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# The Ohio State University Combined Consent to Participate in Research and HIPAA Research Authorization

Study Title:SPASM: Randomized, Sham Controlled Trial of Dorsal Root<br/>Rhizotomy Stereotactic Radiosurgery versus Standard of Care for<br/>Spasticity Associated with Stroke, Spinal Cord Injury & Cerebral<br/>Palsy

Principal Investigator: Evan M. Thomas, MD, PhD

#### **Sponsor:**

#### Varian Medical Systems

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- This is a consent form for research participation. It contains important information about this study and what to expect if you decide to participate. Please consider the information carefully. Feel free to discuss the study with your friends and family and to ask questions before making your decision whether or not to participate.
- Your participation is voluntary. You may refuse to participate in this study. If you decide to take part in the study, you may leave the study at any time. No matter what decision you make, there will be no penalty to you and you will not lose any of your usual benefits. Your decision will not affect your future relationship with The Ohio State University. If you are a student or employee at Ohio State, your decision will not affect your grades or employment status.
- You may or may not benefit as a result of participating in this study. Also, as
   explained below, your participation may result in unintended or harmful effects for
   you that may be minor or may be serious depending on the nature of the research.
- You will be provided with any new information that develops during the study
   that may affect your decision whether or not to continue to participate. If you
   decide to participate, you will be asked to sign this form and will receive a copy of the
   form. You are being asked to consider participating in this study for the reasons
   explained below.
- 23

#### 24 Key Information About This Study

The following is a short summary to help you decide whether or not to be a part of this study. More detailed information is listed later in this form.

- 27
- 28 This study is being done to determine the safety and effectiveness of high dose focused
- 29 radiation to a part of your spine called the spinal dorsal root using a technique called
- 30 stereotactic radiosurgery (SRS) in patients with spasticity. If you agree to participate in the
- 31 study, you will be randomly assigned to either receive radiosurgery or not to receive
- 32 radiosurgery. As part of your participation in the study, you will be asked to complete follow-
- up visits at 2, 6, 12, and 24 months. If you are randomized to the group without radiosurgery,

34 35	-	a will be allowed to crossover to the group receiving radiosurgery after your 6 month visit you desire.
36 37	1.	Why is this study being done?
38		
39		This study will evaluate the safety and effectiveness of high-dose focused radiation to the
40		spinal dorsal root using a technique called stereotactic radiosurgery (SRS) in patients
41		with spasticity. Stereotactic radiosurgery is the precise high dose application of radiation
42		to a small area. A dorsal root rhizotomy is the intentional damage or change to the root of
43		the nerve coming out of the spinal cord that carries sensory information. In patients with
44		spasticity, this is the part of the nerve that sends too much signal to the spinal cord and
45		causes heightened reflexive spasticity. Radio surgical rhizotomy is noninvasive and uses focused radiation to attempt to change the function of the nerve without destroying it.
46 47		The purpose of this study is to see if using 1 treatment session of SRS for spasticity is
48		safe and helps your spasticity.
49		sure and helps your spusiency.
50		You are being asked to take part in this study because you have spasticity that is still
51		present despite medical or other interventional management.
52		
53		
54 55	2.	How many people will take part in this study?
56		It is anticipated that up to 25 patients will take part in this study at Ohio State.
57	2	
58	3.	What will happen if I take part in this study?
59 60		
60 61		Before you begin the study:
62		before you begin the study.
63		The following will take place to find out if you can be in the study. These exams, tests, or
64		procedures are sometimes part of regular medical care. If you have recently had them
65		done, they may not need to be repeated. Your medical record will be reviewed by the
66		study doctor to determine which tests and procedures will be needed.
67		• A physical examination
68		• Your medical history will be collected, and you will complete an interview that
69		includes questions about your past and current health.
70		• Evaluation of your spasticity and its effects on your quality of life. You will be
71		assessed and asked questions. Your spasticity and its effect on your quality of life
72		will be assessed.
73		• Evaluation of your ability to carry out daily activities. You will be asked
74		questions about what type of daily activities you can do.
75		• Imaging of your spine with Magnetic Resonance Imaging (MRI) and Computer
76		Tomography (CT) imaging.

