

## **HFOs on demand: stimulation and HFOs**

By: Maryse van 't Klooster (MSc.)

With intracranial inter-ictal HFOs being found in fewer numbers than inter-ictal spikes, it makes waiting for them to occur elaborate. What if we could reduce waiting time and increase precision by getting HFOs on demand? It has been shown that we can evoke HFOs by intracranial single pulse electrical stimulation. In this talk, I will explain how this stimulation protocols can be executed and explain the difference between single pulse stimulation and cortico-evoked potentials, the analytic advantages of stimulated events for automatic detection of HFOs, the potential underlying cellular mechanisms of these evoked HFOs, and their clinical value in finding the epileptogenic zone and I will show its future prospects for clinical use.