

Neuro Touch™: A portable screening device for neuropathy in diabetic patients

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Neuro Touch™ developed by innovator Yostra Labs Pvt. Ltd., Bengaluru

Neuro Touch™ by Yostra Labs is a portable point of care screening device for peripheral neuropathy, a condition that results when nerves carrying message to and from the brain and spinal cord to the muscles, skin, and internal organs, are damaged.

Neuro Touch helps the physician to perform four basic neuropathy screening tests including Monofilament test, Vibration perception test, Hot and cold perception test, and Skin temperature measurement.

Neuro Touch is an artificial intelligence powered device that enables users to efficiently store, manage, combine, and analyse the data.

Device also helps in transfer of test results online via secure cloud servers.

Furthermore, battery operated Neuro Touch™ device can be charged with a standard micro-USB charger with the operational duration to screen more than 30 patients on a single charge. Moreover, the hand-held screening device can be used anywhere and everywhere. It makes the device fit to be used in OPD's, home care, and rural outreach programs.

Diabetic peripheral neuropathy (DPN) affects about 30% of diabetic population and can have serious implications. DPN is the most common cause of foot ulceration and limb cutting due to trauma. It provides an innovative technique to screen the symptoms of DPN so that it can be prevented.

So far Yostra Labs has been sold about 40 units at cost of INR 2 lakhs. The Neuro Touch™ device has been awarded with NASSCOM Design4India Award 2018, Medical Innovation

Award 2017, and Karnataka IT Biz Top 25 Innovators Award 2016. The technology has won Healiate 2016 and CAM Tech Diabetes Innovation Hack-a-thon.