Minimally Invasive Treatment of Female Stress Urinary Incontinence with Polyacrylamide Hydrogel (Bulkamid[®]): **Outcomes of a Contemporary Turkish Cohort** Including Cases with Mixed Urinary Incontinence and Previously Failed SUI Surgery

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Introduction			
•	Urethral bulking agents regained		
	popularity in the treatment of female		
	stress urinary incontinence (SUI) owing to		
	their minimally invasive nature and		
	favorable safety profile in the era of		
	mesh-related concerns.		

Results

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- At a median follow-up of 17 (1-38) months,
 - Overall treatment success rate was 85.7%.
 - Patient satisfaction rate was 90%
- We detected higher objective and subjective cure rates in stress-predominant MUI. This might be a reflection of small sample size (13 pure SUI vs 8 MUI).
- Eight patients had ALPPs below 60 cmH20 on preoperative invasive UDS. Regardless of being in the primary or secondary setting or having pure SUI or stress-predominant MUI, treatment success was 100% in these women with







The aim of this study is to describe the treatment outcomes and patient satisfaction rates of Polyacrylamide hydrogel (PAHG) (Bulkamid®) injection for the treatment of female SUI in our cohort

Methods

- Data of 21 female patients who underwent transurethral PAHG injection in the primary or secondary setting between December 2019 and March 2023 due to SUI or stress-predominant mixed urinary incontinence (MUI) were retrospectively evaluated.
- All patients had invasive urodynamic studies prior to ulletoperation. All had urodynamic stress urinary incontinence.

Figure 1. Proprietary system, bladder neck before and after hydrogel injection. Figure 1A. Proprietary system Figure 1B. Pre-injection Figure 1C. Post-injection

	Treatment Success* (n, %)	Patient Satisfaction** (n, %
Total	18/21, 85.7	18/20, 90
Urethral mobility		
Hypermobile	7/8, 87.5	7/7, 100%
Decreased mobility	2/3, 66	2/3, 66%
Immobile	9/10, 90	9/10, 90
ALPP <60 cmH20	8/8, 100	8/8, 100%
Immobile urethra + ALPP <60 cmH20	5/5, 100	5/5, 100
Primary	15/17, 88.2	15/16, 93.6
Secondary	3/4, 75	3/4, 75
Pure SUI	12/15, 80	12/14, 85.7
Stress-predominant MUI	6/6, 100	6/6, 100
Primary	15/17, 88.2	15/16, 93.6
Pure SUI	11/13, 84.6	11/12, 91.6
Urethral Mobility	,	,
Hypermobile	6/7, 85.7	6/6, 100
Decreased mobility	1/2, 50	1/2, 50
Immobile	4/4, 100	4/4, 100
ALPP <60 cmH20	5/5, 100%	5/5, 100%
Stress-predominant MUI	4/4, 100	4/4, 100
-	-	
Urethral Mobility		
Hypermobile	1/1, 100	1/1, 100
Decreased mobility	-	-
Immobile	3/3, 100	3/3, 100
ALPP<60 cmH20	1/1, 100	1/1, 100
Secondary	3/4, 75	3/4, 75
Pure SUI	1/2, 50	1/2, 50
Urethral mobility		
Hypermobile	-	-
Decreased mobility	1/1, 100	1/1, 100
Immobile	0/1, 0	0/1, 0
ALPP <60 cmH ₂ 0	1/1, 100	1/1, 100
Stress-predominant MUI	2/2, 100	2/2, 100
Urethral mobility		
Hypermobile	-	-
Decreased mobility	-	-
Immobile	2/2, 100	2/2, 100
ALPP <60 cmH20	1/1, 100	1/1, 100

In all patients, a total of 2 cc PAHG was injected at 4 different sites on bladder neck-urethral junction.

The primary outcome -treatment success-

No pad use, negative ICS uniform CST and declaration of no SUI on ICIQ-SF question 6.

The secondary outcome -patient satisfaction-

Patient-reported definition of post-injection continence status on a phone interview

Conclusions

In a contemporary female Turkish cohort with a short-term

follow-up, PAHG injection proved to be a safe and effective

minimally invasive treatment option for pure stress and

stress-predominant mixed UI in both primary and

secondary settings