BOOST CYAC WEBINAR SERIES Feb 27<sup>th</sup> , 2019

## Sexual Abuse in Young Children

Understanding the medical evaluation at your CAC/CYAC

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## **Faculty/Presenter Disclosure**

- Relationships with commercial interests:
  - Grants/Research Support: nil
  - Speakers Bureau/Honoraria: nil
  - Consulting Fees: legal
  - **Other:** Funding from Department of Justice Canada for development of a Child & Youth Advocacy Center
- Some images /content may be upsetting. Please feel free to take a break if needed and debrief
- Please do not photograph slides.

## **Learning Objectives**

- Understand the value of genital examinations and forensic evidence collection
- Identify normal genital anatomy & examples of common prepubertal genital findings
- Review documentation and interpretation
- Provide appropriate care to victims of sexual abuse

### **Definition of Sexual Abuse**

"A child is engaged in sexual activities that the child cannot comprehend, for which the child is developmentally unprepared and cannot give consent, and/or that violate the law or social taboos of society."

(AAP 1999)

Spectrum of activities from sexual assault to less intrusive forms of abuse



#### FIGURE 5: Primary Category of Substantiated Child Maltreatment in Canada in 2008\*

Canadian Incidence Study of Reported Child Abuse and Neglect - 2008

\* Total estimated number of substantiated investigations is 85,440, based on a sample of 6,163 substantiated investigations.

Canadian Incidence Study of Reported Child Abuse and Neglect – 2008: Major Findings http://www.phac-aspc.gc.ca/cm-vee/csca-ecve/2008/index-eng.php

#### How common is child sexual abuse?

- Ontario survey, **11% of women** and **4% of men** reported a history of severe sexual abuse during childhood
- When you were growing up, did any adult ever do any of these things to you against your will?"
  - threatened to have sex with you?
  - touched the sex parts of your body?
  - tried to have sex with you or sexually attacked you?

MacMillan et al. Prevalence of child physical and sexual abuse in the community. Results from the Ontario Health Supplement. JAMA 1997

#### How common is child sexual abuse?

#### Ontario survey **11 % of women** and **4% of** REMEMBER

The Adverse Childhood Events Studies (ACES) arose from the study of an adult obese cohort. The unifying feature was childhood sexual abuse. **Childhood trauma is an important predictor of downstream adversity.** 

- tried to have sex with you or sexually attacked you?

the sex parts of your body

MacMillan et al. Prevalence of child physical and sexual abuse in the community. Results from the Ontario Health Supplement. JAMA 1997

## **Presentation of Sexual Abuse**

- Specific disclosure (family, social services, police)
- Medical complaint:
  - genital or rectal
  - bleeding, dysuria, discharge, redness, STI
- Concerning behaviors
  - sexual acting out
  - sexual perpetration on others
  - sleep disturbance, depression, promiscuity, change in appetite, substance abuse
- Emergency Department / medical clinic

## **History of allegation**

- Often provided by social services or Police after interview or initial investigation
  - time and date of alleged s/a
  - last known or possible contact
  - description of event(s)
  - duration
- Symptoms
  - pain, bleeding, discharge
  - prior or ongoing?
- Past medical history
  - meds, menstrual hx, prior sexual activity
- Characteristics of perpetrator
  - age, infections, IV drug use, previous history of abuse

## **History of allegation**

#### **REMEMBER**

The forensic interview is a specific piece of the investigation

The health care provider should obtain information that is required for establishing a care plan.

- Past medical history
  - meds, menstrual hx, prior sexual activity
- Characteristics of perpetrator
  - age, infections, IV drug use, previous history of abuse

## How quickly should this child be examined?



- Attempt to see families in the most comfortable, comprehensive manner
- Attempt to limit unnecessary genital exams
- Attempt to limit multiple examinations
- What options are available in your community? CYAC?

# How quickly should this child be examined?



## How can I help you today?

- "You'll be able to tell after the exam if she has been abused, right?"
- " She is so angry all the time. What can I do?"
- "Why does she have discharge in her underwear?"
- " My child looks 'broken open'. Someone must have touched her."

## How can I help you today?

#### "You'll be able to tell after the evam if she has REMEMBER

It is important to set realistic expectations for families, caregivers, social services and police

" My child looks 'broken open'. Someone must have touched her."

