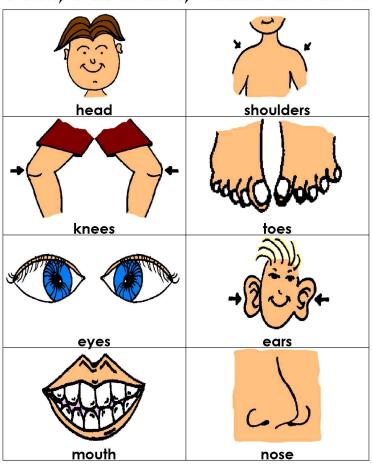
Extragenital manifestations of STIs

Head, Shoulders, Knees and Toes



Dr. Sarah Schoeman Consultant GUM





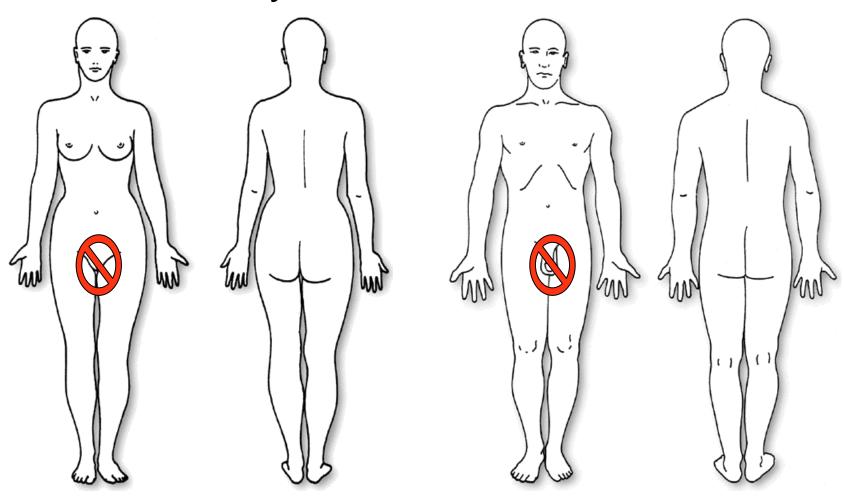
This session

Aware of & able to recognize some common extra-genital manifestations of STIs (NB we've only got 30 minutes!)

STI diagnosis & management

Complications of vertical transmission

2 minutes to label your 'diagram' with as many extra-genital manifestations of STIs as you can think of!



STIs and inequalities

The impact of STIs remains greatest in:



young heterosexuals aged 15 to 24 years



black minority ethnic populations



gay, bisexual and other men who have sex with men (MSM)



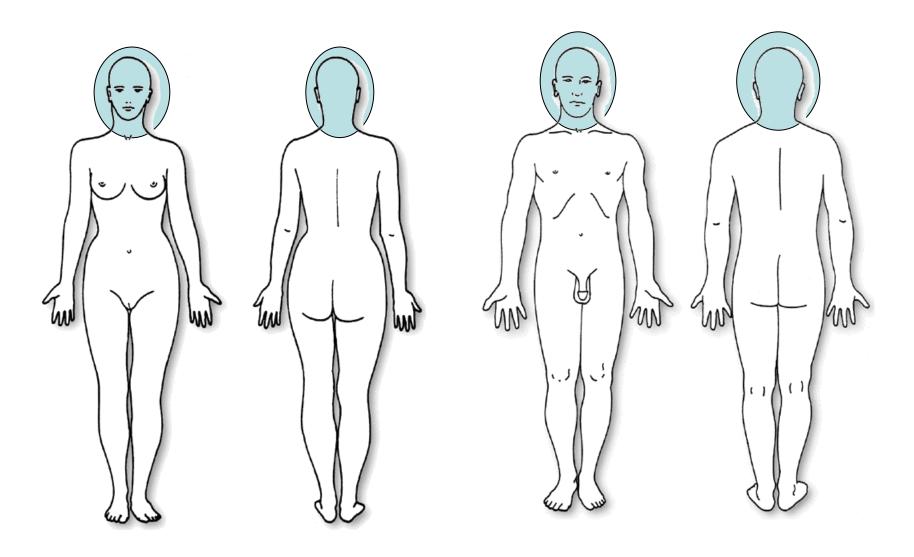
people in the most deprived deciles



Young people

experience the highest diagnosis rates of the most common STIs

Head



Adam, 35yrs

- General malaise & recent 'hearing problems'
- Abnormal LFTs
- O/E Alopecia, maculo-papular rash, painless healing ulcers on forearm & sensorineural hearing loss

