

# Case of Fournier's Gangrene with *Streptococcus Anginosus* in the Setting of Hidradenitis Suppurativa Perineal Abscess

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## INTRODUCTION

- Fournier's gangrene is a form of necrotizing soft tissue infection involving the perineal, genital, or perianal region
- First identified in 1883 by Jean-Alfred Fournier
- Risk factors include male gender, chronic alcohol use, diabetes, hypertension, smoking, and inflammatory bowel disease
- Here we present a case of perineal abscess that developed into Fournier's gangrene with causative pathogen *Streptococcus anginosus*



SCAN ME

## CASE PRESENTATION

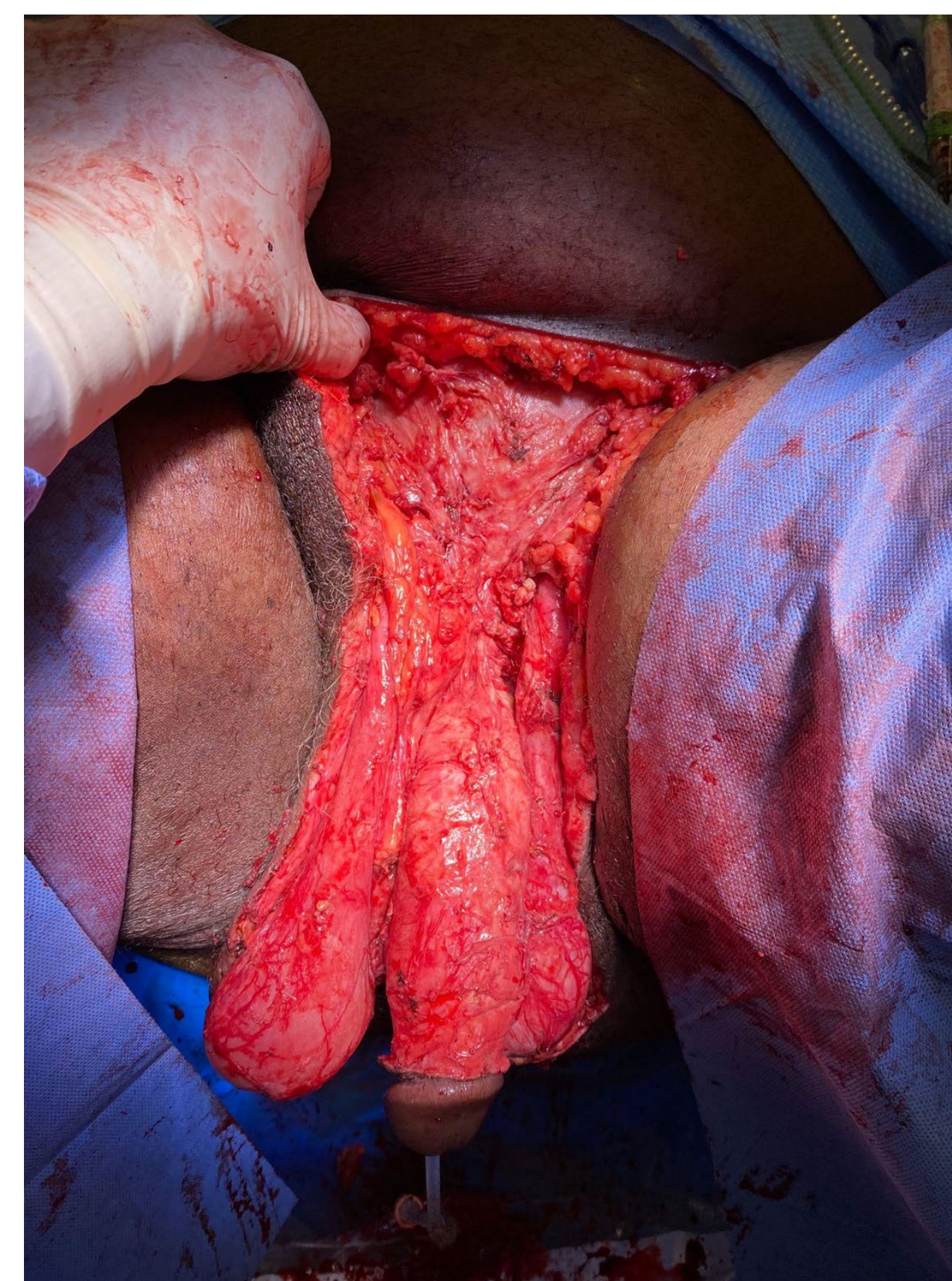
- 58-year-old male with uncontrolled type 2 diabetes, hypertension, history of hidradenitis suppurativa and 30-pack-year smoking history who woke up that morning with worsening testicular pain
- Physical Exam findings: scrotal and perineal edema and scrotal tenderness
- Vitals: T 100.4F, BP 165/73, HR 117, RR 21
- Labs: WBC 31.5 x 10<sup>9</sup>/L, Glucose 400 mg/dL