#### Management & Outcome

- Guided by history and physical exam
- Testing for conditions such as UTI, STI
- Treatment for conditions identified
- Referrals (i.e. mental health, pediatrics, gynecology)
- Reporting or re-reporting to social services as indicated

## Female Examination

#### **Female Examination**

- General physical exam
- Documentation of skin injuries
- Tanner (sexual maturity) stage of breast and pubic hair
- External genitalia
  - apply traction, visualize hymen and vaginal opening
  - note shape of hymen
  - describe rim and edges of hymen
  - note any bruising, laceration, discharge or bleeding
- Anus and buttocks

## **Female Examination**

#### General physical exam

#### **REMEMBER**

A speculum examination in a prepubertal child is never indicated.

If there is undiagnosed bleeding the child needs an EUA.

- describe rim and edges of hymen
- note any bruising, laceration, discharge or bleeding
- Anus and buttocks

## Set yourself up for success

- Consider examining infants and toddlers in caregiver's lap
- Respect privacy in school-aged children and adolescents
- Be aware of who the child wants in the room
- Explain what you're doing as you go in appropriate terms
- Build rapport
- Provide reassurance that the exam is not painful
- Answer questions honestly
- Perform the exam gently

## **Beginning the Genital Exam**



- Prepubertal children can be examined in a supine frog-leg position
- Adolescents should be examined in lithotomy position

# Options for positioning to maximize visualization



#### **Anatomy Review**



#### **Supine labial separation**



- Start with supine labial separation.
- Spread the labia majora gently apart to view the vestibule.

#### **Supine labial traction**





- Supine labial traction is the next step, because the hymen stretches around the vaginal opening.
- The labia are grasped on both sides in a gentle pinch. Draw them forward and down.

#### Hymen



- Membrane that surrounds the vaginal orifice
- There is a wide anatomic variation in the appearance of the hymen

# The Hymen is seen after separation & retraction



## **Most Common Hymen Types**



Annular



#### Crescentic

## **Most Common Hymen Types**







Annular

Crescentic

#### **Hymen Characteristics**

- After noting the hymen configuration, note:
  - Edges

Smooth vs any bumps, notches, lacerations

Rim

The width of the hymenal tissue; normal amount of tissue (normal rim) vs narrow or wide.

All of these variations are normal.



#### **Prepubertal**

- sensitive
- well vascularized
- ⊳ pale

#### Pubertal

- little sensation
- redundant and elastic
- ⊳ red

## Male Examination

#### **Male Examination**

- Note Tanner stage (sexual maturity) of pubic hair & genitals
- External evaluation of the penis, testicles and scrotum, anus
- Signs of injury
  - bruising, laceration, discharge or bleeding

#### **Male Genitalia**





#### **Anus/Anal Orifice**



- The superimposed face of a clock can also be used to describe anal findings, with 12 o'clock pointing upwards towards the patient's head.
- Look for bruising, fissures, lacerations, discharge or bleeding.
- A digital rectal exam is not done in these cases.

## Case "A"

- 4 year old girl told her mother that Uncle touched her "pee-pee" and asked her to touch his
- The girl is having no trouble voiding, and there is no history of bleeding or discharge
- Mom "examined" her and thinks she looks "red and broken open"
- Social services and police want the girl examined ASAP to confirm allegation before they proceed

#### How should you proceed?

#### **Findings on Exam**

- Adams, J., et al. Updated Guidelines for the Medical Assessment and Care of Children Who May Have Been Sexually Abused. *Journal* of Pediatric and Adolescent Gynecology, 2016. 29(2)
- Heger, A., et al., Children referred for possible sexual abuse: medical findings in 2384 children. Child Abuse & Neglect, 2002. 26
- Andherst, J., N. Kellogg, and I. Jung, Reports of repetitive penilegenital penetration often have no definitive evidence of penetration, in Pediatrics. 2009.
- Adams, J., et al., Examination Findings in Legally Confirmed Child Sexual Abuse: It's Normal to be Normal. *Pediatrics*, 1994. 94(3)
# **Findings on Exam**

Adams, J., et al. Updated Guidelines for the Medical Assessment and Care of Children Who May Have Been Sexually Abused. *Journal* 

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### **REMEMBER**

In **85-95%** of cases where there is a disclosure of abuse, the genital findings are normal or non-specific.