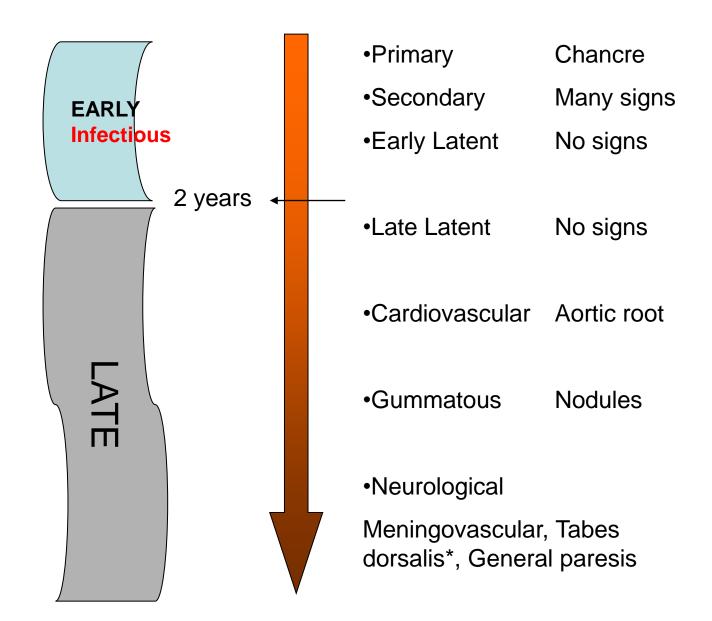


Which SII does Adam have?

Syphilis

- Name originates from a poem about an infected shepherd, Syphilis, written in 1530
- Delicate spiralled spirochete, obligate human parasite
- Sexually transmitted via tiny abrasions in skin (usually mucosal)
- Can also be transmitted transplacental, bloodborne
- Highest number of cases recorded in 2023 in England since 1948 & larger proportional increase in diagnoses among <u>heterosexuals</u> than MSM

Stages of Syphilis



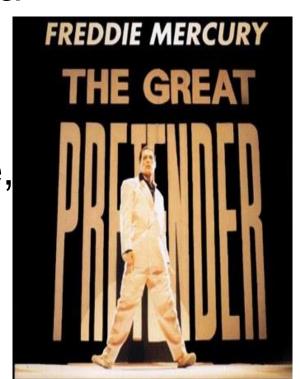
Primary syphilis





Secondary syphilis

- Constitutional malaise, fever, headache, anorexia, myalgia
- Skin lesions typically extensive macularpapular rash, condylomata lata
- Lymphadenopathy
- Alopecia patchy / diffuse
- Hepatitis, nephrotic syndrome, glomerulonephritis
- Iritis, uveitis, optic neuropathy
- Meningitis, deafness etc!!!!





