

**Cover Page to Accompany ClinicalTrials.gov Document**

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**Informed Consent: January 09, 2019**

**For Protocol**

**Defining Neurobiological Signatures for Chronic  
Traumatic Brain Injury Using PET-MRI Technology**

**Thomas Jefferson University IRB ID: 17D.138**

**Clinical Trial Number: NCT03241732**

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Thomas Jefferson University  
Informed Consent Document for Human Subjects Research

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**Medical Study Title:** Defining Neurobiological Signatures for Chronic Traumatic Brain Injury Using PET-MRI Technology

**Lay Study Title:** PET-MRI and the Effect of N-Acetyl Cysteine (NAC) and Anti-Inflammatory Diet in Traumatic Brain Injury

## What Is Informed Consent?

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

- 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.

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

## What is the purpose of this study?

You have been diagnosed with a chronic traumatic brain injury (cTBI) which means that you have had persistent symptoms for more than three months after a concussion or head injury.

44 Chronic TBI usually is treated with rest and minimizing further strain on the brain. The goal is to  
45 allow the brain to heal by not putting it under any additional stress. The goal is that the brain will  
46 heal itself within a few months. However, in some patients, the symptoms persist for 3 or more  
47 months. Symptoms can include a variety of problems such as headache, cognitive impairment,  
48 brain fog, dizziness, difficulty concentrating, emotional problems, coordination problems, and  
49 many others. Part of the difficulty in treating cTBI is to determine how better to diagnose what  
50 specific issues are affecting the brain. In order to assess the brain function more effectively, we  
51 would like to have you undergo a small battery of diagnostic tests that include magnetic  
52 resonance imaging (MRI), positron emission tomography (PET), quantitative  
53 electroencephalography (EEG), and serum measures in the blood for detecting inflammation.  
54 Scans may be performed at the Marcus Institute of Integrative Health PET-MRI scanner using  
55 standard head coils or a 32 channel research head coil (Ceresensa: London, ON) which is medically  
56 equivalent to currently available head coils, but designed specifically for the PET-MRI scanner. This  
57 head coil poses no additional risk to the patients. In addition, you will receive neurocognitive  
58 testing to determine which brain functions are most affected. We hope that this battery of  
59 diagnostic studies can be used to best determine what areas of the brain are affected by the cTBI  
60 and which diagnostic tests might best determine your potential for recovery. In addition,  
61 evidence suggests that part of the process that results in the cTBI is related to inflammation or  
62 chronic injury/damage to the brain. Thus, a secondary goal of this study is to determine if the  
63 administration of an antioxidant supplement or an anti-inflammatory diet designed to reduce  
64 inflammation in your body might help to support the healing process of the brain. Thus, in this  
65 study, you may receive detailed support to modify your diet for 90 days to include low  
66 inflammatory foods or you may receive a natural supplement called n-acetyl cysteine (NAC) that  
67 you will take for approximately 90 days. Prior to starting the supplements and at the end of  
68 approximately 90 days, you will undergo the brain scan evaluation and receive neurocognitive  
69 testing. A third group will be placed into the waitlist control which will have the initial  
70 evaluation and the 90 day evaluation while receiving your standard of care treatment for cTBI.  
71 At that point, you will be offered the opportunity to receive the NAC for 90 days. We will  
72 perform the scans and tests one more time on all patients approximately 180 days (six months)  
73 after your original evaluation.

74

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

76

77 We hope to enroll up to 120 patients at Jefferson. The entire study will take about 3 years to  
78 complete. Your involvement in the study will last about 6 months.