77	• MRI scans create images of the body using a strong magnet and radio
78	waves. You will be asked to remove all metal objects from your person
79	before entering the scanning room and may be asked to remove clothing
80	and put on a hospital gown or scrubs. During the MRI scan, you will lie on
81	a table and be confined to a small space inside a cylindrical machine
82	(tube). The MRI will take about 1 hour. Although you will be asked not to
83	move or talk during the MRI procedure, you will be able to communicate
84	with the MRI Technologist by pressing a call button that will be within
85	your reach. The Technologist will observe you during the entire time that
86	you are in the MRI scanner.
87	• CT is a way to make x-ray images of the inside of the body. The CT
88	scanner is a doughnut-shaped machine that uses x-rays to create pictures
89	that show structures inside your body more clearly than regular x-ray
90	pictures. During the procedure, a technologist will take you into the CT
91	scan room where you will lie down on the inside of the CT machine.
92	During the study, you will be asked to hold your breath so that the pictures
93	will not be blurred. The machine will make some noise, and the table will
94	move during the scan. The scan will take about 1 hour.
95	• Electromyogram (EMG) and nerve conduction velocity (NCV) testing to see how
96	your muscles and nerves are working. This will only be done if it is part of your
97	standard of care treatment. If you are not undergoing EMG and NCV as part of
98	your regular medical treatment, it will not be done separately for this study.
99	• EMG is a procedure that assesses the health of your muscle and nerve
100	cells by measuring the electrical activity of your muscles as they move.
101	An EMG measures these impulses through a needle, which acts as an
102	electrode, injected into the muscle tissue. The EMG will take
103	approximately 30-90 minutes.
104	• A NCV test measures how fast electrical impulses move through your
105	nerves. During the test, your nerve will be stimulated, and the nerve
106	activity recorded with electrode patches attached to your skin. The NCV
107	will take approximately 30-90 minutes.
108	
109	During study treatment:
110	
111	• You will undergo another CT scan. This CT scan is used to design a
112	radiosurgery treatment plan. It will take approximately 1 hour.
113	• You will be randomly assigned (like flipping a coin) to either the treatment
114	group or the "sham" group. There is a 50/50 chance of being in either group.
115	You will not be able to choose what group you are assigned to, and you will
116	not know what group you are assigned to.
117	• Regardless of which group you are assigned to; you will be asked to lie
118	on the treatment table and a device will rotate around you. This will
119	take approximately 30-90 minutes.

120		• If you are assigned to the treatment group, you will receive a
121		radiosurgery treatment to one or more of your affected nerve roots. The
122		device rotating around you will emit invisible, high-energy x-rays.
123		• If you are assigned to the "sham" group, you will not receive
124		treatment. The device rotating around you will not emit x-rays.
125		
126		After you are finished with treatment:
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128 129		You will be asked to complete follow-up visits at 2 months, 6 months, 12 months, and 24 months after treatment. Each follow-up visit will take 45 – 90 minutes and include the
130		following:
131		• Physical examination
132		• Evaluation of your spasticity and its effects on your quality of life
132		<ul> <li>Evaluation of your ability to carry out daily activities</li> </ul>
		<ul> <li>Imaging of your spine with MRI and CT imaging</li> </ul>
134		
135 136		• EMG and NCV testing (only at the 6 month visit). This will only be done if it is part of your standard of care treatment. If you are not undergoing EMG and NCV
137		as part of your regular medical treatment, it will not be done separately for this
138		study.
139		
140		In addition, the researchers will access your medical records to obtain information related
141 142		to your demographics, medical history, and spasticity. If you have had photos taken as part of your standard of care spasticity assessment, these may be obtained from your
143 144		medical records as well.
145		If you are randomized to the group without radiosurgery, you will be allowed to
146		crossover to the group receiving radiosurgery after your 6 month visit if you desire.
147		erossever te the group receiving radiosargery arter your o month visit if you desire.
148	4.	How long will I be in the study?
149 150		You will be in the study for 24 months after treatment.
151		
152 153	5.	Can I stop being in the study?
155		You may leave the study at any time. If you decide to stop participating in the study,
154		there will be no penalty to you, and you will not lose any benefits to which you are
155		otherwise entitled. Your decision will not affect your future relationship with The Ohio
		State University.
157		State University.
158	(	What wishes with affects and discourse over Lawy at from heirs in the starday
159	6.	What risks, side effects or discomforts can I expect from being in the study?
160		
161		Risks related to the SRS Treatment:
162		Likely:
163		Dullness or changing of sensation in the area being treated for spasticity     Page 4 of 12     Form date:

