

Table S1 Comparative analysis of subgroups and responses with significant differences in management of patients with SCI

Specialty	Emergency medicine	Intensive care	Neurosurgery	Neurosurgery spine (>50% spine practice)	Orthopedic spine (>50% spine practice)	Orthopedic surgery	Trauma surgery	Total	P value
What is your level of training									
Fellow (n)	1	5	0	1	1	3	0	11	<0.001
(%)	50.0%	22.7%	0.0%	11.1%	11.1%	33.3%	0.0%	15.5%	
Junior Resident (PGY 1-2) (n)	0	0	3	1	0	0	0	4	
(%)	0.0%	0.0%	16.7%	11.1%	0.0%	0.0%	0.0%	5.6%	
Senior Resident (PGY 3+) (n)	1	0	14	0	0	6	0	21	
(%)	50.0%	0.0%	77.8%	0.0%	0.0%	66.7%	0.0%	29.6%	
Staff Physician/Surgeon	0	17	1	7	8	0	2	35	
(%)	0.0%	77.3%	5.6%	77.8%	88.9%	0.0%	100.0%	49.3%	
Practice setting									
Community Practice (n)	0	2	2	4	1	0	0	9	0.234
(%)	0.0%	9.1%	11.2%	44.4%	11.1%	0.0%	0.0%	12.7%	
University/Academic Practice (n)	2	20	16	5	8	9	2	62	
(%)	100.0%	90.9%	88.9%	55.6%	88.9%	100.0%	100.0%	87.3%	
If you are an attending, how many years have you been in practice									
1-5 (n)	0	2	0	4	1	0	0	7	<0.001
(%)	0.0%	9.1%	0.0%	44.4%	11.1%	0.0%	0.0%	9.9%	
6-10 (n)	0	4	1	1	1	0	0	7	
(%)	0.0%	18.2%	5.6%	11.1%	11.1%	0.0%	0.0%	9.9%	
>10 (n)	0	11	0	2	6	0	2	21	
(%)	0.0%	50%	0.0%	22.2%	66.7%	0.0%	100%	29.6%	
Not applicable (n)	2	5	17	2	1	9	0	36	
(%)	100.0%	22.7%	94.4%	22.2%	11.1%	100.0%	0.0%	50.7%	
In which province or region do you work?									
