for the purpose of collecting a small amount of blood to measure your immune response to the vaccination.

VOLUNTARY PARTICIPATION

Your participation in this study is entirely voluntary. Your decision not to participate will not have any negative effect on you or your medical care. You can decide to participate now, but withdraw your consent later and stop being in the study without any loss of benefits or medical care to which you are entitled.

DURATION OF STUDY INVOLVEMENT

Your participation in the study will last for approximately 4 weeks. There are 3 visits during this period. All the visits will occur at the Stanford Clinical Trials Unit.

PROCEDURES

Dr. Grant and the research study staff will ask you to attend a total of 3 visits:

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Clinic Visit 1 (Day 0) The visit will last about approximately 1 hour.

- You will be given a complete description of the study. After you have reviewed and signed the informed consent and assent, if applicable, a screening procedure will be done to confirm your eligibility to participate in the study.
- Vital signs (temperature, pulse, blood pressure and respiratory rate) will be obtained and your height and weight will also be measured and recorded. If you have a fever or you are sick, you cannot be enrolled at this visit but may be asked to return at a later time once your illness is resolved.
- Approximately 1-5 tablespoons (based on weight) of blood will be collected from a vein in your arm.
- You will be randomized to receive either the intramuscular flu vaccine or the nasal spray version of the flu vaccine. You will have a fifty percent chance of receiving either vaccine. If you received a seasonal influenza vaccination more than 3 months ago for this flu season, you will be given another seasonal flu vaccination for the purposes of this study. There is no known additional risk to receiving a second dose of the vaccine.
- You will be observed in the clinic for 15 minutes following vaccination to monitor and treat any serious allergic reactions, should they occur. During that time, we will ask you a few questions, such as your age, race/ethnicity, medical history, and flu vaccination history.

Clinic Visit 2 (approximately 7 days after vaccination) The visit will take approximately 15-30 minutes.

- Approximately 1-5 tablespoons (based on weight) of blood will be collected from a vein in your arm.
- Any changes to your medications and changes in your health will be reviewed.

Clinic Visit 3 (approximately 28 days after vaccination) The visit will take approximately 15-30 minutes.

- Approximately 1-5 tablespoons (based on weight) of blood will be collected from a vein in your arm.
- Any changes to your medications and changes in your health will be reviewed.

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Tissue Sampling for Research

Research using tissues is an important way to understand human disease. You have been given this information because the investigators want to include your blood in an immunology research project and because they want to save the samples for future research. There are several things you should know before allowing your tissues to be studied.

Your blood samples will be stored using a unique study identification number. The results of the study of your samples will be used for research purposes only and you will not be told the results of the tests.

Your samples will be analyzed and stored at Stanford University and by other researchers at Stanford and outside of Stanford, including colleagues participating in the Cooperative Center for Human Immunology (CCHI) and Human Immunology Project Consortium (HIPC) funded through the National Institutes of Health (NIH). Your samples will be identified by your unique study ID code and study visit number. Your name will not be associated with any samples used for future research, but they may be identified by your age. **By signing this consent form and agreeing to participate in the study, you agree to the use of your samples for future research.**

Tissue Sampling for Immunity-Related Genetic Testing

As part of the analysis on your samples, the investigators will do immunity-related genetic testing. Genetic research is research that studies genes, including gene characteristics and gene versions that are transmitted by parents to children. Genetic research may include looking at information, such as personal appearance and biochemistry, gene sequences, genetic landmarks, individual and family medical histories, reactions to medications and responses to treatment such as the flu vaccine. Genetic testing will be performed on coded specimens. Your name will not be associated with any samples used for future research, but they may be identified by your age.

Sometimes patients have been required to furnish information from genetic testing for health insurance, life insurance, and/or a job. A Federal law, the Genetic Information Nondiscrimination Act of 2008 (GINA), generally makes it illegal for health insurance companies, group health plans, and employers with 15 or more employees to discriminate against you based on your genetic information.

The results from the study of your research samples will be used for research purposes only and you will not be told the results of the tests. Your samples will be analyzed and stored at Stanford University and outside of Stanford, including the National Institutes of Health, sites participating in the Human Immunology Project Consortium (HIPC) and/or by

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other research colleagues. The goal of this research is to discover genetic factors that contribute to the prevention or treatment of illnesses.

Genetic information from analyses of your coded samples and a portion of your coded medical information may be stored in one of the National Institutes of Health (NIH) databases such as the NIH HIPC data repository (ImmPORT) and the National Center for Biotechnology Information databases (NCBI). These research results along with information from other research participants will be used for future research. These databases will be accessible by the Internet. Only anonymous information from the analyses will eventually be put in a completely public research database, available to anyone on the Internet.

