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An Exorbitant Review Inquiry of Appreciation of Syphilis in Juvenile Age Boy's Procedding MSM Demeanor

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ABSTRACT:

The purpose of the current review is to determine whether there is any evidence of syphilis in juvenile age boy's who are acting in an MSM manner. Due to high risk sexual activities and meta analysis to determine the world frequency of Syphilis among Men who have manhood with men, Syphilis is a sexually transmitted infection that offers a chronic condition, particularly for men who have manhood with men.

To recognise other health issues, such as neuralgic (brain and nerve) issues, eye issues, blindness, etc.

Keywords: Syphills, juvenile age boys, penicillin, second line drug.

I. INTRODUCTION:

The bacterial treponema pallidum is the source of the sexually transmitted infection (STI) known as syphilis. A significant population that is disproportionately plagued by syphilis is men who have manhood with men. The MSM population is more susceptible to syphilis transmission because of its sexual practises and social dynamics. Multiple sexual partners, unethical sexual behaviour, overlapping sexual networks, substance abuse, and restricted access to testing, information, and regimen are some of the factors that increase the risk of syphilis among MSM. Males who have sex with other males, due to their sexual orientation. are said to utilise this word. Prevalence is the proportion or percentage of an estimated population that, gradually, has a given illness or disease. The amount or equivalent of people who have syphilis within a population is referred to as the syphilis prevalence.

II. MATERIALS AND METHODS:

The diagnosis test available for screening syphilis [Andre's F Henano Martinez] .The effective regimen Protocols for syphilis by using newer drugs administration [Rosanna W .David Mabey]. The early syphilis regimen by utilizing the efficacy of parentral penicillin [Meredith E Clement]. The health care system strategies for current men with men demeanor [Kenneth H .

Mayers]. Syphilis spread during Transmission of blood products [Juliet E stolty].

Penicillin:

Penicillin has been the mainstay of syphilis therapy since it became commercially available in the late 1940s. Although its efficacy was never proved in a randomised controlled experiment, it wasclearly considerably exceptional to all previous remedies, and T. pallidum resistance to it was eliminated.



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Penicillin has never been reported. Because T. pallidum segregates more dileberately than most bacteria, it is necessary to keep penicillin levels in the blood above the minimum inhibitory concentration for 10 days. This can be accomplished by administering a single intramuscular injection of long-acting benzathine penicillin G (which has the advantage of not requiring patient adherence to a long-term regimen).

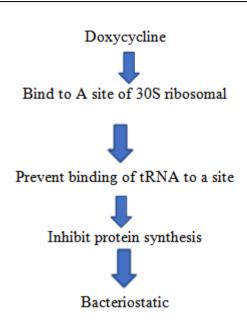
Patients with a Penicillin Allergy:

The majority of patients (9%) who report to be allergic to penicillin actually have it confirmed when properly tested. Penicillin is safe to administer to the great majority of patients who think they are allergic to it. Only in the case of a condition like syphilis, where there is no practical option, is this important. About 80% of people will no longer be sensitive to penicillin after ten years, even those with a well-established Ig E-mediated allergy.

Second-line regimen:

Doxycycline or ceftriaxone should be used to treat patients with penicillin allergies. (Although penicillin allergy sufferers are more likely to have a cephalosporin allergy.)

Mechanism of action:

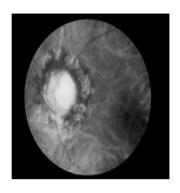


Indications:

- 1. Neurosyphilis:
- severe headache,
- muscle weakness and/or trouble with muscle movements,
- changes to your mental state (trouble focusing, confusion, personality change) and/or mental illness (problems with memory, thinking, and/or decision making).
- 2. Ocular syphilis:
- eye pain and/or redness, changes in your
- vision or even blindness.
- 3. Otosyphilis:
- hearing loss,
- ringing, buzzing, roaring, or hissing in the ears ("tinnitus"), dizziness or vertigo (feeling like you or your surroundings are moving or spinning).









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WHO Guidelines:

- The therapy of choice is benzathine penicillin administered intramuscularly.
- The second regimen is procaine penicillin, which is injected intramuscularly for 10 to 14 days.
- Tetracycline, Azithromycin, or ceftriaxone are alternate options if penicillin cannot be used.
- The best drug is doxycycline because it is affordable and simple to use. however, kids shouldavoid using it.

