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2 **The Ohio State University Consent to Participate in Research**
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Study Title: The IMPACT Study: Inflammatory Responses, Mood, and Physical Fitness after Cancer Treatment

Principal Investigator: Janice Kiecolt-Glaser, PhD

Sponsor: National Cancer Institute

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6 • **This is a consent form for research participation.** It contains important information
7 about this study and what to expect if you decide to participate. Please consider the
8 information carefully. Feel free to discuss the study with your friends and family and
9 to ask questions before making your decision whether or not to participate.
- 10 • **Your participation is voluntary.** You may refuse to participate in this study. If you
11 decide to take part in the study, you may leave the study at any time. No matter what
12 decision you make, there will be no penalty to you and you will not lose any of your
13 usual benefits. Your decision will not affect your future relationship with The Ohio
14 State University. If you are a student or employee at Ohio State, your decision will
15 not affect your grades or employment status.
- 16 • **You may or may not benefit as a result of participating in this study.** Also, as
17 explained below, your participation may result in unintended or harmful effects for
18 you that may be minor or may be serious depending on the nature of the research.
- 19 • **You will be provided with any new information that develops during the study**
20 **that may affect your decision whether or not to continue to participate.** If you
21 decide to participate, you will be asked to sign this form and will receive a copy of the
22 form. You are being asked to consider participating in this study for the reasons
23 explained below.
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26 **1. Why is this study being done?**
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28 Cardiovascular function often declines during and following cancer treatment. This study
29 addresses how your cardiovascular function affects your body's immune response (certain
30 kinds of white blood cells) in ways that may be related to risks for fatigue (tiredness),
31 negative mood, pain sensitivity, memory, and concentration, which are all particularly
32 relevant for cancer survivors. The researchers will use a typhoid vaccine to stimulate brief
33 changes in your immune response to see how your responses to the vaccine compare with
34 responses to a placebo (saline or salt water). They will also measure certain hormone
35 responses and your heart rate and blood pressure and metabolic rate to see how they respond
36 to the vaccine compared to the placebo. The researchers also want to know if your age and/or
37 feeling blue or depressed may affect your body's responses to the vaccine.

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2. How many people will take part in this study?

240 breast cancer survivors will take part in the study.

3. What will happen if I take part in this study?

You will be scheduled for a screening appointment and two nonconsecutive full-day visits. The first screening visit and the full-day visits will take place at the Clinical Research Center (CRC), a hospital research unit located at the OSU Wexner Medical Center. All visits will occur on weekdays.

Visit	CRC Screen		Visit 1	Visit 2
Length	2 hours		9.5 hours	9.5 hours
Activity	Consenting	Eligibility Determined	Blood draws	Blood draws
	Anemia/Diabetes blood draw		Questionnaires	Questionnaires
	Questionnaires		Metabolic Measurements	Metabolic Measurements
	Body measurements		Computer tasks	Computer tasks
			Heart Rate/blood pressures/temp	Heart Rate/blood pressures/temp
			<i>Condition:</i> Typhoid vaccine or Placebo/saline	<i>Condition:</i> Typhoid vaccine or Placebo/saline

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Screening visit: You will first participate in a screening appointment, which will last approximately 2 hours, to determine if you are eligible to take part in the full study. At the screening appointment, a nurse will measure your weight, height, blood pressure, and the distance around your hips and waist. A measurement will also assess the amount of fat present in your abdominal area. Ideally, the measurements are taken on bare skin or over underwear. If you are uncomfortable removing the clothing on your lower body, the measurements will be taken over your clothes.

Early in the screening session, you will have 5 ml (less than a tablespoon) of blood drawn from a vein in your arm, as well as a finger stick blood test. These blood samples will be used to determine your hemoglobin A1C (a test related to your risk for diabetes), as well as a test for anemia (a condition characterized by too few red blood cells, usually resulting in tiredness). If your blood test indicates that you may have diabetes, then you will not be able to participate further in the screening session; however, you will be compensated \$5 for your time and asked to see your physician. If your blood test indicates that you may be anemic, you can complete the first screening appointment and will be compensated \$25 for your time. However, you will not be able to participate in the study at that time, and you will be asked to see your physician. You have the option of being retested for anemia in 6 weeks; if you are

68 no longer anemic, then you may be eligible to participate in the remainder of the study. If you
69 are still anemic, you will not be able to participate in the second screening session or the two
70 all-day sessions. If you do not have a personal physician, you will be given contact
71 information for OSU physicians who can treat these medical conditions.

