

Cover Page to Accompany ClinicalTrials.gov Document

Informed Consent

for

**Pilot Study of the Physiological Effects of an Integrative Medicine
Approach in Irritable Bowel Syndrome**

June 6, 2019

Thomas Jefferson University IRB ID: 17D.184

Clinical Trial Number: NCT03370614

Thomas Jefferson University
Informed Consent Document for Human Subjects Research

Department: Emergency Medicine and Radiology

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Medical Study Title: Pilot Study of the Physiological Effects of an Integrative Medicine Approach in Irritable Bowel Syndrome

Lay Study Title: PET-MRI in IBS

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 symptoms of Irritable Bowel Syndrome which means that you have experienced significant gastrointestinal (GI) symptoms. It is important to understand the brain and GI mechanisms of IBS in order to better determine therapeutic interventions to reduce pain. Part of the difficulty in treating IBS is to determine how better to diagnose what specific issues are affecting the brain and GI tract that result in symptoms. In order to assess, the brain and GI tract

ess the brain and GI tract
Thomas Jefferson University IRB

Approval Date 3/11/21

Expiration Date 3/10/22

Annual review due 6 weeks before expiration.

44 function more effectively, we would like to have you undergo a small battery of diagnostic tests
45 that include magnetic resonance imaging (MRI), positron emission tomography (PET). In
46 addition, you will receive several questionnaires and a clinical evaluation to determine the nature
47 and level of your IBS symptoms. A secondary goal of this study is to determine if integrative
48 therapy based on diet and nutritional counseling will improve your IBS symptoms and alters GI
49 or brain physiology. All subjects will receive the dietary and nutritional counseling program.
50 The dietary and nutritional counseling will begin with a one hour session to review the diet and
51 nutrition program in detail. We will contact you a minimum of once a month to review the
52 recommendations, answer any questions you have, and help ensure that you are following the
53 dietary recommendations. Prior to starting this intervention and at the end of approximately 2
54 months of receiving it, you will undergo the brain and body scan evaluation and receive clinical
55 and pain testing.
56

57 **How many individuals will participate in the study and how long will the study last?**
58

59 We hope to enroll up to 60 patients at Jefferson. The entire study will take about 2 years to
60 complete. Your involvement in the study will last about 3 months.
61

62 **What will I have to do during the study?**
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64 The informed consent process will be completed with you. You will be asked questions about
65 your medical history and about the medications you are taking. You will also be asked to
66 complete several questionnaires about your mood, quality of life, and your GI symptoms which
67 will take no longer than one hour to complete. You will also undergo a clinical examination
68 evaluating your GI symptoms in order to determine how much they affect you. A full set of
69 laboratory values will be obtained including measures of inflammation. You will repeat this
70 process including the questionnaires and examination again in 2 months. You may also undergo
71 an initial stool analysis. Throughout the study, you will continue to take whatever medications
72 your doctor has prescribed for you. However, we will ask you to try to remain at the same dosage
73 of any medication throughout the study unless your doctor changes the dose because of
74 worsening symptoms or because of side effects.
75

76 You will initially receive two different scans that will be performed simultaneously in a special
77 combined scanner. One scan, called positron emission tomography (PET), will evaluate your
78 brain and body metabolism to determine which areas of your brain and which parts of your body
79 are functioning differently. The other scan, called magnetic resonance imaging (MRI) will
80 evaluate the structure and function of the brain, along with the connecting fibers affected by
81 pain. On the day of both scans, you will report to the Marcus Institute of Integrative Health at
82 789 E. Lancaster Avenue in Villanova, PA 19085.
83

84 Female subjects of child bearing potential will first have a pregnancy test and if negative will
85 proceed with the remainder of the study. The PET scan measures the energy metabolism in the
86 brain and body which is particularly affected by pain symptoms. The PET scan works by
87 injecting into your vein a radioactive medicine called FDG. FDG is a form of the sugar, glucose
88 that is used by your brain for energy. By injecting the FDG, we can see where in the brain and
89 body it goes so that we can take a picture of the activity in these areas. After injection of the
90 tracer, you will be asked to rest quietly in a dimly lit room for approximately 30 minutes. At that
91 point, you will be brought into the scanner room and will lie down on the PET imaging table.
92 The remainder of the procedure involves having your head held comfortably in a special head
93 holder as a reminder not to move your head and remain still while the scanner takes pictures of
94 your brain. Immediately after the brain scan, you will be allowed to have a brief break (no more
95 than 5 minutes) and then we will scan your abdomen and pelvis (to see your GI tract).
96

97 The MRI scan is performed simultaneously with the PET scan using a special PET-MRI scanner
98 that can do both at the same time. Before the MRI scan, we will ask you a number of questions to
99 make sure you do not have any metal in your body that might affect the scanner. The MRI scans
100 add no radiation, but do make loud banging noises for which you will be given ear plugs to block
101 the sound. The MRI, along with the PET scan, is done over a total period of time of about 60
102 minutes.
103