Alberta (n)	0	10	3	2	0	1	1	17	0.225
(%)	0.0%	45.5%	16.7%	22.2%	0.0%	11.1%	50.0%	23.9%	
British Columbia (n)	0	0	1	0	0	0	0	1	
(%)	0.0%	0.0%	5.6%	0.0%	0.0%	0.0%	0.0%	1.4%	
New Brunswick (n)	0	0	1	1	1	0	0	3	
(%)	0.0%	0.0%	5.6%	11.1%	11.1%	0.0%	0.0%	4.2%	
Nova Scotia (n)	0	1	0	1	0	1	0	3	
(%)	0.0%	4.5%	0.0%	11.1%	0.0%	11.1%	0.0%	4.2%	
Ontario (n)	0	5	9	4	4	5	0	27	
(%)	0.0%	22.7%	50.0%	44.4%	44.4%	55.6%	0.0%	38.0%	
Other (n)	0	0	0	1	0	1	0	2	
(%)	0.0%	0.0%	0.0%	11.1%	0.0%	11.1%	0.0%	2.8%	
Quebec (n)	2	6	3	0	1	1	1	14	
(%)	100.0%	27.3%	16.7%	0.0%	11.1%	11.1%	50.0%	19.7%	
Saskatchewan (n)	0	0	1	0	2	0	0	3	
(%)	0.0%	0.0%	5.6%	0.0%	22.2%	0.0%	0.0%	4.2%	
On average, how many patients with acute traumatic spinal cord injury does your institution care for per year?									
0 (n)	0	2	0	0	0	0	0	2	0.511
(%)	0.0%	10.5%	0.0%	0.0%	0.0%	0.0%	0.0%	3.3%	
1 (n)	0	1	0	0	0	0	0	1	
(%)	0.0%	5.3%	0.0%	0.0%	0.0%	0.0%	0.0%	1.6%	
5 (n)	0	1	0	0	0	0	0	1	
(%)	0.0%	5.3%	0.0%	0.0%	0.0%	0.0%	0.0%	1.6%	
10 (n)	0	2	0	1	0	1	0	4	
(%)	0.0%	10.5%	0.0%	11.1%	0.0%	12.5%	0.0%	6.6%	
12 (n)	0	0	0	1	0	0	0	1	
(%)	0.0%	0.0%	0.0%	11.1%	0.0%	0.0%	0.0%	1.6%	
15 (n)	0	1	0	1	0	0	0	2	
(%)	0.0%	5.3%	0.0%	11.1%	0.0%	0.0%	0.0%	3.3%	
20 (n)	0	1	1	1	2	0	0	5	
(%)	0.0%	5.3%	6.7%	11.1%	33.3%	0.0%	0.0%	8.2%	
24 (n)	0	0	1	1	0	0	0	2	
(%)	0.0%	0.0%	6.7%	11.1%	0.0%	0.0%	0.0%	3.3%	
30 (n)	0	2	0	0	1	1	0	4	
(%)	0.0%	10.5%	0.0%	0.0%	16.7%	12.5%	0.0%	6.6%	