72

73 During the screening session you will complete psychological questionnaires that include
74 questions of a personal nature regarding your mood, feelings, health behaviors, health, and
75 personality. In order to assess your typical food intake, you will be asked to list all the foods
76 you ate in the last 24 hours. You will be asked about depression and anxiety symptoms that
77 you have experienced over your lifetime and this interview will be audio-recorded so that
78 interview responses can be formally coded; all digital recordings will be kept in our
79 password-protected computer system. At the end of the screening appointment, as part of
80 standard procedures, you will be provided with a list of psychological counseling services
81 should you wish to talk with someone at that time or in the future about any problems you are
82 having. Finally, in order to measure hand strength, you will be asked to squeeze an instrument
83 that measures your grip strength.

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85 If you are eligible for the rest of the study, you will be scheduled for two full-day visits to the
86 CRC. These visits will be scheduled 14-30 days apart.

87

88 *In preparation for the visits:* Recent exercise and alcohol use can affect your body's immune
89 responses. For the two days before each full-day visit, you will be asked to refrain from
90 consuming alcohol and to avoid any strenuous physical activity. If you have been instructed
91 by your physician to take aspirin daily, you can continue to take it; otherwise, you should
92 refrain from taking aspirin and nonsteroidal anti-inflammatory drugs (NSAIDs) for the 7 days
93 prior to each visit. You should not change your diet or start taking any new dietary
94 supplements or vitamins because this could influence the immune and hormone measures that
95 the study is examining. If you make any important changes to your diet or if you begin taking
96 dietary supplements during the course of the study, you must inform the researchers.

97

98 You cannot eat anything after 7:30 PM on the nights before the two full-day visits, but you
99 can drink as much water as you want, and you should take any prescription medications as
100 scheduled. On the day of each visit, you will be given a standardized breakfast as soon as you
101 receive either the vaccine or saline (placebo) injection. You will also receive a standardized
102 lunch later in the day.

103

104 You provided information about any medications and current physical problems when you
105 were scheduled for this study. If you have started taking any new medications, have
106 developed any significant health problems, or received a new vaccine, you must inform the
107 researchers immediately.

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109 **Full-day visits 1 and 2:** Recent illness can affect your body's immune response. If you have
110 a temperature greater than 99.7°F when you arrive to the CRC, we will cancel the session and
111 reschedule for a later date.

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113 At the beginning of each of your full-day visits, a catheter (a small, hollow plastic tube) will
114 be inserted into a vein in your arm so that small amounts of blood can be drawn at different
115 times across the visit. The catheter will be removed at the end of each visit. You will have a
116 total of 250 ml (1 cup + 1 tablespoon) of blood drawn during each of the 9½ hour visits. At
117 the end of the research day a final teaspoon of blood will be drawn from your arm which does
118 not have the catheter inserted; this is to confirm that immune changes are not just reflecting
119 local changes at the catheter site. A total of 510 ml of blood (just under 2 1/4 cups) will be
120 drawn across the screening visit and both study visits that are ideally scheduled over the span
121 of 3-4 weeks. These samples will be used to examine the blood levels of hormones and
122 immune function indicators.

123
124 The nurse will administer an injection into your upper arm that contains either saline (salt
125 water) or a typhoid vaccine. Neither you nor the research staff will know the injection type for
126 the day. This is because a person's expectations can sometimes influence the way that she
127 feels throughout the day. If you are not willing to receive the injections, you will not be able
128 to participate in the study.

129
130 At each visit, a nurse will place a Polar™ band or similar sensor that wraps around your chest
131 to assess your heart rate and a sensor on each wrist to assess your perspiration. You will be
132 asked to time your breathing to a pre-recorded tape for five minutes in order to help us better
133 understand how your normal breathing affects your heart rate. Throughout your full-day
134 visits, nurses will monitor your blood pressure, heart rate, and body temperature.

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136 During both of the full-day visits you will complete questionnaires and interviews that include
137 personal questions about mood, feelings, health behaviors, health, and personality; the
138 interviews will be audio-recorded. In order to assess your typical food intake, you will be
139 asked to list all the foods you ate in the last 24 hours. You will also be asked to perform
140 several tasks on the computer and with the research assistant, including tests that measure
141 aspects of concentration and memory.

