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Table S1: Comparison of SAVES and OrthoSAVES

Items unique to SAVES	Items unique to OrthoSAVES
<p>Intra-operative:</p> <ul style="list-style-type: none"> • Anesthesia-related • Visceral injury <p>Post-operative:</p> <ul style="list-style-type: none"> • Construct failure with loss of correction • Construct failure without loss of correction 	<p>Intra-operative:</p> <ul style="list-style-type: none"> • Compartment syndrome • Incorrect operative site • Peripheral nerve injury • Soft tissue injury/failure <p>Post-operative:</p> <ul style="list-style-type: none"> • Airway/breathing • Cerebrovascular event • Compartment syndrome • Fall • Ileus/bowel obstruction • Implant/instruct related • Cauda equina • Renal insufficiency • Soft tissue reconstruction/repair failure • Urinary retention • Serous wound drainage

SAVES: Spine Adverse Events Severity System; OrthoSAVES: Orthopedic Surgical Adverse Events Severity System

Appendix 1 to Garland K, Chen BP, Poitras S, et al. Capturing adverse events in elective orthopedic surgery: comparison of administrative, surgeon and reviewer reporting. Can J Surg 2020.

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Table S2: Patient demographics (n=164)

Age, years	54.3 ± 15.3
Male gender	83 (50.6%)
BMI, kg/m ²	28.3 ± 5.8
Smokers	30 (18.3%)
Inpatients	108 (65.9%)
Hospital LOS, days	2.2 ± 3.0

Mean ± Standard Deviation (SD); n (%).

BMI: body mass index; LOS: length of stay

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Table S3: Comparison of AEs recorded by orthopaedic surgeons and hospital administrative coders (n=21 patients).

Surgeons: AE	Surgeons: AE Grade	Coders: AE
Dysphagia	2	Dysphagia
Post-op Neuropathic Pain	2	Post-op Neuropathic Pain Arrhythmia Hematoma *
Hardware Malposition	2	
		Post-op Neuropathic Pain
Dysphagia	1	
		Low Hemoglobin Low Sodium
Hematoma	3	Hematoma
Dural Tear	3	
CSF Leak/Meningocele	3	
Headache	1	
		Emesis Low hemoglobin Epigastric Pain *
		UTI * Hypokalemia * Drug Reaction * Constipation *
Post-op Neuropathic Pain	2	Post-op Neuropathic Pain
Pseudoaneurysm	2	Pseudoaneurysm

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		Cutaneous Injury
		Emesis * Constipation *
Delirium	2	Hypotension Syncope *
Pulmonary Embolism	3	Pulmonary Embolism Low Sodium * Drug Reaction *
		Hypotension Medication Poisoning *
Airway/Ventilation	2	
		Emesis *
Airway/Ventilation	2	Urinary Retention
		Syncope *
		Asphyxia *

Note: Coders do not provide AE grades.

* Indicates AEs recorded by hospital administrative coders but not by orthopaedic surgeons or independent clinical reviewers

CSF: cerebrospinal fluid; AE: adverse event; UTI: urinary tract infection