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164		• Changes in muscle spasm patterns in the area being treated for spasticity
165		• Changes in muscle spasin patients in the area being freated for spasificity
166		Less Likely:
167		Reddening of the skin in the area treated with radiation
168		<ul> <li>Pain at the site of radiation treatment</li> </ul>
169		<ul> <li>Swelling around the area of the treatment</li> </ul>
170		<ul> <li>Scar tissue formation in the area of treatment</li> </ul>
171		<ul> <li>Changes in how your limb being treated feels</li> </ul>
172		changes in now your mile being readed reeks
173		Rare but potentially serious:
174		• Injury to the spinal cord near the area receiving treatment
175		<ul> <li>Necrosis or injury to skin or soft tissue near the treatment area</li> </ul>
176		i receivers of injury to skill of soft dissue near the reaching a ca
177		Information for Women of Childbearing Potential
178		If you are pregnant, you cannot take part in this study. You should not become pregnant
179		if you decide to take part because the radiation can affect an unborn baby. This study may
180		be harmful to a nursing infant or an unborn child. If you are unwilling to use adequate
181		birth control measures to prevent pregnancy, you cannot participate in this study. Reliable
182		methods of birth control are considered to be: abstinence (not having sex), intrauterine
183		device (IUD), tubal ligation, or vasectomy of the partner (with confirmed negative sperm
184		counts). An acceptable, although less reliable method involves the careful use of
185		condoms and a spermicidal foam or gel and/or a cervical cap or sponge. It is important
186		you understand that you need to use birth control while on this study and for 6 months
187		after treatment ends. If you suspect that you are pregnant or if you become pregnant
188		while you are on this study, you must tell your doctor immediately.
189		
190		Radiation Risks
191		This research study involves exposure to radiation from CT scans of your spine and from
192		the radiosurgical procedure. This radiation exposure is for research purposes only. The
193		total amount of radiation that you will receive in this study is about 535.4 mSv and is
194 195		approximately equivalent to a whole body exposure of 89 years of exposure to natural background radiation. Most of this radiation is concentrated within the nerve root being
195 196		treated. The exposure to the body as a whole is much less.
190 197		treated. The exposure to the body as a whole is much less.
197		
199		Loss of Confidentiality
200		There is a risk of loss of confidentiality, but many precautions will be taken to protect
201		your information.
202		<b>y</b>
203		
204	7.	What benefits can I expect from being in the study?
205	-	
206		You may or may not benefit from taking part in this study. SRS for spasticity may be
207		effective in treating spasticity. However, there is no proof of this yet.

