

“Generalized-to-focal” epilepsy: stereotactic EEG and high-frequency oscillation patterns

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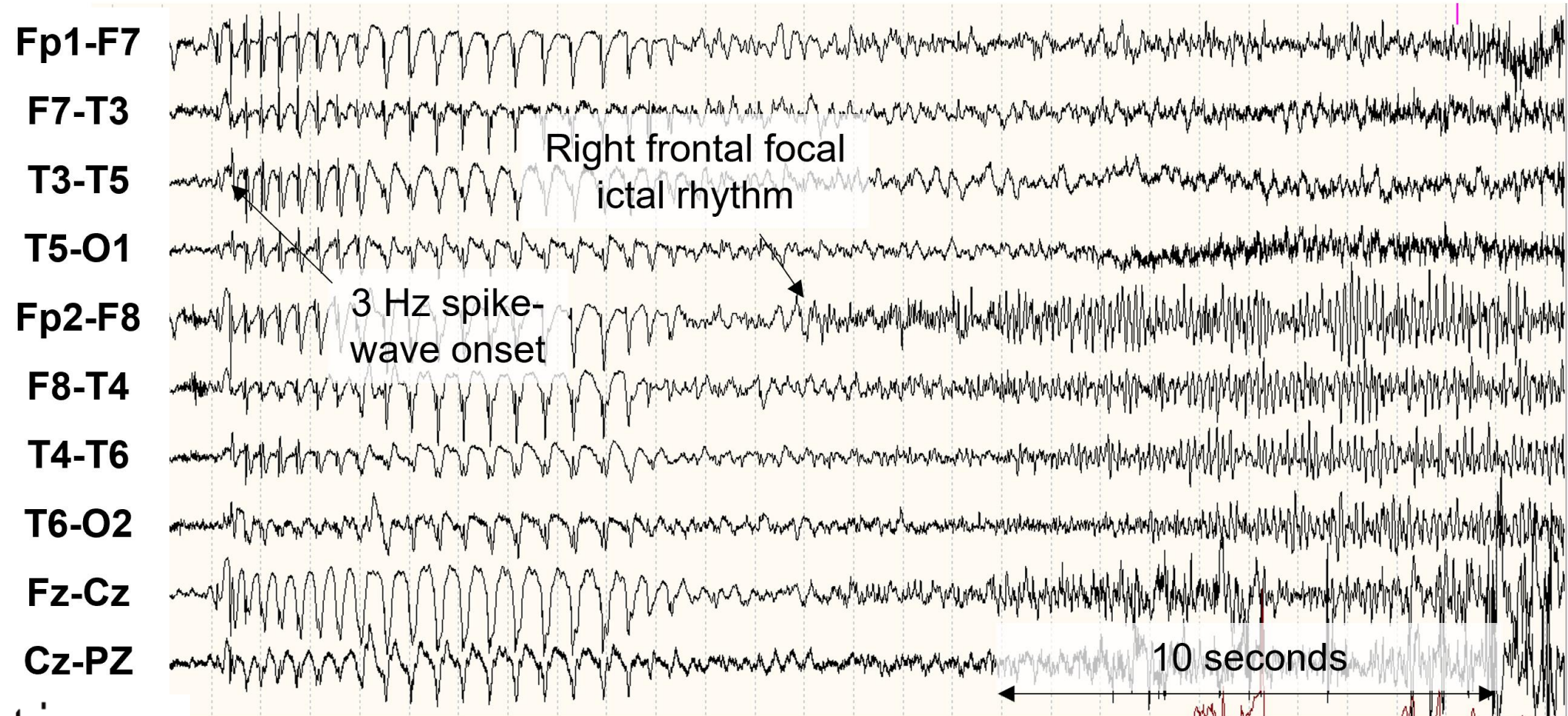
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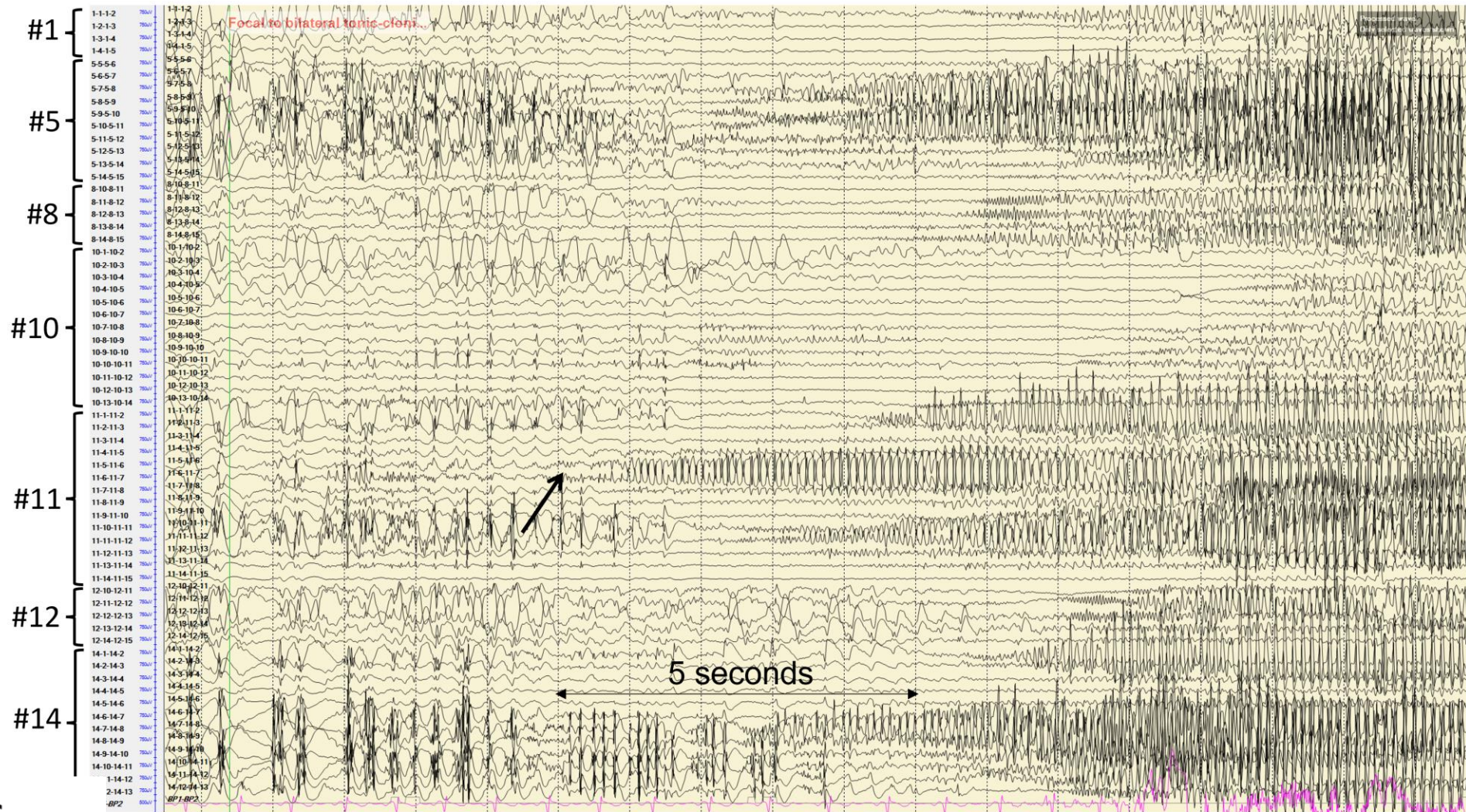
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In generalized-to-focal epilepsy, a patient may have a clinical semiology consistent with a focal to bilateral tonic-clonic seizure, however, scalp EEG consistently shows an apparently generalized burst of spike-wave activity prior to onset, followed by a focal ictal rhythm that spreads bilaterally.



When such patients undergo stereotactic EEG implantation, a similar “generalized-to-focal” electrographic pattern is seen.



When high-frequency oscillation analysis was performed, bilateral focal regions with high fast-ripple rates were observed. This suggests at least an underlying diffuse bilateral network in patients with this generalized-to-focal pattern of epilepsy.