142
143 At your first full-day visit, body composition (fat tissue mass and lean tissue mass) will be
144 assessed using a DEXA (dual x-ray absorptiometry) machine. You will be asked to wear
145 clothing with minimal metal, remove all jewelry, empty your pockets, and take off your
146 glasses and shoes before lying down on the DEXA table. You will be instructed to remain still
147 in position on the DEXA table while being scanned for 15-20 minutes. If you have any doubt
148 about whether you are postmenopausal, we will ask for a urine sample to make sure you are
149 not pregnant prior to the test.

150
151 At several times during both visits you will be asked to talk out loud into a tape recorder for a
152 minute or two about your thoughts about your health, the study, the setting, the experimenter,
153 or other things you may have been thinking about during the study. Researchers will not be
154 present while you record your thoughts. These tapes will be used to assess your reactions to
155 different parts of the study and your thoughts about your health.

156

157 You will be asked to perform a temperature sensitivity test, to study how the vaccine-related
158 changes affect your sensitivity to heat and cold. During this task, you will be asked to place
159 your non-dominant hand on a thermal plate (a device that changes temperature). The
160 temperature of the plate will gradually increase and decrease. You will be asked to rate how
161 painful the temperatures feel, and to remove your hand if the temperature becomes too
162 painful.

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164 In order to measure hand strength, you will be asked to squeeze an instrument that measures
165 your grip strength.

166
167 You will provide 15 saliva samples to measure how hormones related to the immune response
168 may have changed during each of the full-day visits. For this purpose, you will put a piece of
169 dental cotton in your mouth for 1-2 minutes each time to saturate the cotton.

170
171 During both visits your metabolic response to the vaccine and placebo will be measured 6-8
172 times. For this purpose you will lay in a hospital bed with a facemask that covers your nose
173 and mouth for about 20 minutes each time. During these times, you will be asked to lay still
174 and breathe normally.

175
176 To provide a uniform experience during parts of the visits, you will be asked to watch DVDs
177 of nature shows or documentaries. During the time you are in the CRC, you will only be able
178 to use your cell phone to make or receive calls or e-mails at set times. In the case of an
179 emergency, however, your family will be able to reach you at 614-293-8750.

180
181 You will be called the day following each of your long visits, and asked to answer questions
182 which should take 5 to 10 minutes about your sleep, fatigue, pain, and thinking since your
183 visit.

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185 We will get information from your doctor's treatment records about the tests you have had for
186 your breast cancer, as well as information on the type of breast cancer, the stage, and the
187 treatment you received, any current medications, and other health conditions so we can see if
188 these are related to your immune responses. If you have already participated in one of our
189 ongoing studies, such as THRIVE or Yoga for Breast Cancer Survivors Research Program,
190 we will also use the health information that you shared at that time, as well as collecting any
191 new updated information on medications or health conditions.

192
193 **Genetic studies:** The study will also investigate how differences in genetic material (DNA
194 and RNA) may be related to an individual's vaccine responses. The researchers are trying to
195 determine if particular genetic markers (certain characteristics of a person's DNA) among
196 those who also have certain immune responses and/or have recent stressful experiences are
197 associated with changes in the immune response, and stress and appetite hormones in
198 comparison to individuals who do not have the same genetic markers. The researchers will
199 use frozen samples of your white blood cells as one source of DNA, as well as saliva samples.

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201 No medical report will be added to your medical records based on this testing or any other
202 part of your research participation. Your sample will not have identifying information such as
203 your name, initials, or address on it, only a code number. The specimens for testing will be
204 stored with the same code number that is used on all the questionnaires and other forms you
205 have completed; the results of the testing will be kept confidential and will not be released.
206 Names and other identifying information will be kept separate from the samples. No
207 identifying information will be in any publication or reports; only group results, with no
208 personal code number or other identifiers, will be reported. Scientists working with your
209 DNA samples will not have access to any identifying information. The researchers for this
210 study will store your DNA samples in a secure room with limited access.