No traditionally-used identifying information about you, such as your name, address, telephone number, or social security number, will be put into the public database. While the public database will not contain information that is traditionally used to identify you, people may develop ways in the future that would allow someone to link your genetic or medical information in our databases back to you. For example, someone could compare information in our databases with information from you (or a blood relative) in another database and be able to identify you (or your blood relative). It also is possible that there could be violations to the security of the computer systems used to store the codes linking your genetic and medical information to you.

However, your privacy is very important to us and we will use safety measures to protect it. Despite all of the safety measures that we will use, we cannot guarantee that your identity will never become known.

PARTICIPANT RESPONSIBILITIES

As a participant, your responsibilities include:

- Follow the instructions of the Protocol Director and study staff.
- Keep your study appointments. If it is necessary to miss an appointment, please contact your treating physician or research study staff to reschedule as soon as you know you will miss the appointment.
- Tell the Protocol Director or research study staff about any side effects, doctor visits, or hospitalizations that you may have during your participation in the research study.
- Tell the Protocol Director or research staff if you believe you might be pregnant.
- Ask questions as you think of them.
- Tell the Protocol Director or research staff if you change your mind about staying in the study.

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If you are coming in-person to research visits, you are required to be fully vaccinated—2 doses (1 for Johnson and Johnson), 2 weeks out and to provide proof of your vaccination (e.g., CDC COVID-19 Vaccination Card, e-Health record, etc.) to the researcher prior to study participation. Alternately, you can provide a negative COVID test within 72 hours of your visit.

WITHDRAWAL FROM STUDY

If you first agree to participate and then you change your mind, you are free to withdraw your consent and discontinue your participation at any time. Your decision will not affect your ability to receive medical care and you will not lose any benefits to which you would otherwise be entitled.

If you decide to stop your participation in this study, you should notify Dr. Philip Grant at (650) 723-9943. The following information will be collected if possible:

- We will ask about your current health status and note any changes since the previous visit.
- You will be encouraged to allow follow-up of any safety-related health events and to donate scheduled blood samples, if possible.

The Protocol Director may also withdraw you from the study without your consent for one or more of the following reasons:

- Failure to follow the instructions of the Protocol Director and research staff,
- The Protocol Director decides that continuing your participation could be harmful to you,
- Pregnancy,
- You need treatment not allowed in the study,
- The study is cancelled,
- Other administrative reasons, and
- Unanticipated circumstances.

POSSIBLE RISKS, DISCOMFORTS, AND INCONVENIENCES

There are risks, discomforts, and inconveniences associated with any research study. These deserve careful thought. You should talk with the Protocol Director if you have any questions.

The discomforts of this study are those of receiving IM injection or intranasal application of the vaccine, and blood drawn from an arm vein, and possible reactions to the vaccine.

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Drawing blood causes transient discomfort and may cause fainting. Intramuscular Flu injection may cause injection site pain, swelling, redness, muscle aches, and bruising.

Infection at the site where blood will be drawn or where the vaccination is given is extremely unlikely, but is a potential risk. Bruising at the site of blood drawing may occur, but can be prevented or lessened by applying pressure for several minutes immediately after the blood draw.

Immediate allergic reactions to vaccine, including anaphylaxis, are in general extremely rare (approximately 1 person in 4,000,000), and might occur as a skin rash such as hives, difficulty breathing, fainting, drop in the blood pressure and death. Such reactions can usually be stopped by emergency medications administered by study personnel.

Vaccine recipients may develop systemic reactions such as fever, headaches, body aches, and fatigue. These reactions are usually greatest within the first 24 to 72 hours after vaccination and last 1 to 2 days. Analgesics (*e.g.*, aspirin or Tylenol[®]) and rest will generally relieve or moderate these symptoms. Other hypersensitivity reactions, including Arthus reactions resulting in large local swelling reactions, are also possible.

Guillain-Barré syndrome (GBS) is an extremely rare illness that can cause muscle weakness and paralysis that may last from a few days to months. Most people who develop GBS recover completely, but some people can be paralyzed for a prolonged time or even die. Although Guillain-Barré syndrome may have been associated with the 1976-1977 inactivated swine influenza vaccine and inactivated flu vaccines used in early 1990's, subsequent inactivated vaccines have not been associated with an increased risk of this condition. However, if there were a risk of GBS from current flu vaccines, it would be no more than 1 or 2 cases per million people vaccinated. This is much lower than the risk of severe influenza, which can be prevented by vaccination.

