a. SMA ERSP, perturbed strides extension-onset mid-extension left SMA right SMA left SMA right SMA right perturbed 50 50 50 frequency (Hz) 13 13 13 13 right left left leg extension left perturbed 50 50 50 frequency (Hz) 13 13 13 13 7 left right left right b. SMA ERSP, catch strides power (dB) extension-onset mid-extension left SMA right SMA **left SMA** right SMA 50 50 50 right catch frequency (Hz) 13 13 13 13 7 7 7 3 right right left right left left left right leg extension 50 50 50 frequency (Hz) left catch 13 13 13 13 7 7 7 left right left right left left