# STIs: Practical Aspects of

## <u>Management</u>



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## **Sexually Transmitted Infections**

#### BACTERIAL STIS:

- CHLAMYDIA
- GONORRHOEA
- SYPHILIS
- Mycoplasma genitalium

#### PROTOZOAL STIs:

Trichomonas

#### VIRAL STIs:

- HPV- warts
- HSV genital ulcers
- Molluscum contagiosum
- Hepatitis A,B,C
- HIV

#### OTHER VAGINAL DISCHARGE SYNDROMES:

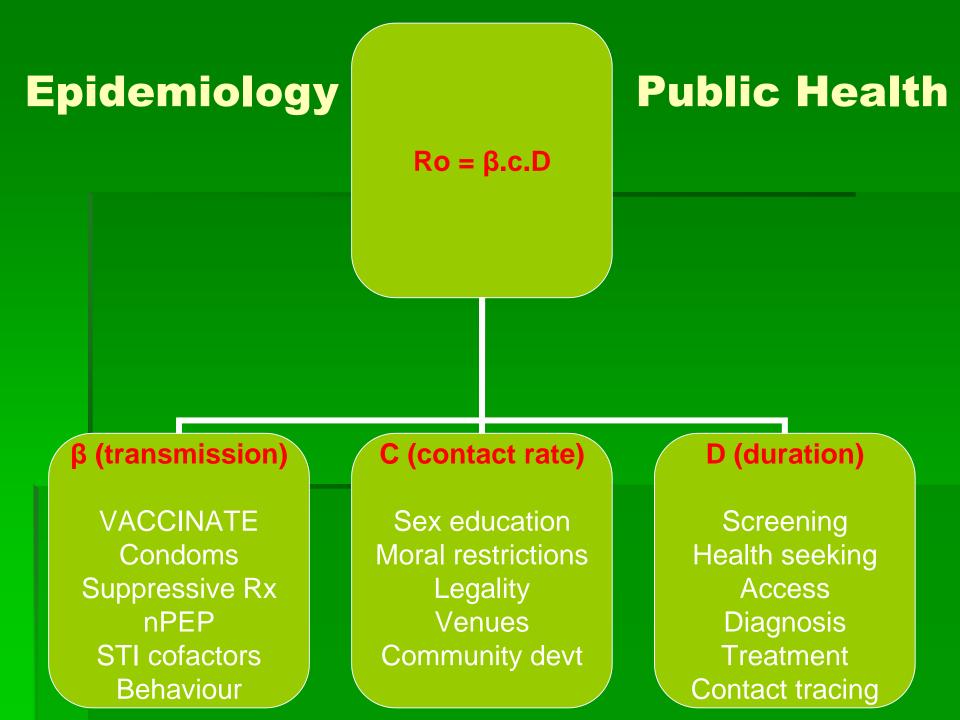
- Bacterial vaginosis
- Candidiasis
- Foreign bodies
- (DIV)

#### INFESTATIONS:

- Scabies
- Pubic lice

#### NOTIFIABLE STIs

- Congenital syphilis
- Neonatal Gc eye infections
- Acute hepatitis A,B,C
- AIDS



# Primary Care-oriented resources

***	The New Zealand The New Zealand The New Zealand Thursday 9 to Saturday 11 September	www.nzsh.org
	Sexual Health Society JAMES COOK HOTEL, WELLINGTON 32nd Annual Conference 2010 Conference	wwwinzsmory
NZSHS	Member Login	
Home	Introduction	
Membership	The New Zealand Sexual Health Society (NZSHS) Incorporated is a group of professionals working or interested in the field of Sexual Health. Membership is multidisciplinary and	
Guidelines	includes doctors, nurses, counsellors, educators, health promoters and others in Public Health working in the field of sexually transmissible infections, including HIV/AIDS, and sexual and	
Info sheets	reproductive health.	
Conferences	The New Zealand Sexual Health Society Inc. was formerly the New Zealand Venereological Society (NZVS). This change occurred in 2006 to more fully express the wider aims of this	
History	society.	
Línks	The Society become Incorporated in April 2010.	
Contact us	Guidelines on the diagnosis and treatment of sexually transmitted infections can be found here as well as pdf's of presentations from our 2008 conference in Dunedin.	
Legal	Objectives of the society	
Sitemap	<ul> <li>To advocate for and promote Sexual Health for all in New Zealand.</li> <li>To promote high standards of clinical practice within Sexual Health in New Zealand</li> <li>To promote the speciality of Sexual Health amongst colleagues and peers</li> <li>To encourage research within New Zealand with regard to Sexually Transmissible Infections (STIs).</li> <li>The Society organises an annual conference, which includes an Annual General Meeting (AGM) and an academic programme. The Society's executive committee is elected at the</li> </ul>	
	<ul> <li>AGM. Members must be financial to participate in the AGM or at Special General Meetings.</li> <li>Activities <ul> <li>Promoting STI/HIV prevention and Sexual Health for all through education</li> <li>Acting as advocates for those most at risk of STIs and HIV/AIDS</li> <li>Ongoing central lobbying to ensure an continued commitment to the tenets of Sexual Health including free, confidential and widely available specialist clinical services</li> <li>Regular education forums for health professionals to provide ongoing education and support</li> <li>Advisory role to the Ministry of Health and other government agencies in relation to proposed legislative or policy changes affecting Sexual Health</li> <li>Monitoring the epidemiology of STIs and HIV/AIDS, and hence lobbying for appropriate intervention strategies</li> <li>Promoting the implementation of health education programmes</li> <li>Promoting the development of national guidelines for STI management</li> <li>Informing and updating NZSHS members through the NZSHS Bulletin</li> </ul> </li> </ul>	
11-12-12-14		

