## Supplement 1

## $Continuous\ electro-encephalographic\ (EEG)\ monitoring\ in\ the\ Intensive\ Care\ Unit:$

## A survey of Intensive Care Units Worldwide

SECT	TION I - DEMOGRAPHICS
1.	<b>Name of Hospital and Healthcare System</b> (for demographic use only – will not be published):
2.	<b>Location: City, State (if applicable), Country</b> (for demographic use only – will not be published):
3.	Type of ICU (1)
	Medical
	Surgical
	Neurological/neurosurgical
	Cardiac Surgery/Cardiac Care
	Trauma
	Pediatric
	Burns
	Multidisciplinary
	Other, specify
4.	Characteristics of your institution (Per Halpern et al criteria)
	Community, non-academic
	Academic, university based
	Public
	Military, or VA
	Other, specify

Size of the hospital based on number of total beds at your institution (Per Halpern et al criteria)(2)
 Small to medium (<300)</li>

Large (301-500)

	Extra-large (>500 beds)
6.	Size or total beds at your ICU (Per Halpern et al criteria)(3)
	≤12
	13-18
	19-24
	≥25
SEC	TION II – cEEG NEUROMONITORING TEAM
520	
For	the following questions, cEEG refers to EEG with and without video monitoring.
7.	Is there a cEEG team on site at your institution?(4)
	Yes
	No
	Don't know
8.	Is the cEEG team at your institution supervised by a "Team-leader(s)"? (i.e. physician(s) with training and experience in clinical EEG)(4)
	Yes
	No
	Don't know
9.	Please identify the typical designation of the cEEG "Team-Leader(s)"
	Neurologist
	☐ Certification in clinical neurophysiology (American Board of Psychiatry

		and Neurology [ABPN] or American Board of Clinical Neurophysiology
		[ABCN])
		Fellowship trained (i.e at least 1-year of post-residency training in
		clinical neurophysiology with a 6-month concentration in EEG and at least 3-months of cEEG )
		Certification in epilepsy (ABPN, sub-epilepsy) (i.e. at least 1-year post-
		residency training in clinical neurophysiology or epilepsy)
	Neuro-Intensi	ivist
		Certification in neurocritical care (UCNS) (i.e. at least 6 months post-
		residency full time training in EEG and at least 3 months of cEEG)
	Other, specify	<b>y</b>
10.	How many "	Team-leaders" at your institution?
	1-2	
	3-4	
	<u>≥</u> 5	
	Don't know	
11.	Can the cEE	G Team Leader(s) access cEEG's in your ICU remotely ?(4)
	Yes	
	No	
	Don't know	
12.	Does the cEF your ICU?	EG team also rely on "Team leader(s) designees to interpret cEEG in
<b>12.</b>		EG team also rely on "Team leader(s) designees to interpret cEEG in

	Don't know
13.	What type of designee(s)?
	Neurodiagnostic Technologists (NDT)
	Residents, house-staff
	Fellows
	Other, specify
	Don't know
14.	Are there on site Neurodiagnostic Technologists (NDT) at your institution?(4)
	Yes
	No
	Don't know
15.	What is the availability of your Neurodiagnostic Technologists (NDT) at your institution?(4, 5)
	In-house 24-hours a day
	In-house part of the day with no overnight coverage
	In-house part of the day and off-site (on call)
	Off-site (on call)
	Don't know

**16.** How many Neurodiagnostic Technologists (NDT) at your institution?

	1-2
	3-4
	≥5
	Don't know
17.	If there is no onsite cEEG team at your institution, do you outsource?(4)
	Yes
	No
	Don't know
SECTI	ION III – INDICATIONS
18.	Please select all the indications for you which normally request cEEG in the ICU at your institution (Check ALL that apply) (4, 6)
	Diagnosis of non-convulsive seizures, non-convulsive status epilepticus, and other hyperkinetic paroxysmal events
	Assessment of efficacy of therapy for seizures and status epilepticus (convulsive and non-convulsive)
	Monitoring of sedation and high-dose suppressive therapy (sedative and anesthetic infusion)
	Assessment and severity of encephalopathy and prognostication
	Assessment and severity of encephalopathy and prognostication  Identification of cerebral ischemia
	Identification of cerebral ischemia
	Identification of cerebral ischemia Subarachnoid hemorrhage
	Identification of cerebral ischemia Subarachnoid hemorrhage Brain injury with subsequent coma

## SECTION IV – cEEG PROCEDURES

19. Does your institution/ICU have an established protocol to request cEEG based on indications, urgency, and duration of cEEG?(4)

	Yes
	No
	Don't know
20.	Under ideal conditions, cEEG should be available 24 hours a day, seven days per week, with electrodes applied and EEG recorded by NTDs, with rapid interpretation by a "Team-leader".
Is thi	is the case at your institution? (4)
	Yes
	No
	Don't know
21.	How frequent is the cEEG report provided to the ICU team at your institution?(1, 4)
	<b>-1</b> )
	Once a week
	Once every 48-72 hours
	Once a day
	Twice a day
	Continuous monitoring with real time updates as requested
	Never or upon patient's discharge from ICU
	Other, specify
	Don't know
22.	How are reports delivered to the ICU team? (1, 4)
	Hand written report in the hospital chart
	Electronic report entered into an electronic medical record (EMR)

	Report is verbally communicated to ICU team
	Report is communicated to ICU team by SMS text or e-mail
	Other, specify
	Don't know
23.	How often is there a change in clinical management based on the cEEG results?
	Never
	Rarely
	Sometimes
	Frequently
24.	During cEEG monitoring in your ICU, do you have Video recording capability? (4)
	Yes
	No
	Don't know
25.	During cEEG monitoring in your ICU, do you have graphical display quantitative EEG (QEEG) capability? (4)
	Yes
	No
	Don't know
_	