Docket #: S19-238

Neurostimulator to improve male orgasm

Stanford scientists have developed a wearable neurostimulator device that targets the dorsal genital nerve on the penis to improve and/or expedite male orgasm.

Five to ten percent of all men experience delayed orgasm (DO), severely affecting the mental and sexual health of millions of individuals a year. Individuals suffering from DO generally experience persistent or recurrent difficulty, delay in, or absence of attaining orgasm after sufficient sexual stimulation causing personal distress, decreased sexual pleasure, and male infertility. Current treatments include cognitive therapy, physical therapy, and medication, but for most patients, these are not effective.

Targeting the nerves in the penis that contribute to male orgasm is a promising approach, but implantable devices and surgery are undesirable. Here, the inventors have devised an external wearable device containing a reusable component with a neurostimulator, rechargeable battery, and a communication unit (e.g. remote or cell phone). This would connect to a disposable band that goes around the penis, allowing direct skin contact and targeting of the dorsal penile nerve. Trials are ongoing at Stanford to test this technique as a treatment for DO.

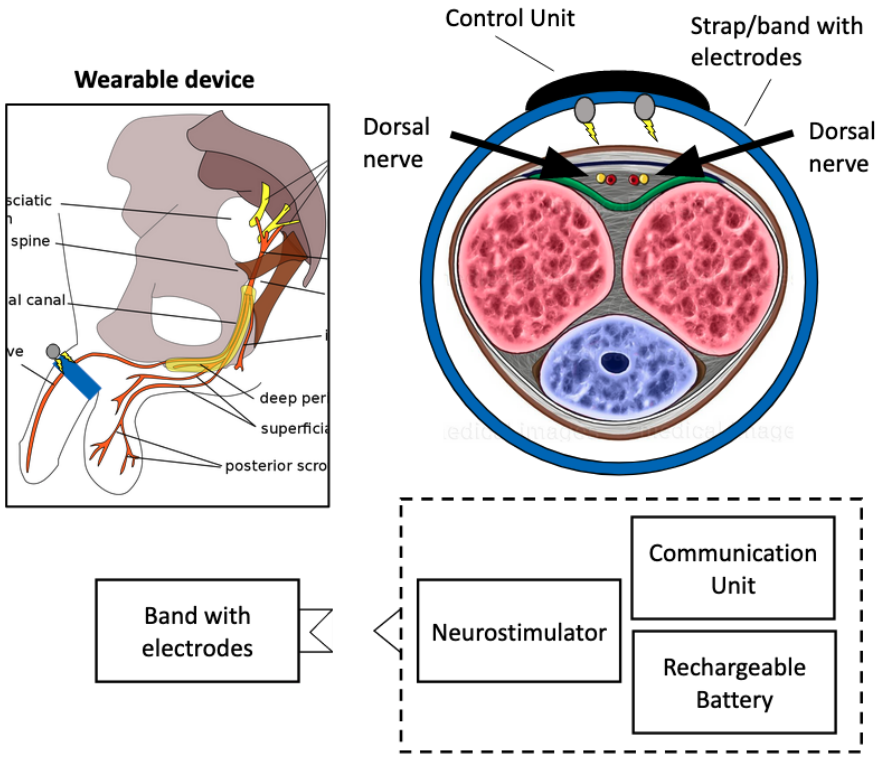


Figure (courtesy of inventors): Dorsal genital nerve stimulator device

Stage of Development

Early stages of testing in clinical trial at Stanford

Applications

- Transcutaneous electrical nerve stimulation (TENS) to improve orgasm in men with delayed orgasm (also called delayed ejaculation, anorgasmia, or retarded ejaculation)

Advantages

- **Novel**: No effective treatment exists for this condition
- **Targeted**: Direct skin contact delivers neurostimulation to the key anatomical structure (dorsal genital nerve) for treatment
- **Non-invasive**: No surgery necessary
- **Convenient**: Design includes disposable stimulation band, rechargeable battery, and ability to connect to a remote or mobile device for control

Patents

- Published Application: WO2021067486
- Published Application: 20220218979

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