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209		The information gained from this study will help doctors learn more about SRS as a
210		treatment for spasticity, which could help other patients in the future.
211		
212	8.	What other choices do I have if I do not take part in the study?
213		
214		Your other choices include getting the current standard of care treatment for spasticity
215		without being in a study or taking part in another, unrelated study that may be available.
216		
217		You may choose not to participate without penalty or loss of benefits to which you are
218		otherwise entitled.
219	•	
220	9.	What are the costs of taking part in this study?
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222		The costs of your standard medical care will be billed to you and/or to your insurance
223		company in the usual manner.
224		
225		You and your health insurance plan are responsible for all routine costs associated with
226		this study. Routine costs are costs that are covered by Medicare in connection with
227		studies such as this one, even if Medicare is not your insurance provider.
228		
229		All routine costs will be billed to your health insurance plan, but there is no guarantee
230		that your health insurance plan will cover all routine costs. Even where such insurance
231		coverage is provided, you may still have to pay some costs such as copayments,
232		coinsurance, or deductibles for the covered items or services. You should contact your
233		health plan to discuss its coverage policy for items or services provided during a research
234 235		study.
235	10	. Will I be paid for taking part in this study?
230	10	. While be pare for taking part in this study.
237		You will not receive payment for participating in this study.
238		Tou will not receive payment for participating in this study.
239 240	11	. What happens if I am injured because I took part in this study?
240	11	. What happens if I am injured because I took part in this study.
241		If you suffer an injury from participating in this study, you should notify the researcher or
243		study doctor immediately, who will determine if you should obtain medical treatment at
243		The Ohio State University Wexner Medical Center.
245		The Onio State Oniversity Wexner Wedlear Center.
246		The cost for this treatment will be billed to you or your medical or hospital insurance. The
247		Ohio State University has no funds set aside for the payment of health care expenses for
248		this study.
249		
250	12	. What are my rights if I take part in this study?
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- If you choose to participate in the study, you may discontinue participation at any time
  without penalty or loss of benefits. By signing this form, you do not give up any personal
  legal rights you may have as a participant in this study.
- You will be provided with any new information that develops during the course of the research that may affect your decision whether or not to continue participation in the study.
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260 You may refuse to participate in this study without penalty or loss of benefits to which 261 you are otherwise entitled.

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

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## 13. Will my de-identified information be used or shared for future research?

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270 Yes, it may be used or shared with other researchers without your additional informed
271 consent.

## **14. Will my study-related information be kept confidential?**

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

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

- Office for Human Research Protections or other federal, state, or international regulatory agencies;
- U.S. Food and Drug Administration;
- The Ohio State University Institutional Review Board or Office of Responsible Research Practices;
  - The sponsor supporting the study, their agents or study monitors; and
- Your insurance company (if charges are billed to insurance).
- If we find information that significantly impacts your health, we will share it with you.
  This includes information as to the efficacy of the treatment or potential adverse effects of treatment.

A description of this clinical trial will be available on <u>http://www.ClinicalTrials.gov</u>, as
required by U.S. law. This website will not include information that can identify you. At

296 297	most, the website will include a summary of the results. You can search the website at any time.	
298		
299	15. HIPAA AUTHORIZATION TO USE AND DISCLOSE INFORMATION FOR	
300	RESEARCH PURPOSES	
301		
302 303	I. What information may be used and given to others?	
304	• Past and present medical records;	
305	• Research records;	
306	• Records about phone calls made as part of this research;	
307	• Records about your study visits;	
308	• Information that includes personal identifiers, such as your name, or a number	
309	associated with you as an individual;	
310	• Information gathered for this research about:	
311	Physical exams	
312	Laboratory, x-ray, and other test results	
313	Diaries and questionnaires	
314	Records about the study device	
315		
316	II. Who may use and give out information about you?	
317		
318	Researchers and study staff.	
319		
320	III. Who might get this information?	
321		
322	• The sponsor of this research. "Sponsor" means any persons or companies that are	e:
323	• working for or with the sponsor; or	
324	• owned by the sponsor.	
325	• Authorized Ohio State University staff not involved in the study may be aware th	at
326	you are participating in a research study and have access to your information;	
327	<ul> <li>If this study is related to your medical care, your study-related information may b</li> </ul>	)e
328	placed in your permanent hospital, clinic, or physician's office record;	•
329		
330	IV. Your information <u>may</u> be given to:	
331	ive four mornauon <u>may</u> se given to:	
332	• The U.S. Food and Drug Administration (FDA), Department of Health and Huma	an
333	Services (DHHS) agencies, and other federal and state entities;	*11
334	<ul> <li>Governmental agencies in other countries;</li> </ul>	
335	<ul> <li>Governmental agencies in other countries,</li> <li>Governmental agencies to whom certain diseases (reportable diseases) must be</li> </ul>	
335 336	• Governmental agencies to whom certain diseases (reportable diseases) must be reported; and	
550	reported, and	

- The Ohio State University units involved in managing and approving the research study including the Office of Research and the Office of Responsible Research Practices.
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# V. Why will this information be used and/or given to others?

