

**Online Supplement to “Wrong-Site Surgery: A Study of 664 Events From
237 Facilities Across a 10-Year Period”**

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This supplementary material has been provided by the authors to give readers additional information about wrong-site surgery (WSS) findings in the study. The nine appendices present visualizations and cross-tabulations of variables such as year of event occurrence, facility type, error type, and body region, which offer a more comprehensive understanding of the patterns and characteristics of WSS events.

How to Cite the Original Article

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Appendices

Appendix S1. Frequency of WSS Events Across Year of Occurrence and Clinician Specialty

Appendix S2. Frequency of WSS Events Across Year of Occurrence, Body Region, and Specific Body Part

Appendix S3. Frequency of WSS Events Across Year of Occurrence, Procedure Group, and Specific Procedure

Appendix S4. Frequency of WSS Events Across Facility Type and Clinician Specialty

Appendix S5. Frequency of WSS Events Across Error Type, Body Region, and Specific Body Part

Appendix S6. Frequency of WSS Events Across Facility Type, Procedure Group, and Specific Procedure

Appendix S7. Frequency of WSS Events Across Body Region and Clinician Specialty

Appendix S8. Frequency of WSS Events Across Procedure Group and Clinician Specialty

Appendix S9. Frequency of WSS Events Across Procedure Group and Body Region

Appendix S1. Frequency of WSS Events Across Year of Occurrence and Clinician Specialty

Clinician Specialty	Event Year										Total
	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	
Anesthesia	6	5	6	8	9	8	5	4	7	7	65
Dermatology	3	-	3	1	2	-	6	4	1	-	20
Ear, Nose, and Throat	1	-	4	2	-	2	1	2	-	-	12
Emergency Medicine	2	-	-	-	-	1	-	1	4	2	10
Foot/Ankle	1	3	-	-	2	-	1	-	1	-	8
Gastroenterology	2	-	-	2	-	-	-	3	-	1	8
General Surgery	7	9	5	6	6	3	7	1	2	1	47
Gynecology	1	1	1	-	1	-	-	1	-	2	7
Interventional Cardiology	-	-	-	-	1	1	-	3	1	2	8
Interventional Radiology	5	13	13	11	10	5	8	5	15	7	92
Neurosurgery	-	1	1	1	1	-	-	3	1	-	8
Oncology	-	1	-	1	-	-	-	3	3	1	9
Ophthalmology	6	6	7	2	1	3	6	6	8	4	49
Oral Surgery	-	-	1	-	1	1	-	1	-	1	5
Orthopedics	13	5	8	12	6	5	4	9	5	6	73
Other (7 specialties)	-	3	1	1	-	3	-	1	2	4	15
Pain Management	12	10	13	8	10	6	5	6	6	7	83
Physical Medicine/Rehab	-	-	2	-	-	-	1	1	-	1	5
Plastic Surgery	-	-	-	-	-	-	-	1	3	-	4
Spinal Surgery	12	9	4	7	2	6	6	5	6	5	62
Thoracic Surgery	3	1	2	1	-	1	-	1	1	1	11
Urology	6	3	6	10	6	4	2	2	7	6	52
Vascular	3	1	3	2	-	-	1	-	1	-	11
Total	83	71	80	75	58	49	53	63	74	58	664

Note: Clinician specialties with a frequency of three or fewer are categorized as "Other." The "Other" category consisted of seven different clinician specialties. Within each variable, event frequencies were categorized in a mutually exclusive manner. For instance, WSS events attributed to the Anesthesia category do not include those assigned to Pain Management, and vice versa.