LAIV4 has the potential for transmission of influenza to close contacts with severely weakened immune systems (requiring care in a protected environment, such as a bone marrow transplant unit). It is not known whether LAIV4 (FluMist Quadrivalent) is excreted in human milk. Because some viruses are excreted in human milk, lactating women will not be eligible for this study. The most common side effects of LAIV4 recipients were runny or stuffy nose, sore throat, a fever over 100°F. Other Possible side effects include decreased appetite, irritability, tiredness, cough, headache, muscle ache, and chills. Children younger than 5 years of age with recurrent wheezing and persons of any age with asthma may be at increased risk of wheezing following administration of FluMist Quadrivalent.

Participation in this study may involve risks to the participant that are currently unforeseeable.

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POTENTIAL BENEFITS

There are no benefits to you for participating in this study other than receiving the seasonal influenza vaccine, which is available publicly.

- Participants given the seasonal influenza vaccine are likely to experience decreased frequency and severity of subsequent influenza infection. The beneficial role of influenza vaccination has been recognized increasingly over the past several years as more information has become available about the high rate of morbidity and mortality from this respiratory pathogen.
- WE CANNOT AND DO NOT GUARANTEE OR PROMISE THAT YOU WILL RECEIVE ANY BENEFITS FROM THIS STUDY.

ALTERNATIVES

The alternative to participating in this study is to not participate in this study.

PARTICIPANT'S RIGHTS

You should not feel obligated to agree to participate. Your questions should be answered clearly and to your satisfaction. If you decide not to participate, tell the Protocol Director.

You will be told of any important new information that is learned during the course of this research study, which might affect your condition or your willingness to continue participation in this study.

ClinicalTrials.gov

A description of this clinical trial will be available on <http://www.ClinicalTrials.gov>, as required by U.S. Law. This Web site will not include information that can identify you. At most, the Web site will include a summary of the results. You can search this Web site at any time.

CONFIDENTIALITY

The results of this research study may be presented at scientific or medical meetings or published in scientific journals. Your identity and/or your personal health information will not be disclosed except as authorized by you or as required by law. However, there is always some risk that even de-identified information might be re-identified.

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The purpose of this research study is to obtain information on the immune response to the seasonal influenza vaccination during pregnancy. The results will be provided to the sponsor, the Food and Drug Administration and other federal and regulatory agencies as required. Patient information may be provided to Federal and other regulatory agencies as required. The Food and Drug Administration (FDA), for example, may inspect research records and learn your identity if this study falls within its jurisdiction.

Identifiers might be removed from identifiable private information and/or identifiable specimens and, after such removal, the information and/or specimens could be used for future research studies or distributed to another investigator for future research studies without additional informed consent from you.

This research is covered by a Certificate of Confidentiality from the National Institutes of Health. The researchers with this Certificate may not disclose or use information, documents, or biospecimens that may identify you in any federal, state, or local civil, criminal, administrative, legislative, or other action, suit, or proceeding, or be used as evidence, for example, if there is a court subpoena, unless you have consented for this use. Information, documents, or biospecimens protected by this Certificate cannot be disclosed to anyone else who is not connected with the research except, if there is a federal, state, or local law that requires disclosure (such as to report child abuse or communicable diseases but not for federal, state, or local civil, criminal, administrative, legislative, or other proceedings, see below); if you have consented to the disclosure, including for your medical treatment; or if it is used for other scientific research, as allowed by federal regulations protecting research subjects.

The Certificate cannot be used to refuse a request for information from personnel of the United States federal or state government agency sponsoring the project that is needed for auditing or program evaluation by National Institutes of Health which is funding this project or for information that must be disclosed in order to meet the requirements of the federal Food and Drug Administration (FDA). You should understand that a Certificate of Confidentiality does not prevent you from voluntarily releasing information about yourself or your involvement in this research. If you want your research information released to an insurer, medical care provider, or any other person not connected with the research, you must provide consent to allow the researchers to release it.

The Certificate of Confidentiality will not be used to prevent disclosure as required by federal, state, or local law such as child abuse and neglect, or harm to self or others.

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Authorization To Use Your Health Information For Research Purposes

Because information about you and your health is personal and private, it generally cannot be used in this research study without your written authorization. If you sign this form, it will provide that authorization. The form is intended to inform you about how your health information will be used or disclosed in the study. Your information will only be used in accordance with this authorization form and the informed consent form and as required or allowed by law. Please read it carefully before signing it.

