# WHEN IT'S NOT CHILD ABUSE

CHAMP Webcast November 2, 2016

#### **Disclosure Statement**

The presenters Ann S. Botash, MD; Linda Cahill, MD Jennifer Canter, MD; Ann Lenane, MD Yorgo Zahlanie, MD; and Jamie Hoffman-Rosenfeld, MD have no financial relationships with any commercial interests.

## POST STREPTOCOCCAL SEQUELAE; SKIN AND MUCOUS MEMBRANES

Linda Cahill, MD Medical Director, Butler CAC Bronx, NY

#### History

8 year-old non-verbal boy with Pervasive Developmental Disorder (PDD), in diapers, was sent for evaluation for physical and sexual abuse after this rash was noted by caregivers at his day school.

# STREPTOCOCCUS **IMPETIGO**

Jennifer Canter, MD Director, Child Abuse Pediatrics Program & Forensic Acute Care Team The Maria Fareri Children's Hospital Valhalla, NY

#### Literature

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PMID: 26095284 DOI: 10.10161.jpeds.2015.05.034

PubMed - indexed f

# GETTING SOME "RUNS" FOR YOUR MONEY

Ann Lenane, MD REACH Program Rochester, NY

#### History

- One year-old girl presented to the Emergency Department with a rash.
- Noted when she awoke that AM.
- $\boldsymbol{\cdot}$  There was diarrheal stool in the diaper.
- This rash was noted by her mother.
- It was painful.
- The baby was otherwise healthy appearing.

#### **Case Progression**

- Burn Team was called.
- Social worker was involved.
- No social risk factors identified.
- Mother insisted she had not done anything to injure her daughter.
- A Child Protective Services report was made based on the burn team's report that this looked like an immersion burn.

#### The Culprit: "Little Tummies"

- · Laxative that used to contain senna
- Mother had given her daughter a dose the day before.
- $\boldsymbol{\cdot}$  Case reports and a later study showed that senna can cause severe skin burns in children in diapers.
- Brief History
- 1999 Phenolphthalein removed, replaced with senna, a natural plant derivative
- 2001 Case reports of severe burns (4 cases)
- · 2003 Larger study confirmed this
- No longer in most OTC children's laxatives

#### Conclusions

- Mother and baby re-united.
- Burn Team contacts child abuse team on a regular basis.
- · Multidisciplinary Team contacts child abuse program for all serious physical abuse cases.
- · Child abuse is a "team sport."

#### Literature

Ann Pharmacother 2003 May;37(5):436-9. Skin breakdown and blisters from senna-containing laxatives in young children. Spiller HA<sup>1</sup>, Winter ML, Weber JA, Krenzelok EP, Anderson DL, Ryan ML Author information

Abstract BACKGRONDACk the direction of the Food and Drug Administration, phenophthalein was removed from all over-the-counter laxatives BACKGRONDACk the direction of the Food and Drug Administration, phenophthalein was removed from all over-the-counter laxatives in 1959. Phenophthalein was then replaced in most laxative products with the natural product seria from Cassia acutifutia Delle, which contains various anthraquinones. No data are available on the safety of serina use in children -d years of age. DUECTIVE: To become the chical colouries of exposure to unimiterinois integristic on 6 series-containing laxatives in young children. METHODS: All ingestion exposures of seria containing laxatives in children -d years of age that has contim lingestion. Parents use to divolutely this twee leading ratio and possible and to protect the peristinal area with Request Learning and a barrier continent if the child was vesified data series and acuted series of the context in gradient acute acute integring data series and the data was vesified data acute acuted series and a barrier continent if the child was vesified data series acuted acuted acute acuted series acuted data acuted responses acuted acuted