Appendix S2. Frequency of WSS Events Across Year of Occurrence, Body Region, and Specific Body Part

Body Region	Specific Body Part	Event Year										Grand Total
		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	
Abdomen	Abdominal Cavity	1	3	-	1	1	-	1	-	1	-	8
	Liver	-	1	1	-	1	2	-	-	-	1	6
	Other (2 distinct parts)	1	-	-	-	-	1	-	-	-	-	2
	Total	2	4	1	1	2	3	1	-	1	1	16
Breast	Breast	-	2	5	3	7	1	4	1	5	2	30
	Total	-	2	5	3	7	1	4	1	5	2	30
Chest/Thorax	Pleural Cavity	5	3	3	1	1	4	3	4	4	4	32
	Chest	5	1	3	-	2	-	-	2	3	2	18
	Other (5 distinct parts)	-	-	3	-	1	2	2	2	2	3	15
	Total	10	4	9	1	4	6	5	8	9	9	65
Digestive System	Lower Gastrointestinal Tract	1	2	1	1	-	-	-	-	-	1	6
	Upper Gastrointestinal Tract	1	-	-	1	-	-	-	2	-	1	5
	Other (2 distinct parts)	-	-	-	-	-	-	1	1	-	-	2
	Total	2	2	1	2	-	-	1	3	-	2	13
Extremity, Lower	Knee	8	2	3	6	5	1	2	4	1	1	33
	Foot	2	2	-	-	3	1	2	2	1	-	13
	Leg	-	1	-	3	-	2	2	2	2	1	13
	Thigh	1	1	2	1	3	-	1	-	-	-	9
	Unspecified	2	1	3	-	-	-	-	-	-	-	6
	Other (3 distinct parts)	-	1	1	-	-	-	-	2	1	-	5
	Total	13	8	9	10	11	4	7	10	5	2	79
Extremity, Upper	Finger	2	2	4	4	2	-	4	2	3	2	25
	Arm	-	6	2	3	1	-	1	1	-	1	15
	Shoulder	-	1	2	2	-	2	1	-	3	4	15
	Hand	1	1	1	2	-	1	1	1	-	2	10
	Elbow	2	-	-	1	1	-	-	1	1	1	7
	Thumb	1	-	-	1	-	2	-	3	-	-	7
	Wrist	2	1	-	1	-	-	-	-	1	1	6
	Unspecified	-	1	-	-	-	-	-	-	-	-	1
	Total	8	12	9	14	4	5	7	8	8	11	86
Head/Neck	Eye	6	6	7	2	1	3	7	6	9	4	51
	Neck	2	3	2	4	2	4	3	1	5	-	26
	Thyroid	1	4	2	1	1	2	-	-	1	-	12
	Scalp	1	-	-	1	1	-	-	3	1	-	7
	Skull	-	1	-	-	1	-	-	3	1	-	6
	Tongue	-	-	1	-	1	2	-	1	-	-	5
	Ear	2	-	1	-	-	-	-	-	-	1	4
	Other (10 distinct parts)	-	-	5	4	-	1	2	1	1	2	16
	Total	12	14	18	12	7	12	12	15	18	7	127
Hip/Pelvis	Hip	2	-	-	1	1	-	2	2	-	2	10
	Other (4 distinct parts)	2	-	1	2	-	2	-	-	1	1	9
	Total	4	-	1	3	1	2	2	2	1	3	19
Reproductive System	Female	2	1	1	-	1	-	-	2	2	3	12
	Male	1	-	2	1	-	-	1	-	-	-	5
	Total	3	1	3	1	1	-	1	2	2	3	17

Spine	Lumbar	11	11	11	8	4	10	7	6	10	5	83
	Cervical	3	5	1	2	4	-	3	5	4	3	30
	Thoracic	1	-	3	4	1	2	-	-	2	4	17
	Other (2 distinct parts)	-	1	-	-	-	1	1	-	-	-	3
	Unspecified	6	3	3	4	4	1	-	-	1	-	22
	Total	21	20	18	18	13	14	11	11	17	12	155
Unspecified	Unspecified	3	-	1	-	1	-	-	-	-	-	5
	Total	3	-	1	-	1	-	-	-	-	-	5
Urinary System	Ureter	4	3	5	8	6	2	1	2	7	6	44
	Kidney(s)	1	1	-	2	1	-	1	1	-	-	7
	Bladder	-	-	-	-	-	-	-	-	1	-	1
	Total	5	4	5	10	7	2	2	3	8	6	52
Grand Total		83	71	80	75	58	49	53	63	74	58	664

Note: The data represent the body region where the WSS occurred, which may differ from the originally intended site. Specific body parts with a frequency of four or fewer are categorized as "Other." Events categorized under the "Unspecified" body region refer to reports in which the affected area was not clearly identified. Categories within each variable are defined in a mutually exclusive manner. For example, WSS events involving the Breast category are not included in the Chest/Thorax category, and vice versa. Dash indicates a zero frequency.

