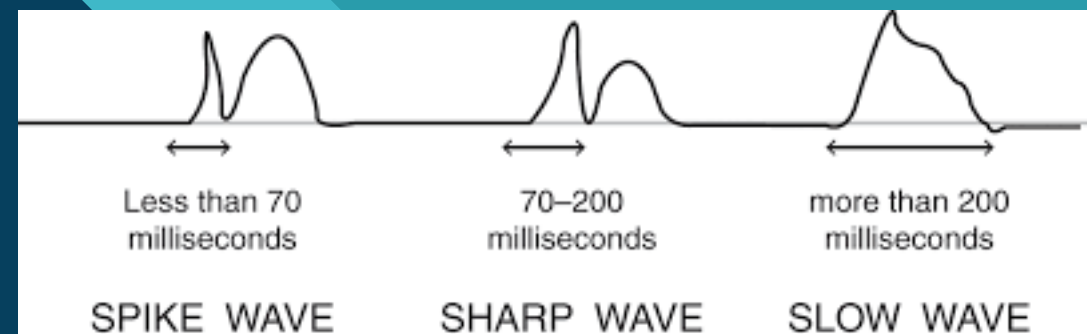




Sporadic Interictal Epileptiform Discharges (IEDs)

Intro: Epileptiform Discharges

Epileptiform potentials: “stand above the background, have a “pointy” shape, duration between 30-70 or 70-200 msec, asymmetric rise and fall, and followed by a slow wave.”¹



ACNS STANDARDIZED CRITICAL CARE EEG TERMINOLOGY 2021 (Condensed Version)

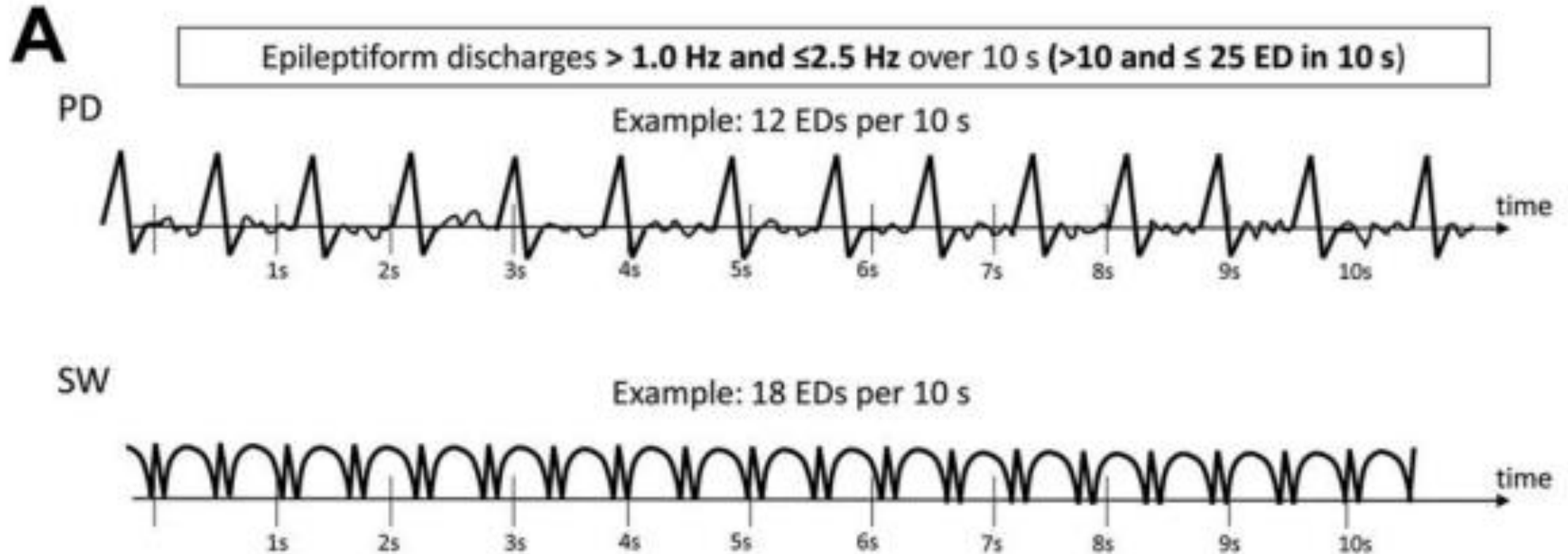
B. SPORADIC EPILEPTIFORM DISCHARGES

Quantify spikes and sharp waves as:

- a. Abundant: ≥ 1 per 10 s, but not periodic
- b. Frequent: ≥ 1 /min but less than 1 per 10 s
- c. Occasional: ≥ 1 /h but less than 1/min
- d. Rare: < 1 /h

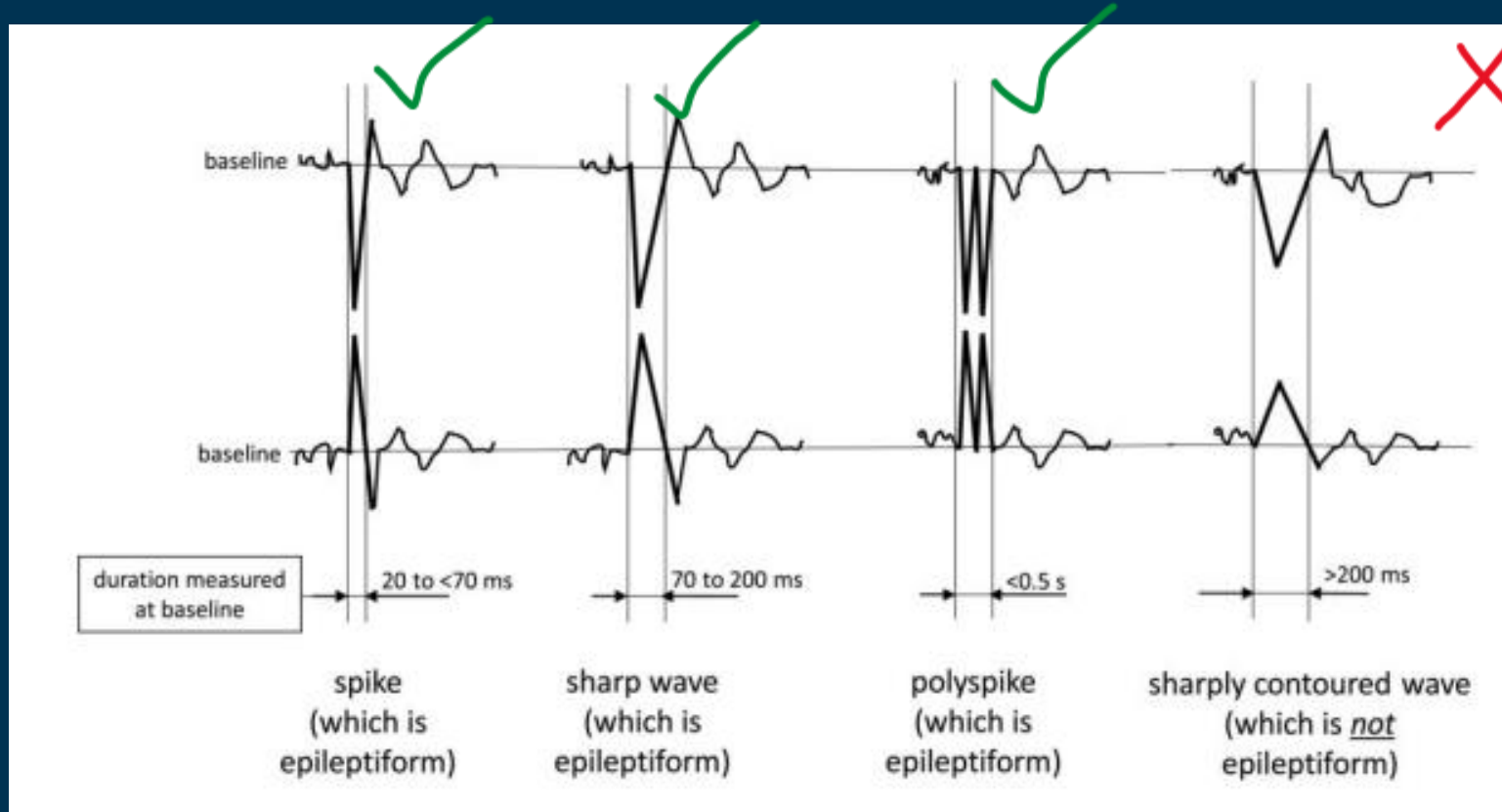
¹ Fisher RS, Scharfman HE, deCurtis M. How can we identify ictal and interictal abnormal activity?. *Adv Exp Med Biol*. 2014;813:3-23. doi:10.1007/978-94-017-8914-1_1 Hirsch LJ, Fong MWK, Leitingner M, et al. American Clinical Neurophysiology Society's Standardized Critical Care EEG Terminology: 2021 Version. *J Clin Neurophysiol*. 2021;38(1):1-29. doi:10.1097/WNP.0000000000000806