the child was wearing diapers. RESULTS: Jourgin Besuby period. 111 Cases were reported: 19 children experienced no diarrhea, 4 were lost to follow-up, and 86 exposures were evaluated. PR-hos children (5%) were -vi-2 years old. PRM y children remained in diapers, 26 children were hily ble trained, and 10 wore diaper (juicity) were -vi-2 years old. PRM y children remained in diapers, 26 children were hily ble trained, and 10 wore diaper (juicity) partis) overright. Then-neen children (1%) had bleftes and skin stoughing. There was a -V. SD there is recognition of the diaper rank was 15 6 + 0.6 hours. The children (1%) had bleftes and skin stoughing. There was a significant increase is sovere diaper rank (is < 0.05) and once of oblessins and blast usedowin (j) < 0.05). In once were longer rank of the most hill block of blocks and blast blast and blast south and blast and blast trained. If the hours had blast and blast and blast and blast and blast and blast were share to blast and blast blast and blast were share to blast and blast blast and blast were share blast and bla

CONCLUSIONS: Unintentional ingestion of senna-containing laxatives in young children may potentially cause severe diaper rash, blisters, and skin sloughing. DAUD: 1270803

#### NONSEXUAL ACUTE GENITAL ULCERS: UNUSUAL ASSOCIATION

Yorgo Zahlanie, MD PL3 Pediatrics Upstate Medical University Syracuse, NY

#### Outline

- Case presentation
- Case report
- Nonsexual acute genital ulcers (NAGU)
- Conclusion

#### **Case Presentation**

- 15 year-old healthy female p/w 3-day history of fever, headaches, nausea, photophobia, malaise and arthralgia/myalgia
- Also reported to have painful labial ulcers over last 2 days  $\rightarrow$  difficulty walking
- Not sexually active

#### **Case Presentation**

Pertinent findings on PE:

- Febrile (38.4 C), tachycardic (106 F)
- Appears to be in pain but alert
- Headache elicited by moving neck but full ROM
- Neurological exam normal
- Multiple tender ulcerative lesions on labia extending into vaginal introitus

#### **Case Presentation**

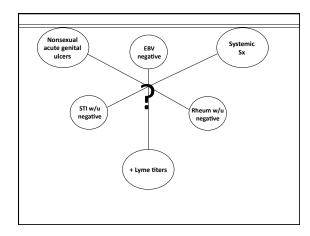
- LP performed due to concerns of meningitis
- STI and rheumatologic w/u due to labial ulcers
- Lyme titers drawn due to working outdoors in summer camp

#### **Case Presentation**

- Started on IV Vancomycin, Meropenem (allergy to Cephalosporins) and Acyclovir
- · Admitted to the floor

#### **Case Presentation**

- $\bullet$  CSF showed **no pleocytosis** (WBC=0). Full sepsis w/u neg.
- STI w/u neg: wet prep, KOH, Gram stain, GC/Chlamydia PCR, RPR, HIV screen, labial HSV PCR
- · EBV panel not consistent w/ acute infection
- RF, ANA and ANCA neg. Ophthalmologic exam neg.
- Lyme IgM + 3/3 bands. IgG neg.



#### Disseminated Lyme Disease Presenting With Nonsexual Acute Genital Ulcers

Justin J. Finch, MD; Jenna Wald, MD; Katalin Ferenczi, MD; Saima Khalid, MD, MPH; Michael Murphy, MD

JAMA Dermatology November 2014 Volume 150, Number 11

#### Case Report

- 50-year-old female p/w a 3-week history of rapidly expanding painful vaginal ulcers, fever, malaise, neck/ back pain, and round lesions on arms/shoulders
- Vaginal ulcers progressed despite PO Ciprofloxacin, PO Prednisone and topical Neomycin.
- Not sexually active. No history of STI. No oral ulcers. No ocular symptoms.