Table S1 (continued)

Table S1 (continued)

Specialty	Emergency medicine	Intensive care	Neurosurgery	Neurosurgery spine (>50% spine practice)	Orthopedic spine (>50% spine practice)	Orthopedic surgery	Trauma surgery	Total	P value
40 (n)	0	1	1	0	0	1	0	3	
(%)	0.0%	5.3%	6.7%	0.0%	0.0%	12.5%	0.0%	4.9%	
50 (n)	0	4	2	1	1	0	1	9	
(%)	0.0%	21.1%	13.3%	11.1%	16.7%	0.0%	50.0%	14.8%	
60 (n)	0	0	0	1	0	2	0	3	
(%)	0.0%	0.0%	0.0%	11.1%	0.0%	25.0%	0.0%	4.9%	
70 (n)	0	1	0	0	0	0	0	1	
(%)	0.0%	5.3%	0.0%	0.0%	0.0%	0.0%	0.0%	1.6%	
75 (n)	0	1	1	0	0	0	0	2	
(%)	0.0%	5.3%	6.7%	0.0%	0.0%	0.0%	0.0%	3.3%	
80 (n)	0	0	1	0	0	0	0	1	
(%)	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	1.6%	
100 (n)	2	0	2	0	1	3	0	8	
(%)	100.0%	0.0%	13.3%	0.0%	16.7%	37.5%	0.0%	13.1%	
150 (n)	0	0	1	1	0	0	0	2	
(%)	0.0%	0.0%	6.7%	11.1%	0.0%	0.0%	0.0%	3.3%	
170 (n)	0	0	0	0	0	0	1	1	
(%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	1.6%	
180 (n)	0	0	0	0	1	0	0	1	
(%)	0.0%	0.0%	0.0%	0.0%	16.7%	0.0%	0.0%	1.6%	
200 (n)	0	0	2	0	0	0	0	2	
(%)	0.0%	0.0%	13.3%	0.0%	0.0%	0.0%	0.0%	3.3%	
250 (n)	0	0	1	1	0	0	0	2	
(%)	0.0%	0.0%	6.7%	11.1%	0.0%	0.0%	0.0%	3.3%	
300 (n)	0	2	0	0	0	0	0	2	
(%)	0.0%	10.5%	0.0%	0.0%	0.0%	0.0%	0.0%	3.3%	
400 (n)	0	0	1	0	0	0	0	1	
(%)	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	1.6%	
500 (n)	0	0	1	0	0	0	0	1	
(%)	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	1.6%	
On average, how many patients with acute traumatic spinal cord injury do you care for per year?									
0 (n)	0	1	0	0	1	0	0	2	0.529
(%)	0.0%	4.5%	0.0%	0.0%	14.3%	0.0%	0.0%	3.1%	
1 (n)	0	1	0	0	1	0	0	2	
(%)	0.0%	4.5%	0.0%	0.0%	14.3%	0.0%	0.0%	3.1%	
2 (n)	0	0	0	0	0	1	0	1	
(%)	0.0%	0.0%	0.0%	0.0%	0.0%	12.5%	0.0%	1.5%	
3 (n)	0	4	0	0	0	0	0	4	
(%)	0.0%	18.2%	0.0%	0.0%	0.0%	0.0%	0.0%	6.2%	
4 (n)	0	0	0	1	0	0	0	1	
(%)	0.0%	0.0%	0.0%	11.1%	0.0%	0.0%	0.0%	1.5%	
5 (n)	0	1	0	1	0	0	0	2	
(%)	0.0%	4.5%	0.0%	11.1%	0.0%	0.0%	0.0%	3.1%	
6 (n)	0	0	0	1	1	1	0	3	
(%)	0.0%	0.0%	0.0%	11.1%	14.3%	12.5%	0.0%	4.6%	
8 (n)	0	1	1	0	1	0	0	3	
(%)	0.0%	4.5%	6.7%	0.0%	14.3%	0.0%	0.0%	4.6%	
10 (n)	1	7	2	2	0	2	0	14	
(%)	50.0%	31.8%	13.3%	22.2%	0.0%	25.0%	0.0%	21.5%	
12 (n)	0	1	0	0	0	0	0	1	
(%)	0.0%	4.5%	0.0%	0.0%	0.0%	0.0%	0.0%	1.5%	
15 (n)	0	3	0	2	1	0	0	6	
(%)	0.0%	13.6%	0.0%	22.2%	14.3%	0.0%	0.0%	9.2%	
18 (n)	0	1	0	0	0	0	0	1	
(%)	0.0%	4.5%	0.0%	0.0%	0.0%	0.0%	0.0%	1.5%	
20 (n)	1	2	1	0	1	2	1	8	
(%)	50.0%	9.1%	6.7%	0.0%	14.3%	25.0%	50.0%	12.3%	
25 (n)	0	0	0	0	0	1	0	1	
(%)	0.0%	0.0%	0.0%	0.0%	0.0%	12.5%	0.0%	1.5%	

