Sleep Staging

Packet 1

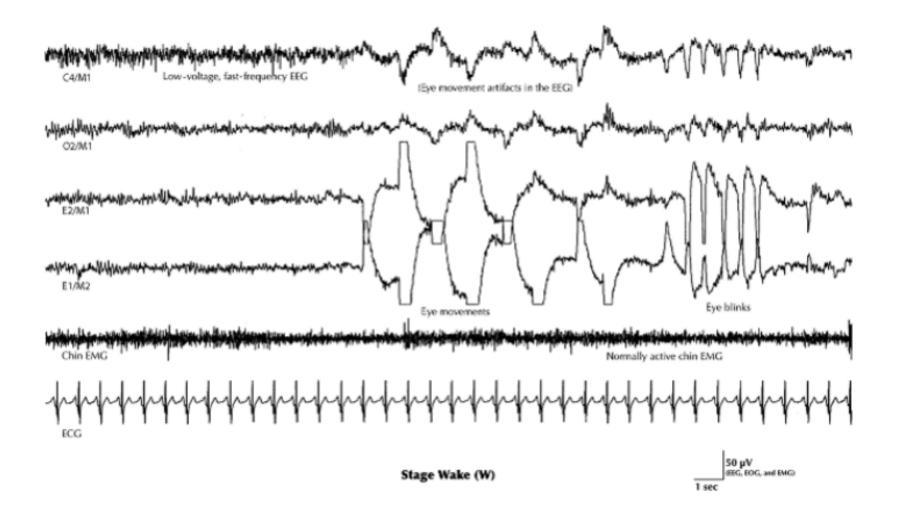
Differences Between R&K Manual and AASM Manual

Differences	R and K Manual	AASM Scoring Manual	
EEG electrodes	Score sleep stages using central (C3, C4) leads	Score using frontal, central, and occipital leads	
Major body movements	Movement time can be scored if more than half the epoch is obscured	No movement time staging exists	
Slow wave sleep	Consists of both stage 3 and stage 4 sleep with delta wave amplitude measured using central leads	Only recognizes stage N3 sleep with delta wave amplitude measured using frontal leads	
Terminology of stages	Stage 1, stage 2, stage 3, stage 4, and stage REM sleep	Stage N1, stage N2, stage N3, and stage R sleep	
Reference electrode	Left and right ear or mastoid, termed A1 or A2	Left and right mastoid, termed <i>M1</i> or <i>M2</i>	
Scoring stage 2 (or N2) sleep	3-minute rule that states if greater than 3 minutes pass between spindles or K complexes, then score stage 1 sleep	No 3-minute rule exists	

