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The routine EEG is ubiquitous in epilepsy, from the decision to initiate antiseizure medications all the way through their attempted withdrawal. However, detection of interictal epileptiform discharges can be elusive as they may not always be present (low to moderate sensitivity) and several spiky transients can mimic interictal epileptiform discharges (moderate interrater reliability). Because routine EEGs are performed dozens of times a day in most hospitals and the recording equipment and protocols are relatively standardized, there is an opportunity for assemble large amount of data to develop algorithms for automated EEG analysis using artificial intelligence.