197

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HIGH SHORT-TERM EFFECTIVENESS OF MODULATED DRY BED TRAINING IN ADOLESCENTS AND YOUNG ADULTS WITH TREATMENT-RESISTANT ENURESIS

Hypothesis / aims of study

Two percent of adolescents and adults suffers from enuresis. In this age group, social problems can arise. We evaluated the effect of a Modulated Dry Bed Training (MDBT) in a previously therapy-resistant group of adolescents and adults with enuresis, provided by a specialized enuresis-centre.

Study design, materials and methods

Descriptive, retrospective cohort study. Between January 2003 and July 2013, 907 patients were treated by MDBT: a 5-days/4nights in-hospital training in small groups consisting of enuresis-anamnesis, explanation, alarm treatment, day-time activities with the purpose of increasing self-esteem and group contact. We contacted patients by phone during follow-up. Patient data were retrospectively derived from medical files and put in a database. Success of treatment was determined using International Children's Continence Society (ICCS)-definitions, at 6 weeks, 3 and 6 months. Secondary outcome was the medication use after treatment. Sensitivity analyses were performed to control for missing values, and expressed in a best case and a worst case scenario.

Results

Patients were aged 11–42 years (median 15, IQR 3.5), 34% female. At baseline, 65% had primary enuresis, 81% nonmonosymptomatic enuresis, and 46% frequent enuresis (≥4 days/week). After 6 weeks, 46% (CI95% 43-50) and 41% of patients had a full or partial response, respectively. After 6 months this was 68% (CI95% 65-72) and 25%. Results from the sensitivity analysis are shown in the table.

Interpretation of results

The treatment response at six months can be considered to be quite high, as this is a formerly therapy-resistant group of enuresis patients. However, the sensitivity analysis shows that, owing to the large amount of missing values, the real number of patients having a full response after six months will lie between 43% and 80%.

Concluding message

MDBT was shown to have an adequate short term effect in therapy resistant adolescents and adults with enuresis.

		Response after 6 weeks, % (n)			Response after 3 months, % (n)			Response after 6 months, % (n)		
Response (ICCS)	category	No	Partial	Full	No	Partial	Full	No	Partial	Full
Worst case scenario*		42 (381)	27 (249)	31 (277)	42 (384)	21 (194)	36 (329)	42 (378)	16 (141)	43 (388)
Available data		13 (76)	41 (249)	46 (277)	11 (67)	33 (194)	56 (329)	7 (39)	25 (141)	68 (388)
Best case scenario*		8 (76)	27 (249)	64 (582)	7 (67)	21 (194)	71 (646)	4 (39)	16 (141)	80 (727)

Table. Treatment results after 6 weeks, 3 and 6 months, including sensitivity analysis

* Assumption worst-case/best-case scenario: patients with missing values had no response/full response.

Disclosures

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