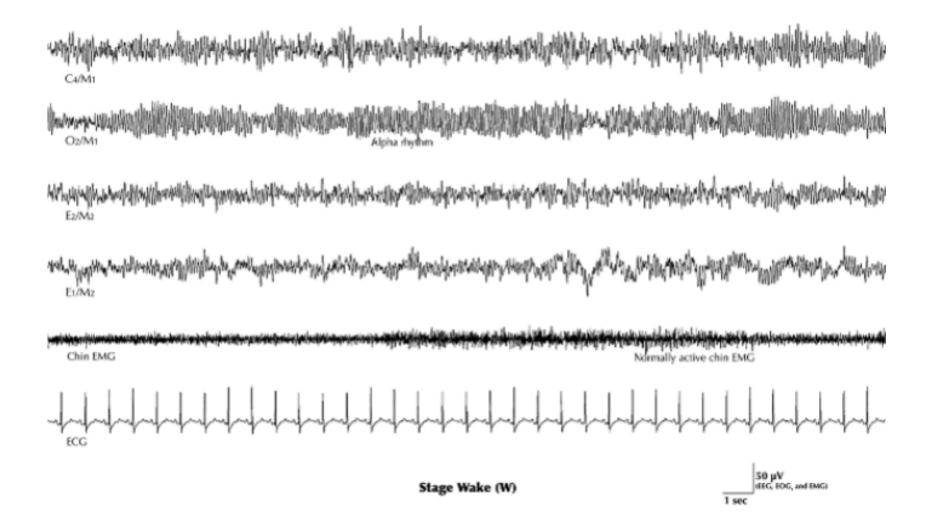
EEG Frequencies

EEG Rhythm	Characteristics	Best Seen	Examples
Posterior dominant rhythm	8.5-13 Hz	Occipital	EQC-A1 F4-A1 North Colonia Market
Slow waves	0.5-2 Hz; amplitude ≥ 75 μV	Frontal	LOC-A1 ROC-A1 F4-A1 C4-A1 O2-A1
Spindle	11-16 Hz; duration ≥ 0.5 sec	Central	ECC-AT WAS AND
K complex	Diphasic; large amplitude, duration ≥0.5 sec	Frontal	EOC-A1 ROC-A1 F4-A1 C4-A1 O2-A1 White All All All All All All All All All Al