211
212 Neither you nor your doctor will receive the results of your DNA testing. If you decide that
213 you want to pursue genetic testing in the future based on results reported for this study, it will
214 be at your expense and you will be referred to the genetic testing and counseling services in
215 the OSU Medical Center. It may be a long time (months or years) before results from this
216 study are available. In the unlikely event that any profitable discoveries are made using your
217 biological material, you will not receive any personal financial benefit. If there are any patent
218 or commercial uses of your DNA data, any identifiable information linking the data to you
219 will be destroyed (e.g. your name, address, phone number, and social security number).

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221 **You can decide not to participate in the genetic portion of this research study but still be**
222 **able to take part in the main research study.**

223 **I wish to participate in the genetic portion of this research study**

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225 **I do NOT wish to participate in the genetic portion of this research study**

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228 **4. How long will I be in the study?**

229 Your participation will be complete in about 3-5 weeks, depending on scheduling availability
230 in the Clinical Research Center and your personal schedule. There are a total of 3 sessions at
231 the CRC, 1 screening session and 2 all-day visits. The screening visit will last approximately
232 2 hours. The full-day visits will take 9½ hours each, and will be scheduled 14-30 days apart.
233 The total anticipated participation time for all visits and the interviews is 21-23 hours.

234 **5. Can I stop being in the study?**

235 You may leave the study at any time. If you decide to stop participating in the study there
236 will be no penalty to you, and you will not lose any benefits to which you are otherwise
237 entitled. Your decision will not affect your future relationship with The Ohio State
238 University. In addition, your study participation can be stopped without your consent if we
239 cannot obtain blood samples or exercise testing data, or if you refuse the vaccine or saline
240 injections. Any results obtained prior to your withdrawal from the study will be part of the
241 overall study results.

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244 You can withdraw from this study at any time and withdraw your consent for the use of your
245 white blood cells for genetic research. Upon withdrawing consent, your samples for genetic

246 research will be destroyed (along with any study code number) if they have not already been
247 used. Any results obtained prior to your withdrawing from the study will be part of the
248 overall study results.

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250 **6. What risks, side effects or discomforts can I expect from being in the study?**

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252 For the blood draws and the catheter: You may experience bruising at the blood draw site,
253 infection, pain, fainting, and redness. These are risks that occur whenever blood is drawn.
254 There is a minor risk of an allergic response to the tape used to hold the catheter in place that
255 may include redness, rash, swelling, small blisters, itching, and discomfort on the arm where
256 the skin was covered by the tape. There is also a minor risk of anemia (a condition
257 characterized by too few red blood cells, usually resulting in tiredness or light-headedness)
258 associated with having your blood drawn. Therefore, you are advised not to donate blood
259 within 8 week of study participation.

260

261 For blood pressure and heart rate: You may experience mild discomfort from the blood
262 pressure cuff that will be used approximately every hour. During the exercise test, you may
263 feel some skin irritation at the site where the heart rate adhesive sensors are removed, much
264 like you experience when you pull off Band-Aids from your skin.

265

266 For the typhoid vaccine: If you take part in this research, you will receive a typhoid vaccine
267 at one of your full-day visits. The vaccine has a well-established safety profile and is well-
268 tolerated in adults. Side effects are mild and infrequent. You may experience local pain,
269 redness, raised skin, or swelling at the injection site. About 1 in 10 people who receive the
270 vaccine report feeling feverish or experience a headache; the likelihood that you will
271 experience a clinical fever (as measured by a nurse) is about 1 in 100. Other side effects, such
272 as a rash, muscle or joint pain, or gastrointestinal discomfort are also rare, and occur in about
273 2 out of 100 people. There is a rare risk of severe allergic reaction that could require
274 emergency medical treatment.

275

276 For the DEXA scan: If you take part in this research, you will have one medical imaging
277 procedure (DEXA) which uses radiation, in order to get a lean body mass measurement. To
278 give you an idea about how much radiation you will receive, we will make a comparison with
279 an every-day situation: a single DEXA scan produces a very small amount of radiation,
280 approximately 1/10th of that experienced during a cross-country air flight or 1/120th of what
281 you would experience during a dental scan.

282

283 Everyone receives a small amount of unavoidable radiation each year. Some of this radiation
284 comes from space and some from naturally-occurring radioactive forms of water and
285 minerals. This research gives your body the equivalent of about 4 extra days' worth of this
286 natural radiation. The radiation dose we have discussed is what you will receive from this
287 study only and does not include any exposure you may have received or will receive from
288 other tests.

