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Therapeutic effect and mechanism of electrical stimulation in female stress urinary incontinence

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Running head: Therapeutic effect of ES in FSUI

Key words: Stress urinary incontinence, Electrical Stimulation, collagen, TGF β 1, T type calcium channel

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Abstract

Objective: To investigate the therapeutic effect and underlying molecular mechanism of electrical stimulation (ES) in a murine SUI model.

Materials and Methods: Sixty female C57BL/6 mice were divided into four groups: CON group, no intervention; VD group, vaginal distension (VD) with an 8-mm dilator for 1 h; VD+ES 20 group, 20 Hz ES for 0.5 h for 7 days after VD; VD+ES 50 group, 50 Hz ES for 7 days after VD. For functional studies, assessments of urodynamics and sneezing test were performed; then, anterior vaginal wall specimens

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