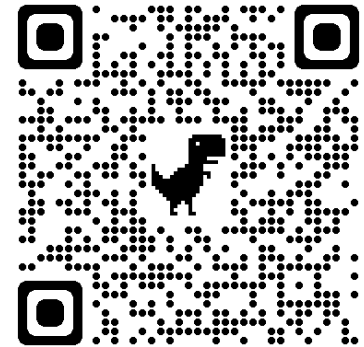


Bioelectronic Medicine Forum, April 5, 2024

Marom Bikson, The City College of New York

As far the the brain knows, the only distinguishing features of neuromodulation devices are:

- 1) Electrode (coil) placement
- 2) Energy (waveform) applied to to electrode (coil)



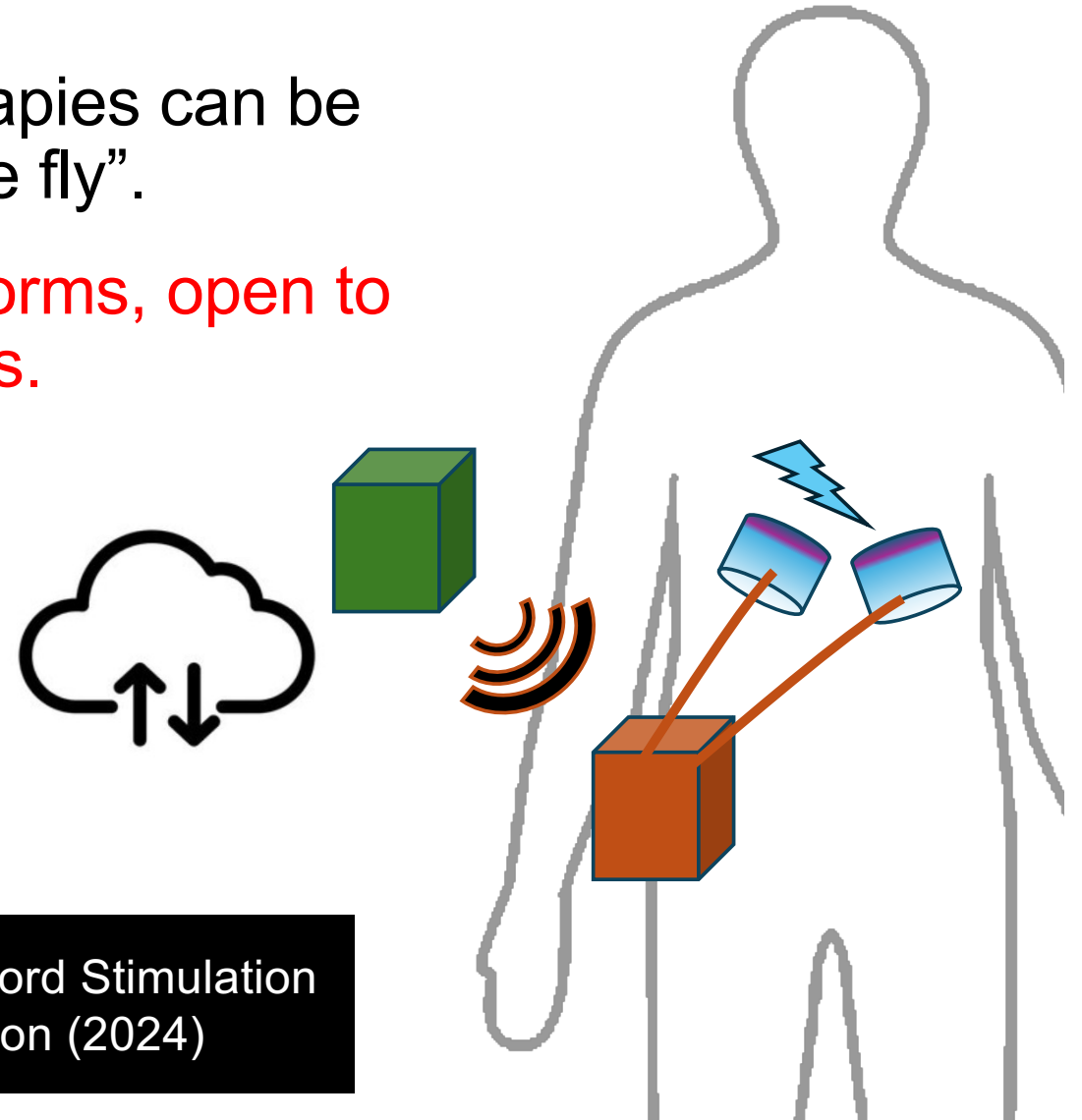
For the patient doctor, payer: how devices (therapy) is distributed is critical.

