



	Ignacio Ramírez	Paulino	Facultad de Ingeniería - Universidad de la República	Observer
	Sandor	Benizcky	Filadelfia	Observer
Present	Steve	Nichols	GE Healthcare	Observer
	Gardar	Thorvardsson	Kvikna / Stratus EEG	Observer
	Richard	Moberg	Moberg Research, Inc.	Observer
	Desire	Jean		Observer
	Casey	Stengel	Neuralynx	Observer
	Bill	Antilla	Nihon Kohden Corporation	Observer
	Ryuzo	Mase	Nihon Kohden Corporation	Observer
	Koichiro	Matsumoto	Nihon Kohden Corporation	Observer
	Pedro Fernando	Arizpe Gomez	OFFIS e. V.	Observer
	Daniel	Crepeau	Dark Horse Neuro	Observer
	Andrey	Pirozhenko	Persyst	Observer
Present	Shane	Ponzikoff	Persyst	Observer
	Wouter	Potters	Amsterdam UMC, Netherlands	Observer
Present	Stefan	Rampp	University Klinikum Erlangen	Observer
	Dagmar	Krefting	University Medical Center Göttingen	Observer
	Marco	Rossi	University of Milan, Italy	Observer
	Gloria	Menegaz	University of Verona, Italy	Observer
	Matan	Oppenheim	Zebra Medical Vision	Observer
Present	Jonathan	Pfaff	Fraunhofer Heinrich Hertz Institute HHI	Observer
Present	Gary	Sullivan	ITU-Rapporteur	Observer
	Kristian	Bernard Nilsen	Oslo University Hospital	Observer
Present	NS	Nagarajan	GE Healthcare	Observer

#### 1. CALL TO ORDER AND REVIEW OF ANTI-TRUST RULES AND DICOM PATENT POLICY

The meeting was called to order at 10:02 AM. Participants were reminded that the Guidelines for Conducting NEMA Meetings and Patent Disclosure Policy are in effect and they may be found here: <https://www.dicomstandard.org/patent>.

#### 2. WELCOME/ATTENDANCE/INTRODUCTION

Attendance was taken.

#### 3. REVIEW AND APPROVE AGENDA

The agenda was reviewed, motion to approve by JH and seconded by SP.

#### 4. REVIEW MINUTES

The minutes of the 18 January 2024 meeting were reviewed, motion to approved by JH and seconded by BB.

## 5. OLD BUSINESS

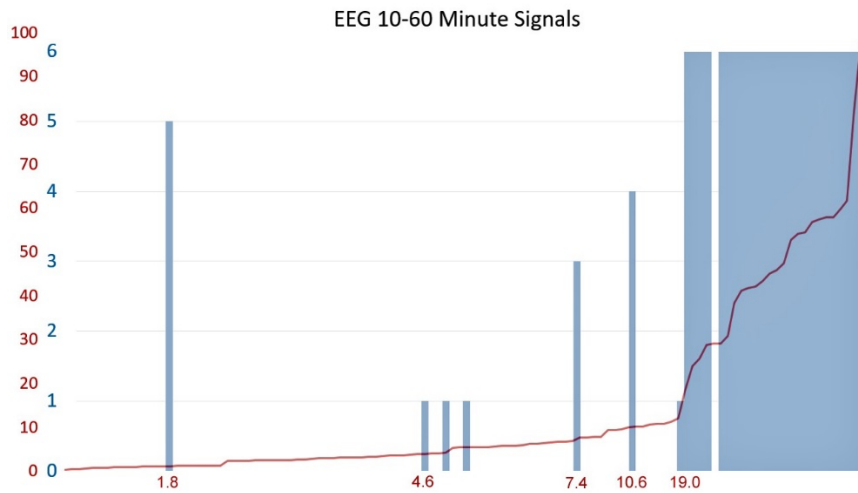
Silvia Winkler reviewed the following:

- Supplement 239 Waveform Annotations has been sent out for Public Comment on January 9th. There were few comments. SW reviewed the comments with WG-32. The next step is to send to WG-06 (mid-March).
- Supplement 236: WG-06 made updates. SW reviewed the changes that needed WG-32 feedback.
- Ben Brinkman will assist Silvia with edits on Supplement 236.
- Silvia Winkler reviewed old and new sleep staging codes based on the 2015 AASM Manual . She asked WG-32 to review. Jan Remi and Jonathan Halford reviewed and said the edits were fine.

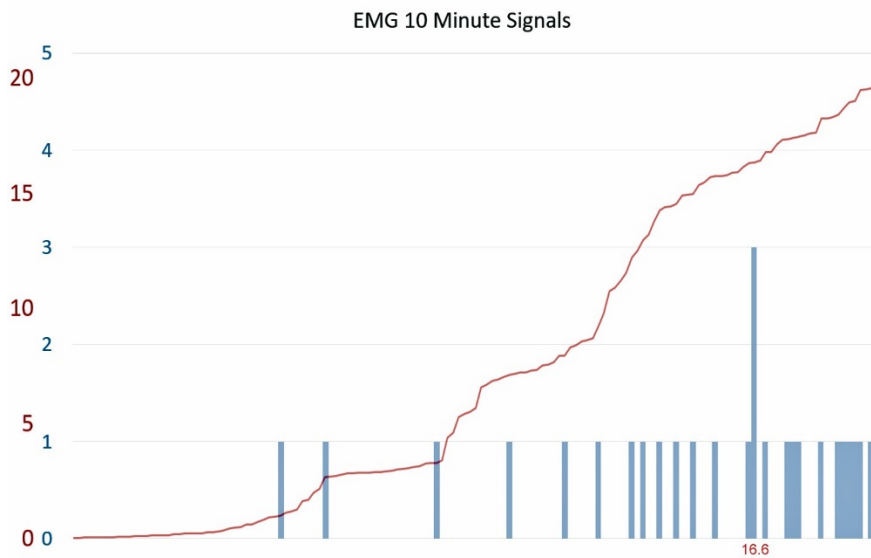
## 6. NEW BUSINESS

- Jonathan Halford presented review scoring data from EMG and EEG.

