

which test for STIs provide key epidemiologic data, identify gaps, and should guide policies.

**Methods** PrEP projects are reaching populations at risk of HIV in LMIC, including adolescent girls and young women (AGYW), heterosexual HIV serodiscordant couples, and men who have sex with men. STI data from different populations and geographies will be reviewed, and research and intervention gaps will be discussed.

**Results** Among African AGYW in PrEP projects, the prevalence of *Chlamydia trachomatis* (CT) and/or *Neisseria gonorrhoea* (GC) is 30%, most of which is asymptomatic, syphilis is <1%, and annual incidence of CT is 30% and GC is 10%, most of which are new infections. Among African heterosexual HIV serodiscordant couples in PrEP studies, the prevalence of CT is 10%, trichomonas is 7%, GC is 6%, and syphilis is <1%. STI prevalence among African men who have sex with men (MSM) are more sparse, but indicate high prevalence of GC, CT, and syphilis.

**Conclusion** The prevalence of curable bacterial STIs is high in PrEP projects among diverse populations in LMIC, most of which are missed by syndromic STI management. STI services are an important reproductive sexual health intervention, are valued by clients, and increase the public health impact of PrEP. Interventions to lower the costs of STI diagnostic assays, point of care tests, and treatment of partners are needed. Innovative STI prevention strategies should be evaluated, including doxycycline post-exposure prophylaxis and vaccines. STI testing, treatment, and partner services should be integrated into PrEP, medical male circumcision, antenatal care, and HIV care and prevention programs which reach sexually-active persons in LMIC.

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### S10.2 BUILDING STD CLINICAL INFRASTRUCTURE IN LMIC – ROLE OF GENERAL VS. SPECIALIZED INFRASTRUCTURE

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Making clinical service for STD patients accessible in LMICs will require to recognize common medical conditions. In China, general hospitals are the most visited by patients, including those with STD. Data from 105 Chinese STD sentinel sites in 2018 showed that 77.2% of syphilis cases were reported from general hospitals, followed by 5.6% from women and children hospitals, only 4.7% of syphilis cases from STD specialized institutions. Community health centers, although providing comprehensive medical services, are generally considered to be of lower level and only 3.0% syphilis cases were rereported from the community health centers and other primary care centers. In LMICs with limited human resources, general hospitals play very important role in providing clinical services for STD patients but are often unsatisfactory in preventive services. A survey from China found, the rates of contact tracing and partner notification were very low in general hospital as the physicians lack time and willingness for preventive services. The main function for general hospitals, women and child health care hospitals, are to provide STD screening and corresponding treatment for out-patients, inpatients and pregnant women. As for the specialized STD institutions, it usually includes the following functions:1.

Develop appropriate local STD case management procedures (flow chart); 2. STD surveillance, including case auditing and active surveillance; 3. STD testing center including external STD lab quality assessment; 4. Young people clinics, MSM clinics, et al; 5. Training. To make these services effective, integration of general and specialized institutions at the managerial and administrative levels will be crucial.

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### S10.3 CERVICAL CANCER PREVENTION IN LMICS: ARE WE ON THE PATH TO ELIMINATION?

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In May 2018, the World Health Organization announced that a commitment to cervical cancer elimination. In October 2018, modelers from Australia showed that with current rates of vaccine implementation and screening, cervical cancer could be eliminated in that country within the next ten years. Researchers are working on clinical, implementation and modeling studies to determine the most effective strategies to achieve cervical cancer elimination. We examined prior commitments to disease elimination, modeling data on public health strategies for cervical cancer elimination in high and low-income countries, and possible challenges to successfully achieving elimination in the world's most vulnerable populations. Cervical cancer elimination, defined as fewer than four cases per 100,000 women, could be achievable in high-income countries (HICs) within the next 25 to 50 years. The speed and ultimate success of elimination is driven by high rates of coverage with the 9-valent vaccine, with screening providing only a small contribution. The most effective models in low- and middle-income countries (LMICs) include targeting female adolescents for two-dose vaccination, followed by either one or two lifetime screens. Challenges include a global shortage of the 9-valent vaccine, slower than anticipated roll-out to GAVI countries and low uptake rates in countries with vaccination programs. Remarkable advances in biomedical technologies have made cervical cancer elimination a potentially attainable goal within the next generation. Focusing efforts on widespread and effective implementation of evidence-based strategies to prevent the disease will be crucial. We must work to ensure that progress toward elimination is shared equally between HICs and LMICs to avoid a perpetuation of the global health disparity seen in cervical cancer.

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### S10.4 SELF-CARE INTERVENTIONS FOR SEXUAL AND REPRODUCTIVE HEALTH AND RIGHTS

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Among the most promising and exciting new approaches to reach Universal Health Coverage (UHC) goals are self-care interventions for health. These interventions have the potential to increase choice, when accessible and affordable, as well as opportunities for individuals to make informed decisions regarding their health and health care. Self-care interventions