Tertiary Syphilis

Cardiovascular – aortic aneurysum, AR,

conduction defects

- Neurosyphilis
 - Meningovascular
 - GPI
 - Tabes dorsalis



Gummatous – nodules or nodulo-ulcers

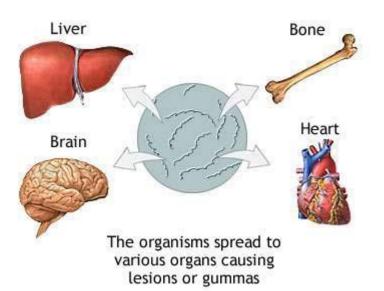








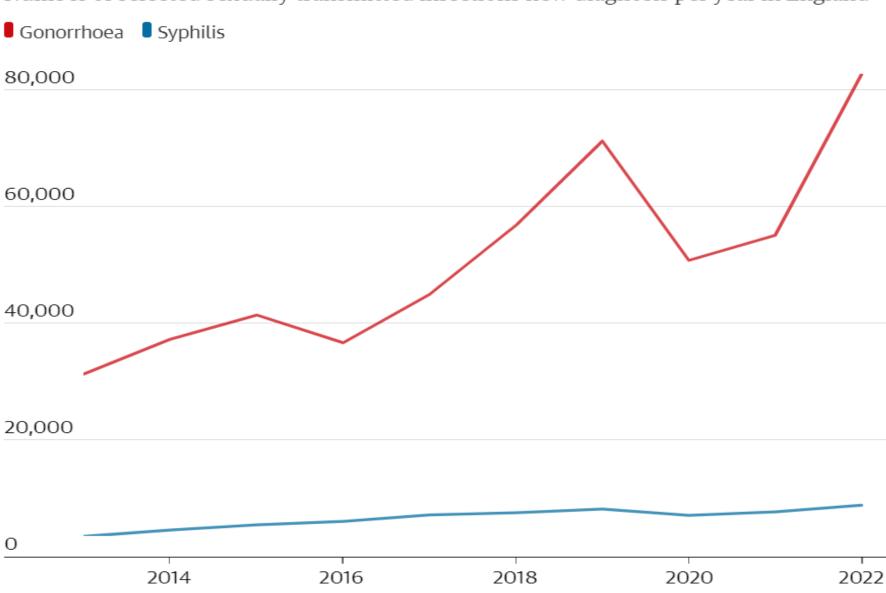






Gonorrhoea and syphilis diagnoses have risen by a record amount

Number of selected sexually transmitted infections new diagnosis per year in England



Guardian graphic | Source: UKHSA



Protecting and improving the nation's health

Addressing the increase in syphilis in England: PHE Action Plan

June 2019

Maintain medical professionals' awareness and knowledge of syphilis

- Challenges in syphilis diagnosis occur because cases may present with nonspecific symptoms, or to non-STI specialist services, which may delay diagnosis. Health professionals engaging with MSM, pregnant women and young children should be alert to recognising the signs and symptoms of all stages of syphilis.
- 2. Professional bodies should ensure clinicians and medical professionals are aware of the various presentations of syphilis, and where to find additional information on diagnosis, treatment and partner notification. The Royal College of Paediatrician's Infant Branch's new guidance on infection testing in neonates and infants is in preparation. A list of resources from professional organisations is provided in the Appendix.