What is the purpose of this research study and how will my health information be utilized in the study?

This is a research study on immune development. We know immunity to influenza (commonly known as "the flu") is quite variable and several factors can affect response to flu vaccination. We want to better understand the role of genetic factors in the response to the flu vaccine. We will enroll identical and fraternal twin sets to help better understand the role of genetics.

As part of this research you will be asked questions about your personal health information such as age, race/ethnicity, vaccination history and health history. We are collecting this information to see if these factors also affect immune development. Your health information will be kept on a password-protected, encrypted computer and affiliated researchers will have access to de-identified information.

The results will be provided to regulatory agencies as required. The results of this research study may be presented at scientific or medical meetings or published in scientific journals. However, your identity (except for age) will not be disclosed.

Do I have to sign this authorization form?

You do not have to sign this authorization form. But if you do not, you will not be able to participate in this research study. Signing the form is not a condition for receiving any medical care outside the study.



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If I sign, can I revoke it or withdraw from the research later?

If you decide to participate, you are free to withdraw your authorization regarding the use and disclosure of your health information (and to discontinue any other participation in the study) at any time. After any revocation, your health information will no longer be used or disclosed in the study, except to the extent that the law allows us to continue using your information (e.g., necessary to maintain integrity of research). If you wish to revoke your authorization for the research use or disclosure of your health information in this study, you must write to:

Dr. Philip Grant

Stanford-LPCH Vaccine Program

Stanford University School of Medicine

1000 Welch Road, Suite 202

Palo Alto, CA 94304-5350

What Personal Information Will Be Obtained, Used or Disclosed?

Your health information related to this study, may be used or disclosed in connection with this research study, including, but not limited to, contact information for appointment reminders (name, telephone number, address, email), for clinic registration (date of birth, age, race and ethnicity, gender, medical record number), information necessary to process study reimbursements (social security number), influenza vaccination history, medication history, health history, and results from tissue assays used for immune-related research. Results from research assays will be labeled with your Study ID and visit number, and your identity (except for age) will not be disclosed. Future use of your samples for research, including genetic testing, will be performed on coded specimens. The NIH Human Immunology Project Consortium (HIPC) data repositories (ImmPORT) will store the results of the research assays results. Genetic data that is developed in this study will be made available to other researchers through the National Center for Biotechnology Information (NCBI) databases.

In the event that you have a change in your health status related to the study procedures and are hospitalized or seen at Stanford University

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Hospital and Clinics, the research staff may access those medical records to evaluate the unanticipated event.

Who May Use or Disclose the Information?

The following parties are authorized to use and/or disclose your health information in connection with this research study:

- The Protocol Director, Philip Grant, MD
- The Stanford University Administrative Panel on Human Subjects in Medical Research and any other unit of Stanford University as necessary
- Other physicians, researchers, nurses, study coordinators and clinical research assistants who are members of the study team
- The Stanford Hospital and Clinics and Clinical and Translational Research Unit staff.

Who May Receive or Use the Information?

The parties listed in the preceding paragraph may disclose your health information to the following persons and organizations for their use in connection with this research study:

- The Office for Human Research Protections in the U.S. Department of Health and Human Services
- The National Institutes of Health (NIH)
- The Food and Drug Administration (FDA)
- The study biostatisticians
- National Center for Biotechnology Information (NCBI)
- Research colleagues at Stanford University and outside of Stanford including colleagues within the NIH Cooperative Center for Human Immunology (CCHI) and Human Immunology Project Consortium (HIPC) funded through the National Institutes of Health (NIH). Your information will be coded and you will not be identified by name. Your age may be disclosed.

Your information may be re-disclosed by the recipients described above, if they are not required by law to protect the privacy of the information.

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When will my authorization expire?

Your authorization for the use and/or disclosure of your health information will end on December 31, 2065 or when the research project ends, whichever is earlier.

Signature of Adult Participant

Date

Print Name of Adult Participant

Signature of Legally Authorized Representative (LAR)
(e.g., parent, guardian or conservator)

Date

Print Name of LAR

LAR's Authority to Act for Participant (e.g., parent, guardian or conservator)

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FINANCIAL CONSIDERATIONS

Payment: You will receive \$50.00 for after each regularly scheduled study visit you complete. Payments will be made in the form of a gift card. Payments may only be made to U.S. citizens, legal resident aliens, and those who have a work eligible visa. You may need to provide your social security number to receive payment.

Costs: There is no cost to you for participating in this study, other than basic expenses like transportation and the personal time it will take to come to all of the study visits.