- To do the research;
  - To study the results; and
  - To make sure that the research was done right.

# VI. When will my permission end?

There is no date at which your permission ends. Your information will be used indefinitely. This is because the information used and created during the study may be analyzed for many years, and it is not possible to know when this will be complete.

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# VII. May I withdraw or revoke (cancel) my permission?

Yes. Your authorization will be good for the time period indicated above unless you change your mind and revoke it in writing. You may withdraw or take away your permission to use and disclose your health information at any time. You do this by sending written notice to the researchers. If you withdraw your permission, you will not be able to stay in this study. When you withdraw your permission, no new health information identifying you will be gathered after that date. Information that has already been gathered may still be used and given to others.

# VIII. What if I decide not to give permission to use and give out my health information?

Then you will not be able to be in this research study and receive research-related treatment. However, if you are being treated as a patient here, you will still be able to receive care.

# **IX. Is my health information protected after it has been given to others?**

There is a risk that your information will be given to others without your permission. Any
information that is shared may no longer be protected by federal privacy rules.

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X. May I review or copy my information?

Signing this authorization also means that you may not be able to see or copy your study related information until the study is completed.

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## 16. Who can answer my questions about the study?

- For study questions, concerns, or complaints, to withdraw consent and HIPAA authorization, or if you feel you have been harmed as a result of study participation, you may contact **Evan Thomas, MD at 614-293-8415.**
- For questions related to your privacy rights under HIPAA or related to this research authorization, please contact the HIPPA Privacy officer located at **650 Ackerman Rd Columbus, OH 43210, 614-293-4477 or 614-293-7672.**
- For questions about your rights as a participant in this study or to discuss other studyrelated concerns or complaints with someone who is not part of the research team, you may contact the Office of Responsible Research Practices at 1-800-678-6251.
- If you are injured as a result of participating in this study or for questions about a studyrelated injury, you may contact Evan Thomas, MD at 614-293-8415.
- Dr. Evan Thomas, a researcher helping to perform this study, is a paid consultant for
  Varian Medical Systems, Inc., the manufacturer of the devices being tested. A conflict of
  interest committee at Ohio State has reviewed this information and determined that Dr.
  Thomas's involvement presents no additional significant risk to the study's participants.
  Any questions about this information can be answered by Dr. Joshua Palmer, (614) 2938415

404

#### 405 Signing the consent form

I have read (or someone has read to me) this form and I am aware that I am being asked to
participate in a research study. I have had the opportunity to ask questions and have had them

- answered to my satisfaction. I voluntarily agree to participate in this study.
- I am not giving up any legal rights by signing this form. I will be given a copy of this
- 413 combined consent and HIPAA research authorization form.

Printed name of participant	Signature of participant	
	AM/PM	
	Date and time	
Printed name of person authorized to consent for participant (when applicable)	Signature of person authorized to consent for participant (when applicable)	
	AM/PM	
Relationship to the participant	Date and time	
ecord for the research. I <b>agree</b> to have photos collected from my me I <b>DO NOT agree</b> to have photos collected fr		
<u>nvestigator/Research Staff</u>		
have explained the research to the participant of		
ignature(s) above. There are no blanks in this of the participant or his/her representative.	document. A copy of this form has been given	

Date and time

AM/PM

**Witness(es)** - May be left blank if not required by the IRB

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Form date: 04/19/2021

Printed name of witness	Signature of witness	
	Date and time	AM/PM
Printed name of witness	Signature of witness	
	Date and time	AM/PM