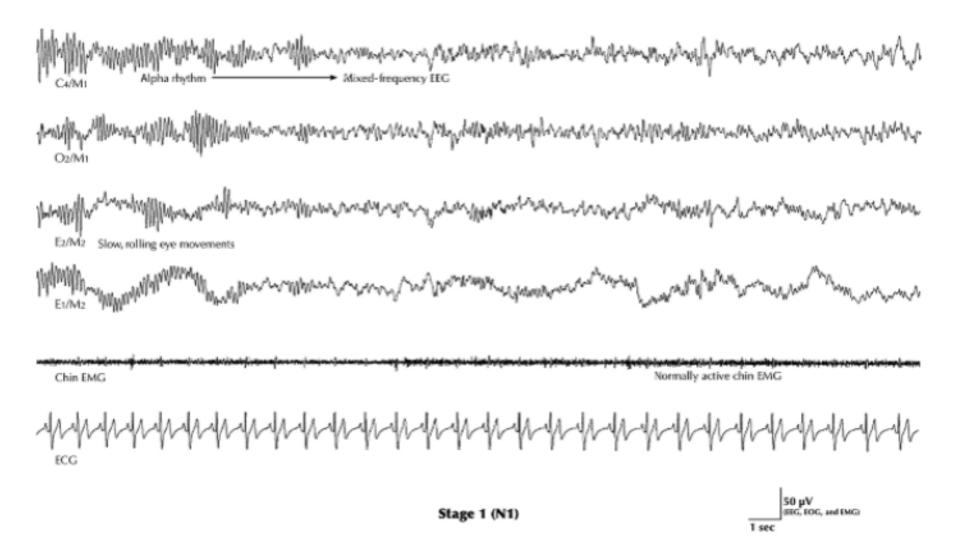
Wake



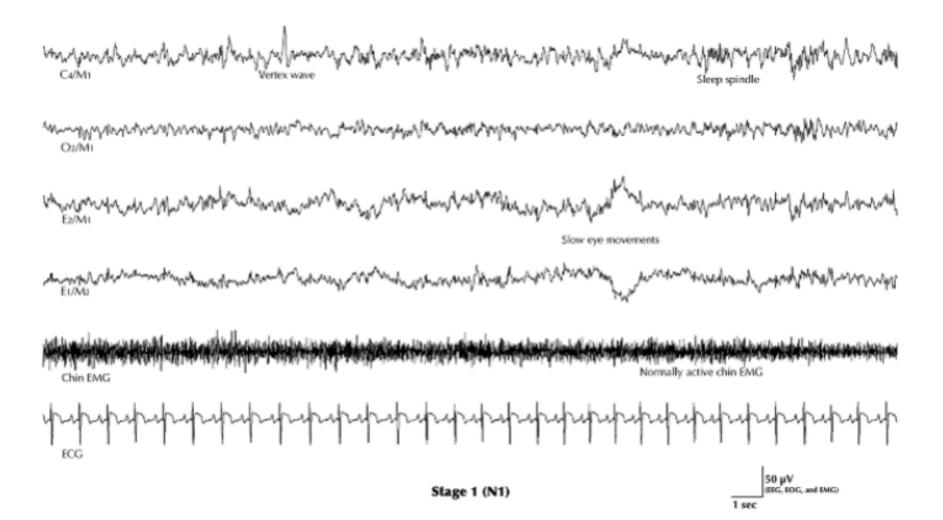
Wake – Eyes Closed



N1

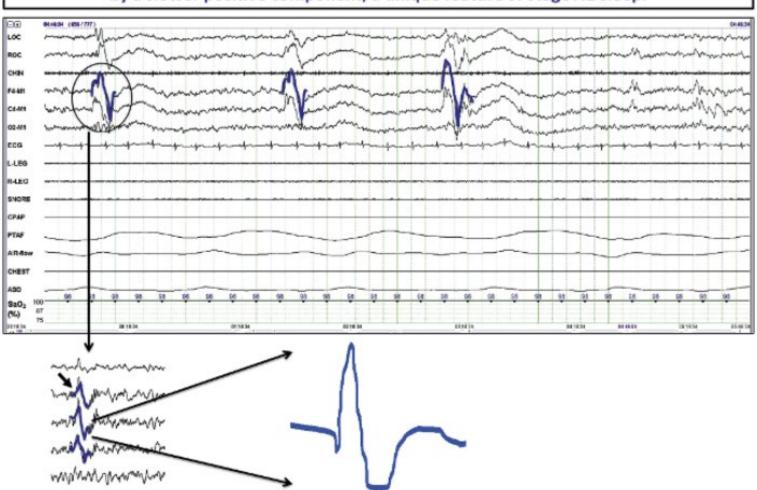


N1 Transitioning to N2

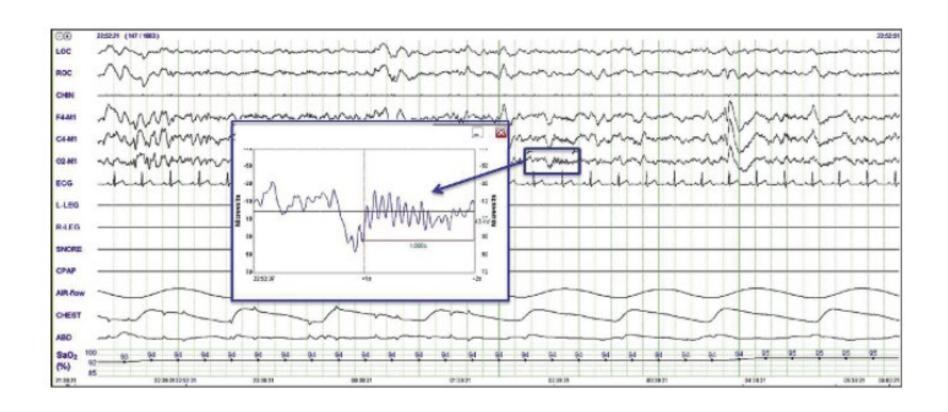


K Complexes

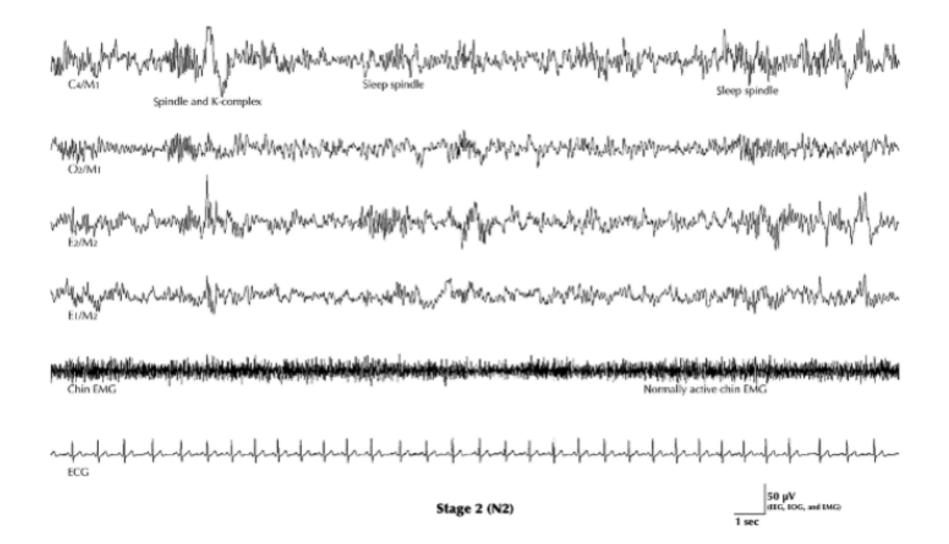
K complexes are represented by a sharp negative wave followed by a slower positive component, a unique feature of stage N2 sleep.