#### NEW ZEALAND HERPES FOUNDATION

ES.

Guidelines for the Management of Genital Herpes in New Zealand

9th Edition - 2009

Produced by the Professional Advisory Board (PAB) of the Viral Sexually Transmitted Infection Education Foundation

## www.herpes.org.nz



The New Zealand HPV Project

Guidelines for the Management of Genital HPV in New Zealand

6th Edition - 2010

Produced by the Professional Advisory Board (PAB) of the New Zealand HPV Project

## www.hpv.org.nz

#### General Practitioners and HIV

This supplement incorporates recommendations of the National HIV Testing Policy, 2006

#### Introduction

The manifestations of human immunodeficiency virus (HIV) first became apparent in the evily 1980s with reports of an epidemic of unexplained cases of immunodeficiency, first in the United States of America (USA) and then elsewhere in the Western world. Epidemiological evidence suggested that the cause was transmissible through sexual or blood contact or both, and in 1984 the agent was identified as a retrovirus which is now known as HIV.

In Australia, by the end of 2008, 28:330 new clagnoses of HV infection had been notified since the start of the epidemic, in addition to 10 346 cases of acquilled immunodeficiency syndrome (AIDS) of 56 AIDS-related death: The prevalence of HIV infection is highest in men who have sex with men (MSM) in Australia. There is a very low prevalence of HIV infection in Australia in those whose only risk behaviour is heterosexual contact compared to many countries in the Asia-Pacific region. Hence, the risk of HIVInfection occurring through heterosexual contact or sexual assault in Australia is low compared to that in high HIV prevalence countries, though it does still occut:

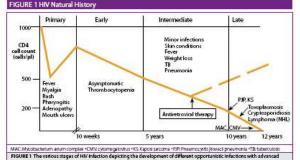
Early diagnosis of patients with HIV infection allows regular monitoring and timely intervention in terms of therapy when required which may markedly alter the natural history of HIV infection. Knowledge of the chical signs and symptoms of primary HIV infection, as well as performing HIV testing with consent when appropriate, enable earlier HIV diagnosis by clinicians and provide patients with opportunities for receiving appropriate referral, support and education on transmission prevention, in addition to therapy when required.

#### The Virus

HV is a single-stranded ribonucleic add (RNA) virus. It has an outer envelope that surrounds two copies of single-stranded RNA as well as a number of vital proteins. The HIV replication commences when the envelope 12 oglocoprotein (gp 120) attaches to CD4 receptors expressed on the surface of lymphocytes. Attachment allows fusion of the membranes of virus and cell at viral entry. The RNA is converted to deoxyribonucleic add (DRM) which migrates to the cell nucleus and integrates as proviral DNA. Into the host cell DNA.<sup>2</sup>

