HIFEM® PROCEDURE AND PELVIC FLOOR EXERCISE FOR URINARY INCONTINENCE

RANDOMIZED MULTI-CENTER TRIAL OF HIFEM PELVIC FLOOR STIMULATION DEVICE COMPARED WITH PELVIC FLOOR EXERCISES FOR TREATMENT OF URINARY INCONTINENCE: EVALUATION OF INITIAL SINGLE-CENTER DATA

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HIGHLIGHTS

- Initial short-term data demonstrated that patients might benefit either from HIFEM or pelvic floor muscle training (PFMT) procedures for urinary incontinence (UI).
- Preliminary evaluation suggests higher level of improvement after HIFEM procedure.
- HIFEM procedure resulted in considerable reduction of incontinence pads usage.
- Subjects reported **positive changes** in their **quality of life** resulting from reduction of UI symptoms and regained control over the PFM muscles.
- HIFEM procedure was found to be more comfortable.

DESIGN AND METHODOLOGY

- Fifteen subjects with various UI symptoms were recruited and randomly divided into the HIFEM (N=8, 57.4±5.9 years) and PFMT (N=7, 51.9±12.7 years) groups.
- All subjects **completed six** HIFEM **treatments** or PFMT **sessions** performed **twice a week** for **three weeks**.
- The same evaluation methodology was used in both groups in regards to comparison of achieved results.
- **Subject's evaluation** included **various methods**: UDI-6, ICIQ-LUTSqol, 3-day ICIQ-BD, Pad Usage, maximal voluntary contraction measurement using biofeedback and digital palpation, therapy comfort and subject satisfaction questionnaire.
- Safety of the HIFEM procedure and pelvic floor exercise was documented.

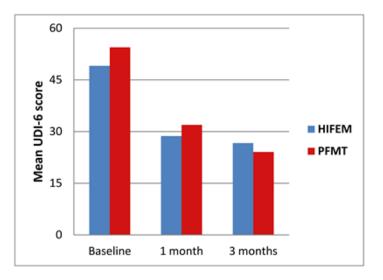
Table: Number of participants at the baseline, after 6th treatment (Tx) and follow-up visits.

| Group | Baseline (N) | After 6th (N) | 1-month FU (N) | 3-month FU (N) |
|-------|--------------|---------------|----------------|----------------|
| HIFEM | 8 | 6 | 6 | 5 |
| PFMT | 7 | 8 | 4 | 3 |

RESULTS

- Assessment of pelvic floor contractions revealed **muscle strength enhancement** in both groups which led to **improvement of** subjects' **continence**.
- The HIFEM procedure **tended to have a higher impact** on subjects by the means of **objective** and **subjective** examination.
- The 3-day bladder diary in HIFEM group revealed considerable decrease of pad usage by -1.2 pads/24 hours, reported at 3 months.
- At 3-month follow-up, the average **bladder sensation decreased by 38.9%** (-0.82 points on 0-4 scale) **after HIFEM procedure** while PFMT group score returned to its baseline values.
- UDI-6 and ICIQ-LUTSqol questionnaires in both groups indicated clinically significant improvement of subject's quality of life after the treatment and at both completed followups.
- Subjects found the **HIFEM procedure to be more comfortable** then exercise.
- Both treatment modalities showed to be safe, as no adverse events were observed.





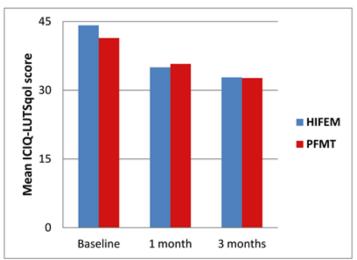


Figure: ICIQ-LUTSqol and UDI-6 scores were continuously decreasing in both groups and exceeded minimally clinically important difference of 4 points or 11 points respectively.