Regimen / Management:

A single intramuscular (IM) dose of 2.4 million units of benzathine penicillin G is used to treat primary, secondary, or early latent syphilis. The treatment for neurosyphilis involves administering IV penicillin G aqueous 18–24 million units each day for 14 days.

An alternative regimen would be Procaine penicillin G 2.4 million units intramuscularly once daily AND Probenecid 500 mg orally four times/day for 10–14 days.

Patients with tertiary and latent syphilis as well as HIV infection should receive weekly benzathine penicillin G doses of 2.4 million units intramuscularly (IM) for three weeks. Doxycycline 100 mg PO twice daily for 14 days, ceftriaxone 1 to 2 gm IM or IV daily for 10 to 14 days, or tetracycline 100 mg PO four times are examples of alternative regimens.

Ways of syphilis spread:

- Explict unity with a syphilis sore during anal or oral intercourse can cause syphilis.
- A pregnant woman's unborn child can get syphilis from her syphilis-positive father.
- You cannot contract syphilis by casually touching items like ablutionbowl, doorhandle, hot tubs, swimming bath, bathrobe, exchanging clothing, or dining utensils.

Exorbitint Syphilis:

Benzathine penicillin should be administered if a person has sex with a known infected individual.

Organ system does syphilis affect:

Syphilis Without regimen, syphilis can spread to

the brain and nervous system (neurosyphilis), the eye (ocular syphilis), or the ear (otosyphilis).

Health care:

Syphilis has been diagnosed, and since the virus can damage practically every organ in the body, management is done by a multidisciplinary team. Cardiologists, neurologists, dermatologists, internists. primary care physicians. ophthalmologists, and others must closely monitor these individuals. Gynaecologist, urologist, and expert in infectious diseases. To ensure that the regimen is effective and the patient is adhering to the prescribed course of action, the patient must be evaluated by an infectious disease expert, gynaecologist, urologist, or primary care physician. The patient's companion should be inspected and given any appropriate regimens.

Education of patients is essential, and the public health team, which includes clinicians, terapist, and chemists, should advise patients on safe sexual behaviour and the potential risks of using IV drugs, which can be reduced by using clean needles. Numerous cities now provide needle exchange services. Additionally, terapist need to promote routine screening for STDs among the general public. It is very advised that you use condoms as a barrier. Patients should be informed by chemists that STDs have excellent regimens and that the earlier they are addressed, the better the results will be. They should also be reminded of the best preventative measures.

Transmission via blood products and organ donation:

Blood transplants have in the past been used to transmit syphilis, although it is now thought to be extremely uncommon thanks to screening of the blood supply and refrigeration of blood products.

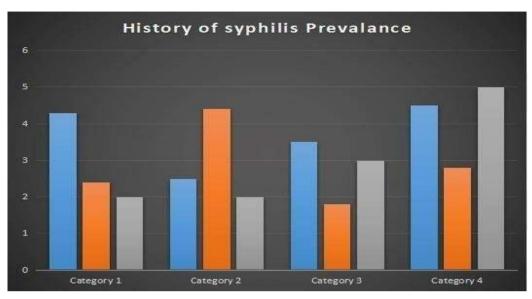
Recent publications include information on the results of transplant patients who received organs from syphilis-positive donors.

Passing on:

There were reports of extragenital syphilitic sores on the fingers and nose of physicians prior to the customary practise of employing gloves.



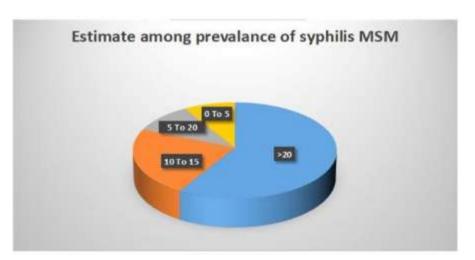
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Category-1: Eastern Asia and South eastern AsiaCategory-2: Latin America and Caribbean

Category-3: Overall other countries

Category-4: Northern Africa and Western Africa





Estimation in South Africa and Europe has greater than 20% of syphilis prevalence



Listimation in West Africa and Central America has 10 to 15 % of syphilis prevalence.



Estimation of Caribbean, Tonga and Solomon Island has 5 to 10 % of syphilis prevalence. Estimation of Marituis and Timor Leste has 0 to 5 % of syphilis prevalence.