Table S1 (continued)

Table S1 (continued)

Specialty	Emergency medicine	Intensive care	Neurosurgery	Neurosurgery spine (>50% spine practice)	Orthopedic spine (>50% spine practice)	Orthopedic surgery	Trauma surgery	Total	P value
30 (n)	0	0	4	1	0	1	0	6	
(%)	0.0%	0.0%	26.7%	11.1%	0.0%	12.5%	0.0%	9.2%	
40 (n)	0	0	1	0	1	0	0	2	
(%)	0.0%	0.0%	6.7%	0.0%	14.3%	0.0%	0.0%	3.1%	
50 (n)	0	0	2	1	0	0	0	3	
(%)	0.0%	0.0%	13.3%	11.1%	0.0%	0.0%	0.0%	4.6%	
60 (n)	0	0	1	0	0	0	1	2	
(%)	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	50.0%	3.1%	
100 (n)	0	0	2	0	0	0	0	2	
(%)	0.0%	0.0%	13.3%	0.0%	0.0%	0.0%	0.0%	3.1%	
200 (n)	0	0	1	0	0	0	0	1	
(%)	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	1.5%	
Do you routinely set a mean arterial pressure (MAP) target for patients with neurologic impairment due to acute spinal cord injury?									
In select cases (n)	0	8	1	1	3	1	0	14	0.003
(%)	0.0%	36.4%	5.6%	11.1%	33.3%	11.1%	0.0%	19.7%	
No (n)	1	0	0	0	0	1	1	3	
(%)	50.0%	0.0%	0.0%	0.0%	0.0%	11.1%	50.0%	4.2%	
Yes (n)	1	14	17	7	6	7	1	53	
(%)	50.0%	63.6%	94.4%	77.8%	66.7%	77.8%	50.0%	74.6%	
If you answered "Yes" or "In select cases" what is your MAP floor target (mmHg)?									
60 (n)	0	1	0	0	0	0	0	1	0.268
(%)	0.0%	4.5%	0.0%	0.0%	0.0%	0.0%	0.0%	1.5%	
65 (n)	0	2	1	0	0	0	0	3	
(%)	0.0%	9.1%	5.6%	0.0%	0.0%	0.0%	0.0%	4.5%	
70 (n)	0	0	0	1	0	0	0	1	
(%)	0.0%	0.0%	0.0%	12.5%	0.0%	0.0%	0.0%	1.5%	
75 (n)	0	3	1	0	0	0	0	4	
(%)	0.0%	13.6%	5.6%	0.0%	0.0%	0.0%	0.0%	6.1%	
80 (n)	0	13	2	2	2	4	0	23	
(%)	0.0%	59.1%	11.1%	25.0%	25.0%	50.0%	0.0%	34.8%	
85 (n)	1	3	14	5	5	4	1	33	
(%)	100.0%	13.6%	77.8%	62.5%	62.5%	50.0%	100.0%	50.0%	
90 (n)	0	0	0	0	1	0	0	1	
(%)	0.0%	0.0%	0.0%	0.0%	12.5%	0.0%	0.0%	1.5%	
If you answered "Yes" or "In select cases" what is your duration (days)?									
2 (n)	0	3	0	0	0	1	0	4	0.764
(%)	0.0%	13.6%	0.0%	0.0%	0.0%	12.5%	0.0%	6.1%	
3 (n)	0	2	0	2	1	1	0	6	
(%)	0.0%	9.1%	0.0%	25.0%	11.1%	12.5%	0.0%	9.1%	
4 (n)	0	0	0	0	0	1	0	1	
(%)	0.0%	0.0%	0.0%	0.0%	0.0%	12.5%	0.0%	1.5%	
5 (n)	0	4	3	2	4	2	0	15	
(%)	0.0%	18.2%	17.6%	25.0%	44.4%	25.0%	0.0%	22.7%	
7 (n)	1	12	14	4	4	3	1	39	
(%)	100.0%	54.5%	82.4%	50.0%	44.4%	37.5%	100.0%	59.1%	
10 (n)	0	1	0	0	0	0	0	1	
(%)	0.0%	4.5%	0.0%	0.0%	0.0%	0.0%	0.0%	1.5%	
Do you routinely set a spinal cord perfusion pressure (SCPP) target for patients with neurologic impairment due to acute spinal cord injury?									
No (n)	2	20	17	7	8	9	2	65	0.726
(%)	100.0%	90.9%	94.4%	77.8%	88.9%	100.0%	100.0%	91.5%	
Yes (n)	0	2	1	1	1	0	0	5	
(%)	0.0%	9.1%	5.6%	11.1%	11.1%	0.0%	0.0%	7.0%	
If you answered "Yes" or "In select cases" what is your SCPP floor target (mmHg)?									
70 (n)	0	1	0	0	0	0	0	1	0.353
(%)	0.0%	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%	20.0%	
80 (n)	0	0	0	1	0	0	0	1	
(%)	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	20.0%	
85 (n)	0	1	1	0	1	0	0	3	
(%)	0.0%	50.0%	100.0%	0.0%	100.0%	0.0%	0.0%	60.0%	

Table S1 (continued)

Table S1 (continued)

