

Supplemental material

Table 1. AIS Grade Changes between Inpatient Admission and Discharge.

AIS Grade Transition between Admission and Discharge				
Admission AIS Grade	N (# patients)	No Grade Change (%)	1-Grade Improvement (%)	≥ 2-Grade Improvement (%)
A	275	208 (75.6)	44 (16)	23 (8.4)
B	175	94 (53.7)	64 (36.6)	10 (5.7)
C	307	124 (40.4)	165 (53.8)	--
D	468	459 (98.1)		--
U	50	--	--	--
Total	1,275	--	--	--

Table 1. AIS Grade Changes between Inpatient Admission and Discharge. Rows = AIS grade at admission; columns, percentages reflect the proportion of individuals in each admission group who experienced the specified degree of AIS grade improvement between admission and discharge.

“--” = no instances observed. A–D = AIS grades; U = Unknown.

Table 2. Myotome Conversions Among Participants with **No-change in AIS Classification** from Admission to Discharge

Myotome	Low Conversion (%)		High Conversion (%)		No Conversion (%)		Total Myotomes (n)	
<b>AIS A → A</b>	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT
C5	4/31 (12.9)	5/30 (16.7)	3/31 (9.6)	4/30 (13.3)	24/31 (77.4)	21/30 (70.0)	31	30
C6	17/75 (22.7)	20/77 (25.9)	3/75 (4.0)	2/77 (2.6)	55/75 (73.3)	55/77 (71.4)	75	77
C7	24/122 (19.6)	28/124 (22.6)	4/122 (3.3)	2/124 (1.6)	93/122 (76.2)	93/124 (75)	122	124
C8	13/180 (7.2)	5/180 (2.8)	6/180 (3.3)	4/180 (2.2)	161/180 (89.4)	170/180 (94.4)	180	180
T1	9/186 (4.8)	5/186 (2.7)	1/186 (0.5)	5/186 (2.7)	176/186 (94.6)	175/186 (94.1)	186	186
<b>AIS B → B</b>	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT
C5	2/9 (22.2)	1/4 (25.0)	1/9 (11.1)	3/4 (75.0)	6/9 (66.7)	0/0 (0.0)	9	4
C6	11/32 (34.4)	9/31 (29.0)	1/32 (3.1)	1/31 (3.2)	20/32 (62.5)	21/31 (67.7)	32	31
C7	5/5 (100)	6/7 (85.7)	0/5 (0.0)	0/7 (0.0)	0/5 (0.0)	1/7 (14.3)	5	7
C8	13/76 (17.1)	14/78 (17.9)	1/76 (1.3)	2/78 (2.6)	62/76 (81.6)	62/78 (79.5)	76	78
T1	5/80 (6.3)	7/79 (8.9)	3/80 (3.8)	1/79 (1.3)	72/80 (90)	71/79 (89.8)	80	79
<b>AIS C → C</b>	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT
C5	0/0 (0)	9/17 (52.9)	0/0 (0)	1/17 (5.8)	0/0 (0)	7/17 (41.1)	0	17
C6	21/43 (48.8)	24/43 (55.8)	3/43 (6.9)	3/43 (6.9)	19/43 (44.1)	16/43 (37.2)	43	43
C7	32/62 (51.6)	34/65 (52.3)	4/62 (6.4)	7/65 (10.7)	26/62 (41.9)	24/65 (36.9)	62	65
C8	36/86 (41.8)	38/87 (43.6)	2/86 (2.3)	5/87 (5.7)	48/86 (55.8)	44/87 (50.5)	86	87
T1	29/95 (30.5)	37/94 (39.3)	2/95 (2.1)	2/94 (2.1)	64/95 (67.3)	55/94 (58.5)	95	94

Table 2. Myotome Conversions Among Participants with **No-change in AIS Classification** from Admission to Discharge. Values show the proportion of myotomes with low (0→1–2), high (0→≥3), or no recovery (remained 0) between admission and discharge for individuals who show no-change in AIS grade. Data demonstrate segmental motor improvement despite unchanged AIS grade, highlighting the sensitivity of myotome-level metrics for detecting early recovery.