Appendix S3. Frequency of WSS Events Across Year of Occurrence, Procedure Group, and Specific Procedure

Procedure Group	Specific Procedure	Event Year										Grand Total
		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	
Biopsy	Biopsy	2	8	6	4	7	3	3	4	4	3	44
	Total	2	8	6	4	7	3	3	4	4	3	44
Excision	Excision	3	4	1	3	2	3	4	1	3	1	25
	Total	3	4	1	3	2	3	4	1	3	1	25
Injection	Block (Anesthetic/Pain)	15	12	16	18	16	14	14	11	9	19	144
	Steroid	6	3	6	4	2	3	4	2	4	3	37
	Unspecified	4	1	-	1	1	-	-	1	1	-	9
	Radiation (Tracer/Therapy)	1	-	1	-	1	-	1	-	-	1	5
	Other (6 unique procedures)	-	1	4	1	1	-	1	1	-	-	9
	Total	26	17	27	24	21	17	20	15	14	23	204
Ophthalmic	Laser Surgery	2	1	5	1	1	2	2	2	2	1	19
	Resection/Recession	-	2	-	-	-	-	-	1	2	1	6
	Other (6 unique procedures)	1	-	-	-	-	-	1	2	4	1	9
	Unspecified	-	1	-	-	-	-	-	-	-	-	1
	Total	3	4	5	1	1	2	3	5	8	3	35
Orthopedic, Upper Extremity	Pulley Release	2	-	1	2	-	1	1	3	1	-	11
	Carpal Tunnel	1	-	-	1	-	-	1	-	1	1	5
	Other (12 unique procedures)	3	1	4	-	2	-	1	2	1	2	16
	Total	6	1	5	3	2	1	3	5	3	3	32
Orthopedic/ Podiatry, Lower Extremity	Arthroscopy	1	-	-	1	1	-	-	1	1	-	5
	Other (13 unique procedures)	3	3	1	2	3	2	-	1	1	1	17
	Total	4	3	1	3	4	2	-	2	2	1	22
Other	MOHS Procedure	-	-	1	-	1	-	4	1	1	-	8
	Frenulectomy	-	-	1	1	1	2	-	1	-	-	6
	Drain Placement	-	2	1	-	-	-	-	-	2	-	5
	Needle Localization	-	-	2	2	-	-	-	-	-	-	4
	Other (29 unique procedures)	6	4	9	5	3	-	2	11	5	4	49
	Total	6	6	14	8	5	2	6	13	8	4	72
Spinal	Decompression/Stabilization	10	8	3	4	2	4	6	5	6	1	49
	Kyphoplasty	-	-	1	3	-	1	-	-	2	3	10
	Radiofrequency Ablation	-	1	-	-	3	-	-	2	1	1	8
	Spinal Cord Stimulator Related	-	-	1	1	-	1	-	-	1	1	5
	Other (5 unique procedures)	2	1	-	-	1	1	-	-	1	1	7
	Unspecified	2	1	-	-	-	-	-	-	-	-	3
	Total	14	11	5	8	6	7	6	7	11	7	82
Thoracic	Chest Tube Insertion	4	2	2	-	-	2	2	2	-	1	15
	Thoracentesis	-	1	1	-	1	2	1	2	1	2	11
	Other (8 unique procedures)	3	1	1	-	1	1	1	-	4	1	13
	Total	7	4	4	-	2	5	4	4	5	4	39
Urological	Endoscopy With Stent	3	2	4	5	4	2	1	2	5	4	32
	Endoscopy Without Stent	1	1	1	3	2	-	-	-	1	2	11
	Other (6 unique procedures)	1	1	-	2	1	2	1	1	1	-	10
	Total	5	4	5	10	7	4	2	3	7	6	53

