



Neuberg
DIAGNOSTICS

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Neu INSIGHTS



Urine Multiplex

For STD

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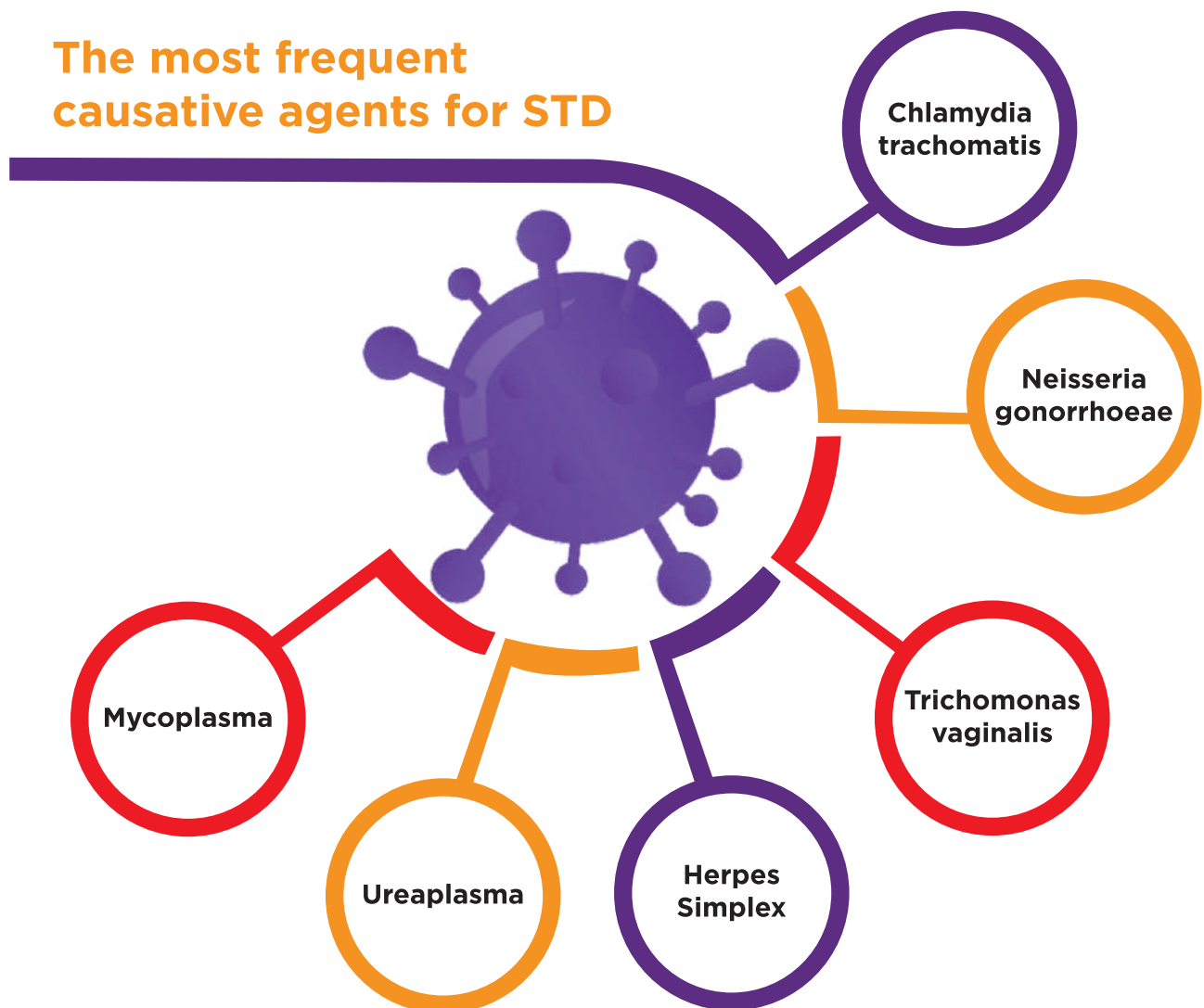
Sexually transmitted Diseases



World Health Organization fact sheets say.....

