

# Rare Case of Cyst of the Canal of Nuck

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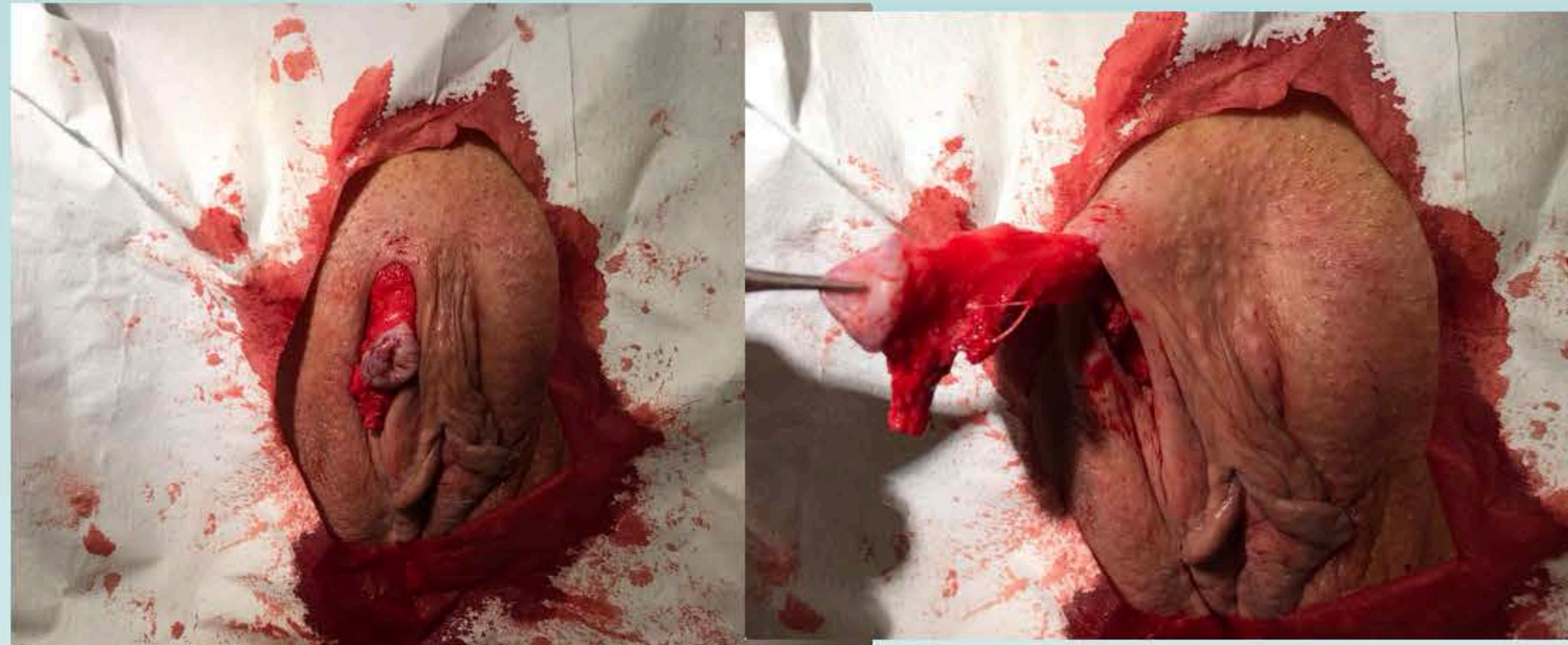
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## Introduction

- Anatomy and Pathophysiology: The canal of Nuck is an embryological remnant that can form cystic structures when it remains patent. It is the female equivalent to the male processus vaginalis.
- Epidemiology: Though primarily seen in children, cysts of the canal of Nuck can also occur in adult women. Due to their rarity, they are often misdiagnosed.

## Figure 1



## Intervention and Outcomes



## Abstract

The cyst of the canal of Nuck is an uncommon condition resulting from the failure of obliteration of the processus vaginalis in females. It may present as a painless or painful groin mass and can be misdiagnosed due to its rarity. This poster presents a case of an adult female with a cyst of the canal of Nuck, treated surgically with complete resolution of symptoms.

## Diagnostic Assessment

Ultrasound of the groin revealed an anechoic, well-circumscribed cystic structure within the inguinal canal. MRI confirmed a 3.2 × 1.8 cm fluid-filled cyst consistent with a cyst of the canal of Nuck, with no communication to the peritoneal cavity. There was no evidence of herniation.

## Conclusion

Cysts of the canal of Nuck, though rare, should be considered in the differential diagnosis of inguinal swellings in adult females. Surgical excision, guided by lymphatic mapping with BPV, is the optimal treatment to prevent complications and ensure complete removal of the cystic mass. Raising awareness among medical professionals is crucial for early and accurate diagnosis.

## Conflict of interest

Conflict of Interest: None

## Case Report

42-year-old female presented with a draining cyst at the right vulva, noted to release clear fluid intermittently. There was no associated pain, redness, or systemic symptoms. The lesion had been slowly enlarging over several months. Imaging was pursued due to concern for possible glandular cyst or hernia, and revealed findings consistent with a canal of Nuck cyst.

## Intervention and Outcomes

The patient underwent surgical excision of the cyst under local anesthesia. The cyst was removed entirely without complications. Pathology confirmed a benign epithelial-lined cyst. Postoperatively, the patient had an uneventful recovery and resolution of the groin swelling.

## References

1. Iqbal, T., et al. (2020). Cyst of canal of Nuck in adult females: Case series. \*J Clin Imaging Sci.\*
2. Yao, L., et al. (2018). Canal of Nuck cyst mimicking inguinal hernia: Clinical and radiologic findings. \*AJR Am J Roentgenol.\*
3. Guidelines on surgical management of rare groin masses in females.