Improve and share epidemiological intelligence

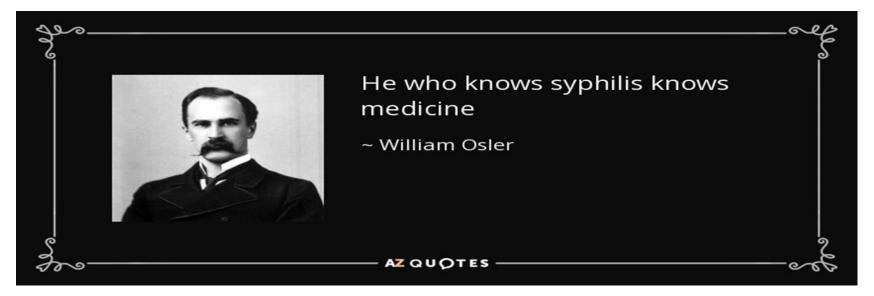
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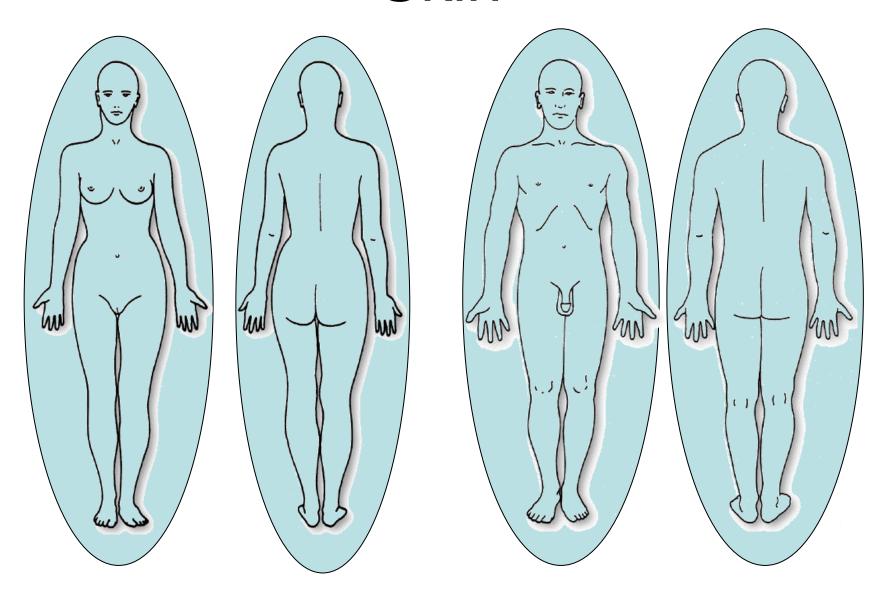
Improve and share epidemiological intelligence

Recent secondary syphilis cases missed by other specialties

- Opthalmology
- Dermatology
- Neurology
- Haematology



Skin



Ben, 24yrs

- Fever
- Sore throat
- Lymphadenopathy
- Maculopapular rash

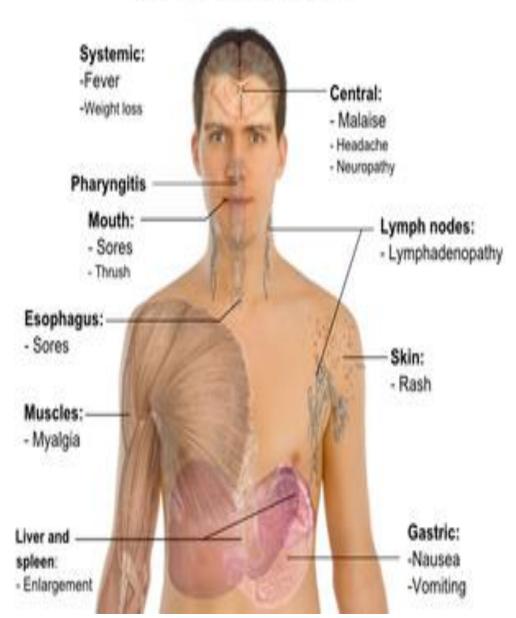




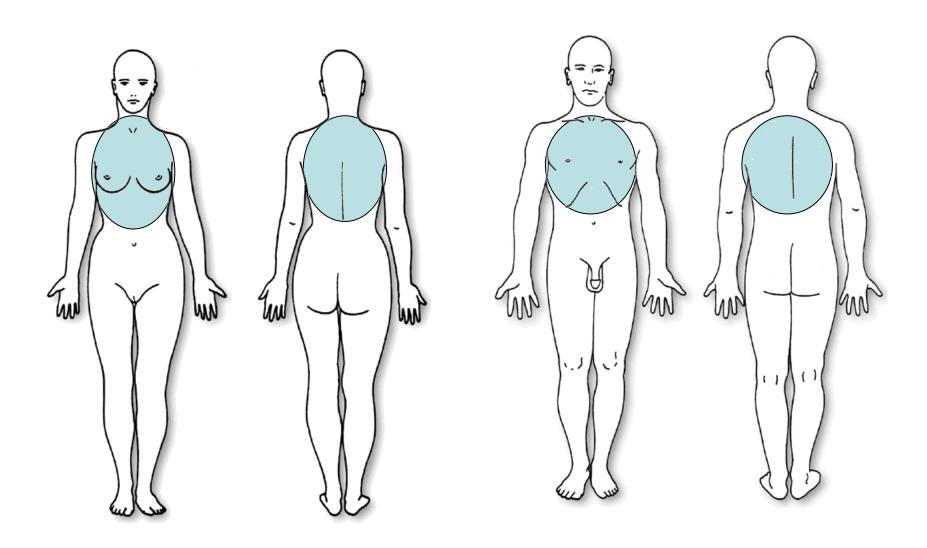
have?