104 After you receive the initial diagnostic testing above, you will receive the dietary and nutritional
105 counseling which will last approximately one hour. This program will be individualized to your
106 specific dietary/nutrition problems as they are related to your IBS. In addition, we will contact
107 you in one month by phone (or in person if you desire) to answer questions and help ensure that
108 you are following the diet and nutrition recommendations. After following the dietary/nutrition
109 program for two months, you will return for your follow up visit in which you will undergo the
110 same imaging and diagnostic testing as you did initially. That will conclude your participation in
111 the study.
112
113

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

116 Integrative Dietary and Nutritional Counseling Program

117 The diet is a healthful diet that provides all the essential dietary requirements. Anytime a diet is
118 changed, gastrointestinal discomfort or symptoms may occur.
119

120 PET Risks

121 Use of FDG PET imaging is commercially approved, and has resulted in very rare adverse
122 effects of skin redness, facial swelling, fever, and short lasting rise in blood pressure. This
123 research study involves exposure to radiation from the FDG PET scan and therefore you will
124 receive a radiation dose that you would not receive if you did not have the scans. The radiation
125 dose obtained as the result of participating in this study is the same as standard clinical brain
126 scans using the same tracers. Therefore, at the doses you will receive, it is very likely that you
127 will see no effects at all. Please inform the investigator of any participation in previous studies
128 involving radiation exposure. Cumulative radiation doses have been associated with some forms

129 of cancer, and thus, repeated exposure to radiation should be minimized. The radiation exposure
130 from the FDG PET scan is equivalent to flying in an airplane across the country. Some persons
131 may experience some discomfort while lying flat on the table for the PET-MRI scan or may feel
132 uncomfortable or anxious in the scanner. Subjects may feel hungry, dizzy or light-headed from
133 fasting prior to the FDG scan. Since the injection of the FDG requires inserting a needle into
134 your arm vein, there can be pain and discomfort at the injection site. Bleeding and infection may
135 also occur.
136

137 **MRI Risks**

138 You will be asked to complete a MRI Patient Information History form. The MRI scan does not
139 involve any radiation exposure. Due to the strength of the magnetic field of the MRI, there is a
140 risk of being injured if an unsecured metal object flies into the MRI scanner. In order to
141 minimize this risk, you will be asked to remove all metal objects from your person. Also, all
142 metal objects will be cleared from the area prior to the scan. This is the standard practice when
143 patients undergo MRI exams. It is important when discussing the study that you inform the staff
144 if you have any of the following:

- 145 – Surgically implanted electrical devices
- 146 – Pacemaker
- 147 – Surgically placed metallic clips (aneurysm clips)
- 148 – Ear implants
- 149 – Any history of metal fragments in the eye

150
151 Some persons may experience some discomfort while lying flat on the table for MRS scans or
152 may feel uncomfortable or anxious in the scanner.

153

154 **Survey Question and Clinical Examination Risks**

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

160

161 **Risks of Discovering an Incidental Finding**

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

168

169 **What To Do If You Experience Any Adverse Effects**

170 You should call the study doctor as soon as possible at 215-503-3422 if, during the course of this
171 study, you develop any side effects or symptoms. The study doctor has told you that if your
172 condition worsens, if side effects become very severe, or if it turns out that being in this study is
173 not in your best interest, you will be taken out of the study.

174

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

176

177 Pregnant women or women who are breast feeding should not be in this study because exposure
178 to the radioactive materials may be hazardous to an embryo, fetus or nursing infant. Even
179 medications that are well known and prescribed may have adverse effects on an embryo or fetus.
180 Since this study also includes radiation related to the FDG PET scans, pregnant women or
181 women who are breast feeding should not be in this study. As with any medication, there are
182 unknown risks. To be in this study you and your partner must practice adequate birth control
183 measures. The study doctor will discuss acceptable methods of birth control with you. If you are
184 a woman of childbearing potential, you will have a pregnancy test before making a decision
185 about being in this study. This requires either a urine test or that blood be drawn from a vein in
186 your arm (1-2 tsp.) one or two days prior to the start of the study. The results of this pregnancy
187 test will be made available to you prior to the start of the study.
188

189

190 If you become pregnant during the course of this study, you should notify the study doctor as soon
191 as possible.
192

193

194 If you are a person in a same sex relationship, it is not necessary for you to practice birth control.
195 However, if you are female, you will still have to have pregnancy tests according to the study
196 protocol.
197

198

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

200

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202 Federal regulations require that certain information about individuals be kept confidential. This
203 information is called “protected health information” (PHI). PHI includes information that identifies
204 you personally such as name, address and social security number, or any medical or mental health
205 record, or test result, that may have this sort of information on it. The laws state that you may see
206 and review your TJU or Thomas Jefferson University Hospital medical records at any time.
207 However, in a research study, you may not see the study results or other data about the study until
208 after the research is completed unless the study doctor decides otherwise.
209