Adams, J., et al., Examination Findings in Legally Confirmed Child Sexual Abuse: It's Normal to be Normal. *Pediatrics*, 1994. 94(3)

## Why are most exams normal?

- Many types of abuse leave no physical evidence
- Mucosal injuries heal rapidly
- Many findings have multiple possible etiologies
- Child's concept of "penetration" difficult to appreciate
- Medical findings are more likely if:
  - Bleeding occurred after incident
  - Recent assault
  - Pain occurred at the time of the incident

# Why are most exams normal?

Many types of abuse leave no physical evidence

### **REMEMBER**

A normal exam does not preclude the possibility of sexual abuse.

- Medical findings are more likely if:
  - Bleeding occurred after incident
  - Recent assault
  - Pain occurred at the time of the incident

#### Mini-Review

#### Updated Guidelines for the Medical Assessment and Care of Children Who May Have Been Sexually Abused



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#### J.A. Adams et al. / J Pediatr Adolesc Gynecol 29 (2016) 81-87

### **Practical Implications**

- Findings diagnostic of trauma/sexual contact are rare even with disclosure of penetrative events
- Typically, findings are more strongly associated with symptoms and historical factors
- The absence of findings does not rule out sexual abuse
- Positive finding = consult with expert/colleague

### Triage case "A"

- Less urgent referral
- The examination will most likely be normal or non-specific and not helpful for investigation
- Examination will possibly diminish anxiety
- Recommend that the child be interviewed first
- Explain rational and findings to family, police and social services

### Triage case "A"

#### Less urgent referral

### **REMEMBER**

Child sexual abuse allegations are most typically substantiated based on history and not physical exam.

Explain rational and findings to family, police and social services

### **Examination Case "A"**



- erythema of vestibule
- crescentic hymen
- smooth edges
- normal rim

### DX: VULVOVAGINITIS

### Case "B"

- A 6 year old brought to ED after having been found alone at home by social services
- She has blood in her underwear and told the social worker that a man hurt her pee hole yesterday

# Case "B" Triage

- Attempted assault within last 48 hours acute
- Pain and bleeding reported
  - Physical findings
- Immediate assessment required in an ED

Forensic evidence findings in prepubertal victims of sexual assault. *Pediatrics.* Christian et al.(106) 2000.

- 273 children <10 years with SAEK were reviewed</p>
- some evidence in 24.9%, all seen within 44 hours
- > 90% with positive SAEK seen within 24 hours
- > 24 hours ALL evidence was from clothing
  \* except 1 hair
- No positive swab for blood after 13 hours and semen after 9 hours

### Sexual Assault Evidence Kit (SAEK)

Medicolegal examination whose purpose is:

- help identify perpetrator/location
- demonstrate occurrence of s/a
- evidence for police (apprehension/prosecution)
- requires informed consent
- can be frozen
- Intrusive undertaking, so consider...
  - Time: low yield after > 72 h pubertal
  - Miscellaneous: shower, b.m., new clothes, eaten
  - History of assault: penetration / attempted
  - Examination: injury

### Sexual Assault Evidence Kit (SAEK)

#### Medicolegal examination whose purpose is:

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### **REMEMBER**

In situations of acute sexual assault, if a SAEK is to be collected, law enforcement must be on site to maintain chain of custody.

Consult with a local SANE team if available.

- Miscellaneous: shower, b.m., new clothes, eaten
- History of assault: penetration /attempted
- Examination: injury

### Case "C"

- A mother brings her 2 year old daughter to your office because "her opening doesn't look normal"
- The child has just returned from a weekend visit with her father and mother wonders if he "did something to her"
- The girl has recently become more tearful when dropped at her father's for visits

## How would you proceed?

- Presentation is non-specific
- No prior concerns about father
- Mother had a personal history of sexual abuse
- How would you proceed?

### **Examination Case "C"**



### **Resolved labial fusion**



### **Resolved labial fusion**



Labial fusion is a common finding in prepubetal girls. It is not a traumatic injury. Treatment is indicated if there are recurrent infections or voiding difficulties.

### **Take Home Messages**

- Varied spectrum and consequently there are varied presentations of sexual abuse
- History is critical in making a diagnosis and management plan
- Majority of examinations are normal or nonspecific
- Familiarize yourself with local resources and social services protocols