Prepubic Sinus: 2 Case-Reports of a Rare Variant of Urethral Duplication

Authors: Mário Rui Correia[1], João Vital[2], Ana Isabel Barros[1], Jorge Cagigal[1], Joana Sinde[1], Catarina Sousa-Lopes[1], Maria Luísa Gaspar[1], Fátima Carvalho[1], André Pinto[3]

[1]Department of Pediatric Surgery, Unidade Local de Saúde de Santo António, Porto, Portugal; [2]Department of Urology, Hospital Dr. Nélio Mendonça, Funchal, Portugal; [3]Department of Urology, Unidade Local de Saúde de Santo António, Porto, Portugal

INTRODUCTION

- Prepubic sinus (PPS):
  - Rare congenital anomaly characterized by a midline tract, typically located dorsally to the urethra and opening near the base of the penis.
  - **Fewer than 50 cases** have been reported in the literature, and its etiology remains debated. Some authors consider PPS a variant of urethral duplication, supported by histological findings of transitional epithelium in many cases.

CASE REPORT 1

AGE 4 years-old boy

Asymptomatic small midline opening at the base of the penis

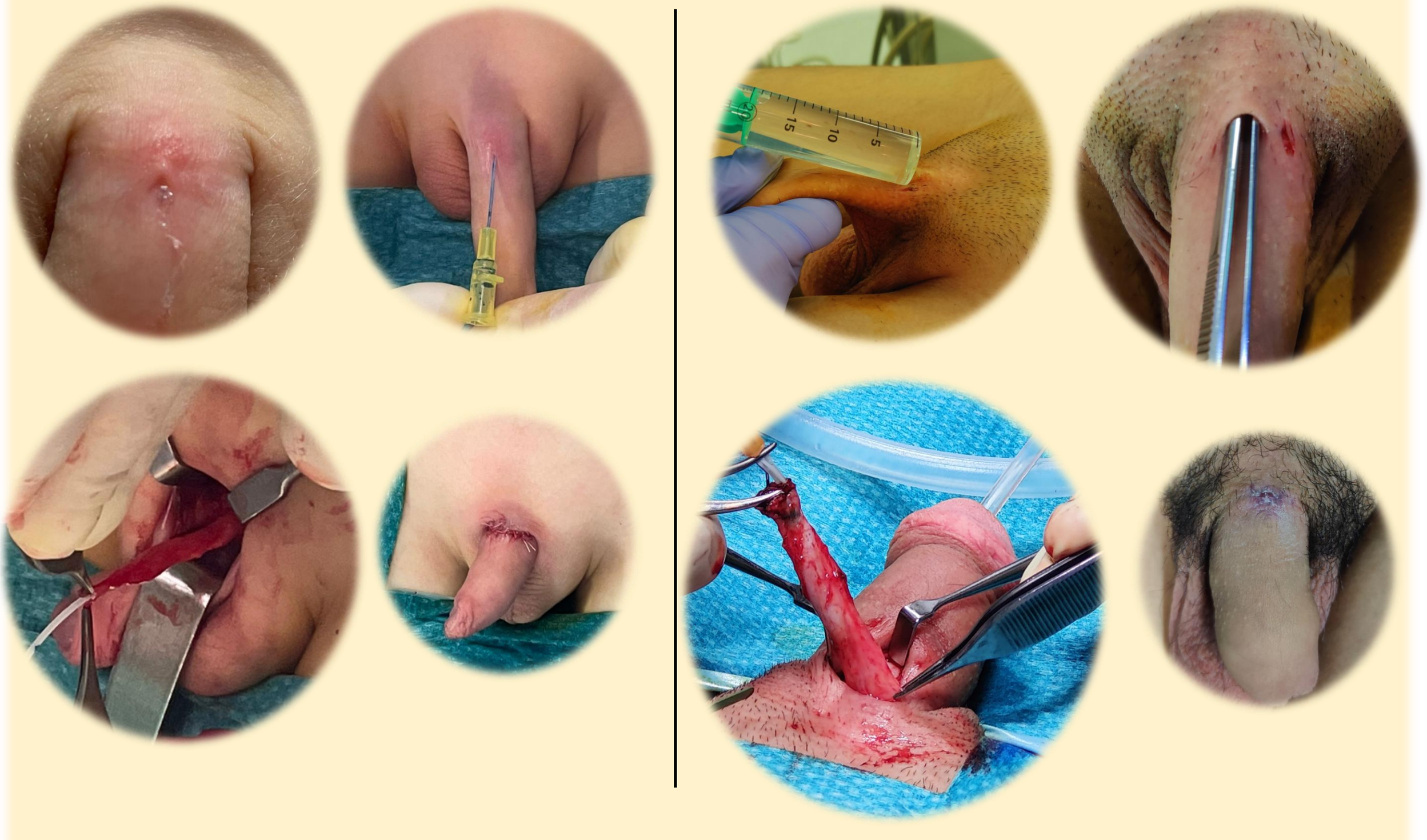
CASE REPORT 2

AGE 15 years-old adolescent

Persistent low-volume discharge

MRI confirmed a midline blind-ending tract with no communication

Surgery consisted of complete excision of the, after fistulography with methylene blue. Intraoperative findings confirmed a blind-ending sinus.



Both patients recovered uneventfully and were discharged on the first postoperative day. No recurrence or complications were observed.

CONCLUSION

PPS should be considered in the differential diagnosis of persistent midline penile base or suprapubic discharge.

Despite its benign course, proper identification and complete surgical excision are essential to ensure definitive treatment.

BIBLIOGRAPHY

CONTACT INFO