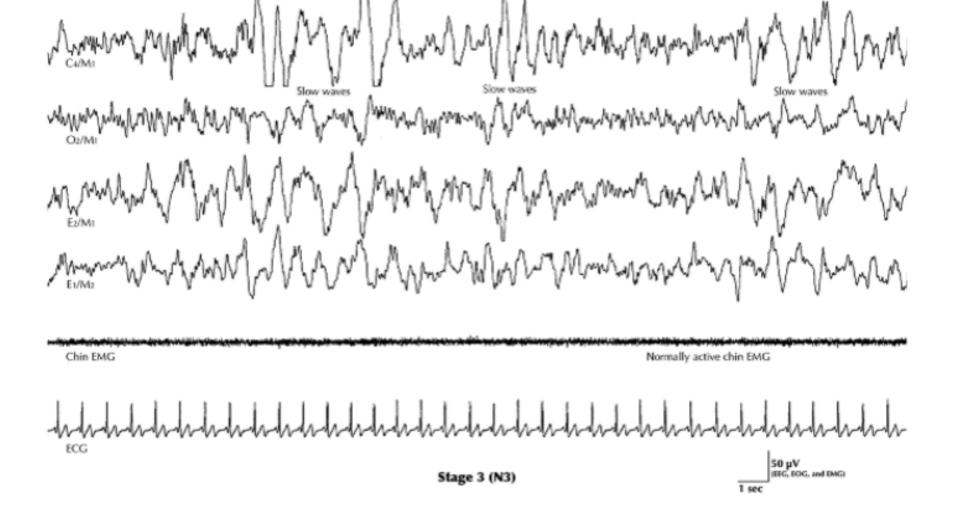
Spindles



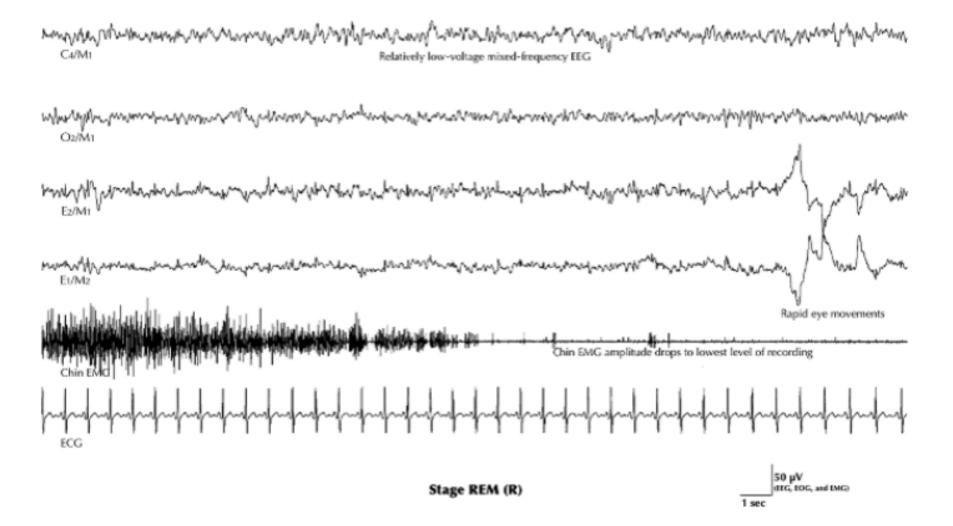
N2

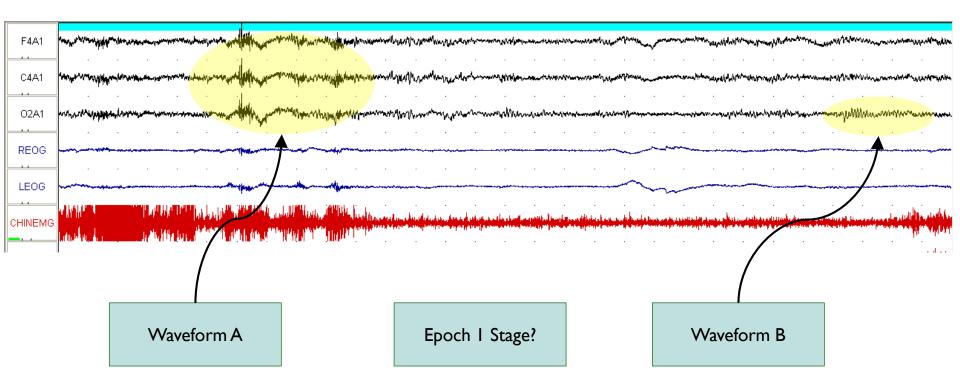


N3

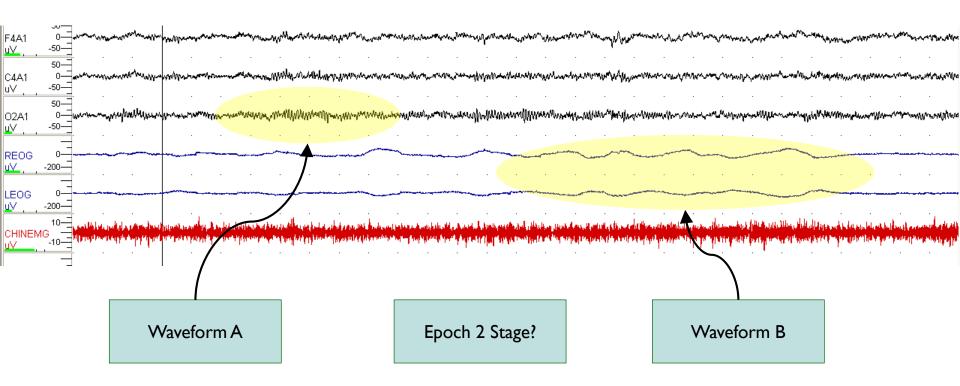