Acute HIV infection

- Prevalence-30-93%
- Symptoms
 usually 2-6 w
 post infection &
 last 5-10 d
- Diagnosis –
 HIV Ab/Ag



Thorax



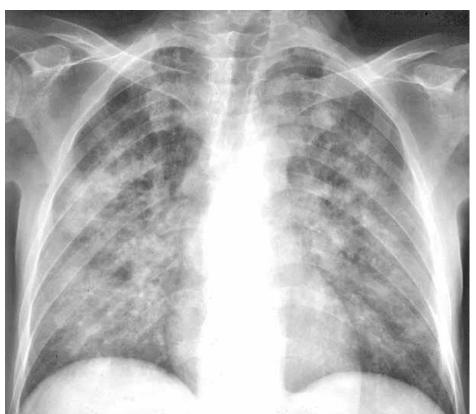
Chris, 72yrs

- Fever
- Weight loss
- Sore mouth
- SOBOE & dry cough weeks (COVID test +ve)
- 'Bruising'

Which STI does Chris have?



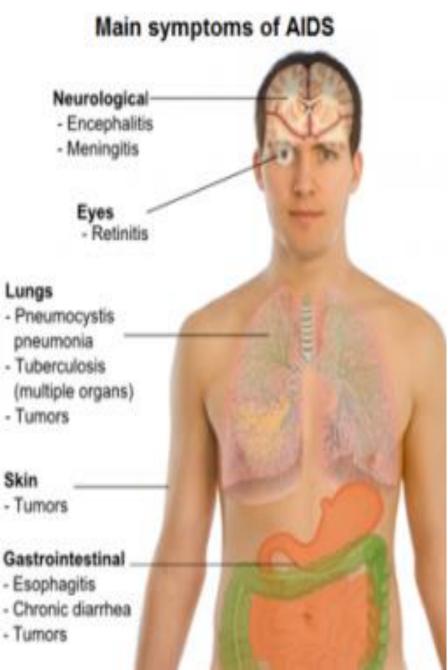














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Pneumocystis pneumonia, a COVID-19 mimic, reminds us of the importance of HIV testing in COVID-19

Sophie Kelly, Laura Waters, Muge Cevik, Simon Collins, Joe Lewis, Meng-San Wu, Tom J Blanchard and Anna M Geretti

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DOI: https://doi.org/10.7861/clinmed.2020-0565

Clin Med November 2020

ARTICLE

FIGURES & DATA

INFO & METRICS

ABSTRACT

While clinical environments are highly focused on COVID-19, reports of missed or delayed treatment for conditions that imitate COVID-19, such as pneumonia caused by the fungus *Pneumocystis jirovecii*, are emerging. Given the

