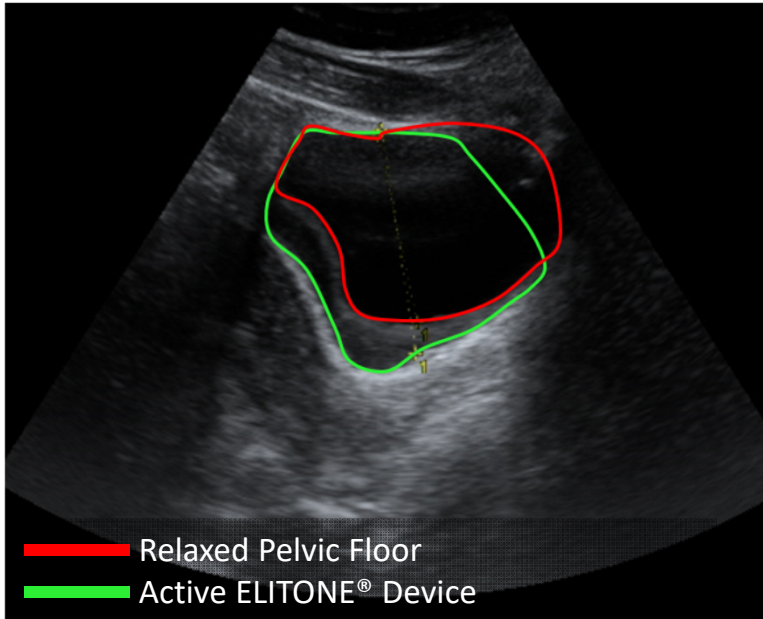


Ultrasound Visualization of Pelvic Floor Movement with use of ELITONE® Perineal Applied Electrical Stimulation Device



Objective: To characterize pelvic floor movement with perineal applied electrical muscle stimulation and to compare it to Kegel contractions.

Method: Eight female subjects underwent transabdominal ultrasound visualization of the pelvic floor after a bladder filling procedure. Images were taken at rest and with pelvic floor muscle contraction from the ELITONE® device and during a Kegel contraction. Images were analyzed using ImageJ software.

Outcome: The inferior-posterior wall of the bladder was used to visualize pelvic floor movement. In all subjects the pelvic floor moved in the same direction with both the ELITONE® device and a Kegel contraction. In 6/8 subjects this motion was in a substantially superior direction, and in 2/8 the motion was in a substantially posterior direction. The local magnitudes of movement measured up to several centimeters. All subjects self applied the ELITONE® electrode and all operated the device at a comfortable output level, approximately 50% of the maximum device output.

Movement of Pelvic Floor (Bladder Base)