79

#### 80 **What will I have to do during the study?**

81

82 The informed consent process will be completed with you. You will be asked questions about  
83 your medical history and about the medications you are taking. You will also be asked to  
84 complete several questionnaires about your mood, memory, your physical activity level, and how  
85 you feel that will take approximately 30-45 minutes. These questionnaires will include the  
86 Speilberger State Trait Anxiety Inventory (STAI), the Profile of Moods Scale (POMS), the Beck  
87 Depression Inventory, and for quality of life, the Epworth Sleepiness Scale, Mayo-Portland

88 Adaptability Inventory-4, Rivermead Post-Concussion Symptoms Questionnaire, and the TBI-  
89 39. Cognitive testing may include the Mini-Mental Status Exam, the Delis Kaplan Executive  
90 Function System (DKEFS) color-word interference, Trails A & B, and forward and reverse digit  
91 span. You will also undergo a neurological examination evaluating your symptoms in order to  
92 determine how much the cTBI affects you. You will repeat this process including the  
93 questionnaires and examination at 3 and 6 months. Throughout the study, you will continue to  
94 take whatever medications your doctor has prescribed for you and will follow your doctor's  
95 standard advice regarding management of your cTBI. However, we will ask you to try to remain  
96 at the same dosage of any medication throughout the study unless your doctor changes the dose  
97 because of worsening symptoms or because of side effects.  
98

99 Prior to receiving the anti-inflammatory diet, the NAC, or standard of care treatment, you will  
100 receive two different brain scans that will be performed simultaneously in a special combined  
101 scanner. One scan, called positron emission tomography (PET), will evaluate your brain  
102 metabolism and also the level of inflammation in areas affected by the cTBI. The other scan,  
103 called magnetic resonance imaging (MRI) will evaluate the structure and function of the brain,  
104 along with the connecting fibers affected by cTBI. On the day of both scans, you will report to  
105 Marcus Institute of Integrative Health at 789 E. Lancaster Avenue in Villanova, PA 19085.  
106

107 Female subjects of child bearing potential will first have to confirm that they are not pregnant or  
108 undergo a pregnancy test if unsure, and if negative will proceed with the remainder of the study.  
109 Once there, you will be taken to the scanner area in the Marcus Institute of Integrative Health.  
110 You will receive these scans at the beginning. You will also receive only the MRI component  
111 after approximately 3 months and again after 6 months of receiving the anti-inflammatory diet,  
112 receiving the NAC, or receiving standard of care for your cTBI.  
113

114 The PET scan measures the energy metabolism in the brain which is particularly affected in  
115 cTBI. The PET scan works by injecting into your vein a radioactive medicine called FDG. FDG  
116 is a form of the sugar glucose that is used by your brain for energy. By injecting the FDG, we  
117 can see where in the brain it goes so that we can take a picture of the energy of the brain. After  
118 injection of the fluorodeoxyglucose (FDG), you will be asked to rest quietly in a dimly lit room  
119 for approximately 30 minutes. At that point, you will be brought into the scanner room and will  
120 lie down on the PET-MR imaging table. The remainder of the procedure involves having your  
121 head held comfortably in a special head holder as a reminder not to move your head and remain  
122 still while the scanner takes pictures of your brain.  
123

124 The MRI scan is performed simultaneously with the PET scan using a special PET-MRI scanner  
125 that can do both at the same time. For the MRI scan, we will ask you a number of questions to  
126 make sure you do not have any metal in your body that might affect the scanner. While you are  
127 lying on the imaging table for the PET scan, the MRI scan will also be performed. All of this is  
128 done over a period of time of about 45-60 minutes with your head in a special head holder  
129 surrounded by a head coil that enables us to take pictures of your brain. On the follow up scans,  
130 you will only receive the MRI scan and thus will be in the scanner for approximately 45 minutes.  
131 However, for the MRI only scans, you will not receive an injection of radioactive FDG.