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211 If you join this study, the following individuals or entities may have access to your PHI and by law
212 must protect it. These include investigators listed on this consent form and other personnel of
213 Thomas Jefferson University and Thomas Jefferson University Hospitals, Inc. involved in this
214 specific study, the University’s Division of Human Subjects Protection and the Institutional
215 Review Board (IRB), and your health insurance company (if necessary for billing for standard
216 medical care).
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219 Your PHI may also be shared with the following entities that, while not obligated by law to protect
220 PHI, will protect it to the best of their ability:

219 • The Principal Investigator or designate, who will oversee the study and review medical
220 records to ensure study-related information is correct,
221 • With any person or agency required by law.
222

223 If you develop an illness or injury during the course of your participation in this study, other PHI
224 about treating and following the condition may be generated and disclosed as it relates to this
225 study. Your PHI may be used/disclosed until the end of the research study.
226

227 You may quit the study and revoke permission to use and share your PHI at any time by contacting
228 the principal investigator, in writing, at: Andrew Newberg, 925 Chestnut Street, Suite 120,
229 Philadelphia, PA 19107. If you quit the study, further collection of PHI will be stopped, but PHI
230 that has already been collected may still be used.
231

232 After the completion of the study or at the participant's request, the results of these scan will be
233 made available to your primary care and referring physician for their clinical decision making.
234 The results of clinical tests and procedures performed as part of this research may be included in
235 your medical records. The information from this study may be published in scientific journals or
236 presented at scientific meetings but you will not be personally identified in these publications and
237 presentations.
238

239 A description of this clinical trial will be available on <http://www.ClinicalTrials.gov>, as required
240 by U.S. Law. This Web site will not include information that can identify you. At most, this Web
241 site will include a summary of the results. You can search this Web site at any time.
242

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

244
245 In the event that you experience a research-related injury, necessary and available medical care
246 (including hospitalization) will be provided. A research-related injury is a physical injury or illness
247 resulting to you that is directly caused by any procedure or treatment used in this study that is
248 different from the treatment you would receive if you were not participating in a research study. If
249 you are physically injured due to any drug/substance or procedure properly given under the plan
250 for this study, the medical expenses for treating the injury will be billed to your insurance carrier.
251 You should be aware that some costs may not be covered by insurance. There is no plan to provide
252 compensation for loss of wages, lost time from work, personal discomfort, or for injuries or
253 problems related to your underlying medical condition(s).
254

255 If you receive a bill related to a research-related injury that seems wrong, please discuss it with the
256 study doctor or research coordinator.
257

258 **Will I benefit from being in this study?**

259
260 You may not benefit from being in this research, but we hope that what we learn may be helpful
261 to future patients or society in general.
262

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

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265 You will not receive any payment for participating in the study, but you will have access to your
266 scans and other clinical data as well as have the opportunity to receive dietary and nutritional
267 counseling.

268

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

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271 You will be told about any new findings obtained from your diagnostic scans.

272

273 **Disclosure of Financial Interest**

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

277

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

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280 There will be no charge to you or your health insurance for any of the PET or MRI scans, or for
281 the dietary and nutritional counseling program as a part of this study.

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

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286 **Standard Testing Procedures**

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288 All testing procedures that are part of this research study are for research purposes only. You will
289 not be billed for any of these procedures.

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

294

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

296

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

299

300 Your participation in this research project may be terminated by the study doctor without your
301 consent/assent for any reason that he/she feels is appropriate, particularly if it pertains to your
302 health or if you are not following the dietary/nutritional program.

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

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307 If you withdraw from this study, you may continue treatment with your Jefferson doctor, or you
308 may seek treatment from another doctor of your choice.
309 Should you decide to withdraw from the study, please be sure to inform the study doctor.
310 Additional tests or procedures may be needed to ensure your safety. The study doctor will
311 explain why these tests or procedures are necessary.
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315 **CONTACT INFORMATION**

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|---|---|--|
| 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 |

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318 If you want more information about the Jefferson Institutional Review Board or Jefferson's
319 Human Research Protection Program, please visit our website at
320 http://www.jefferson.edu/human_research/irb/index.cfm
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338 **This section left blank intentionally.**

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

340

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

343

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

345

346 **You affirm that you have read this consent form. You have been told that you will receive a**
347 **copy.**

348 **Signatures:**

349

350

351

352 Your Name (*please print or type*)

353

354

355 _____ (Date)

356 Your Signature

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Witness Signature

(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)

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

Name of Person Conducting Consent Interview

371 _____ (Date)

372 Signature of Person Conducting Consent Interview

375 _____ (Date)

376 Signature of Principal Investigator or
377 Co-Investigator

As Per University Counsel - Do Not Sign
This Consent Form After 3/10/20