Pediatric Surgery Update:

Current Management of Acute Appendicitis And Pilonidal Disease

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Objectives

- 1. Basic understanding of the pathophysiology of appendicitis
- 2. Correlation of presenting timeline and imaging in appendicitis
- 3. Management algorithm for acute appendicitis
- 4. Differences in management between non-perforated and perforated appendicitis
- 5. Recurrent appendicitis after antibiotic management and the role of interval appendectomy
- 6. Recognition and treatment of pilonidal disease
- 7. Modern procedures and outcomes in pilonidal disease

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Clinical Presentation Perforated vs Non-Perforated Surgical Removal vs Interval Treatment Post-op Recommendations

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Appendicitis <u>Clinical</u> Presentation







Appendicitis Work up

Consistent history

Low grade fevers

Mild elevated WBC (12-14,000)

Other associated symptoms

These findings coupled with tenderness at McBurney's point generally enough to make the diagnosis

Adjunct tests

Ultrasound *Operator Dependent, less sensitive for perforation* CT scan *IV Contrast only*

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Pilonidal Disease Clinical Presentation

Teens and young adults 4:1 male predominance Presentations include: Infection = acute severe pain Chronic drainage = sinus tract Asymptomatic = pits/sinuses Acute infection most common Abx for cellulitis Drainage for abscess Sx referral for

Acute infection, chronic drainage Non-healing sinus with non-Sx treatment

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Pilonidal Disease Non-surgical Management

Recognition is most important

Visible pits or history of Pilonidal with residual pits

Non-surgical recommendation

Weekly hair clipping

Manual removal of hair in pits

Aggressive hygiene:

Twice Daily showers

Manual exfoliation

Good evidence for laser hair removal, but \$

50% have resolution of disease

50% require surgical intervention

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Minimally Invasive Pilonidal Excision (Gips or MIPE)

Excise each sinus opening

4-5mm Punch biopsy trephine Excise of hair, tract, pseudocyst

hemostats

1-2d hospital stay, 3-6 weeks of healing

Cauterize remaining lining

H2O2 irrigation

4-5 times with 30-60sec dwell time

Clean area

saline irrigation

Rare packing removed in 48hrs

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Post-operative Care for Pilonidal Procedures











All major pediatric general surgical and urologic issues

Exceptions:

Hypospadius, Intra-abdominal testicle, bladder extrophy, and ECMO

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