Sponsor: The National Institutes of Health are providing financial support and/or material for this study, as well as some financial support for the facility and staff where part or all of the study is taking place.

COMPENSATION for Research-Related Injury

All forms of medical diagnosis and treatment – whether routine or experimental – involve some risk of injury. In spite of all precautions, you might develop medical complications from participating in this study. If such complications arise, the Protocol Director and the research study staff will assist you in obtaining appropriate medical treatment. In the event that you have an injury or illness that is directly caused by your participation in this study, reimbursement for all related costs of care first will be sought from your insurer, managed care plan, or other benefits program. **You will be responsible for any associated co-payments or deductibles as required by your insurance.**

If costs of care related to such an injury are not covered by your insurer, managed care plan or other benefits program, you may be responsible for these costs. If you are unable to pay for such costs, the Protocol Director will assist you in applying for supplemental benefits and explain how to apply for patient financial assistance from the hospital.

You do not waive any liability rights for personal injury by signing this form.

CONTACT INFORMATION

Questions, Concerns, or Complaints: If you have any questions, concerns or complaints about this research study, its procedures, risks and benefits, or alternative courses of treatment, you should ask the Protocol Director, Philip Grant, MD, at (650) 723-9443. You should also contact him at any time if you feel you have been hurt by being a part of this study.

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Appointment Contact: Questions related to your regular appointments should be directed to your treating physician/surgeon.

Independent Contact: If you are not satisfied with how this study is being conducted, or if you have any concerns, complaints, or general questions about the research or your rights as a participant, please contact the Stanford Institutional Review Board (IRB) to speak to someone independent of the research team at (650)-723-5244 or toll free at 1-866-680-2906. You can also write to the Stanford IRB, Stanford University, 1705 El Camino Real, Palo Alto, CA 94306.

EXPERIMENTAL SUBJECT'S BILL OF RIGHTS

As a research participant you have the following rights. These rights include but are not limited to the participant's right to:

- be informed of the nature and purpose of the experiment;
- be given an explanation of the procedures to be followed in the medical experiment, and any drug or device to be utilized;
- be given a description of any attendant discomforts and risks reasonably to be expected;
- be given an explanation of any benefits to the subject reasonably to be expected, if applicable;
- be given a disclosure of any appropriate alternatives, drugs or devices that might be advantageous to the subject, their relative risks and benefits;
- be informed of the avenues of medical treatment, if any available to the subject after the experiment if complications should arise;
- be given an opportunity to ask questions concerning the experiment or the procedures involved;
- be instructed that consent to participate in the medical experiment may be withdrawn at any time and the subject may discontinue participation without prejudice;
- be given a copy of the signed and dated consent form; and
- be given the opportunity to decide to consent or not to consent to a medical experiment without the intervention of any element of force, fraud, deceit, duress, coercion or undue influence on the subject's decision.

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May we contact you about future studies that may be of interest to you?

Yes No

What type of appointment reminder would you like to receive from us (**choose one**)?

Telephone call/voice mail

Email (will not use secure encrypted email; please do not reply to the reminder with any private or confidential health information)

Signing your name means you agree to be in this study and that you were given a copy of this signed and dated consent form.

Signature of Adult Participant

Date

Print Name of Adult Participant

Signature of Legally Authorized Representative (LAR)
(e.g., parent, guardian or conservator)

Date

Print Name of LAR

LAR's Authority to Act for Participant (e.g., parent, guardian or conservator)

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The IRB determined that the permission of one parent is sufficient for research in accordance with 21 CFR 50.55.

(If available) Signature of Other Parent or Guardian

Date

Print Name of Other Parent or Guardian

Authority to Act for Participant

Signature of Person Obtaining Consent

Date

Print Name of Person Obtaining Consent

The following witness line is to be signed only if the consent is provided as a summary form and accompanied by a short form foreign language consent.

Signature of witness
(e.g., staff, translator/interpreter or family member)

Date

Print name of witness

- *Translated short form must be signed and dated by both the participant (or their LAR) AND the witness.*
- *The English consent form ("summary form"):*
 - *Must be signed by the witness AND the Person Obtaining Consent (POC).*
 - *The non-English speaking participant/LAR does not sign the English consent.*
 - *The non-English speaking participant/LAR should not sign the HIPAA participant line*

If the participant or the LAR is non-English speaking, the Person Obtaining Consent (POC) must ensure that 1) the LAR's Description of Authority is completed and 2) that any questions or options presented by the consent form are documented and initialed by the POC on the Summary Form, per the participant's wishes, as they are understood during the consent process.

Participant ID:

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