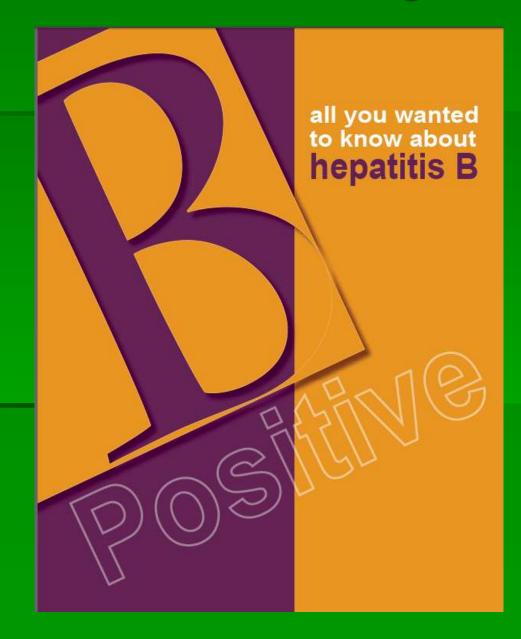
#### Natural History

Following infection with HIV, there is a period of highlevel vitaemia associated with a reduction in the CDL cell court. A host immune response then develops, partially controlling viral replication, but is unable to dear HIV from the body. The majority of patients develop a mononucleosis-like HIV seroconversion liness characterised by fever, pharyngits, lymphadenopathy, rash, splenomegaly and aseptic meningits. Other patients with HIV infection may either be asymptomatic or have subclinical liness, symptoms of acute infection resolve as the immune system mounts an antiviral response that causes the viral load to decrease markediv. Simultaneousk, there



Immunodeficiency and the impact of antiretroviral therapy on CD4 cell court recovery.

### www.ashm.org.au





BESTPRACTICE 25



Infectious gastroenteritis Generalised anxiety disorder HIV

Smoking associated cancers



## **Other resources**

- NZ Doctor: Sexual Health Column
- Doctors for Sexual Abuse Care: Management of sexual assault manual, training + publications
- Ministry of Health website: HIV testing
- Sexual Health Clinics
- Infectious Diseases/Microbiology

## **All STIs**

- Treat empirically in symptomatic individuals
- Advise abstinence until client + partner/s completed Rx
- Provide condoms
- Contact trace
- RESCREEN at epidemiologic interval (3 months)
- Do NOT do tests of cure unless pregnant\*

 A sexual health screen includes blood tests for HBV (Ab and Ag), syphilis and HIV +/- others as appropriate

# Chlamydia: Emergent Trends

- Azithromycin is safe throughout pregnancy
- Opportunistically screen all clients <25 yrs with a female low vaginal swab or male FVU
- Treat ANY lower abdominal pain as PID with 14 days of Chlamydia, GC + anaerobic antibiotic cover (syndromic Rx)

6 HEALTH

Chlamydia

Management Guidelines

- Treat rectal chlamydia with doxycycline and \*do a TOC as LGV proctitis has appeared in NZ
- Adult chlamydial conjunctivitis can now be treated with a single stat dose of azithromycin

#### DISEASES COMMONLY ASSOCIATED WITH SEROTYPES OF C. TRACHOMATIS

SEROTYPE A, B, Ba, C B, D-K L1, L2, L3

DISEASE

Endemic trachoma Genitourinary disease LGV

 LGV has emerged as an "anorectal syndrome" in MSMs (as opposed to the classic inguinal syndrome)

 This usually presents as an acute proctitis but some cases may be asymptomatic or mildly symptomatic
 A. Robertson *et al* Sexual Health 2008

# **Chlamydia: The Future**

- Variant strain nvCT emerged in Sweden 2006
- Arrested immunity hypothesis? Unproven
- Vaccine? A long way off
- New laboratory tests eg genotyping for LGV
- Push for integrated antenatal screening guidelines!!!

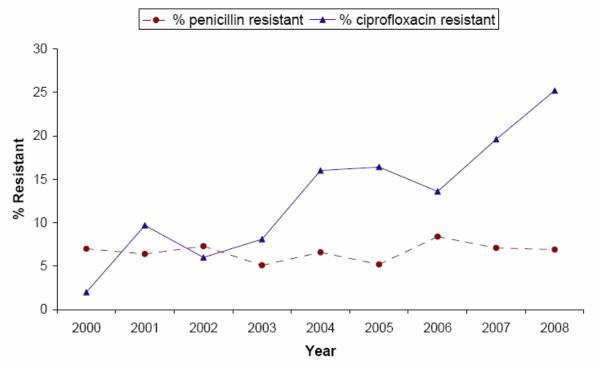
(140 cases of Chlamydia and 6 cases gonorrhoea reported in infants < 1 year in 2009)

www.esr.cri.nz

# Gonorrhoea: Emergent Trends

### Ceftriaxone is now first line treatment for gonorrhoea

Figure 14. Prevalence of penicillin and ciprofloxacin resistance among *N. gonorrhoeae*, 2000 to 2008

