**P2.062 Optimations and Quality Assurance of the Laboratory Diagnosis and Treatment of Sexually Transmitted Infections in Belarus**

**Background** In 2007–2008, a questionnaire-based study evaluated the quality of the 316 State laboratory services that were engaged in diagnosis of STIs in Belarus. This comprehensive survey clearly demonstrated that many of the tests and testing algorithms used in the laboratory diagnosis were inappropriate and not in accordance with international evidence-based recommendations.

**Methods** STI specialists from Belarus actively participated in the development of Eastern European consensus guidelines for the diagnosis of several STIs; an international collaborative work by the Eastern European Network for Sexual and Reproductive Health (EE SRH).

**Results** The international evidence-based guidelines developed by the EE SRH have subsequently been adapted to national conditions in Belarus. A new EE SRH project is planned for Belarus, aiming to monitor and evaluate the implementation of the current developments.

**Conclusions** Good agreement was found between Copan eNat-3 ml urine and urine in DC for the detection of 7 STI with the Seegene assay. Copan eNat, is available in leak proof tube, easy to transport-store urines, prevents bacterial overgrowth, stabilises NC at RT and is compatible with the STI7 assay.

**Funded by COLCIENCIAS (Colombia) Grant: 621 2009**

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**Poster presentations**

**P2.063 Validation of Copan eNat, a Molecular Transport Medium, for the Collection and Preservation of Urine Specimens for the Detection of STI Infections with the Seegene Anyplex II STI-7 V1.1 Assay**

**S Razeti. Arrow Diagnostics Srl, Genoa, Italy**

**Backgrounds** Urine is used for screening STI infections with molecular assays. Copan developed the eNat, a molecular medium that preserves and stabilises nucleic acid (NC), for collection, and storage of clinical specimens for microbial detection by real-time PCR. Seegene uses dry container (DC) for urine collection for detection of urogenital pathogens with the Anyplex II STI-7 (STI7).

**Study objective** was to validate the eNat for nucleic acid preservation in urines for STDs detection with the STI7 assays.

**Methods** In this study, 80 urines, collected in DC from patients attending a Milan STD clinic. Urines were tested as per current method and after adding urine to 1ml eNat. To find the urine volume with same sensitivity as urine in DC, 1, 2, and 3ml in urine in eNat were tested. After vortexing the e NAT samples, NC was extracted from 350ul with the Automated Purification Systems (NIMBUS IVD) and eluted in 100ul buffer. Purified NCs were tested with the with the Seegene STI7 assay.

**Results** In the 80 urine samples tested, 43 negative and 37 positive were detected with DC, while 1 ml, 2 ml and 3 ml urine in e NAT detected 45.40.40 negative or partial negative (1, 2, 3) and 35.40.40 positive (1, 2, 3) respectively. More co-infections were detected with eNat 3 ml. Loss of sensitivity with 1 ml eNat and inhibition with DC versus 3 ml in eNat was detected in 7 samples.

**Conclusions** Good agreement was found between Copan eNat-3 ml urine and urine in DC for the detection of 7 STI with the Seegene assay. Copan eNat, is available in leak proof tube, easy to transport-store urines, prevents bacterial overgrowth, stabilises NC at RT and is compatible with the STI7 assay.

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**P2.064 Comparison of Urine Collected in Dry Container to Urine Collected, Transported and Preserved in the Copan UrinSwab for the Detection of STDs with the Seeplex STD6 ACE Assay**

**A Archenti. ASL Milano - Prevention Laboratory, Milan, Italy**

**Backgrounds** Molecular urine devices are not compatible for all molecular assays and are not good bacteria culture. Copan produces the UrinSwab (US), a LBM device used with the WASP automation. It’s a leak-proof screw-cap tube with 3 treated sponges on a plastic stick to absorb and retain urine during transport and prevent bacterial overgrowth. UrinSwab can be used for urine self-collection for STD screening by culture and molecular assays. Urine collected in dry container (DC) were compared to US for detection of Treponema pallidum (TV), Mycoplasma hominis (MH), Mycoplasma genitalium (MG), Chlamydia trachomatis (CT), Neisseria gonorrhoeae (NG) and Ureaplasma urealyticum (UU).

**Methods** Duplicate urines were collected to-date from 153 patients attending a Milan STD clinic. One urine was collected in DC and another in US. For the DC, 5 ml urine was placed in a tube, and both, DC tube and US were centrifuged at 3000 g/20 min.

**Results** In the 153 urine, DC and US had 90 negative and 52 positive concordant (91.2%) and 9 discordant (9.7%) results; positive included 10 CT, 11 MH, 8 UU, 5 NG and 3 MG. In the discordant, DC had 3 positive missed by US while US had 4 positive missed by DC. No inhibition or TV was detected, the study is-ongoing.

**Conclusions** Good agreement was found between the Copan US and the DC for storing urines for STIs with the Seeplex*STD6 ACE. The US is leak-proof, easy-to-transport, store urines for STIs with molecular assays, prevents overgrowth, stabilises bacteria for culture and facilitates self-collection for STI screening.

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**P2.065 Preliminary Evaluation of a Commercially Available Immunoblotting Method with Treponema Pallidum Recombinant Antigens for Serological Diagnosis of Syphilis**

**A Pierro. L Bragaglia, A Maroni, M Landini, V Sambi. Unit of Clinical Microbiology, St. Orsola-Malpighi University Hospital, Bologna, Italy**

**Backgrounds** Urine is used for screening STI infections with molecular assays. Copan developed the eNat, a molecular medium that preserves and stabilises nucleic acid (NC), for collection, and storage of clinical specimens for microbial detection by real-time PCR. Seegene uses dry container (DC) for urine collection for detection of urogenital pathogens with the Anyplex II STI-7 (STI7).

**Study objective** was to validate the eNat for nucleic acid preservation in urines for STDs detection with the STI7 assays.

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