How does Urgent® PC work?
The Urgent PC Neuromodulation System is indicated for the treatment of Overactive Bladder and associated symptoms of urinary urgency, urinary frequency and urge incontinence. Urgent PC provides indirect stimulation to the sacral nerve plexus via the tibial nerve, a mixed sensory-motor nerve that runs from spinal roots L4 to S3 to innervate the bladder and urethral sphincter. One obvious benefit of Urgent PC therapy is that the tibial nerve is easily accessible in the lower leg, ensuring a low risk procedure.

Tibial Nerve Pathway to Sacral Plexus

Key:
- Green = Posterior divisions
- Orange = Anterior divisions

» Stimulation travels from the point of entry near the ankle, up the tibial nerve and to the Sacral Plexus
» Innervates bladder and urethral sphincter
» Easily accessible nerve
» Low risk, non-surgical treatment
Sacral Plexus
The Sacral Plexus provides nerves for the pelvis and lower limbs.

Mechanism of Action
It is believed that PTNS:

» Involves specific receptors in the spinal cord which contribute to the effectiveness of neuromodulation\(^1\)

» Induces neural plasticity in the CNS\(^1,2\)

» Influences signals from and towards the bladder via the sacral plexus by retrograde afferent stimulation\(^1\)

» Activates somatosensory afferent fibers\(^1\)

Innervation of the Bladder
The bladder is innervated by a combination of sympathetic and parasympathetic nerves. The pudendal nerve provides external sphincter control.