132  
133 In addition to the PET and MRI scans, you will receive an electroencephalogram (EEG) which  
134 requires electrodes to be placed onto your scalp in order to measure the electrical activity in the  
135 brain. The EEG records this electrical activity for about 20 minutes. The EEG will be performed  
136 at the beginning of the study, and at 3 and 6 months. The EEG can be performed on the same day  
137 as the scans or on a different day, but no more than  $\pm$ 14 days from the scan. Similarly, we will  
138 draw a sample of blood to check for markers of inflammation. This will require approximately 2  
139 tubes (4-6 Tablespoons) of blood to be drawn and these will be sent off to the lab.  
140  
141 For the treatment component of the study, you will first be assigned into one of three groups. The  
142 first group will receive instructions on following a strict anti-inflammatory diet. In general, this  
143 will eliminate/reduce dairy products, carbohydrates, red meats, and saturated fats while  
144 enhancing intake of proteins, beneficial fats, and plant based foods such as vegetables and fruits.  
145 You will also be required to keep a food diary (using either the computer or written depending  
146 on your preference) during this time period. The second group will receive a strong antioxidant  
147 called N-acetyl cysteine (NAC). When taken orally, NAC is an over-the-counter anti-oxidant  
148 supplement. At higher doses that are given intravenously (IV-through the veins), NAC is a  
149 medication approved by the FDA for treating an overdose of acetaminophen. However, NAC has  
150 not been specifically evaluated in humans for its effects in patients with cTBI. In order to ensure  
151 that you receive an adequate amount of NAC, in this study, you will receive an intravenous  
152 infusion of NAC each week and take oral NAC daily for approximately 90 days. Each infusion  
153 is given over approximately 1 hour and involves the infusion of a liquid solution of NAC directly  
154 into the vein. The oral NAC will be given in 500mg capsules that will be taken twice a day on  
155 the days that you do not receive the IV. The dosing for both the intravenous and oral NAC is  
156 based on currently established guidelines for the use of NAC.  
157  
158 The third group will only receive the standard of care for cTBI, but will still undergo the  
159 scanning, EEG, neurocognitive, and blood testing initially, and then at 3 and 6 months. After the  
160 3 month evaluation, these individuals will be allowed to receive the NAC for 3 months prior to  
161 the 6 month scan and evaluation.  
162

### 163 **What are the risks or discomforts involved?**

#### 165 Risks from taking the supplements

##### 166 *N-acetyl cysteine (NAC)*

167 You might experience fatigue or frustration with having to come in to Marcus Institute of  
168 Integrative Health either at Villanova or downtown Philadelphia once a week for the infusions.  
169 However, you are allowed to miss up to 4 doses and still remain in the study. Since the infusions  
170 of NAC require placing an intravenous catheter in your arm via a needle, there can be pain and  
171 discomfort at the IV site. Bleeding and infection may also occur. Reports of side effects related  
172 to NAC are uncommon but can include nausea, vomiting, and diarrhea or constipation. In the  
173 literature the most frequently reported adverse reactions attributed to intravenous NAC  
174 administration were rash, urticaria and pruritus. These are all reported in studies of patients  
175 receiving NAC for acetaminophen overdose in which the NAC is given over a period of several

176 days. The frequency of adverse reactions has been reported to be between 0.2% and 21%, and  
177 they most commonly occur during the initial loading dose of NAC. Serious acute  
178 hypersensitivity reactions during NAC administration including rash, hypotension, wheezing,  
179 and/or shortness of breath, have been observed in patients receiving intravenous NAC for  
180 acetaminophen overdose and occurred soon after initiation of the infusion. Rarely, NAC can  
181 cause rashes, fever, headache, drowsiness, low blood pressure, and liver problems. One patient  
182 with asthma developed bronchospasm and died after intravenous administration of NAC and we  
183 therefore will not include patients with a history of asthma requiring daily medication for  
184 adequate management. In animals, NAC has sometimes been found to be associated with  
185 pulmonary hypertension, but this has not been reported in human beings. We will review your  
186 medications to determine if there may be any potential interactions. If you are able to participate  
187 in the study, we may also discuss with you or your doctor how to closely monitor any changes in  
188 your response to your medications while on the study.