	Vascular Access-Related	5	8	4	8	1	2	2	2	7	1	40
	Angiogram	1	-	1	-	-	-	-	2	-	-	4
Vascular	Cardiac Catheterization	-	-	1	-	-	1	-	-	1	1	4
	Other (7 unique procedures)	1	1	1	3	-	-	-	-	1	1	8
	Total	7	9	7	11	1	3	2	4	9	3	56
Grand Total		83	71	80	75	58	49	53	63	74	58	664

Note: The data represent the procedure that was actually performed, which may have differed from the procedure that was originally intended. Specific procedures with a frequency of three or fewer are categorized as "Other." The "Unspecified" subcategory consists of WSS events where the report lacked sufficient detail to identify the specific procedure performed. Within the spinal procedure group, the decompression/stabilization-specific procedure includes discectomy, laminectomy, foraminotomy, corpectomy, and fusion. Event frequencies per category are mutually exclusive to other categories. Dash indicates a zero frequency.

Appendix S4. Frequency of WSS Events Across Facility Type and Clinician Specialty

Clinician Specialty	Facility Type		Total
	ASF	Hospital	
Anesthesia	11	54	65
Dermatology	5	15	20
Ear, Nose, and Throat	5	7	12
Emergency Medicine	-	10	10
Foot/Ankle	2	6	8
Gastroenterology	3	5	8
General Surgery	2	45	47
Gynecology	-	7	7
Interventional Cardiology	-	8	8
Interventional Radiology	-	92	92
Neurosurgery	-	8	8
Oncology	-	9	9
Ophthalmology	40	9	49
Oral Surgery	2	3	5
Orthopedics	25	48	73
Other (7 specialties)	-	15	15
Pain Management	36	47	83
Physical Medicine/Rehab	2	3	5
Plastic Surgery	1	3	4
Spinal Surgery	3	59	62
Thoracic Surgery	-	11	11
Urology	3	49	52
Vascular	-	11	11
Total	140	524	664

Note: The acute care hospital category encompasses children’s hospitals, critical access hospitals, and long-term acute care hospitals. All ambulatory surgical facilities (ASFs) included in the analysis were individually licensed. Clinician specialties with a frequency of three or fewer are categorized as “other.” The “Other” category consisted of seven different clinician specialties. Within each variable, categories were mutually exclusive. For instance, WSS events attributed to the Anesthesia category do not include those assigned to Pain Management, and vice versa.

Appendix S5. Frequency of WSS Events Across Error Type, Body Region, and Specific Body Part

Body Region	Specific Body Part	Error Type				Grand Total
		Wrong Side	Wrong Site	Wrong Procedure	Wrong Patient	
Abdomen	Abdominal Cavity	4	1	2	1	8
	Liver	-	4	1	1	6
	Other (2 distinct parts)	-	1	1	-	2
	Total	4	6	4	2	16
Breast	Breast	6	23	1	-	30
	Total	6	23	1	-	30
Chest/Thorax	Pleural Cavity	28	2	2	-	32
	Chest	7	4	7	-	18
	Other (5 parts)	5	6	1	3	15
	Total	40	12	10	3	65
Digestive System	Lower Gastrointestinal Tract	-	3	2	1	6
	Upper Gastrointestinal Tract	-	-	4	1	5
	Other (2 distinct parts)	-	-	1	1	2
	Total	-	3	7	3	13
Extremity, Lower	Knee	29	2	1	1	33
	Foot	6	6	1	-	13
	Leg	10	3	-	-	13
	Thigh	6	1	2	-	9
	Unspecified	5	-	1	-	6
	Other (3 distinct parts)	3	2	-	-	5
	Total	59	14	5	1	79
Extremity, Upper	Finger	-	25	-	-	25
	Arm	7	2	3	3	15
	Shoulder	13	2	-	-	15
	Hand	3	4	2	1	10
	Elbow	2	3	2	-	7
	Thumb	3	3	1	-	7
	Wrist	-	3	3	-	6
	Unspecified	-	1	-	-	1
Total	28	43	11	4	86	
Head/Neck	Eye	39	3	7	2	51
	Neck	9	8	9	-	26
	Thyroid	10	1	1	-	12
	Scalp	1	6	-	-	7
	Skull	6	-	-	-	6
	Tongue	-	4	1	-	5
	Ear	2	1	1	-	4
	Other (10 distinct parts)	5	9	1	1	16
	Total	72	32	20	3	127
Hip/Pelvis	Hip	7	2	1	-	10
	Other (4 distinct parts)	7	1	1	-	9
	Total	14	3	2	-	19