## HOSPITAL COURSE

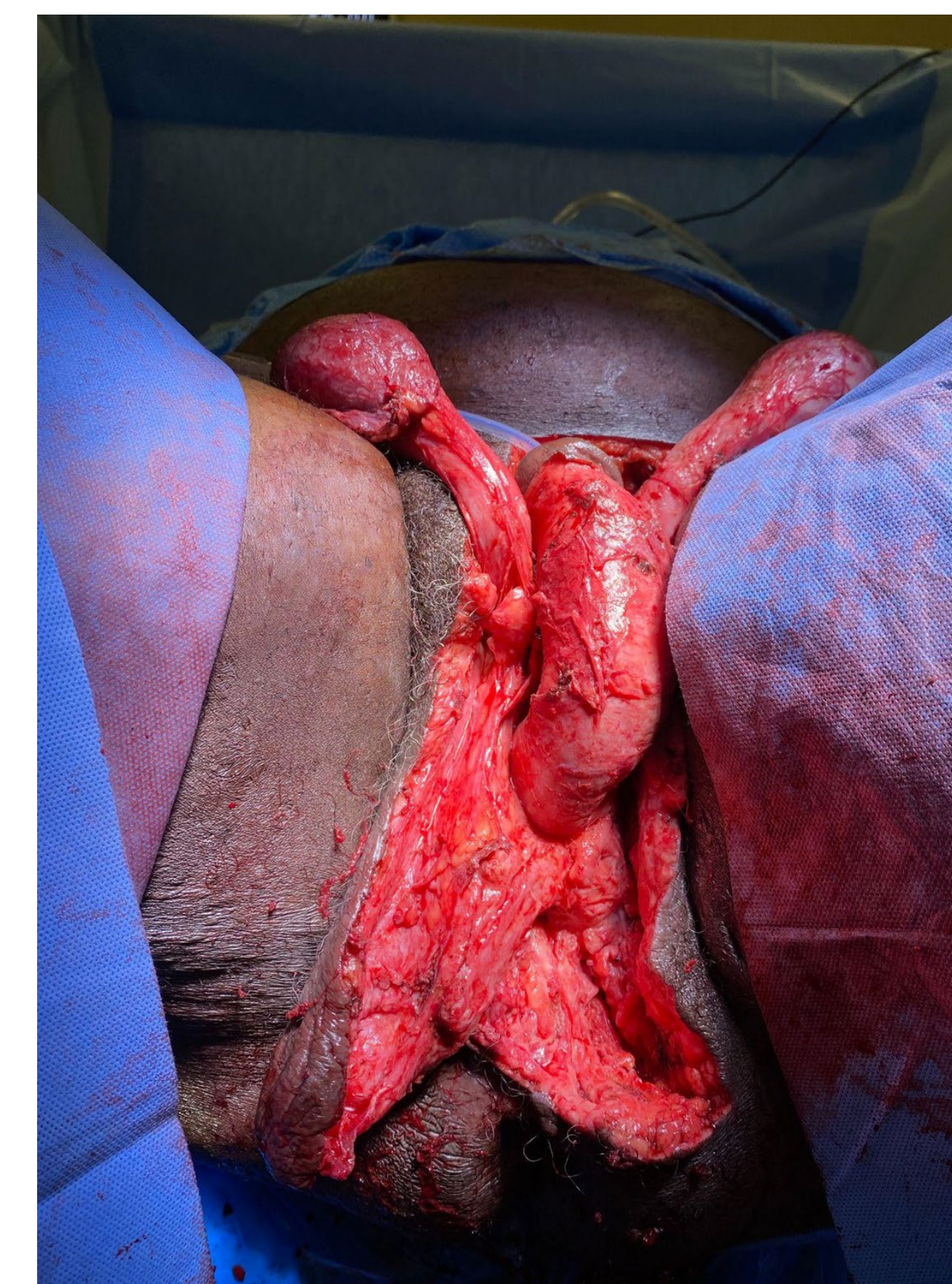
- Ultrasound of scrotum revealed normal appearing testes with a right epididymal head cyst
- Urology performed initial incision and drainage (I&D) of perineal abscess. Culture from I&D grew *Streptococcus anginosus*. Infectious disease initiated Vancomycin, Ceftriaxone, Metronidazole, and Clindamycin
- Pelvic CT revealed moderate subcutaneous fat stranding and emphysematous changes extending along the left groin and anterior pelvic soft tissues
- Urology and General surgery found foul-smelling "dishwater" fluid and necrotizing soft tissue infection of left groin, scrotum and base of the penis during second debridement, consistent with Fournier's gangrene
- After third debridement, transitioned to oral antibiotics Amoxicillin-Clavulanate and transferred to tertiary care facility for reconstruction surgery