289

290 This procedure will not add to the risk of the research. However, if you have concerns about
291 your total radiation exposure, you should discuss them with your physician.

292

293 For questionnaires, interviews, and cognitive tests: Personal questions may make you
294 uncomfortable or be stressful. Should you reveal suicidal intent, the researchers are required
295 to evaluate risk and may contact appropriate authorities if you appear to be at imminent risk
296 for harm to yourself or others.

297

298 For the temperature sensitivity test: You may experience short-term pain or discomfort
299 associated with exposing your hand to hot or cold temperatures. You may remove your hand
300 from the plate when the pain or discomfort becomes too great. The test will be stopped before
301 reaching extreme temperatures (55° C or -4°C), therefore the temperatures used are not hot or
302 cold enough for any lasting temperature effects to occur.

303

304 For grip strength assessments: You may experience some slight hand and/or arm soreness.

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306 Incidental findings from routine hospital blood analyses: Any potentially abnormal results
307 from the hospital lab data (blood cell count and triglycerides) will be first discussed with Dr.
308 Malarkey to confirm the nature and seriousness of the problem; if there appears to be reason
309 for concern, you will be informed of the abnormal value and advised to seek treatment from
310 your personal physician. Neither you nor your doctor will receive the results of the immune
311 or hormone tests unless the results appear potentially abnormal.

312

313 For genetic testing: Because you will not be receiving your personal results from this study,
314 most of the usual psychological risks associated with genetic testing do not apply to you. If
315 you decide, at your expense, to undergo clinical genetic testing in the future based on
316 discoveries made as part of this study, the risks of receiving genetic test results will be
317 discussed with you at that time.

318

319 The results of the testing will be kept confidential to the fullest extent possible. Although the
320 specimens will be stored with a code number, if this confidentiality were broken, a researcher
321 could learn something about you that you do not want them to know (i.e., name, address, or
322 other personal information you do not want them to have).

323 A federal law, called the Genetic Information Nondiscrimination Act (GINA), generally
324 makes it illegal for health insurance companies, group health plans, and most employers to
325 discriminate against you based on your genetic information. This law generally will protect
326 you in the following ways:

- 327 • Health insurance companies and group health plans may not request your genetic
328 information from this research.
- 329 • Health insurance companies and group health plans may not use your genetic
330 information when making decisions about your eligibility or premiums.

- 331 • Employers with 15 or more employees may not use your genetic information from this
332 research when making a decision to hire, promote, or fire you or when setting the
333 terms of your employment.

334 All health insurance companies and group health plans must follow this federal law. This law
335 does not protect you against genetic discrimination by companies that sell life insurance,
336 disability insurance, or long-term care insurance. Under Ohio law, health insurance
337 companies cannot ask about the results of a genetic test or use any information obtained from
338 genetic testing to make decisions about providing coverage or benefits for health care
339 services.

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342 **7. What benefits can I expect from being in the study?**

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344 You will receive a report based on your answers to the diet questionnaires and interviews.
345 The report will tell you about your eating patterns, such as how closely your number of
346 servings in each food group consumed daily matches USDA recommendations. In addition,
347 this report will show your average daily intake of different nutrients and recommendations for
348 improving your diet.

349

350 You will receive the results of your DEXA scan. The results obtained from the DEXA scan
351 will provide you with information about your muscle and fat composition, bone mineral
352 density, and the amount of calories your body uses at rest in a 24 hour period.

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354 **8. What other choices do I have if I do not take part in the study?**

355

356 You may choose not to participate without penalty or loss of benefits to which you are
357 otherwise entitled.

357

358 **9. Will my study-related information be kept confidential?**

359

359 Efforts will be made to keep your study-related information confidential. However, there may
360 be circumstances where this information must be released. For example, personal information
361 regarding your participation in this study may be disclosed if required by state law.

362

363 Also, your records may be reviewed by the following groups (as applicable to the research):

364

- 364 • Office for Human Research Protections or other federal, state, or international
365 regulatory agencies;
- 366 • U.S. Food and Drug Administration;
- 367 • The Ohio State University Institutional Review Board or Office of Responsible
368 Research Practices;
- 369 • The sponsor supporting the study, their agents or study monitors; and
- 370 • Your insurance company (if charges are billed to insurance).