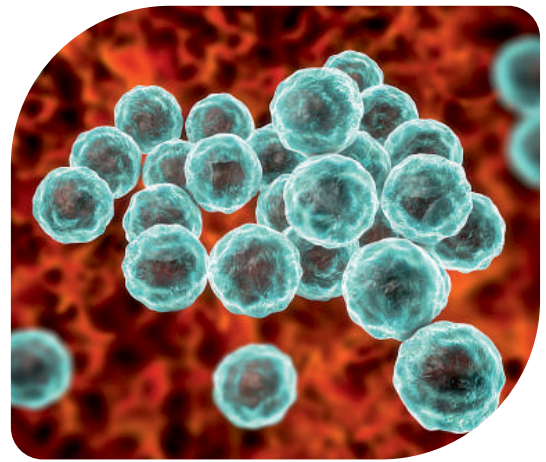
- ▶ More than 1 million sexually transmitted infections (STI) are acquired every day worldwide
Each year there are an estimated 374 million new infections
- ▶ INDIAN FACT sheets say.....
In India, around 6% of the adult population has one or more STI which amounts to the occurrence of about 30–35 million episodes of STI every year.

The most frequent causative agents for STD



Chlamydia trachomatis

- ▶ Chlamydia is often referred to as a “silent infection” because most people with a chlamydia infection don’t experience any symptoms.
- ▶ In women, the infection can cause vaginal discharge , lower abdominal pain and pelvic inflammatory disease (PID)
- ▶ The most effective diagnostic test for chlamydia is to swab the vagina or to test urine.



Neisseria gonorrhoeae

- ▶ Gonorrhea can affect people of any age or gender, but it’s particularly common among teens and young adults
- ▶ Gonorrhea can affect the uterus, fallopian tubes, and ovaries. Untreated gonorrhea can lead to infertility.
- ▶ A urine or swab test can detect gonorrhea easily



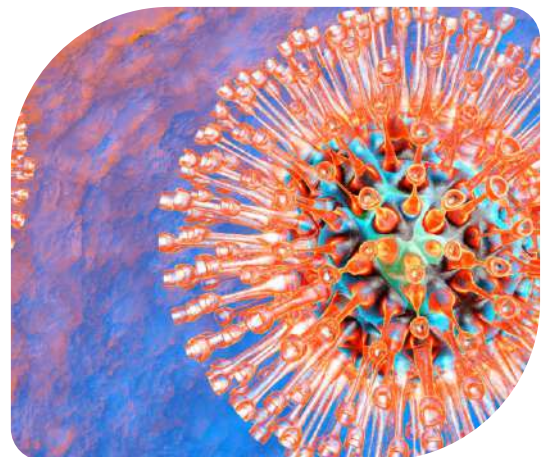
Trichomonas vaginalis

- ▶ About 70% of infected people do not have any signs or symptoms.
- ▶ Older women are more likely than younger women to have been infected with trichomoniasis.
- ▶ Trichomoniasis can increase the risk of getting or spreading other sexually transmitted infections.
- ▶ Urine molecular assay or wet mount examination can diagnose trichomoniasis



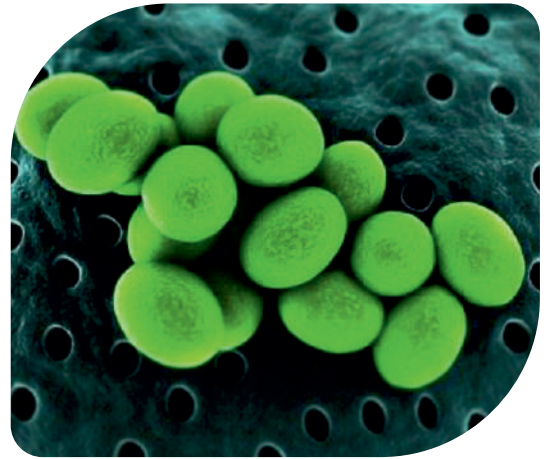
Herpes Simplex

- ▶ HSV is a contagious virus that can be transmitted through direct contact with the infected part
- ▶ It’s often asymptomatic and plenty of people live with the virus until episodes of symptoms occur
- ▶ Painful blisters as one blister or a small cluster appear on the infected parts
- ▶ Fever with flu-like symptoms also can occur



Ureaplasma

- ▶ Ureaplasma is very common among sexually active adults
- ▶ It can also be passed from mother to child.
- ▶ It may also increase your risk for other conditions, including kidney stone premature labor respiratory diseases in newborns
- ▶ Very difficult to diagnose using conventional techniques.



Mycoplasma

- ▶ In males can cause persistent or recurrent urethritis
- ▶ In females can cause cervicitis, PID, preterm delivery, spontaneous abortion and infertility.



When and whom to test ?