**Figure 1**



**Figure 2**

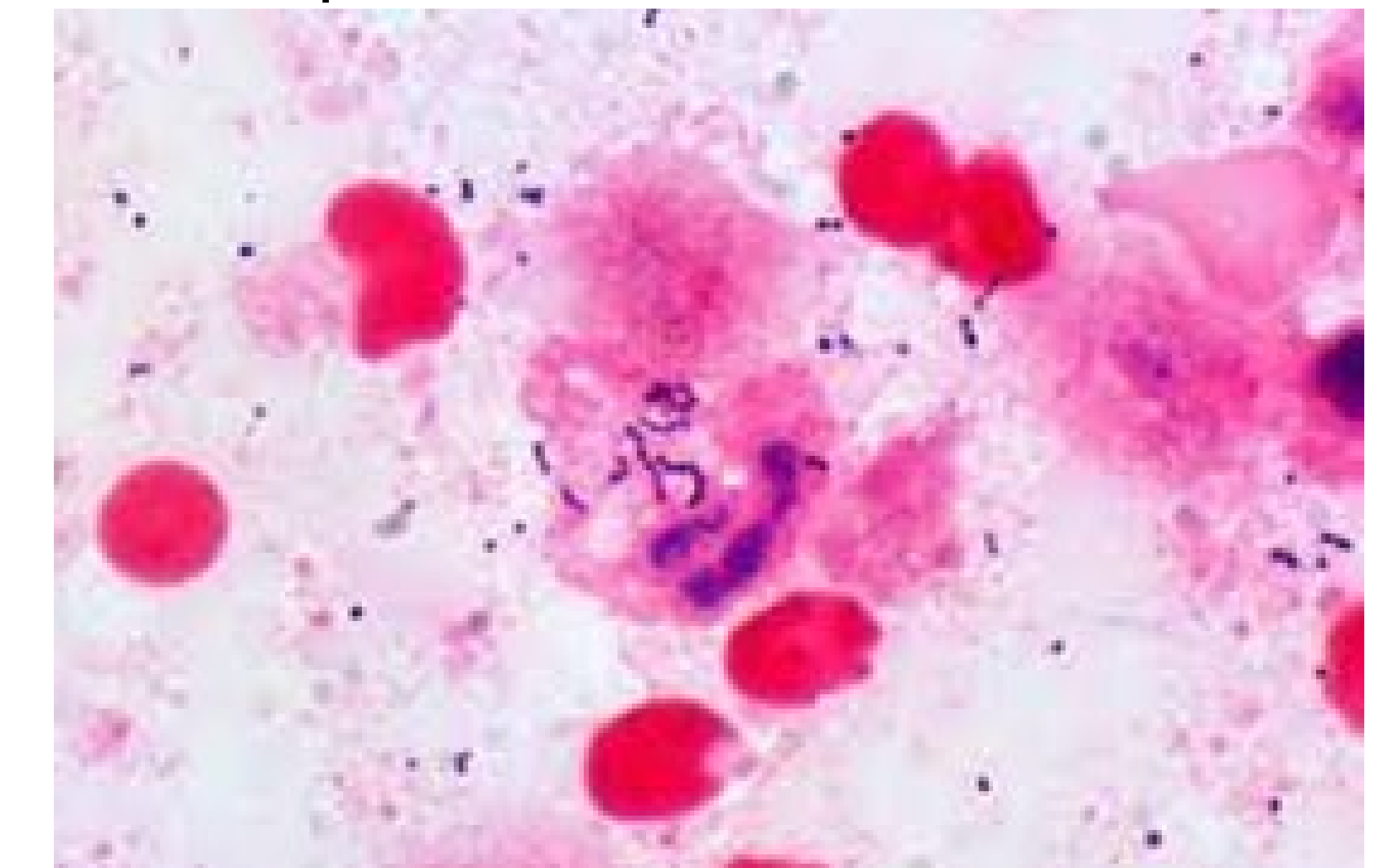


**Figure 3**

**Figure 1:** Pre-op image of third debridement. Minimal necrotizing soft tissue  
**Figure 2:** Post-op image of third debridement. Ample debridement of perineum  
**Figure 3:** Post-op image of third debridement. Ample debridement of perineum with reflected penis and testes

## DISCUSSION

- Perineal abscesses that grow *Streptococcus anginosus* should raise a high index of suspicion for worse outcomes
- Early aggressive surgical debridement is imperative to the successful treatment of Fournier's gangrene
- Despite improvement in recognition, mortality rates remain high
- Recommend a multidisciplinary approach and rapid diagnosis with early aggressive surgical debridement and broad-spectrum antibiotics



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