371

372 If this study is related to your medical care, your study-related information may be placed in
373 your permanent hospital, clinic, or physician's office records. Authorized Ohio State

374 University staff not involved in the study may be aware that you are participating in a
375 research study and have access to your information.

376
377 You may also be asked to sign a separate Health Insurance Portability and Accountability Act
378 (HIPAA) research authorization form if the study involves the use of your protected health
379 information.

380 The NIH has issued a Certificate of Confidentiality for this study. This Certificate provides
381 extra protection for you and your study information, documents, or samples (blood, tissue,
382 etc.). The Certificates are issued so that we cannot be required to disclose any identifiable,
383 sensitive information collected about you as a part of this study in a lawsuit or legal
384 proceeding. We are also prevented from releasing your study information without your
385 consent. This is a layer of protection over and above the already existing protections in place
386 for you and your information, documents, or samples.

387 However, these protections do not apply in some situations. For example, we may have to
388 release your information if a law requires us to do so, the Agency that is funding this study
389 requests the information, or if the FDA tells us to release this information. We may also use
390 your information to conduct other scientific research as allowed by federal regulations.

391 Study information that has health implications may be placed in your medical record where
392 authorized employees may see the information. Further, authorized requests for your records
393 (medical record release for continuity of care) may result in research-related information
394 being released.

395 Please talk to your study team, or contact the Office of Responsible Research Practices at
396 614-688-8641, if you have questions.

397 You may also visit the NIH website at <https://humansubjects.nih.gov/coc/faqs> to learn more.

398 **10. What are the costs of taking part in this study?**

399 There are no costs if you take part in this study. All procedures are paid by the study, and
400 participants do not pay for any procedures.

401

402 **11. Will I be paid for taking part in this study?**

403 You will be compensated for your time. At all visits, you will receive free parking. You will
404 receive \$25 for completing the first screening session. You will receive \$250 for completing
405 each full day visit. Therefore, you will have an opportunity to receive a total of \$525. If you
406 are not able to complete the full day visit, your payment will be pro-rated based on the
407 percentage of the visit that you actually completed. Payment will be sent after completing all
408 visits that will ideally be scheduled within about a month; if your visits are more than a month
409 apart, a check in the appropriate amount will be mailed to you within 2-4 weeks of each phase
410 of study completion. If you do not receive your check within 4 weeks of study completion,
411 please notify the researchers. By law, payments to subjects are considered taxable income.

412

413 **12. What happens if I am injured because I took part in this study?**

414 If you suffer an injury from participating in this study, you should notify the researcher or
415 study doctor immediately, who will determine if you should obtain medical treatment at The
416 Ohio State University Medical Center.

417
418 The cost for this treatment will be billed to you or your medical or hospital insurance. The
419 Ohio State University has no funds set aside for the payment of health care expenses for this
420 study.

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423 **13. What are my rights if I take part in this study?**

424 If you choose to participate in the study, you may discontinue participation at any time
425 without penalty or loss of benefits. By signing this form, you do not give up any personal
426 legal rights you may have as a participant in this study.

427
428 You will be provided with any new information that develops during the course of the
429 research that may affect your decision whether or not to continue participation in the study.

430

431 You may refuse to participate in this study without penalty or loss of benefits to which you
432 are otherwise entitled.

433

434 An Institutional Review Board responsible for human subjects research at The Ohio State
435 University reviewed this research project and found it to be acceptable, according to
436 applicable state and federal regulations and University policies designed to protect the rights
437 and welfare of participants in research.

438

439 **14. Who can answer my questions about the study?**

440 For questions, concerns, or complaints about the study you may contact the study coordinator
441 at 614-293-4736.

442

443 For questions about your rights as a participant in this study or to discuss other study-related
444 concerns or complaints with someone who is not part of the research team, you may contact
445 Ms. Sandra Meadows in the Office of Responsible Research Practices at 1-800-678-6251.

446

447 If you are injured as a result of participating in this study or for questions about a study-
448 related injury, you may contact Janice Kiecolt-Glaser, PhD at 614-293-3499 or William
449 Malarkey, MD at 614-293-8775.

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452

453 **Signing the consent form**

454

455 I have read (or someone has read to me) this form and I am aware that I am being asked to
456 participate in a research study. I have had the opportunity to ask questions and have had them
457 answered to my satisfaction. I voluntarily agree to participate in this study.

