Supplemental Digital Content 2:

Treatments 24h before the first test

		Healthy volunteers n=26	Neurology patients n=20	ICU patients able to speak n=46	Intubated patients n=30
Opioids, n (%)			0	12 (26)	16 (53)
Fentanyl/mcg	mean (SD)		0	148 (80)	1040 (1355)
Morphine/mg			0	7 (7)	41 (48)
Benzodiazepines, n (%)			20 (4)	7 (15)	8 (26)
Oxazepam/mg			0	37 (15)	0
Bromazepam/mg	mean (SD)		1 (0.7)	1.5 (0)	3 (2)
Lorazepam/mg			1 (0)	1 (0)	0
Anti-epileptics, n (%)			0	3 (6)	2 (6)
Levetiracetam/mg			0	500 (0)	100 (0)
Acide Valproique/mg	mean (SD)		0	600 (0)	0
Phenytoin/mg			0	300 (0)	0
Anti-depression drugs, n (%)			5 (25)	0	6 (20)
Olanzapine/mg			0	0	7.5 (4)
Mirtazapine/mg			15 (0)	0	0
Paroxetine/mg	mean (SD)		0	0	0
Citalopram/mg			16 (7)	0	20 (0)
Sertraline/mg			25 (0)	0	0
Hypnotics, n (%)			4 (20)	0	21 (70)
Zopiclone/mg			7.5 (0)	0	0
Zolpidem/mg	mean (SD)		8 (2)	0	10 (0)
Propofol/mg			0	0	617 (654)
Anti-psychotics, n (%)			1 (5)	0	0
Levomepromazine/mg	mean (SD)		12.5 (0)	0	0