REM

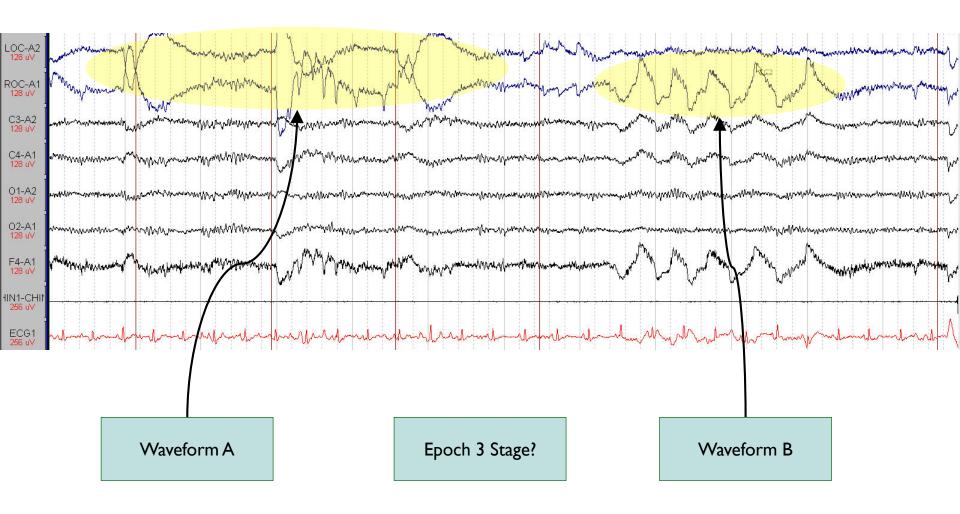




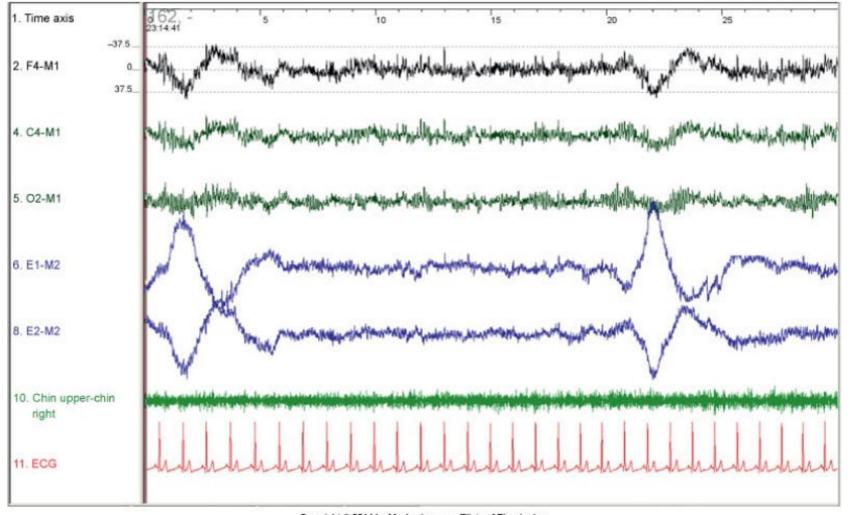
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