Reproductive System	Female	1	5	4	2	12
	Male	2	-	2	1	5
	Total	3	5	6	3	17
Spine	Lumbar	38	41	4	-	83
	Cervical	6	22	2	-	30
	Thoracic	3	14	-	-	17
	Other (2 distinct parts)	2	1	-	-	3
	Unspecified	17	4	-	1	22
	Total	66	82	6	1	155
Unspecified	Unspecified	3	2	-	-	5
	Total	3	2	-	-	5
Urinary System	Ureter	42	-	-	2	44
	Kidney(s)	3	1	3	-	7
	Bladder	-	1	-	-	1
	Total	45	2	3	2	52
Grand Total		340	227	75	22	664

Note: The data represent the body region where the WSS occurred, which may differ from the originally intended site. Specific body parts with a frequency of four or fewer are categorized as "other." Events categorized under the "unspecified" body region refer to reports in which the affected area was not clearly identified. Categories within each variable are defined in a mutually exclusive manner. For example, WSS events involving the breast category are not included in the chest/thorax category, and vice versa. Dash indicates a zero frequency.

Appendix S6. Frequency of WSS Events Across Facility Type, Procedure Group, and Specific Procedure

Procedure Group	Specific Procedure	Facility Type		Grand Total
		ASF	HSP	
Biopsy	Biopsy	1	43	44
	Total	1	43	44
Excision	Excision	2	23	25
	Total	2	23	25
Injection	Block (Anesthetic/Pain)	51	93	144
	Steroid	11	26	37
	Unspecified	2	7	9
	Radiation (Tracer/Therapy)	-	5	5
	Other (6 unique procedures)	2	7	9
	Total	66	138	204
Ophthalmic	Laser Surgery	19	-	19
	Resection/Recession	5	1	6
	Other (6 unique procedures)	6	3	9
	Unspecified	-	1	1
Total	30	5	35	
Orthopedic, Upper Extremity	Pulley Release	7	4	11
	Carpal Tunnel	2	3	5
	Other (12 unique procedures)	5	11	16
	Total	14	18	32
Orthopedic/ Podiatry, Lower Extremity	Arthroscopy	2	3	5
	Other (13 unique procedures)	2	15	17
	Total	4	18	22
Other	MOHS Procedure	4	4	8
	Frenulectomy	3	3	6
	Drain Placement	-	5	5
	Needle Localization	-	4	4
	Other (29 unique procedures)	6	43	49
	Total	13	59	72
Spinal	Decompression/stabilization	1	48	49
	Kyphoplasty	-	10	10
	Radiofrequency Ablation	2	6	8
	Spinal Cord Stimulator-Related	1	4	5
	Other (5 unique procedures)	2	5	7
	Unspecified	1	2	3
Total	7	75	82	
Thoracic	Chest Tube Insertion	-	15	15
	Thoracentesis	-	11	11
	Other (8 unique procedures)	-	13	13
	Total	-	39	39

Urological	Endoscopy With Stent	2	30	32
	Endoscopy Without Stent	1	10	11
	Other (6 unique procedures)	-	10	10
	Total	3	50	53
Vascular	Vascular Access-Related	-	40	40
	Angiogram	-	4	4
	Cardiac Catheterization	-	4	4
	Other (7 unique procedures)	-	8	8
	Total	-	56	56
Grand Total		140	524	664

