Case Report ISSN 2835-6276

## American Journal of Medical and Clinical Research & Reviews

### Lipschütz ulcer: report and follow-up of a clinical case

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Received: 06 Sep 2024; Accepted: 15 Aug 2024; Published: 25 Sep 2024

**Citation:** Dalia L. Gómez Aguilar. Lipschütz ulcer: report and follow-up of a clinical case. AJMCRR 2024; 3(9): 1-5.

### **Abstract**

Acute genital ulcer, also referred to as "Lipschütz ulcer", is a relatively uncommon non-sexually transmitted condition characterized by the rapid onset of a necrotic and painful ulcer within the vulvar region. This condition predominantly affects adolescents and young women, irrespective of sexual activity, and may manifest with symptoms resembling those of influenza or mononucleosis. Notably, acute genital ulcers have been linked to Epstein-Barr virus (EBV) infection as well as other viral or bacterial infections; nonetheless, the etiology often remains elusive. The case under consideration involves a 13-year-old girl who, devoid of preceding vaginal or oral ulceration and without a history of sexual contact, presented with a rapidly progressive vulvar ulcer accompanied by episodic low-grade fever and upper respiratory tract infection, commencing two days prior. Following the exclusion of infectious causative factors, the lesion spontaneously resolved, with Epstein-Barr serology yielding indeterminate results, culminating in the diagnosis of Lipschütz ulcer.

**Keywords:** Lipschütz ulcer, Acute ulcer, Pediatric ulcer, Management acute genital ulcers, Ulcerative vulvar lesions.

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### INTODUCTION.

The Austrian Dermatologist Benjamin Lipschütz in A 13-year-old patient was taken to the Pediatric may occur in children, the incidence is unknown generation cephalosporins. [1]. These ulcers typically appear by an abrupt onset, intense local pain and dysuria, after a nonspe- Subsequently, she went for re-evaluation as she did in most cases [3].

and is made by excluding other usual causes of well-defined, violaceous edges measuring 5x4 cm genital ulceration like infectious causes, non- with red granulation tissue was observed, as well infection (vulvar neoplasia, trauma, sexual abuse as a necrotic eschar on the labia minora that exand certain autoimmune pathologies, Although the tended to the labia majora and the presence of fietiology is not known, "Lipschütz ulcer" diagnosis brin (Figure 1). Likewise, a grayish-white exudate is established according to five major and one of was observed without presence of bad odor, nontwo minor criteria [3, 4] (Table 1).

Table 1

Major Diagnosis Criteria

Presents with first flare of acute genital ulcer
Age <20 years
Absence of sexual contact in the past 3
months
Absence of immunodeficiency
Acute onset of the genital ulcer and healing
of within 6 weeks
Minor diagnosis Criteria
Single or multiple Deep, painful ulcers, with
a necrotic centre
Bilateral "kissing pattern"

#### **CLINICAL CASE**

1912 described for first time acute genital ulcers in Emergency Department due to symptoms compatiadolescent non sexually active or any evidence of ble with upper respiratory tract infection, as well as sexually transmitted infections, in 80% of cases It gastroenteritis and the presence of fever of >38°C usually occurs in young girls aged 14-20 years but for five days, treated with antipyretics and third-

cific symptoms like flu-like syndrome. The com- not present clinical improvement and reported the mon sites of ulcer are inner aspect of labia minora, sudden appearance of a single ulcerous lesion on labia majora, introitus, external urethral orifice, or the left labia minora, which had been evolving for posterior commissure [2]. The ulcers can be single 48 hours, so a consultation was requested with the or multiple with raised, sharply demarcated bor- Gynecology area, where during the interrogation ders. Most of them are often covered with gray ex- the patient had no significant history and denied udate or a gray-black eschar, that spontaneously being sexually active, ingestion of drugs or other resolve within 2-6 weeks s and without recurrences controlled medications, trauma to the injury site, denies previous appearances of similar injuries.

The diagnosis is mainly by clinical examination During the Genital examination, a round ulcer with indurated ulcer upon palpation, soft consistency, non-bleeding, no lymph nodes palpable.



An ulcer is observed on the left labia minor measuring 5x4 cm with well-defined edges and a necrotic area on its second day of appearance.

AJMCRR, 2024 **Volume 3 | Issue 9 | 2 of 5**  Laboratory tests are performed to exclude other causes of acute ulcerations: HIV, VDRL, Hepatitis B, Hepatitis C, Toxoplasma, Rubeola, Cytomegalovirus, Herpes, Epstein Bar, all of which were found to be negative, secretion culture was requested without the presence of bacterial development in 24 hrs. Biopsy was not done as the patient's mother did not consent.

The patient was treated with topical hydrocortisone anti-inflammatory drugs for five days. (Figs. 2-4) 20 days after appearance. The child showed complete clearance of the lesions in a month without any scars. (Fig. 5-6)



An ulcer is observed with well-defined edges, served 25 days after appearance. grayish exudate and a necrotic area measuring 2x2 cm on its fifth day of appearance.