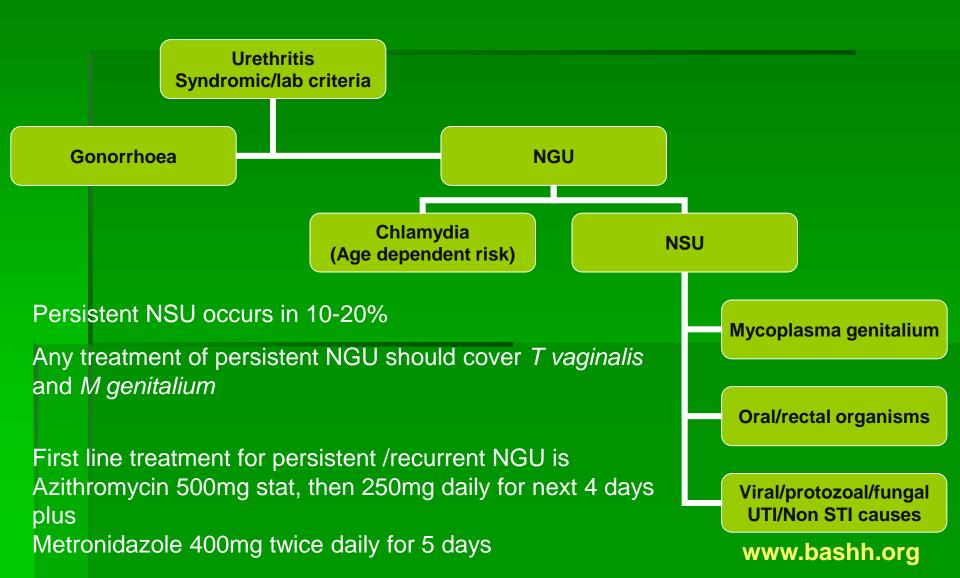


www.esr.cri.nz

# **Syphilis: Emergent Trends**

- Infectious syphilis has risen ++ in NZ amongst MSMs with a secondary rise in the heterosexual population both from sex overseas and now within NZ
- The majority is in Auckland + Wgtn + ChCh
- Oral route of infection is emerging as important, age > 40 years, European ethnicity
- HIV coinfection is increasingly common
- Urgent enhanced surveillance is required
- Refer for advice
- Repeatedly screen HIV+ve individuals





## **Contact Tracing**

- Patient (index case referral)
- Provider referral

## **Other Strategies**

- Patient-delivered testing
- Patient-delivered treatment
- Presumptive treatment

### AUSTRALASIAN CONTACT TRACING MANUAL

A practical handbook for health care providers managing people with HIV, viral hepatitis, other sexually transmissible infections (STIs) and HIV-related tuberculosis.



**EDITION 3 2006** 

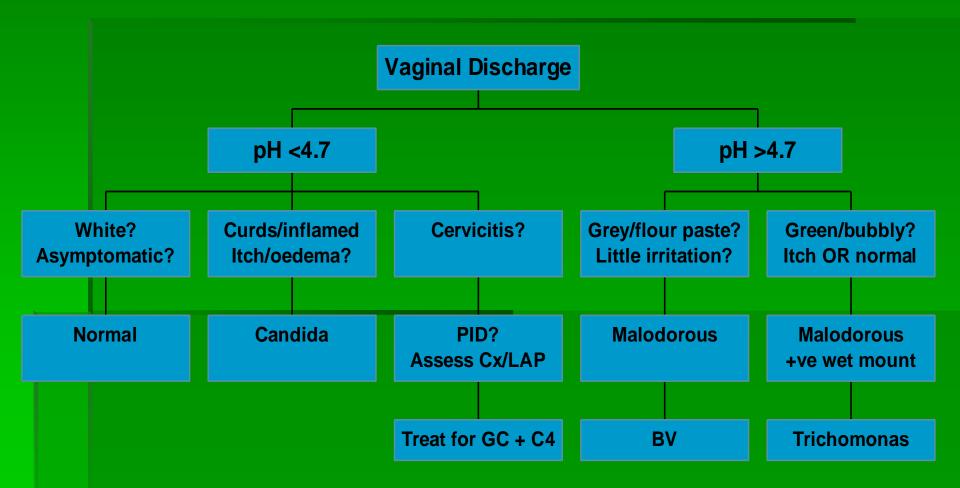
#### www.ashm.org.au

## Summary

 For patient referral method provision of written material (contact sheets) and basic skills training is preferred

- Have a check in place to ensure partner/s attendance
- Treat contacts IRRESPECTIVE of negative test results
  - Text messaging services are acceptable to adolescents
- The legality of PDPT is not established, so caution
- For provider referral utilise health advisors/public health

# **Useful Clinical Algorithm**



# Thank you

### Acknowledgements

### Dr Edward Coughlan