Specialty	Emergency medicine	Intensive care	Neurosurgery	Neurosurgery spine (>50% spine practice)	Orthopedic spine (>50% spine practice)	Orthopedic surgery	Trauma surgery	Total	P value
If you answered "Yes" or "In select cases" what is your duration of maintaining the SCPP floor (days)?									
3 (n)	0	0	0	1	0	0	0	1	0.277
(%)	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	20.0%	
5 (n)	0	1	1	0	0	0	0	2	40.0%
(%)	0.0%	50.0%	100.0%	0.0%	0.0%	0.0%	0.0%	40.0%	
7 (n)	0	1	0	0	1	0	0	2	40.0%
(%)	0.0%	50.0%	0.0%	0.0%	100.0%	0.0%	0.0%	40.0%	
In patients with a spinal cord injury and neurological deficit, BELOW what threshold would you transfuse your patient?									
< 6g/dL (n)	0	0	1	0	0	0	0	1	0.013
(%)	0.0%	0.0%	5.9%	0.0%	0.0%	0.0%	0.0%	1.4%	
< 7g/dL (n)	0	20	9	2	1	3	0	35	50.7%
(%)	0.0%	90.9%	52.9%	25.0%	11.1%	33.3%	0.0%	50.7%	
< 8g/dL (n)	2	1	6	3	5	2	2	21	30.4%
(%)	100.0%	4.5%	35.3%	37.5%	55.6%	22.2%	100.0%	30.4%	
< 9g/dL (n)	0	1	0	1	1	1	0	4	5.8%
(%)	0.0%	4.5%	0.0%	12.5%	11.1%	11.1%	0.0%	5.8%	
< 10g/dL (n)	0	0	1	2	2	3	0	8	11.6%
(%)	0.0%	0.0%	5.9%	25.0%	22.2%	33.3%	0.0%	11.6%	
At which minimum initial injury threshold do you maintain the above transfusion threshold?									
All patients (n)	1	21	13	2	1	3	2	43	0.002
(%)	50.0%	95.5%	76.5%	25.0%	11.1%	33.3%	100.0%	62.3%	
ASIA-B and worse (n)	0	0	2	1	2	2	0	7	10.1%
(%)	0.0%	0.0%	11.8%	12.5%	22.2%	22.2%	0.0%	10.1%	
ASIA-C and worse (n)	1	1	2	5	6	3	0	18	26.1%
(%)	50.0%	4.5%	11.8%	62.5%	66.7%	33.3%	0.0%	26.1%	
ASIA-D and worse (n)	0	0	0	0	0	1	0	1	1.4%
(%)	0.0%	0.0%	0.0%	0.0%	0.0%	11.1%	0.0%	1.4%	
In patients with a spinal column injury and no neurological deficit, below what hemoglobin threshold would you transfuse your patient?									
< 6g/dL (n)	0	0	2	0	1	0	0	3	0.178
(%)	0.0%	0.0%	11.8%	0.0%	14.3%	0.0%	0.0%	4.5%	
< 7g/dL (n)	1	21	12	5	3	5	1	48	71.6%
(%)	50.0%	95.5%	70.6%	62.5%	42.9%	55.6%	50.0%	71.6%	
< 8g/dL (n)	1	0	3	2	2	2	1	11	16.4%
(%)	50.0%	0.0%	17.6%	25.0%	28.6%	22.2%	50.0%	16.4%	
< 9g/dL (n)	0	1	0	0	1	2	0	4	6.0%
(%)	0.0%	4.5%	0.0%	0.0%	14.3%	22.2%	0.0%	6.0%	
< 10g/dL (n)	0	0	0	1	0	0	0	1	1.4%
(%)	0.0%	0.0%	0.0%	12.5%	0.0%	0.0%	0.0%	1.4%	
Would you ever transfuse a patient with a spinal cord injury based on clinical status regardless of the hemoglobin level?									
No (n)	2	15	16	8	8	8	1	58	0.154
(%)	100.0%	68.2%	94.1%	100.0%	88.9%	88.9%	50.0%	81.7%	
Yes (n)	0	7	1	0	1	1	1	11	15.9%
(%)	0.0%	31.8%	5.9%	0.0%	11.1%	11.1%	50.0%	15.9%	
Do you believe the current equipoise in transfusion targets for SCI warrants a RCT?									
No (n)	0	12	2	2	1	4	2	23	0.067
(%)	0.0%	54.5%	11.1%	22.2%	11.1%	44.4%	100.0%	32.4%	
Yes (n)	2	10	15	6	8	5	0	46	64.8%
(%)	100.0%	45.5%	83.3%	66.7%	88.9%	55.6%	0.0%	64.8%	
If yes, would you be willing to enroll patients?									
No (n)	1	3	2	0	2	1	0	9	0.465
(%)	50.0%	37.5%	13.3%	0.0%	25.0%	20.0%	0.0%	20.5%	
Yes (n)	1	5	13	6	6	4	0	35	79.5%
(%)	50.0%	62.5%	86.7%	100.0%	75.0%	80.0%	0.0%	79.5%	