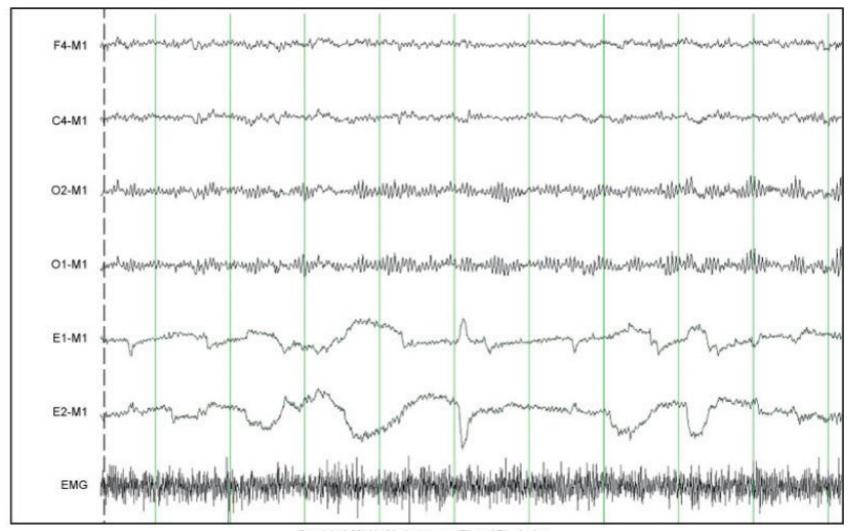


30 seconds per screen

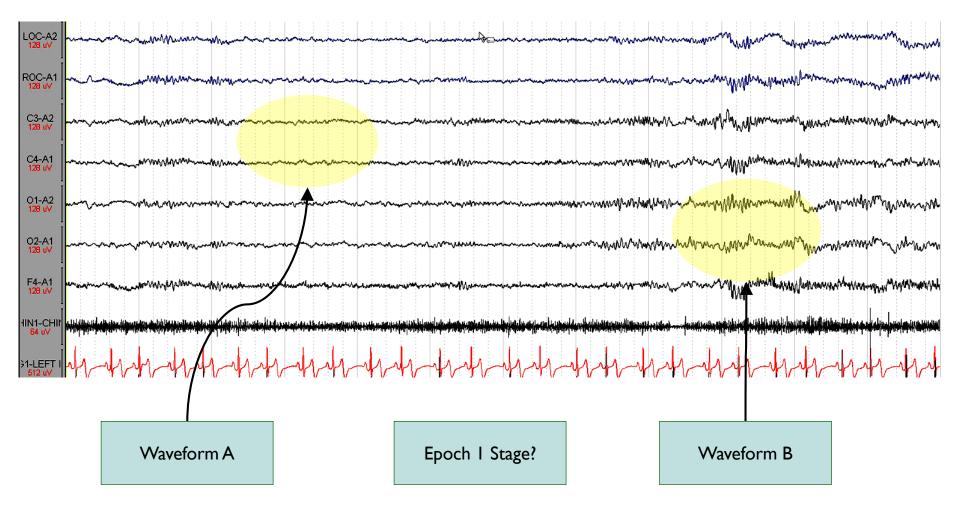


30 seconds per screen





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