



SAGERTECH
COMMUNICATIONS

What is TNT?

- ✓ TNT is a **NEW non-invasive** Pain-free, highly effective therapy for Fecal Incontinence
- ✓ Pioneered in Dr. Rao's lab, and backed by over 10 years of research.

What does TAMS measure?

- ✓ TAMS measures the peripheral nerve conduction of the lumbar and sacral plexus nerves that supply the Anorectum.
- ✓ It uses non-invasive magnetic stimulation to evoke 8 motor evoked potentials(MEP):
 - Right lumbo-rectal
 - Right lumbo-anal
 - Left lumbo-rectal
 - Left lumbo-anal
 - Right sacro-rectal
 - Right sacro-anal
 - Left sacro-rectal
 - Left sacro-anal

TNT EQUIPMENT

TNT requires 3 components:

- ✓ Magnetic Stimulation Device and a special coil for nerve stimulation.
- ✓ Specially designed anorectal probe with 4 ring electrodes for detecting the MEP from the rectum and anal regions.
- ✓ Neuro-Physiological multi-channel recorder for recording the MEP.
- ✓ Sagertech Communications has exclusive agreements to provide these equipment at an affordable price, globally.



A REVOLUTIONARY NEW Therapy FOR **FECAL INCONTINENCE**

Trans-lumbosacral Anorectal Neuromodulation Therapy (TNT) System

TAMS/TNT is a revolutionary NEW system for first using (TAMS) for diagnosis of anal or rectal neuropathy in patients with fecal incontinence, urinary incontinence, and then using TNT process for Fecal Incontinence Therapy

TAMS also measures effectiveness of Incontinence Therapies.

TAMS/TNT procedure is reimbursed by most major insurances, including Medicare.

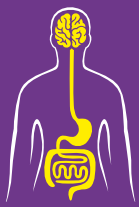
Magnetic Stimulation Device and Coil



Anorectal Probe



Neuro-Physiological Recorder



SAGERTECH
COMMUNICATIONS

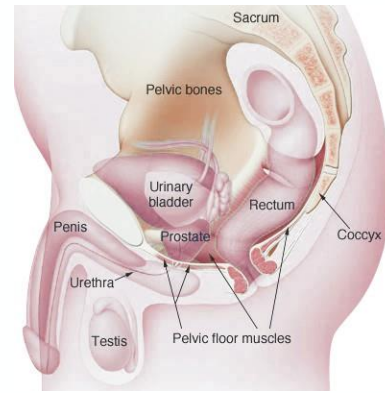
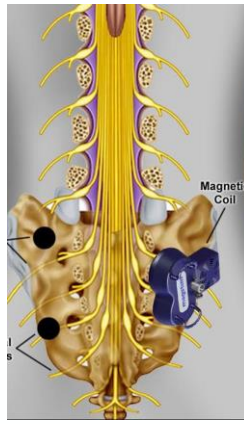
CPT CODES:

95908 & 97032

Why do TAMS/TNT?

- ✓ Fecal and Urinary Incontinence affects 20% of the population.
- ✓ Causes include obstetric, pelvic floor and spinal cord injury.
- ✓ Anorectal neuropathy is a key underlying mechanism for fecal incontinence.
- ✓ TAMS/TNT is a safe, effective non-invasive therapy for FI
- ✓ TAMS test provides an objective assessment of anal, rectal and pelvic floor neuropathy.

- 1** Rao Satish, Coss-Adame Enrique, Tantiphlachiva Kasaya, Attaluri Ashok, Remes-Troche Jose. Translumbar and transsacral magnetic neuro-stimulation for the assessment of neuropathy in fecal incontinence. Dis Colon Rectum 2014;57:645-52. NIHMSID #541760.
- 2** Rao S.S.C., Yan Y., Xiang X., Sharma A., Ayyala D., Hamdy S. 2021. Effects of Translumbosacral Neuromodulation Therapy on Gut and Brain Interactions and Anorectal Neuropathy in Fecal Incontinence: A Randomized Study. Neuromodulation 2021; DOI:10.1111/ner.13485.
- 3** Patcharatrakul T, Amieva-Balmori M, Sharma A, Dewitt A, Rao SSC. Anorectal neuropathy and anal sphincter defects: independent or associated risk factors in fecal incontinence. (Poster Presentation. DDW 2016.) Gastroenterology 2016; 150: S-941.
- 4** Xiang X, Patcharatrakul T, Azih I, Sharma A, Hamdy S, Rao SSC. Cortico-anorectal, spino-anorectal and corticospino nerve conduction and locus of neuronal injury in fecal incontinence patients. Clinical Gastroenterology Hepatology 2018 (In Press).



TAMS/TNT System- A REVOLUTIONARY **NEW** Therapy FOR ANORECTAL NEUROPATHY

TAMS/TNT is Backed By Over 10 YEARS OF RESEARCH

- ✓ TAMS has been rigorously tested in several controlled trials. It has been shown to be superior for detecting anorectal neuropathy in patients with fecal incontinence and in spinal cord injury. ⁽¹⁾
- ✓ TAMS test was an independent predictor of physiological dysfunction in fecal incontinence. ⁽³⁾
- ✓ Recent study confirmed that TAMS detects neuropathy in over 85% of patients with FI. ⁽⁴⁾
- ✓ TAMS is being used to evaluate fecal incontinence in a NIH-FIT trial at 4 universities in USA.

Recent studies confirmed TNT significantly improves afferent ano-cortical signaling, efferent lumbo-anal and sacro-anal neuropathy and anorectal sensorimotor function ⁽²⁾



SAGERTECH
COMMUNICATIONS

Naperville, IL 60565
Phone 630-708-0710
www.sagertech.com