Note: The acute care hospital category encompasses children's hospitals, critical access hospitals, and long-term acute care hospitals. All ambulatory surgical facilities (ASFs) included in the analysis were individually licensed. The data represent the procedure that was actually performed, which may have differed from the procedure that was originally intended. Specific procedures with a frequency of three or fewer are categorized as "Other." The "Unspecified" subcategory consists of WSS events where the report lacked sufficient detail to identify the specific procedure performed. Within the Spinal procedure group, the decompression/stabilization-specific procedure includes discectomy, laminectomy, foraminotomy, corpectomy, and fusion. Event frequencies per category are mutually exclusive to other categories. Dash indicates a zero frequency.

Appendix S7. Frequency of WSS Events Across Body Region and Clinician Specialty

Body Region

Clinician Specialty	Body Region											Total	
	Abdomen	Breast	Chest/Thorax	Digestive System	Extremity, Lower	Extremity, Upper	Head/Neck	Hip/Pelvis	Reproductive System	Spine	Unspecified		Urinary system
Anesthesia	-	2	4	-	30	17	4	2	-	5	1	-	65
Dermatology	-	-	4	-	-	2	12	-	-	1	1	-	20
Ear, Nose, and Throat	-	-	1	-	-	-	11	-	-	-	-	-	12
Emergency Medicine	-	-	7	-	-	1	1	1	-	-	-	-	10
Foot/Ankle	-	-	-	-	8	-	-	-	-	-	-	-	8
Gastroenterology	-	-	-	5	-	-	-	-	2	-	-	1	8
General Surgery	6	10	11	4	2	-	9	-	1	1	1	2	47
Gynecology	-	-	-	-	-	-	-	-	7	-	-	-	7
Interventional Cardiology	-	-	4	1	3	-	-	-	-	-	-	-	8
Interventional Radiology	8	17	15	1	5	9	17	4	-	13	-	3	92
Neurosurgery	-	-	1	-	-	-	7	-	-	-	-	-	8
Oncology	-	1	-	1	1	-	1	2	3	-	-	-	9
Ophthalmology	-	-	-	-	-	-	49	-	-	-	-	-	49
Oral Surgery	-	-	-	-	-	-	5	-	-	-	-	-	5
Orthopedics	-	-	-	-	23	48	-	2	-	-	-	-	73
Other (7 specialties)	-	-	7	1	-	3	4	-	-	-	-	-	15
Pain Management	-	-	-	-	1	-	2	6	-	72	2	-	83
Physical Medicine/Rehab	-	-	-	-	2	1	1	-	-	1	-	-	5
Plastic Surgery	-	-	-	-	-	3	1	-	-	-	-	-	4
Spinal Surgery	-	-	-	-	-	-	-	-	-	62	-	-	62
Thoracic Surgery	1	-	10	-	-	-	-	-	-	-	-	-	11
Urology	-	-	-	-	-	-	-	2	4	-	-	46	52
Vascular	1	-	1	-	4	2	3	-	-	-	-	-	11
Total	16	30	65	13	79	86	127	19	17	155	5	52	664

Note: The data represent the body region where the WSS occurred, which may differ from the originally intended site. Events categorized under the "Unspecified" body region refer to reports in which the affected area was not clearly identified. Categories within each variable are defined in a mutually exclusive manner. For example, WSS events involving the Breast category are not included in the Chest/Thorax category, and vice versa. Clinician specialties with a frequency of three or fewer are categorized as "Other." The "Other" category consisted of seven different clinician specialties. Dash indicates a zero frequency.