The CDC recommends that

- ▶ All sexually active men and women be tested for STI once a year.
- ▶ All pregnant women
- ▶ All HIV positive patients

The problem with syndromic case management

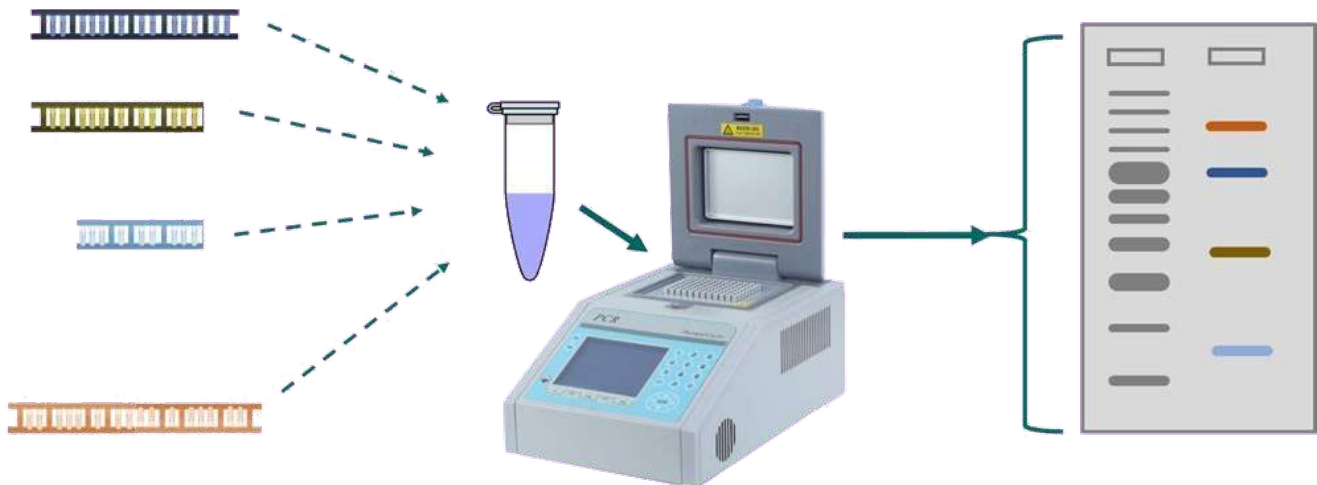
- ▶ Syndromic management for STD is simple, assures rapid, same-day treatment, It relies on clinical algorithms to diagnose a specific infection.

The problem is.....

- ▶ This approach results in over treatment or missed treatment as the majority of STDs are asymptomatic.
- ▶ Hence **WHO recommends** Enhanced syndromic management by incorporating Molecular assays in laboratory testing to support diagnosis.

Symptoms	<ul style="list-style-type: none"> ▶ Abnormal vaginal discharge ▶ Vaginal itching ▶ Painful urination ▶ Painful sexual intercourse 		
Signs	<ul style="list-style-type: none"> ▶ Abnormal vaginal discharge ▶ Cervical discharge (speculum exam) 		
Possible Infections	<table border="0"> <tr> <td> Vaginitis: <ul style="list-style-type: none"> ▶ Trichomoniasis ▶ Bacterial vaginosis (non-STD) ▶ Candidiasis (non-STD) </td> <td> Cervicitis: <ul style="list-style-type: none"> ▶ Gonorrhea ▶ Chlamydia </td> </tr> </table>	Vaginitis: <ul style="list-style-type: none"> ▶ Trichomoniasis ▶ Bacterial vaginosis (non-STD) ▶ Candidiasis (non-STD) 	Cervicitis: <ul style="list-style-type: none"> ▶ Gonorrhea ▶ Chlamydia
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Multiplex PCR methods as diagnostic tools for STDs



as if performing many separate PCR reactions all together in one reaction

PCR assay is the

- ▶ most sensitive test for screening STD in high risk patients.
- ▶ Diagnosing sexually transmitted infections in symptomatic patients.
- ▶ These assays simultaneously diagnose several STDs in a single reaction
- ▶ Same day results can be obtained
- ▶ Process is automated

Advantage Of Urine Sample

- ▶ Non invasive
- ▶ they can be stored at 4-8°C up to 7 days prior to the processing.
- ▶ Cost-effectiveness
- ▶ Quicker results
- ▶ Better patient compliance





Knock out medical emergencies,
before it's too late!

**HEALTH ko aasani se na lo,
TEST aasani se karo**



Blood Tests



Health Packages



ECG



**ICMR Approved
COVID Tests**

**“ Get your blood test done
Anywhere, Anytime...
Neuberg hain na ”**

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