Finch JJ, Wald J, Ferenczi K, Khalid S, Murphy M. Disseminated Lyme disease presenting with nonsexual acute genital ulcers. *JAMA Dermatol*. 2014;150(11):1202-4

#### Case Report

- Biopsy of ulcers showed polymorphous inflammatory infiltrate w/o organisms, malignancy or vasculitis.
- CG/Chlamydia, RPR, HIV, HSV-2, Babesia, Ehrlichia, ANA, pathergy test negative
- Lyme titers positive
- Resolution of symptoms 48 hours after starting Doxycycline

Finch JJ, Wald J, Ferenczi K, Khalid S, Murphy M. Disseminated Lyme disease presenting with nonsexual acute genital ulcers. JAMA Dermatol. 2014;150(11):1202-4

#### NAGU

- Nonsexual acute genital ulcers (NAGU), or *Lipschutz ulcers*, are a rare vulvar skin condition typically affecting girls and young women.
- Acute onset of single or multiple painful genital ulcers
- Most cases associated with nonspecific systemic symptoms

Finch JJ, Wald J, Ferenczi K, Khalid S, Murphy M. Disseminated Lyme disease presenting with nonsexual acute genital ulcers. JAMA Dermatol. 2014;150(11):1202-4

#### NAGU

- Etiology not identified in 75% of cases
- Some cases associated w/ infections: EBV, CMV, Mycoplasma, HIV, Mumps, Influenza A, T. gondii
- Genital ulcers may result from a strong immune response to infection  $\rightarrow$  ? systemic symptoms ?

Finch JJ, Wald J, Ferenczi K, Khalid S, Murphy M. Disseminated Lyme disease presenting with nonsexual acute genital ulcers. JAMA Dermatol. 2014;150(11):1202-4

#### Other Etiologies

Behçet's disease, lichen planus, lichen sclerosus, IBD, Sweet syndrome, Reiter syndrome, blistering skin diseases, and drug reaction<sup>1,2</sup>

 Huppert JS. Lipschutz ulcers: evaluation and management of acute genital ulcers in women. Dermatologic Therapy. 2010;23:533-540.
 ZiTcko K, Belic M, Milijković J. Ulcus vulvae acutum. Acta Dermatovenerol Alp Panancica Adriat. 2007;16(4):174-6.

#### Back to Our Patient

- 15 year-old female w/ NAGU associated w/ Lyme disease
- Started on PO Doxycycline 100 mg BID for 21 days
- Labial ulcers and systemic symptoms were resolved few days after starting Doxycycline.

#### Conclusion

- To our knowledge, this is second case of nonsexual acute genital ulcers associated w/ Lyme disease.
- Association and <u>not</u> causation
- Lyme disease should be considered in women presenting with NAGU, especially in **endemic areas**.
- Other infectious, rheumatologic and dermatologic etiologies should be ruled out.

#### CASE #1 PERIURETHRAL SUPPORT BANDS

Jamie Hoffman-Rosenfeld, MD Medical Director, Queens CAC Forest Hills, NY

#### Case

- 7 year-old girl presents to pediatrician with bleeding from private parts; no pain or dysuria.
- History of fall from monkey bars 3-4 weeks prior, landing on scooter; at the time grabbed "private" and said she hurt herself.
- No blood noted at the time of the fall.
- Primary care provider does exam and says she looks "weird."
- Referred to Pediatric GYN exam normal; no site of bleeding seen.

#### Case (cont.)

- Bleeding continues intermittently; mother not certain if it is from the vagina or anus.
- Primary care provider refers to a pediatric dermatologist.
- Pediatric dermatologist sees "two cuts in vagina" and makes report to the NYS Central Register.
- CPS tells the mother to take 7 year old to an Emergency Department – 2 lacerations seen.
- · Referred to Child Advocacy Center.

#### Are these cuts??

Periurethral support bands - Small bands lateral to the urethra that connect with periurethral tissue to the wall of the vestibule: these normal supportive structures are also called vestibular bands and support bands.