189

190 Risks from following an anti-inflammatory diet

191 The diet is designed to be healthy and reduce inflammation throughout the body. However,  
192 anytime modifications are made to your diet, gastrointestinal discomfort or changes in bowel  
193 habits may occur. You might also be frustrated by having to follow the diet since it restricts  
194 certain foods.

195

196 PET Risks

197 Use of FDG PET imaging is commercially approved, and has resulted in very rare adverse  
198 effects of skin redness, facial swelling, fever, and short lasting rise in blood pressure. This  
199 research study involves exposure to radiation from the FDG PET scan and therefore you will  
200 receive a radiation dose that you would not receive if you did not have the scans. The radiation  
201 dose obtained as the result of participating in this study is the same as standard clinical brain  
202 scans using the same tracers. Therefore, at the doses you will receive, it is very likely that you  
203 will see no effects at all. Please inform the investigator of any participation in previous studies  
204 involving radiation exposure. Some persons may experience some discomfort while lying flat on  
205 the table for the PET-MRI scan or may feel uncomfortable or anxious in the scanner. Since the  
206 injection of the FDG requires inserting a needle into your arm vein, there can be pain and  
207 discomfort at the injection site. Bleeding and infection may also occur.

208

209 MRI Risks

210 You will be asked to complete a MRI Patient Information History form. The MRI scan does not  
211 involve any radiation exposure. You will have the scan performed by placing your head within a  
212 standard head coil or a 32 channel research head coil to obtain better images. There is no added risk  
213 with either of these head coils. Due to the strength of the magnetic field of the MRI, there is a risk  
214 of being injured by receiving a burn on your skin or if an unsecured metal object flies into the  
215 MRI scanner. In order to minimize this risk, you will be asked to remove all metal objects from  
216 your person. Also, all metal objects will be cleared from the area prior to the scan. This is the  
217 standard practice when patients undergo MRI exams. It is important when discussing the study  
218 that you inform the staff if you have any of the following:

219 – Surgically implanted electrical devices

220    - Pacemaker  
221    - Surgically placed metallic clips (aneurysm clips)  
222    - Ear implants  
223    - Any history of metal fragments in the eye  
224

225 Some persons may experience some discomfort while lying flat on the table for MRS scans or  
226 may feel uncomfortable or anxious in the scanner.  
227

228 You will also receive an intravenous injection of MRI contrast which is a material that helps  
229 show the brain lesions related to cTBI. This is standard of care for MRI imaging in cTBI  
230 patients. Side effects from the MRI contrast are mild and rare, but can include a feeling of  
231 warmth or flushing, nausea and vomiting, headache, itching, and mild skin rash or hives. With  
232 MRI contrast, any side effects are usually mild and we will treat them before you leave the  
233 facility. Severe allergic reactions are rare, but can lead to difficulty breathing, cardiac arrest,  
234 swelling of the throat or other parts of the body, convulsions, or profound low blood pressure.  
235 The Marcus Institute of Integrative Health doctors and technologists are highly trained for  
236 managing contrast reactions and have the medications required to treat such reactions on site.  
237

#### EEG Risks

238 For the EEG, a cap with electrodes will be placed on your head. This requires a gel to be applied  
239 to parts of the scalp and the cap can sometimes be uncomfortable or pull your hair. You will then  
240 have to rest quietly for approximately 20 minutes while the EEG is recorded.  
241

#### Question and Neurological Examination Risks

242 Some of the questions we will ask you as part of this study, as well as the neurological  
243 examination, might make you feel uncomfortable. You can refuse to answer any of the questions  
244 and you are free to take a brief break at any time when answering these questions or while  
245 undergoing the neurological exam. However, you must complete the questionnaire or  
246 neurological exam during the study period.  
247

#### Risks of Discovering an Incidental Finding

248 The result of the scans will be reported in a clinical report by a trained specialist. If an unknown  
249 abnormality (also called an incidental finding) is discovered on the PET or MRI scan, you will be  
250 thoroughly counseled by the study doctor and will have an opportunity to ask any questions.  
251 Such a finding may make you feel anxious or depressed. However, the information and scans  
252 will be made available to your primary care doctor or referring physician in order to manage the  
253 finding as quickly and effectively as possible.  
254