Epileptiform Discharges (EDs)



Hirsch LJ, Fong MWK, Leiting M, et al. American Clinical Neurophysiology Society's Standardized Critical Care EEG Terminology: 2021 Version. J Clin Neurophysiol. 2021;38(1):1-29. doi:10.1097/WNP.0000000000000806

Sporadic Epileptiform Discharges



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Criteria for Epileptiform Discharges

1. Morphology

2. Stand out from background

3. Asymmetric Slopes

4. Disruption of background

5. After going slow wave

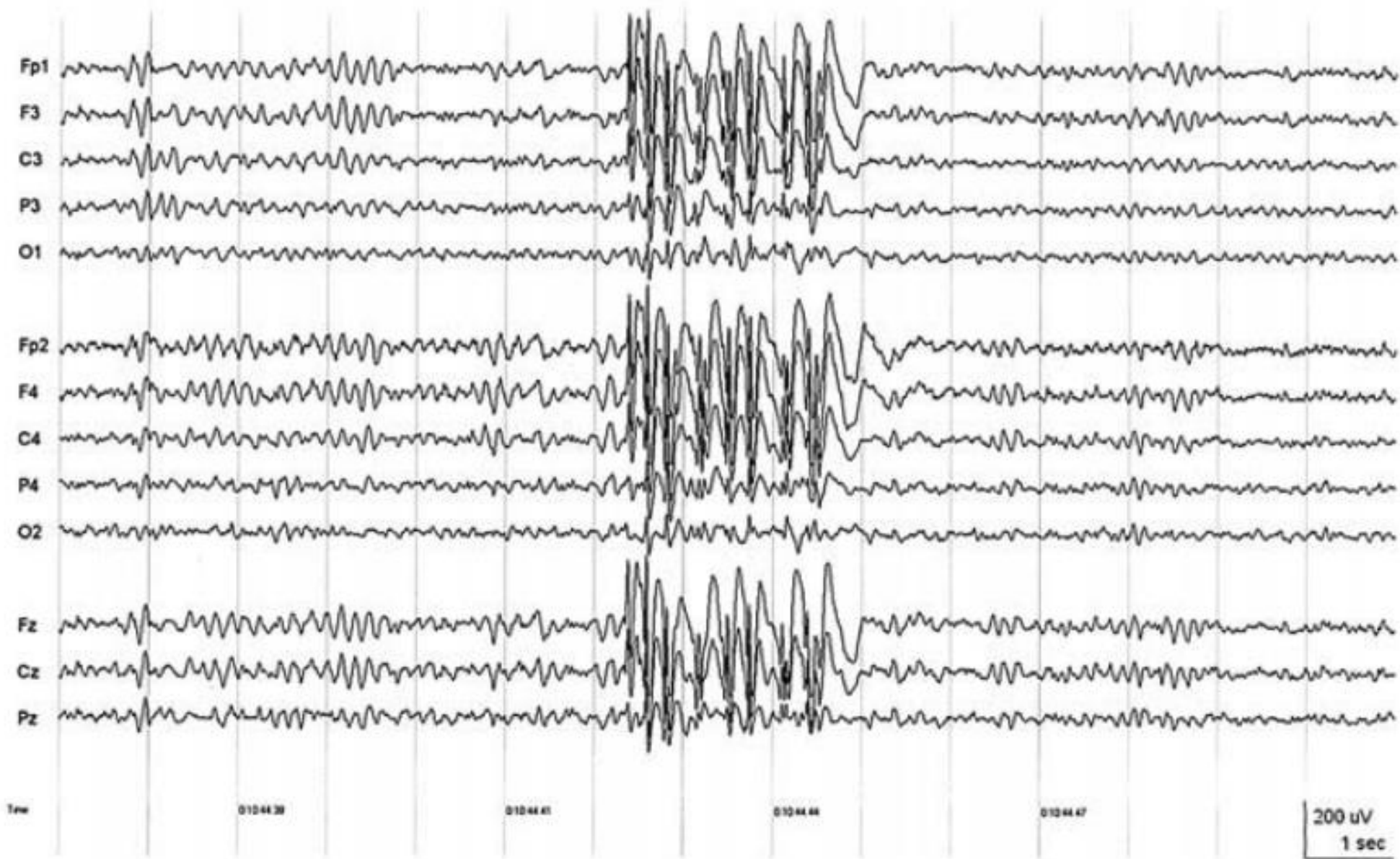
6. Physiologic field

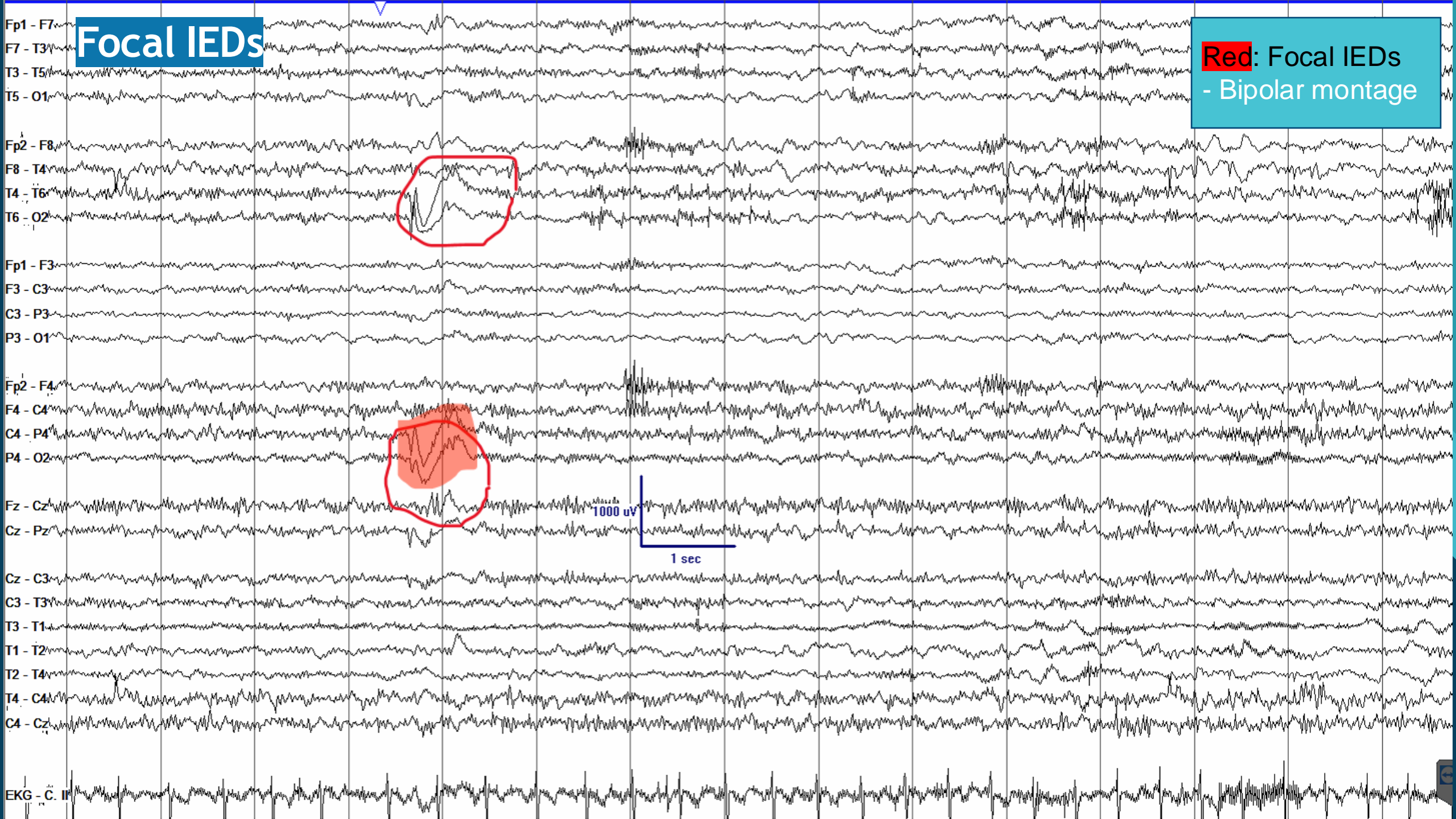
*Fulfill 4/6 criteria
to be called ED*

Types of Interictal Epileptiform Discharges (IEDs)

