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**Case Report** 

# **Genital Ulcers and Multidrug Resistance**

Akani CI<sup>1\*</sup>, John CO<sup>1</sup>, Abbey M<sup>2</sup>

<sup>1</sup>Department of Obstetrics and Gynecology, University of Port Harcourt, Port Harcourt, Rivers State, Nigeria <sup>2</sup>Department of Obstetrics and Gynaecology, Rivers State University Teaching Hospital Port Harcourt, Rivers State, Nigeria

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\*Corresponding author: Akani CI

Department of Obstetrics and Gynecology, University of Port Harcourt, Port Harcourt, Rivers State, Nigeria

#### Abstract

Chancroid is a sexually transmitted disease (STD) caused by the Gram-negative bacterium Haemophilus ducreyi and is characterised by necrotising genito-perineal ulcers which may be accompanied by inguinal lymphadenitis or bubo formation with possible spread to the thigh. We presented a rare case of a 23year old polytechnic undergraduate who presented to the hospital with complaints of extensive painful ulcer in her vulva for over ten (10) days. On culture of the swab from the ulcer, Haemophilus Ducreyi and E Coli sensitive to Ceftriazone, Ofloxacin and Gentamycin were isolated. Patient was treated with IV Ceftriazone for 5 days and Ciprofloxacin for 10 days with good recovery. The case highlighted the need for increased vigilance in managing genital ulcers in contemporary clinical practices and for carefulness in the choice of a sexual partner and practices among adolescents and young girls.

Keywords: sexually transmitted disease (STD), Genital Ulcers, Multidrug Resistance.

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# **INTRODUCTION**

Genital Ulcerative lesions such as evident on the descriptive photographic features are rare in contemporary clinical practice. Overtime, they are gradually making re-emerging counts in immune compromised patients. This rare case demonstrates how destructive cancroids infection can run when appropriate treatment is delayed or is hard to reach. The microbial isolates were susceptible to the applied antibiotics. Good genital hygiene, prevention of sexually transmitted diseases remain complimentary adjuncts to possible eradication of this scourge.

Sometimes, diagnosis of this dreaded disease becomes extremely difficult as some other isolates of various bacteria are often cultured along side haemophilus ducreyi. Also, viral and even fungal organisms may be isolated in the same patient when appropriate multiple lines of investigation are employed, especially in the very highly sexually active women [2, 3]. Also, other forms of genital ulcers may also make the express diagnosis of chancroid confusing, hence warranting the use of multiple drug regimen that may not be even helpful in curing the chief organism [4]. Such Florid Ulcerative lesions become aggressive in the face of multidrug resistant gram negative bacteria in which circumstance the old antibiotics emerge as last resort [1].

Appropriate empirical therapy has been shown to be strongly associated with better clinical results[8].

### **CASE REPORT**

Miss C. N. is a 23year old polytechnic undergraduate who presented to the University of Port Harcourt accident and emergency department from a rural hospital following complaints of extensive painful sore in her genital area for over ten (10) days. This had traumatized her physical health and caused her some psychological depression.

The sore followed an unprotected sexual intercourse with a partner who had a suspected penile wounds. She had low grade fever, punctuate rashes on the thighs and perineum.

She had various medications, oral and injectable antibiotics for over 12 days but the ulcer

continued to extend, with painful edges and copious purulent discharge. She had dysuria and discomfort while walking. She presented to the hospital when the medications failed to offer relief [7, 8].

On examination she had an infected genital ulcer with copious virginal discharge and tender inguinal lymph modes coupled with some postural lesions on the thighs and perineum. The ulcer edges were painful.



Fig-1: The Chancroid Ulcer on presentation



Fig-2: Improving on treatment

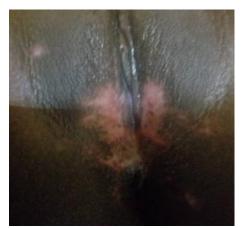


Fig-3: Well healed and discharged

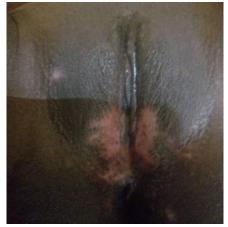


Fig-4: Good healing with Hypopigmented patches

She was admitted into the gynaecology ward, her vital signs were stable. She received intravenous ceftriaxone 2grams daily for 5 days and Tabs Ciprofloxacin 500mg 12 hourly for 10 days. She made remarkable response to therapy and genital toileting + sitz bath. Her full blood count was normal. The serology for Human Immunodeficiency virus 1 & 2 were negative. The serum electrolyte, urea, creatinine and uric acid were all within normal range. Her urine microscopy, culture and sensitivity yielded moderate growth of E-coli. A chocolate Agar culture of the swab from the ulcer yielded growth of Haemophilus Ducreyi. Good healing of the ulcer was achieved, and she was discharged on the 25<sup>th</sup> day following admission.

#### DISCUSSION

Chancroid is characterized by painful, necrotizing genital ulcer and lymphadenopathy. This disease is highly contagious, but curable. Haemophilus dureyis, a fastidious gram negative cocco bacillus, an opportunistic microorganism is the causative agent.

Miss CM had contact with an open penile sore in a sexual encounter, she also admitted to substance abuse, although she was HIV sero negative.

Culture of the ulcer is currently considered the gold standard or bench mark using chocolate Agar. The culture was done and it yielded Haemophilus Ducreyi sensitive to Ceftriazone. Candida Albicans and also E coli sensitive to Ceftriaxone, Ofloxacin and Gentamycin were also isolated. Chronic or untreated chancroid infections are more difficult to treat as in this case. Protracted treatment failure before seeking appropriate medical attention was noted in the patient [8].

This case highlights the need for social awareness, improved changes in sexual habit and practices among adolescents and young people[9]. Above all this calls for increased vigilance in managing genital ulcers in contemporary clinical practices.

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