III. **CONCLUSION:**

Syphilis among men who have manhood with men continues to be a significant public health concern in terms of prevalence. While syphilis is a sexually transmitted infection that can affect individuals of any sexual orientation, the prevalence is notably higher among MSM populations. Syphilis among men who have manhood with men

continues to be a persistent issue in terms of prevalence. It requires continued attention, resources, and collaboobrative efforts to effectively reduce transmission, increase testing, and ensure timely regimen.



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REFERENCE:

- [1]. Author manuscript; available in PMC 2018 May 29.Published in final edited form as: Sex Health. 2015 Apr; 12(2): 103–109 PMCID: PMC5973824NIHMSID: NIHMS969592PMID: 25702043 Syphilis transmission: a review of the current evidence Juliet E. Stoltey A, C and Stephanie E. CohenB.
- [2]. Neurol Clin Pract. 2014 Apr; 4(2): 114–122. doi:10.1212/01.CPJ.0000435752.17621.4 8 PMCID: PMC4999316PMID: 27606153 Diagnostic tests for syphilis New tests and new algorithms Andrés F. Henao-Martínez, MD corresponding author and Steven C. Johnson, MD.
- [3]. JAMA. Author manuscript; available in PMC 2019 Aug 12.Published in final edited form as: JAMA. 2014 Nov 12; 312(18): 1905–1917. doi: 10.1001/jama.2014.13259
- [4]. PMCID: PMC6690208NIHMSID: NIHMS1030656PMID: 25387188
 Regimen of Syphilis A Systematic Review Meredith E. Clement, MD, N. Lance Okeke, MD, and Charles B. Hicks, MD.
- [5]. Sex Transm Dis. Author manuscript; available in PMC 2019 Sep 1.Published in final edited form as: Sex Transm Dis. 2018 Sep; 45(9): S38–S41. doi: 10.1097/OLQ.000000000000000815 PMCID: PMC6093307NIHMSID: NIHMS943478PMID: 30106386 Old pathogen, new challenges: a narrative review of the multi-level drivers of syphilis increasing in American men who have sex withmen Kenneth H. Mayer, MD
- [6]. Nat Rev Dis Primers. Author manuscript; available in PMC 2018 Oct 12.Published in final edited form as:Nat Rev Dis Primers. 2017 Oct 12; 3: 17073. Published online 2017 Oct 12. doi: 10.1038/nrdp.2017.73 PMCID: PMC5809176NIHMSID: NIHMS940015PMID: 29022569 Syphilis Rosanna W. Peeling,1 David Mabey,1 Mary L. Kamb,2 Xiang-Sheng Chen,3 Justin David Radolf, 4 and Adele Schwartz Benzaken5.
- [7]. Rosanna W. Peeling1, David Mabey1, Mary L. Kamb2, Xiang- Sheng Chen3,

- Justin D. Radolf4 and Adele S. Benzaken5 Correspondence to R.W.P. London School of Hygiene & Tropical Medicine, Keppel Street, London WC1E 7HT, UK. rosanna.peeling@lshtm.ac.uk Article number: 17073 doi:10.1038/nrdp.2017.73 Published online 12 Oct 2017.
- [8]. NCBI Bookshelf. A service of the National Library of Medicine, National Institutes of Health. StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2023 Jan-. Doxycycline Hyclate Authors Reema S. Patel1; Mayur Parmar2. Affiliations 1.Nova Southeastern University 2.Nova Southeastern University Last Update: January 17, 2023.
- [9]. Motoyuki Tsuboi, MD Jayne Evans, MSc † Ella P Davies, MBChB † Jane Rowley, PhD] Eline L Korenromp, PhD Prof Tim Clayton, MScet al. Show all authors Show footnotesOpen AccessPublished:July 08, 2021.
- [10]. Author Reema S. Patel 1; Mayur Parmar 2, Affiliations, 1. Nova Southeastern University 2. Nova Southeastern University Publication History Last Update: January 17, 2023. Publisher StatPearls Publishing, Treasure Island (FL).
- [11]. Author Maria E. Tudor1; Ahmad M. Al Aboud2; Stephen W. Leslie3; William Gossman4. Publication History Last Update: November 28, 2022. Publisher StatPearls Publishing, Treasure Island (FL).