Nekrozan fasciitis v obliki Fournierjeve gangrene pri 70 let starem pacientu
Necrotizing fasciitis in the form of Fournier gangrene in a 70 year old patient

Abstract

Purpose: In this case report, we describe a patient with Fournier gangrene, as well as his treatment course and management.

Case report: A 70-year-old male was hospitalized for Fournier gangrene in the perianal region. We performed radical necrectomy, drainage of perianal abscess, and transversostomy. Based on wound culture results, Amoksiklav and Ciprobay were administered. The complication of decompensated adhesive ileus occurred, which required reoperative intervention.

Conclusion: Fournier gangrene is a rare disease that usually affects males. The disease begins with swelling, cellulitis, fever, and odor. We successfully treated this disease with emergency surgery and reoperative intervention.

Namen: Namen tega članka je opisati primer obolelega pacienta s Fournierjevo gangreno in prikazati proces njegovega zdravljenja in razreševanja zapletov, ki so pri tem nastali.


Izvleček

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INTRODUCTION

Fournier gangrene was first described in 1764 by Baurienna. It was named after Fournier, who reported five cases of this disease in 1883. Fournier gangrene is a necrotizing fasciitis that affects the subcutaneous tissue of the perineum and genitals. The disease is usually caused by an aerobic or anaerobic infection of the colon, the rectum, the lower part of the genitourinary tract, or cutaneous infection of genitalia, perineum and the anus. Microorganisms that are usually isolated include Escherichia coli, Enterococci, Staphylococci, Streptococci, Bacterioides fragilis, and Pseudomonas aeruginosa. Superficial skin damage, genitourinary or colorectal diseases can create points of entry leading to genitourinary sepsis, sepsis of the prostate, perianal sepsis, and ischiorectal abscess. Immune system dysfunction also plays an important role in disease development, with the most common etiologies being diabetes, obesity, alcoholism, malignancy, and immunosuppression. Signs of the disease include swelling, cellulitis, necrosis, crepitation, fever, and odor. The disease is treated surgically with radical necrectomy and administration of broad spectrum antibiotics. The mortality rate nears 50%.

CASE REPORT

A 70-year-old male was admitted to our hospital with bilateral gluteal inflammation. His medical history included long standing hemorrhoids (more than 30 years). In the previous three years, he complained of liquid stool mixed with mucus. His symptoms started one week prior to admission and included right gluteal induration, which had expanded to the left gluteal region. He also complained of severe pain, fever, and uncontrolled leakage of stool. At admission, he had persistent pain, he was tachycardic with a heart rate of 91 beats per minute, his arterial blood pressure was 126/69 mm Hg, and his body temperature was 36.6° C. On physical examination, his left and right gluteal regions revealed a visibly necrotic area (Figure 1). There was palpable fluctuation on palpation. A CT revealed infrarenal and right common iliac artery aneurysms. The patient was treated on the same day as described in the introduction.
with wide debridement of devitalized tissue, perianal abscess drainage, and transversostomy (Figures 2 and 3). The patient returned to the operating room 11 days after his first radical necrectomy, for further transanal drainage. Two days after the second operation, he developed a complication; decompensated adhesive ileus, requiring laparotomy. Intraoperatively, we found gastric distension with 2 L of gastric contents, which was aspirated. Thin intestinal convolutions were adhered in three regions in the left inguinal canal, in proximity to the sigmoid colon. After adhesiolysis and suturing, abdominal lavage was performed, followed by an appendectomy and drain placement. The incision was closed with a running suture. Next, the perianal region was addressed and a necrectomy and dressing replacement were performed. The patient was discharged approximately one month later (Figure 4). Wound cultures taken the day after the first operation demonstrated the presence of E. coli, Morganella morgani, Streptococcus anginosus, Enterococcus faecalis, and several anaerobes, including at least one that was resistant to clindamycin. Based on the wound culture results, Amoxiclav and Ciprobay were prescribed.

**DISCUSSION**

Fournier gangrene is a form of necrotizing fasciitis. In most cases, it affects men over 50 years of age. The infectious etiologies stem from pre-existing colorectal disease. Points of entry include cutaneous injury, urogenital sepsis, or perianal sepsis with aerobic and anaerobic organisms which act synergistically in tissue. The microorganisms most frequently isolated are caused by hemorrhoids. Clinical signs of Fournier gangrene include intense pain, fever, and swelling. The treatment involves administration of broad-spectrum antibiotics, supportive care if multiorgan system failure is present, and emergency surgery in the form of wide excision with serial debridements. The objective is to widely debride necrotic tissue until only healthy tissue remains. The patient is usually discharged one month after surgery. The most commonly isolated microorganism in wound cultures is E. Coli, which was also isolated in our case. The etiology in our case was perianal sepsis.

**CONCLUSION**

Fournier gangrene is a rare disease with high mortality rate. We successfully treated our patient with emergency surgery, which included radical soft tissue necrectomy and transversostomy. It also describes the resolution of the early postoperative complications.
REFERENCES