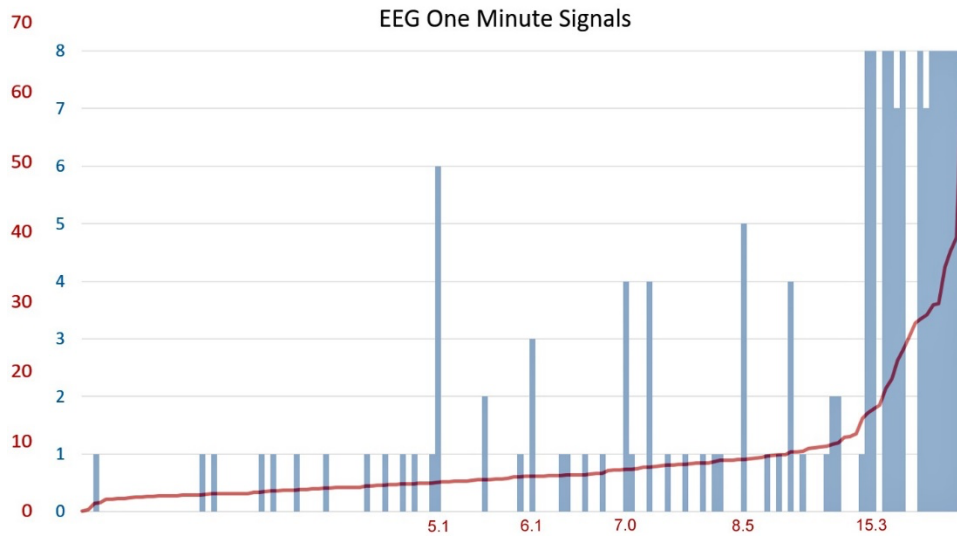
114 single channel EEG segments derived from 10-60 min duration EEG recordings (104 scalp [60 min duration]and 10 intracranial[10 min duration]) all containing either seizures or interictal epileptiform discharges were presented using the web-server EEGnet system to 6 neurologists who specialize in clinical neurophysiology. Scorers viewed an original signal above (and could change filters and gain) and a compressed/decompressed signal with MPEG-AAC and were asked to respond yes/no to whether they saw a “clinically significant difference” in the signals. Results are below with PRD in red and scorer number in blue:



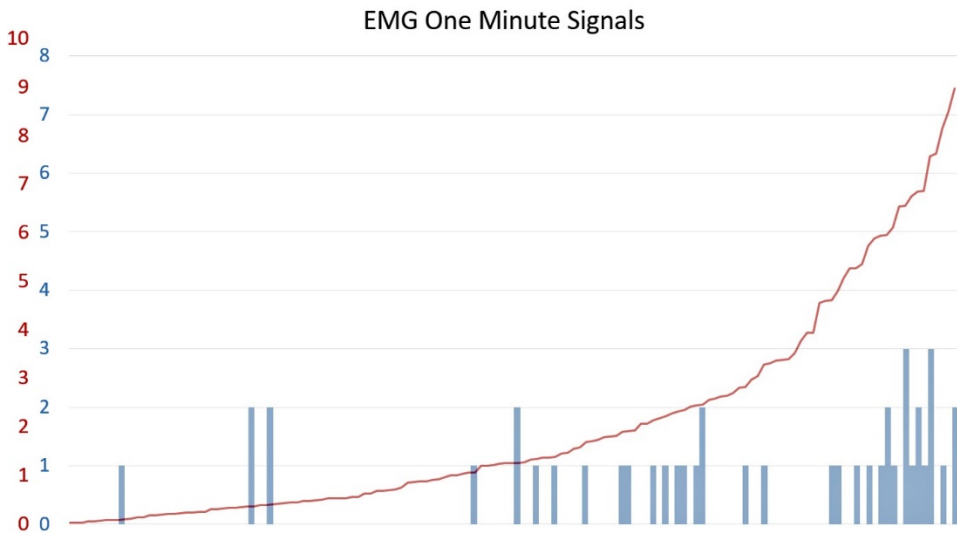
This was repeated with 145 10-minute segments of EMG derived from the MEDELEY database with 5 neurologists who specialized in neuromuscular neurology:



Because PRD varied minute-by-minute in the EEG and EMG signals and because it seemed, based on the EEG scoring that PRDs above 20% caused more distortion, the study was repeated using 1-minute segments from EEG and EMG from the same databases. This is the result for 1-minute EEG segments with 8 neurologist clinical neurophysiologist scorers:



This is the scoring data with eight neurologists who were neuromuscular specialists:



Overall, it appeared that there was not much distortion below PRD of 15% with EMG but EEG showed clinically-significant distortion sometimes with PRD of only 5.1%. It was decided to proceed with more testing using intracranial EEG data since it appeared, visually, that the difference in the signals when there was distortion was due to differences in high frequency signal content.

- Ben Brinkmann agreed to contribute further intracranial EEG data and Jonathan Halford will provide further intracranial data to this project.



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## 7. DATE AND TIME OF NEXT MEETINGS

Thursday 21 March	10:00- 11:00 am US ET
Thursday 18 April 2024	10:00- 11:00 am UD ET

Prepared by Kim Zaiss  
Submitted by Shayna Knazik  
Reviewed by counsel 4/5/2024 kfrm

PREPARED BY

Kim Zaiss

LEGAL APPROVAL

4/5/2024