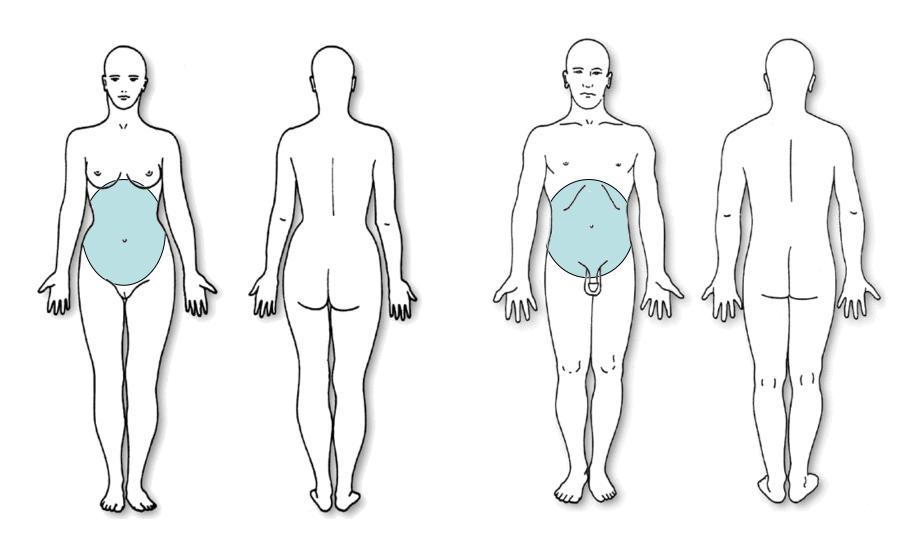
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PDF

Abdomen & GI tract



Dee, 27yrs

- Fever
- Acute, severe RUQ pain radiating to back and shoulder tip worse on inspiration





Which STI does Dee have?



Perihepatitis (Fitz-Hugh-Curtis syndrome)

- Inflammation of hepatic capsule 'violin string' adhesions between the anterior liver surface & abdominal wall / diaphragm
- Most due to peritoneal / lymphatic spread of pelvic CT or GC
- 10-20% of women with PID
- RUQ +/- pelvic pain
- GC haematogenous spread possible
- Treat as for PID

Peri-appendicitis

- Direct spread of infection from R fallopian tube to appendiceal serosa
- Tubo-appendiceal mass develops
- 2-10% acute appendicitis in women
 - –25-50% linked to tubal inflammation

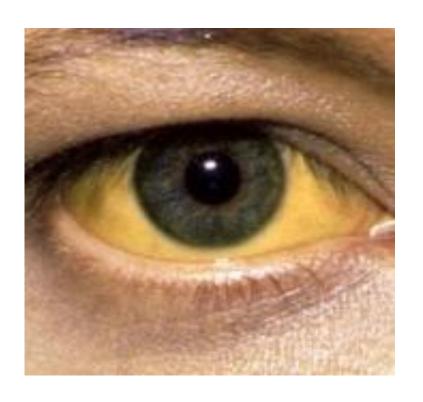


Ewan, 33yrs

- Fever
- Diarrhoea & vomiting
- Icteric sclera, 'tanned'
- Abnormal LFTs

Which STI does Ewan have?









Frank, 64yrs

- Persisting change in bowel habit
- Rectal pain, bleeding, urgency & loose stools
- Weight loss
- Recently diagnosed with UC and started on mesalazine

• Which STI does Frank have?









Lymphogranuloma venereum (LGV)

- LGV is caused by one of three invasive serovars (L1, L2 or L3) of Chlamydia trachomatis.
- L2 is the main serovar causing the current outbreaks in Europe and North America.
- Since 2003 there have been increasing LGV outbreaks across Europe mainly amongst HIVpositive MSM.
- Most UK cases are among MSM involved in dense sexual networks/party scene not linked to LGV-endemic countries

LGV proctitis clinical features

- Haemorrhagic proctitis is the primary manifestation of infection seen in MSM; a similar picture might present in the case of rectal exposure in women.
- Symptoms include rectal pain, anorectal bleeding, mucoid and/or haemopurulent rectal discharge, tenesmus, constipation and other symptoms of lower gastro-intestinal inflammation.
- Systemic symptoms such as fever and malaise.

Complications of LGV

- Tertiary stage / genito-anorectal syndrome
 - Chronic inflammation and destruction of tissue may lead to proctitis, proctocolitis mimicking Crohn's disease, fistulae, strictures and chronic granulomatous disfiguring fibrosis and scarring of the vulva with esthiomene (Greek word meaning "eating away").
 - These conditions occur most frequently in women, reflecting the involvement of retroperitoneal lymphatics.