Granulation tissue and grayish exudate are ob- completely regenerated tissue after 30 days of apserved on the tenth day of appearance.



and fusidic acid ointment for four weeks and oral granulation tissue and grayish exudate are observed



Granulation tissue and re-epithelization are ob-



pearance.

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### **DISCUSSION**

Based on data from microbiology, histopathology, serology, and clinical investigations, there is no known etiology for Lipschütz ulcers. The main fea- In order for patients to obtain timely and proper tures of these are painful, necrotic ulcerations in treatment as well as prognosis advice, it is crucial the vulvar area that develop quickly, and they are to recognize Lipschütz ulcers. Idiopathic Lipschütz not sexually transferred. Typically, the ulcerations ulcers account for almost 70% of cases [10]. There are deep (more than 1 cm) [5], broad, and have well are no official guidelines for treating Lipschutz ul--defined purple borders. The necrotic base is cov- cers. Thus, further research is required to identify ered in grayish exudate.

Within two to six weeks of the lesions appearing, it spontaneously heals and is most frequently found on the labia minor, however it can also extend to the labia major, perineum, vestibule, and vaginal introitus. With the exception of bigger lesions, scarring sequelae and deformities typically do not arise. Typically, lesions don't come back. Symptoms such as fever, malaise, tonsillitis, odynophagia, adenopathy, myalgia, headaches, and elevated liver transaminases, similar to those of influenza or 2. mononucleosis, may precede it [6,7].

Although the pathogenesis is unknown, one theory states that it might result from an immune system hypersensitivity to a bacterial or viral infection, which would deposit immune complexes in the dermal vessels and trigger complementary systems that would cause micro-thrombi to form and tissue necrosis. Six weeks is enough time for full healing 4. without scars. It was stated that the recovery period ranged from 5 to 52 days, with a mean of 16 to 21 days [8].

Lipschutz ulcers usually heal on their own and are self-limiting. The major goals of treatment are ulcer healing and pain relief. Antibiotics, topical ster- 5. oids, and analgesics were therefore used to treat

patients in numerous case reports symptomatically. Furthermore, a short course of systemic corticosteroid treatment [9].

the microorganisms linked to Lipschutz ulcer and the pertinent protocols for diagnosis confirmation.

Financial support: None.

Conflicts of interest: None declared.

# **REFERENCES**

- Benito-Vielba M, Pellicer A, Baquedano-Mainar L, Lapresta-Moros M, Colmenarejo F. Forma necrótica de úlcera de Lipschütz. Ginecol Obstet Mex. 2022; 90(10): 864-8.
- Cho KW, Kim SH, Lee JH. Acute vulvar ulcer (Lipschütz ulcer) in a sexually inactive 11yearold girl. Ewha Med J. 2021; 44(1): 26-9. Doi:10.12771/emj.2021.44.1.26.
- Garg T, Yadav A, Chander R, Aggarwal K. Genital ulcer in an adolescent girl. Indian J Sexually Transmit Dis AIDS. 2020; 41(2): 214 -5. Doi: 10.4103/ijstd.IJSTD 11 19.
- Lawson A. (Ed). (s/f). Mariana Moncada-Madrazo, Chloé Altchek, Alla Vash-Margita, Julia Cron. Vulvar Aphthous Ulcers in Perimenarchal Adolescents after COVID-19 Vaccination: A Multicenter Case Series; © 2023 North American Society for Pediatric and Adolescent Gynecology. Elsevier Inc.
- Radhika SR, Shilpa K, Shree Lakshmi HV, Revathi TN. Lipschutz ulcer - Nonsexual acute

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- Paediat Dermatol. 2021; 22(2): 154. Doi: 10.4103/ijpd.ijpd 80 20.
- 6. Balaji Govindan. Lipschütz ulcers: a literature 2016; 2(1):73-8.
- 7. Santana F, Diamantino T, Silva P, Rodríguez L, Diamantino T. Acute genital ulcer in adolescent: clinical case. Residen Pediátr. 2022; 12 Doi:10.25060/residpediatr-2022.v12n3-(3). 432.
- 8. Santos A, Quintana A, De La Cerda Ojeda YF, Bedoya R. (s/f). Lipschütz Ulcer: a Little known cause of acute genital ulcer Pérez Servicio de Pediatría, Hospital Universitario Virgen del Rocío. Sevilla, España.

- genital ulceration in a 10-year-old girl. Indian J 9. Schafer F, Miranda R. Acute genital ulcers in a Young girl: a clinical challenge: Lipschütz ulcer. An Brasil Dermatol. 2022; 97(5): 682-3. Doi: 10.1016/j.abd.2020.12.018.
- review based on 79 cases; EMJ Repro Health. 10. Soto-Fuenzalida GA, Hernández Hernández JA, López-Sánchez RC, Aguayo-Millán CD, Villela-Martínez LM, Espino-Rodríguez M, et al. Tipificación de serotipos del virus del papiloma humano de alto riesgo. Ginecol Ob-Mex. 2020; 88(10):659-66. stet https:// doi.org/10.24245/gom. v88i10.3432.

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