#### What To Do If You Experience Any Adverse Effects

255 You should call the study doctor as soon as possible at 215-955-2221 if, during the course of this  
256 study, you develop any side effects or symptoms. The study doctor has told you that if your  
257 condition worsens, if side effects become very severe, or if it turns out that being in this study is  
258 not in your best interest, you will be taken out of the study.  
259

264

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

266

267 Pregnant women or women who are breast feeding should not be in this study because exposure  
268 to investigational drugs may be hazardous to an embryo, fetus or nursing infant. Even  
269 medications that are well known and prescribed may have adverse effects on an embryo or fetus.  
270 Since this study also includes radiation related to the FDG PET scans, pregnant women or  
271 women who are breast feeding should not be in this study. As with any medication, there are  
272 unknown risks. To be in this study you and your partner must practice adequate birth control  
273 measures. The study doctor will discuss acceptable methods of birth control with you. If you are  
274 a woman of childbearing potential, you will have a pregnancy test before making a decision  
275 about being in this study. This requires either a urine test or that blood be drawn from a vein in  
276 your arm (1-2 tsp.) one or two days prior to the start of the study. The results of this pregnancy  
277 test will be made available to you prior to the start of the study.

278

279 If you become pregnant during the course of this study, you should notify the study doctor as  
280 soon as possible.

281

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

285

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

287

288 You do not have to participate in this study.

289

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

291

292 Federal regulations require that certain information about individuals be kept confidential. This  
293 information is called “protected health information” (PHI). PHI includes information that  
294 identifies you personally such as name, address and social security number, or any medical or  
295 mental health record, or test result, that may have this sort of information on it. The laws state  
296 that you may see and review your TJU or Thomas Jefferson University Hospital medical records  
297 at any time. However, in a research study, you may not see the study results or other data about  
298 the study until after the research is completed unless the study doctor decides otherwise.

299

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

306

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

309 • Principal Investigator or designated research staff, who will oversee the study and review  
310 medical records to ensure study-related information is correct,  
311 • With any person or agency required by law.

313 If you develop an illness or injury during the course of your participation in this study, other PHI  
314 about treating and following the condition may be generated and disclosed as it relates to this  
315 study. Your PHI may be used/disclosed until the end of the research study.

317 You may quit the study and revoke permission to use and share your PHI at any time by  
318 contacting the Principal Investigator, in writing, at: Andrew Newberg, MD, 925 Chestnut Street,  
319 Suite 120, Philadelphia, PA 19107. If you quit the study, further collection of PHI will be  
320 stopped, but PHI that has already been collected may still be used.

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

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

### 331 **What if I am injured as a result of being in this study?**

333 In the event that you experience a research-related injury, necessary and available medical care  
334 (including hospitalization) will be provided. A research-related injury is a physical injury or  
335 illness resulting to you that is directly caused by any procedure or treatment used in this study  
336 that is different from the treatment you would receive if you were not participating in a research  
337 study. If you are physically injured due to any drug/substance or procedure properly given under  
338 the plan for this study, medical expenses for treating the injury will be billed to your insurance  
339 carrier. You should be aware that some costs may not be covered by insurance. There is no plan  
340 to provide compensation for loss of wages, lost time from work, personal discomfort, or for  
341 injuries or problems related to your underlying medical condition(s).

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

### 346 **Will I benefit from being in this study?**

348 You may not benefit from being in this research, but we hope that what we learn may be helpful  
349 to future patients or society in general.

351 **Will I be paid for being in this study?**

352

353 You will not receive any additional payment for participation in the study. You will receive  
354 parking vouchers for the days that you travel to the downtown Jefferson office for any evaluation  
355 or IV. There is free parking at the Villanova office.

