

Supplemental Table 1: Patient outcomes stratified by worst electroencephalographic pattern observed

Worst EEG pattern	Proportion (95% CI)
	<u>Awakening</u>
Never checked	119/309, 0.39 (0.33 – 0.44)
Nothing malignant	86/251, 0.34 (0.28 – 0.40)
Epileptiform discharges	13/34, 0.38 (0.22 – 0.56)
Periodic discharges	6/41, 0.15 (0.06 – 0.29)
Seizures	1/13, 0.08 (0.00 – 0.36)
Polyspikes	4/170, 0.02 (0.01 – 0.06)
	<u>Survival</u>
Never checked	116/309, 0.38 (0.32 – 0.43)
Nothing malignant	73/251, 0.29 (0.24 – 0.35)
Epileptiform discharges	11/34, 0.32 (0.17 – 0.50)
Periodic discharges	11/41, 0.27 (0.14 – 0.43)
Seizures	2/13, 0.17 (0.02 – 0.48)
Polyspikes	12/170, 0.07 (0.04 – 0.12)
	<u>Discharge mRS 0-2</u>
Never checked	30/309, 0.10 (0.07 – 0.14)
Nothing malignant	22/251, 0.09 (0.06 – 0.13)
Epileptiform discharges	1/34, 0.03 (0.00 – 0.15)
Periodic discharges	0/41, 0 (0 – 0.09)
Seizures	0/13, 0 (0 – 0.25)
Polyspikes	1/170, 0.01 (0.00 – 0.03)

Supplemental Table 2: Patient outcomes stratified by total number of antiepileptic drugs administered

Total AEDs administered	Proportion (95% CI)
Intermittent AEDs only	
<u>Awakening</u>	
0	169/503, 0.34 (0.29-0.38)
1	40/140, 0.29 (0.21-0.37)
2	15/95, 0.16 (0.09-0.25)
3+	5/80, 0.14 (0.07-0.23)
<u>Survival</u>	
0	154/503, 0.31 (0.27-0.35)
1	38/140, 0.27 (0.20-0.35)
2	22/95, 0.23 (0.15-0.33)
3+	11/80, 0.14 (0.07-0.23)
<u>Discharge mRS 0-2</u>	
0	45/503, 0.09 (0.07-0.12)
1	6/140, 0.04 (0.02-0.09)
2	2/95, 0.02 (0.00-0.07)
3+	1/80, 0.01 (0.00-0.07)
Intermittent AEDs + midazolam	
<u>Awakening</u>	
0	88/312, 0.28 (0.23-0.34)
1	96/238, 0.40 (0.34-0.47)
2	30/110, 0.27 (0.19-0.37)
3	13/85, 0.15 (0.08-0.25)
4+	2/73, 0.03 (0.00-0.10)
<u>Survival</u>	
0	82/312, 0.26 (0.21-0.32)
1	87/238, 0.37 (0.30-0.43)
2	30/110, 0.27 (0.19-0.37)
3	19/85, 0.22 (0.14-0.33)
4+	7/73, 0.10 (0.04-0.19)
<u>Discharge mRS 0-2</u>	
0	22/312, 0.07 (0.04-0.10)
1	27/238, 0.11 (0.08-0.16)
2	2/110, 0.02 (0.00-0.06)
3	2/85, 0.02 (0.00-0.08)
4+	1/73, 0.01 (0.00-0.07)
Intermittent AEDs + propofol + midazolam	
<u>Awakening</u>	
0	44/226, 0.19 (0.15-0.25)
1	71/177, 0.40 (0.33-0.48)
2	77/175, 0.44 (0.37-0.52)
3	25/99, 0.25 (0.17-0.35)
4	10/76, 0.13 (0.06-0.23)
5+	2/65, 0.03 (0.00-0.11)
<u>Survival</u>	
0	43/226, 0.19 (0.14-0.25)
1	58/177, 0.33 (0.26-0.40)

2	75/175, 0.43 (0.35-0.51)
3	24/99, 0.24 (0.16-0.34)
4	18/76, 0.24 (0.15-0.35)
5+	7/65, 0.11 (0.04-0.21)

Discharge mRS 0-2

0	12/226, 0.05 (0.03-0.09)
1	16/177, 0.09 (0.05-0.14)
2	21/175, 0.12 (0.08-0.18)
3	2/99, 0.02 (0.00-0.07)
4	2/76, 0.03 (0.00-0.09)
5+	1/65, 0.02 (0.00-0.08)

Supplemental Table 3: Total number of intermittent antiepileptic drugs administered, not including propofol and midazolam, stratified by worst EEG pattern detected and Center. Center 1 data are presented in the top of each cell, while Center 2 data are presented in the bottom of each cell.

Worst EEG pattern detected	Center	Number of antiepileptic drugs (AEDs) administered			
		0 AED (n = 503)	1 AED (n = 140)	2 AEDs (n = 95)	3+ AEDs (n = 85)
Never checked (n = 309)	Center 1:	131 (88)	11 (7)	3 (2)	4 (3)
	Center 2:	148 (93)	7 (4)	5 (3)	0 (0)
Nothing epileptiform (n = 251)	Center 1:	130 (77)	30 (18)	8 (5)	0 (0)
	Center 2:	52 (63)	24 (29)	6 (7)	1 (1)
Non-periodic discharges (n = 34)	Center 1:	5 (20)	14 (56)	3 (12)	3 (12)
	Center 2:	1 (11)	7 (78)	0 (0)	1 (11)
Periodic discharges (n = 41)	Center 1:	7 (23)	6 (20)	6 (20)	11 (37)
	Center 2:	0 (0)	5 (45)	2 (18)	4 (36)
Seizures (n = 13)	Center 1:	0 (0)	1 (9)	5 (45)	5 (45)
	Center 2:	0 (0)	0 (0)	1 (50)	1 (50)
Polyspike burst (n = 170)	Center 1:	13 (10)	22 (17)	48 (37)	47 (36)
	Center 2:	16 (40)	13 (33)	8 (20)	3 (8)

Data are presented as raw number with corresponding row percentages.