EMU Seizure Markers/Data

**Patient 1\*​**  
start 10:27:30 (2/10/16)  
*​\_seizure maybe between 16:00-17:00\_​*  
stop ~18:23:40 (2/10/16)  
start 18:47:00 (2/10/16)  
*​\_seizure maybe between 07:30-08:00\_​*  
stop ~10:51:30 (2/11/16)**​\*Patient 2\*​**  
start 12:12:15 (2/11/16)  
stop ~19:48:15 (2/11/16)

PATIENT 1

Event 1: 2/10/16 @ 16:26.  Pt staring off towards the right, able to follow directions to grip nurses fingers but does not respond verbally.  HR 107.  EEG shows a single spike at Sp1 after the event has started, but no other epileptiform abnormalities = > not likely an epileptic seizure.

Dig clk (VEEG time) – offset ~ 9:44

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| Seconds after start | Kobylarz notes | Observations? |
| 21737 | patient using laptop, occas typing with R hand | Accel y and z have low frequency wave |
| 21841 | closes laptop, then pushes bedside table forward and to her L, grabs pillow | EDA fluctuates |
| 21862 | scratches face with R hand | Change in all three accels  Spike(s) in EMG right before and right after  EDA fluctuation |
| 21871 | closes eyes, still, holding onto cell phone | Accels are all flat  EDA fluctuation  ECG midline rises (but morphology looks unchanging) |
| 21989 | husband grabs and moves her R hand | Change in all three accels  EDA fluctuates rapidly right after  EMG fluctuates after  Possible alternans (inverted terminal part of wave) at 21992-21994 s |
| 22032 | pt opens eyes, looks towards her R | EDA continues to have slight bumps at regular frequency  Relatively flat accels |
| 22037 | bed shaken by husband? |  |
| 22055 | husband notes she is unresponsive | ECG motion artifact right after |
|  | Clock obscured by husband (16:25:35),. He shakes her R hand | EDA high frequency small amplitude fluctuations |
|  | Clock obscured (16:25:40) diffuse EMG/muscle artifact, more on the L | EDA high frequency small amplitude fluctuations |
| 22099 | slight shaking noted in R hand | EDA high frequency small amplitude fluctuations |
| 22111 | nurse asks pt to squeeze her fingers – responds slightly | EDA high frequency small amplitude fluctuations |
| 22160-22177 |  | EMG off and on |
| 22206 | husband grabs her R hand, pt appears more responsive |  |
| 22228 | nurse notes slt shaking of R hand (not visible) |  |
| 22251 | patient raises R arm then shows R thumb to command | EDA/EMG changes |
| 22280 | nurse testing bilateral grip strength – better effort this time, EMG/muscle artifact noted, more on L |  |
| 22285 | raising arms to command |  |
| 22289 | touching nose with index finger to command, first L then R, then rotates arms, tremulous movements |  |
| 22276 | pt appears fatigued, but for most part back to baseline |  |
| 22608 | reaches towards left for water bottle with right hand, manipulates bottle, then drinks |  |
| 22729 | grabs, then holds cell phone by ear with R hand |  |
| 22754 | moving head and body while talking – more diffuse muscle and motion artifact |  |

Event 2: 2/10/16 @ 23:05.  Pt moves tray away, stares off toward the right.  Pt does not verbally respond, but can nod head appropriately.  About 1 minute into the episode there is a single sharp wave at Sp1, EEG otherwise stable.=> not likely an epileptic seizure.

Dig clk (VEEG time)

|  |  |  |
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| Seconds after start | Kobylarz notes | Observations? |
| 15682 | Pt using laptop, moving R hand |  |
| 15852 | lowers R hand to bed |  |
| 15939 | raises R hand to laptop |  |
| 15990 | closes laptop, pushes bedside table forward, then aside, lies quietly, head turned towards R |  |
| 16126 | husband presses event mkr button, pt arouses |  |
| 16157 | nurse tests hand grip command, no visible response |  |
| 16161 | pt’s head jerks backward, L knee upward |  |
| 16175 | husband holds pt’s R hand |  |
| 16184 | forward jerking movements of head |  |
| 16200 | R elbow flexion, arm elevation, lateral mvmt, slt jerking |  |
| 16223 | husband holds pt’s R hand, then moves it around |  |
| 16260 | touching/rubbing chest with L hand, near ECG electrodes, talking to nurse |  |
| 16340 | elevates, then moves distal R arm laterally, briefly pats pillow |  |
| 16392 | head of bed lowered, some body movement |  |
| 16439 | raises R hand to mid-chest, touches sternum area, lying quietly |  |
| 16560 | raises then laterally moves R forearm, then quiet |  |