- 1) Neuromodulation as software
- 2) Wearable Disposable Electrotherapy

Distribution: Neuromodulation as software

Unlike drugs, neuromodulation therapies can be safely and remotely changed "on the fly".

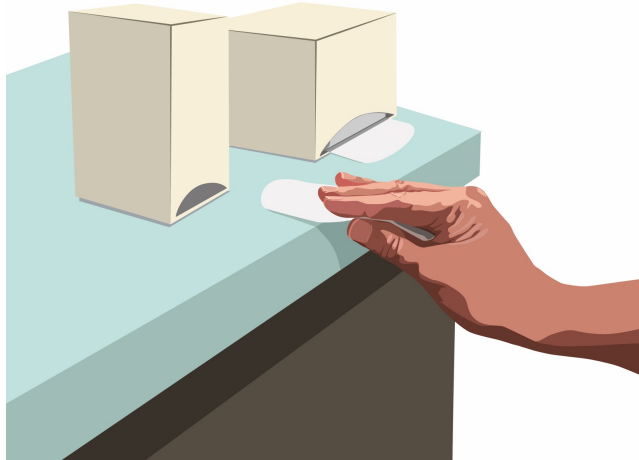
Neuromodulation hardware as platforms, open to software from independent providers.



Wahezi, Hunter, et al. "Current Waveforms in Spinal Cord Stimulation and Their Impact on the Future of Neuromodulation (2024)"

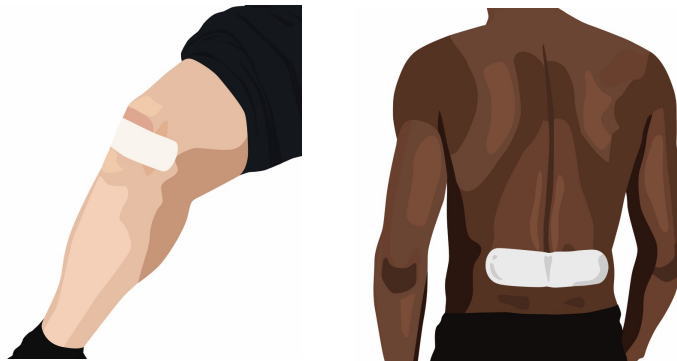
Distribution: Wearable Disposable Electrotherapy

Neuromodulation without electronics.



Dose-specific and single-use.

Distribution model similar to pharmaceuticals.



Environmentally-benign and abundant materials.

Dematerialization of design, no electronics.

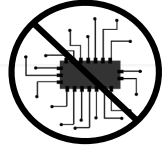


Easy user experience and no controls.

Platform for each electrotherapy applications (brain, TENS, wound healing, drug delivery).

Distribution: Wearable Disposable Electrotherapy

No electronics.



Dose-specific and single-use

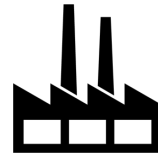
+Rx

Distribution model similar to pharmaceuticals

Platform for different electrotherapy applications

Easy user experience and no controls

Scalable manufacturing methods



Environmentally-benign and abundant materials

Dematerialization of design, no electronics