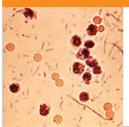
Long-term

- Destruction of LNs may result in genital lymphoedema (elephantiasis) with persistent suppuration and pyoderma.
- An association with rectal cancer has been reported. The two conditions can be confused and histopatho-logical confirmation may be necessary.

Clinical Information Epidemiological Data



Shigella



Shigellosis, also called bacillary dysentery, is caused by four species; Shigella dysenteriae, Shigella flexneri, Shigella boydii and Shigella sonnei.

Bacillary dysentery is primarily a human disease often acquired by drinking water contaminated with human faeces or by eating food washed with contaminated water.

Infection can result following ingestion of as few as 10 organisms. The incubation period is between 12 and 96 hours. Illness is characterised by diarrhoea, sometimes with blood and mucus and is common amongst young children although infection can occur in all ages after travel to areas where hygiene is poor. Invasive disease is rare but extra intestinal complications such as Haemolytic Uraemic Syndrome can occur. Cases maintain a low level of infectivity for as long as the organism is excreted in the stool. Shigella species may survive for up to 20 days in favourable environmental conditions and this may lead to transmission through contact with contaminated fomites. Sexual transmission is likely to be fuelled by the low infectious dose, immunodeficiency due to HIV infection and serosorting, that is sex between partners with the same HIV status. Travel may also play a role in introducing Shigella species to at risk populations.

Recent increase in diagnoses seen in men who have sex with men

Sexual transmission of shigellosis infection was first documented in the United States during the 1970s, most infections being seen in men who have sex with men. In 2006, an outbreak of *Shigella sonnei* among men who have sex with men (MSM) occurred in London and coincided with a similar outbreak in Berlin. In July 2011, Greater Manchester Health Protection Unit identified an increase in UK acquired cases of *Shigella flexneri* predominantly among men who have sex with men (MSM), aged between 30-50 years, some of whom were HIV positive. In London, an increase in *Shigella flexneri* was noted during 2010/11 some of which were seen in MSM. The profile of the patients presenting with *Shigella flexneri* is very similar to that associated with Lymphogranuloma Venereum infection. Further details of the outbreak investigation are available in the Health Protection Report.

Key Messages (sexual transmission of shigellosis)

A good standard of hygiene is key to the prevention of shigellosis. In particular, people at risk should be encouraged to:

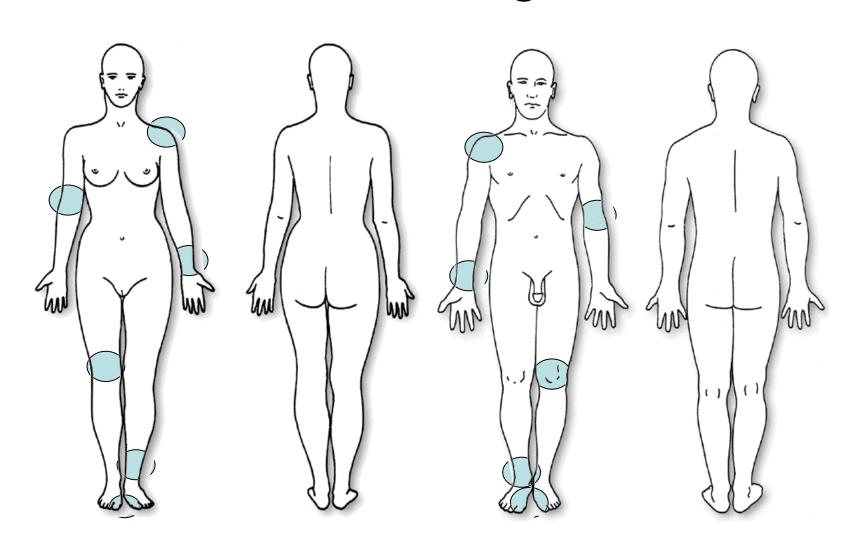
Related Information

- » Gastrointestinal Infections Reference Unit
- » Gastrointestinal disease
- Description of the Country of the
- » Preventing person-to-person spread following gastrointestinal infections...