Appendix S8. Frequency of WSS Events Across Procedure Group and Clinician Specialty

Clinician Specialty	Procedure Group											Total
	Biopsy	Excision	Injection	Ophthalmic	Orthopedic, Upper Extremity	Orthopedic/ Podiatry, Lower Extremity	Other	Spinal	Thoracic	Urological	Vascular	
Anesthesia	-	-	63	-	-	-	-	-	-	-	2	65
Dermatology	4	5	-	-	-	-	11	-	-	-	-	20
Ear, Nose, and Throat	1	-	3	-	-	-	7	1	-	-	-	12
Emergency Medicine	-	-	1	-	-	-	-	7	-	-	2	10
Foot/Ankle	1	-	2	-	-	5	-	-	-	-	-	8
Gastroenterology	1	-	-	-	-	-	6	-	1	-	-	8
General Surgery	3	11	5	-	-	-	12	8	2	6	6	47
Gynecology	1	-	-	-	-	-	6	-	-	-	-	7
Interventional Cardiology	-	-	1	-	-	-	1	1	-	5	5	8
Interventional Radiology	29	2	14	-	-	-	11	8	1	22	1	92
Neurosurgery	-	1	-	-	-	-	7	-	-	-	-	8
Oncology	2	1	1	-	-	-	4	-	-	1	-	9
Ophthalmology	-	-	14	35	-	-	-	-	-	-	-	49
Oral Surgery	-	1	-	-	-	-	4	-	-	-	-	5
Orthopedics	1	-	23	-	32	17	-	-	-	-	-	73
Other (7 specialties)	1	-	1	-	-	-	1	6	-	6	-	15
Pain Management	-	-	67	-	-	-	-	-	-	-	-	83
Physical Medicine/Rehab	-	-	5	-	-	-	-	-	-	-	-	5
Plastic Surgery	-	3	1	-	-	-	-	-	-	-	-	4
Spinal Surgery	-	-	1	-	-	-	-	61	-	-	-	62
Thoracic Surgery	-	-	-	-	-	-	-	-	8	-	3	11
Urology	-	1	-	-	-	-	2	-	49	-	-	52
Vascular	-	-	2	-	-	-	-	-	-	9	-	11
Total	44	25	204	35	32	22	72	82	39	53	56	664

Note: The data represent the procedure that was actually performed, which may have differed from the procedure that was originally intended. Clinician specialties with a frequency of three or fewer are categorized as "Other." The "Other" category consisted of seven different clinician specialties. Within each variable, categories were mutually exclusive. For instance, WSS events attributed to the Anesthesia category do not include those assigned to Pain Management, and vice versa. Dash indicates a zero frequency.

Appendix S9. Frequency of WSS Events Across Procedure Group and Body Region

Body Region	Procedure Group										Total	
	Biopsy	Excision	Injection	Ophthalmic	Orthopedic, Upper Extremity	Orthopedic/ Podiatry, Lower Extremity	Other	Spinal	Thoracic	Urological		Vascular
Abdomen	5	1	-	-	-	-	6	-	-	-	4	16
Breast	10	7	7	-	-	-	6	-	-	-	-	30
Chest/Thorax	3	1	5	-	-	-	3	-	39	-	14	65
Digestive System	-	-	-	-	-	-	13	-	-	-	-	13
Extremity, Lower	4	1	48	-	-	20	-	-	-	-	6	79
Extremity, Upper	2	2	36	-	32	-	1	-	-	-	13	86
Head/Neck	12	8	27	35	-	-	29	-	-	-	16	127
Hip/Pelvis	1	-	10	-	-	2	1	-	-	2	3	19
Reproductive System	2	2	-	-	-	-	12	-	-	1	-	17
Spine	4	2	67	-	-	-	-	82	-	-	-	155
Unspecified	-	1	4	-	-	-	-	-	-	-	-	5
Urinary system	1	-	-	-	-	-	1	-	-	50	-	52
Total	44	25	204	35	32	22	72	82	39	53	56	664

Note: The data represent the procedure that was actually performed or the body region where the WSS occurred, which may have differed from the procedure or body regions that was originally intended. Events categorized under the "unspecified" body region refer to reports in which the affected area was not clearly identified. Categories within each variable are defined in a mutually exclusive manner. For example, WSS events involving the Breast category are not included in the Chest/Thorax category, and vice versa. Dash indicates a zero frequency.