

## Severe and Deep Perineal Trauma with a Commando Knife Causing Long Term Erectile Dysfunction

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### KEYWORDS

Perineal; Trauma; Commando; Knife; Erectile Dysfunction.

### INTRODUCTION

Perineal traumas in males are rare pathologic entities and it would be both blunt or penetrating [1]. Both of these trauma types would cause severe health and erectile problems. As a result, quality of life is affected. These traumas would cause severe injuries of urethra and corpus cavernosum [1]. These damages would also occur due to the endothelial dysfunction in penile, pudendal and cavernosal arteries [2]. According to the severity of traumas, several consecutive clinical signs and symptoms would occur. Erectile dysfunction is one of the most important consequences of perineal traumas. In this study we aimed to present a 34 year-old male patient that had a severe penetrating perineal trauma due to knife injury and erectile dysfunction that occurred as a consequence.

### CASE PRESENTATION

A 34 year old male patient admitted to emergency clinic with a severe penetrating perineal trauma with a commando knife. (Figure1) Patient was consulted to urology clinic. According to the physical examination, there was 3-4cm diameter penetrating trauma and the knife was seen. X-ray showed the deep penetrance of knife (Figure 2) and the patient was performed surgical intervention for repairing the genital and perineal structures and for getting the knife out. (Figure 3) It was observed that both cavernosal structures were affected from the severe penetration.



Figure 1: Severe perineal trauma; physical examination.



Figure 2: X-ray; penetrating trauma with commando knife.



**Figure 3:** Knife removed from perineal wound.

After the surgical repair vital signs were normal but considering the long-term results there was a severe complaint about erectile functions. There was mild recovery with oral and injectable treatment options. The patient was included in routine follow-up programme and revascularization operation will be considered according to the clinical persistent erectile dysfunction.

## DISCUSSION

Perineal traumas are usually causes severe consecutive health problems that affect quality of life. These patients would present with severe pain, dysuria, hematuria, hematoma in perineal region and open wounds due to penetrating traumas [3]. Physical examination is very important for diagnosis and also several radiologic interventions would be used. Conservative or surgical approaches would be preferred in the treatment of genital traumas. Surgical intervention would be considered according to the severity of traumas especially for penetrating traumas. The technique of surgical intervention depends on the severity of traumas [4]. Various problems would be seen after these traumas. Some of them would recover with medical treatment options and observation but for some cases additional surgical interventions would be necessary. Conservative approaches may sometimes result in unwanted post-operative conditions such as erectile dysfunction and some cosmetic problems [5]. Revascularization surgeries would be performed in for the treatment of erectile dysfunction and in some studies improvements were observed with validated questionnaires while comparing preoperative and postoperative conditions [5, 6].

## CONCLUSION

Perineal traumas are rarely seen and severe pathologic entities that would affect the entire life of the patient. Both conservative or surgical approaches would be considered and

also additional approaches especially revascularization surgeries would be necessary according to clinical conditions of patients.

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