External Links

» Laboratory Reports, Northern Ireland

Joints including toes!



Geoff, 43yrs

- Painful red eyes
- Painful swollen knee
- Scaly rash

Which STI does Geoff have?





Sexually Acquired Reactive Arthritis (SARA)

- Seronegative arthritis triggered by an STI
- ? immune response to uro-genital microorganisms
- Triad urethritis/cervicits, arthritis & conjunctivitis
 +/-other cutaneous or mucous membrane lesions
- Cardiac, renal or neurological rare
- 0.8-4% cases urethritis/cervicits M x 10 > F
- Chlamydia causes 35-69%, gonorrhoea 16% & U. urelyticum a few cases ?others
- HLAB27 gene +ve ^ susceptibility by up to 50 x
- Most will resolve in 4-6m, ~50% recurrent, 17% chronic arthritis.

Holly, 40yrs

- Mild fever
- Necrotic pustular rash
- Painful, swollen wrist & toe

Which STI does Holly have?





Disseminated Gonococcal infection (DGI)

- Rare <1% but increasing
- 4 fold higher in women especially pregnancy with pharyngeal infection
- Preceding mucosal infection usually asymptomatic
- Rash is pathopnuemonic
- Blood cultures & joint aspirates often –ve
- Genital examination & testing required
- Rx Ceftriaxone 1g IM/IV every 24 hours 7d

Antimicrobial resistant gonorrhoea

The effectiveness of first-line treatment for gonorrhoea continues to be threatened by antimicrobial resistance



Ceftriaxone

Resistance remains rare in the UK but three cases of extensively drug resistant gonorrhoea, which were resistant to ceftriaxone and most other drugs used for treating gonorrhoea, were detected in the UK in 2018

Azithromycin

no longer recommended as first-line therapy

Between 2016 and 2017: prevalence of azithromycin resistant-gonorrhoea increased from 4.7% to 9.2%*

> *Source: Gonococcal Resistance to Antimicrobials Surveillance Programme (GRASP)

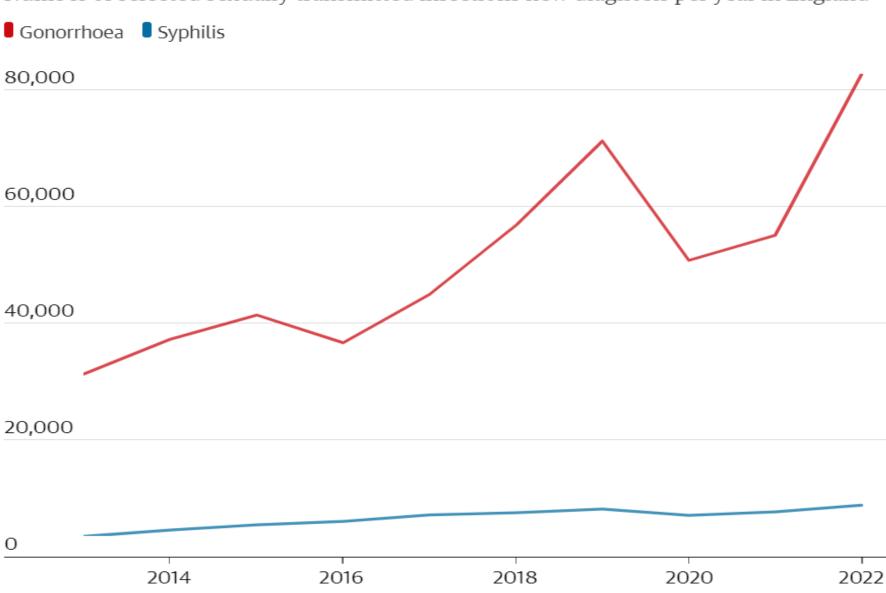






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Guardian graphic | Source: UKHSA





lovegum.bashh.org





http://www.bashh. org/guidelines



Thanks to LTHT patients & colleagues

Thank you!

Any questions?