356

357 **Will I be told about any new findings?**

358

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

361

362 **Disclosure of Financial Interest**

363

364 None of the investigators has any financial interest in the companies that provide products for  
365 this study.

366

367 **Are there costs related to being in this study?**

368

369 There will be no charge to you for participating in the study. Some diagnostic studies that are  
370 clinically indicated may be covered by your insurance such as for the scans, EEG, or laboratory  
371 analyses. However, if your insurance does not cover these in part or in full, they will be covered  
372 as part of your participation in the study. The dietary counseling and the NAC are provided as a  
373 part of this study.

374

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

377

378 **Standard Testing Procedures**

379

380 Procedures, tests and doctor's charges resulting that are considered standard of care will be billed  
381 to your health insurance carrier. These are charges that you would have whether or not you were  
382 participating in a research study which include standard physical and neurological examinations,  
383 medications prescribed by your physician, and any other medical treatment you undergo. It is  
384 possible that your insurance company may deny payment. If that happens you may be  
385 responsible for some or all of these charges. The study doctor will explain to you which  
386 procedures, tests and doctor visits are considered standard of care.

387

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

390

391 **Can I be removed from the study or quit the study?**

392

393 Your decision to participate in this research study is entirely voluntary. You have been told what  
394 being in this study will involve, including the possible risks and benefits.

395

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

398

399 You may refuse to participate in this investigation or withdraw consent and quit this study  
400 without penalty and without affecting your ability to receive medical care at Thomas Jefferson  
401 University.

402

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

405 Should you decide to withdraw from the study, please be sure to inform the study doctor.

406 Additional tests or procedures may be needed to ensure your safety. The study doctor will  
407 explain why these tests or procedures are necessary.

408

409 If you miss a total of 5 or more days of the oral supplements or 5 doses of the intravenous NAC  
410 you may be asked to be removed from the study by the investigators. Similarly, if you are not  
411 following the anti-inflammatory diet, you may be asked to be removed from the study by the  
412 investigators.

413

## 414 CONTACT INFORMATION

415

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	Principal Investigator Andrew B. Newberg, MD  Co-Investigator, Daniel A. Monti, MD  Program Manager, Nancy Wintering, LCSW	215-503-3422  215-955-4410  215-503-3423
If you have difficulty contacting the study staff	Call the Jefferson Office of Human Research	215-503-0203

416

417 If you want more information about the Jefferson Institutional Review Board or Jefferson's  
418 Human Research Protection Program, please visit our website at  
419 [http://www.jefferson.edu/human\\_research/irb/index.cfm](http://www.jefferson.edu/human_research/irb/index.cfm)

420

421 The physician investigator's signature certifies that s/he personally provided the study  
422 participant with a description of the study, study procedures, risks, benefits and  
423 alternatives to participation.

424  
425 **Non-Waiver of Legal Rights Statement**

426  
427 **By your agreement to participate in this study, and by signing this consent form, you are**  
428 **not waiving any of your legal rights.**

429  
430 **In order to be in this research study, you must sign this consent form.**

431  
432 **You affirm that you have read this consent form. You have been told that you will receive a**  
433 **copy.**

434 **Signatures:**

435  
436  
437 \_\_\_\_\_ (Date)

438 Your Name (please print or type)

439  
440  
441 \_\_\_\_\_ (Date)

442 Your Signature

443  
444  
445  
446  
447  
448 (Date)

449 Witness Signature

450  
451  
452  
453  
454  
455  
456  
457  
458  
459  
(Only required if subject understands and speaks  
English, but cannot read English, or if subject is blind  
or cannot physically sign the consent form—delete if  
inapplicable)

450 Name of Person Conducting Consent Interview

451  
452 \_\_\_\_\_ (Date)  
453 Signature of Person Conducting Consent Interview

454  
455  
456 \_\_\_\_\_ (Date)  
457 Signature of Principal Investigator or  
458 Co-Investigator

As Per University Counsel - Do Not Sign  
This Consent Form After 11-10-22