# Do pediatric chief residents recognize details of pre-pubertal female genital anatomy?

- Dubow, Giardino, Christian, and Johnson
- Child Abuse and Neglect Journal
- February 2005
- A National Survey

# How often do you routinely examine the genitalia of a girl?

12%

9%

- Always (100%)
- Most of the time (>90%) 38%
- Usually (70-90%) 31%
- Sometimes (50-69%)
- Less than half the time 10%

### Percentage Of Respondents Identifying Structure Correctly

- Clitoris
- Posterior commissure
  Urethra
- Labial minora
- Labia majora
- Hymen
- 63% 90% 80% 64%

94%

87%

 Original Designation

 Child Abose & Negleet 26 (2002) 1235-1242

 Child Abose & Negleet 26 (2002) 1235-1242

 Genital examinations for alleged sexual abuse of prepubertal girls: findings by pediatric emergency medicine physicians compared with child abuse trained physicians

 Kathi L. Makoroff\*\*, Jamie L. Brauley<sup>b</sup>, Ann M. Brandner<sup>b</sup>, Patricia A. Myers<sup>b</sup>, Robert A. Shapira<sup>b</sup>

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# Study Results

4 year period

- 46 patients with non-acute findings felt to be significant for abuse were referred
- 32 (70%) Normal
- •4 (9%) Non-specific
- ·2 (4%) Concerning
- •8 (17%) Diagnostic

| ARTICLE<br>Child Abuse Training and I  |  |
|--|--|
| Survey of Emergency Medi   |  |
| and Pediatric Residents and  | d Program Directors  |
| Suzanne P. Starling, MD <sup>a,b</sup> , Kurt W. Heisler, MS, MPH <sup>a,b</sup> , James F. Paulso   | on, PhD+, Eren Youmans, MPH+   |
| *Eastern Virginia Medical School, Virginia; *Children's Hospital of The King's Daughte   | ers, Norfolk, Virginia   |
| The authors have indicated they have no financial relationships relevant to this article to disclose.  |  |
| What's Known on This Subject   | What This Study Adds   |
| Both practicing pediatricians and residents report discomfort with child abuse evalua-<br>tions. Medical training in child abuse is madequate in the Linted States. Studies have<br>addressed comfort and training but have not directly assessed child abuse knowledge. | This study assessed child abuse knowledge, training, and comfort levels of physicians it<br>also is the first to compare the training and knowledge among the 3 specialities most<br>likely to encounter abused children first; pedatiscs, emergency medicine, and family<br>medicine. |
|  |  |
| Pediatrics 2009;1:   | 23:e595–e602   |
|  |  |

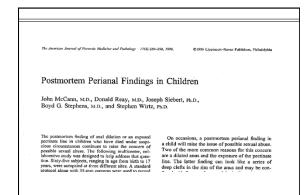
| Results - Correct Identification<br>of Anatomy |        |             |
|--|--------|-------------|
|  | CETCAN | Starling II |
| Hymen  | 64%    | 87%         |
| Urethra  | 54%    | 57%         |
| Labia Minora                                   | 21%    | 30%         |
| Correct identification of all 3 structures     | 12%    | 19%         |



#### CASE PRESENTATION #2 EXPOSED PECTINATE LINE

#### Case #2

- 3 year-old boy transferred to hospital in complete cardiac arrest; at time of arrival, exam compatible with brain death.
- Child Abuse Pediatrician consulted because of vague history and unclear circumstances.
- Complete exam including anal and genital exams normal.
- After official declaration of brain death, exam conducted by a medical provider from the organ harvesting/transplant team.
- Diagnosis of "anal tear" made.
- Several days into hospitalization, the question of sexual assault is raised.



## Postmortem Examination

• No sign of perianal/anal trauma found at autopsy.

#### Summary

Mimics for child abuse can include:

- Infections
- Chemical contact (dermatitis)
- Normal structural findings (genital)
- •Other

| Linda Cahill, MD            | Perianal Strep   |
|-----------------------------|--|
| Jennifer Canter, MD         | Strep Impetego   |
| Ann Lenane, MD              | Senna burn   |
| Yorgo Zahlanie, MD          | NAGU from Lyme disease                                 |
| Jamie Hoffman-Rosenfeld, MD | Periurethral support bands & exposed<br>pectinate line |