- Generalized
- Focal
- Multifocal

Generalized IEDs

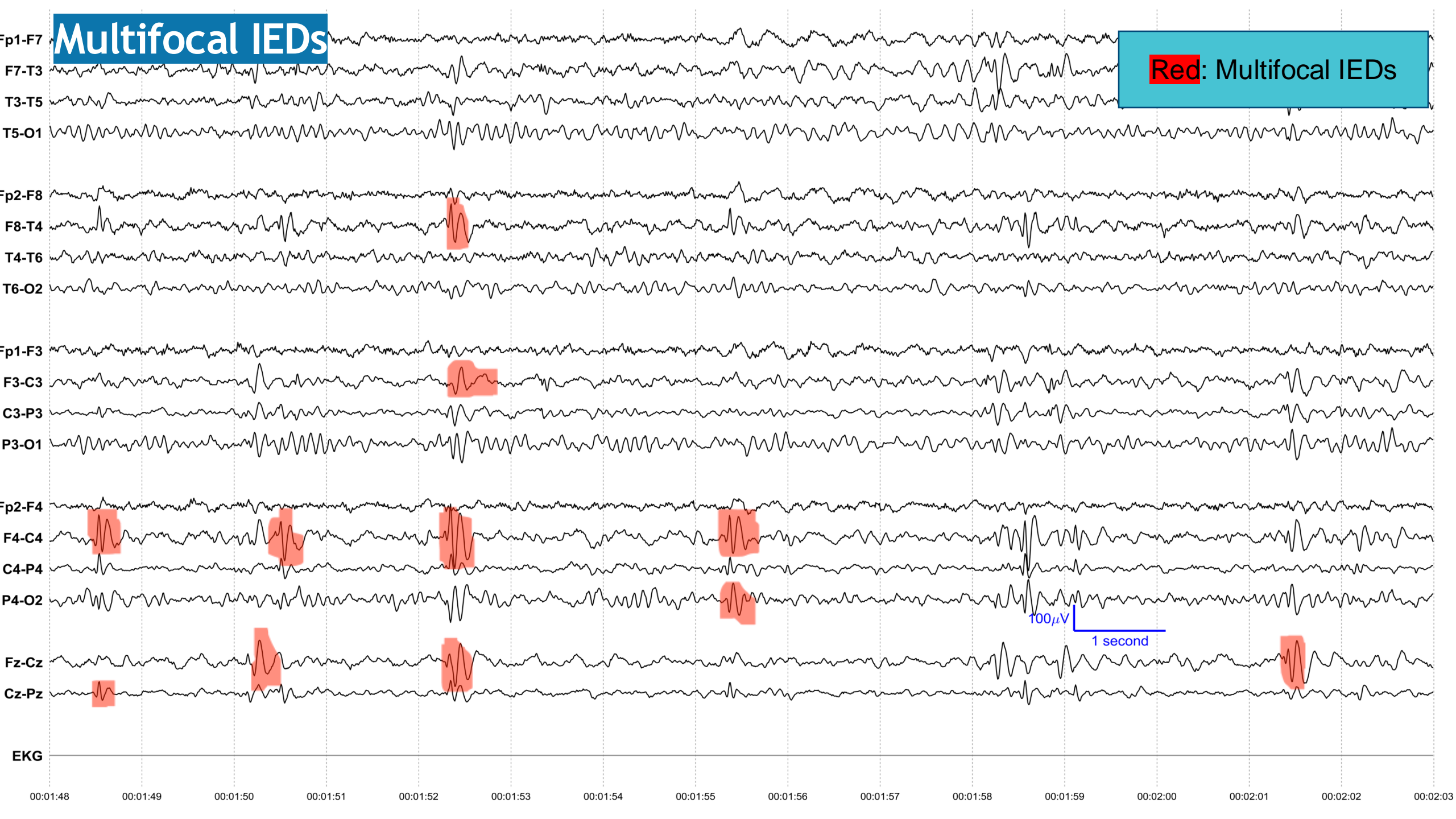




Focal IEDs

Red: Focal IEDs
- Referential montage





Wrap-Up: Sporadic Interictal Epileptiform Discharges (IEDs)

Generalized
IEDs

Focal
IEDs

Multifocal
IEDs