Symposium 1: Measurement of sensitive behaviour

**S1.1 IMPROVING THE VALIDITY OF SEXUAL BEHAVIOUR MEASUREMENT: USING COMPUTER-ASSISTED METHODS**

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Reporting of sexual behaviour is subject to bias, perhaps most importantly social desirability bias. This is a particular problem in communities where discussion of sex is considered taboo and when disclosure of sexual activity can have serious consequences for the individuals concerned (eg, for young people or those in same-sex relationships). Mis/under-reporting of sexual behaviours can result in the design of interventions being poorly informed as well as in intervention effectiveness being unreliably measured. There is increasing evidence to suggest that questionnaire delivery method (in addition to a host of other factors) can impact the validity of reported data and that validity can be improved by careful consideration of questionnaire delivery mode. Computer-assisted questionnaire delivery has been shown to increase reporting of socially sanctioned behaviours in many settings and even in rural, resource poor settings, where people traditionally have limited experience of using computers, have been shown to be highly acceptable and feasible to research participants.

**S1.2 APPLYING SEMEN BIOMARKERS TO HIV/STI RESEARCH**

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Research on the prevention of HIV/STIs generally has relied on self reports of sexual activity, which are vulnerable to bias. Self-reported data on sexual behaviours could have poor validity for several reasons, namely social desirability bias, recall bias, lack of awareness of exposure (eg, undetected condom breakage), and poor comprehension or misinterpretations of the survey questions. This presentation will briefly describe biomarkers of semen exposure, in particular, prostate-specific antigen detected in vaginal fluid, and will give examples of the ways in which biomarkers can be used to strengthen research on (1) effectiveness of barrier methods against HIV/STIs; (2) effectiveness of behavioural interventions to prevent HIV/STIs; (3) condom “migration” from HIV/STI interventions; (4) the validity of self-reported data; and (5) methods to improve the validity of self-reported data. Limitations of biomarkers include their narrow scope, cost, relatively quick clearance, and unknown biological significance of biomarker levels in relation to risk of HIV/STIs. Finally, examples of future areas of research will be provided.

**S1.3 MEASUREMENT OF ADHERENCE: WHERE ARE WE?**

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There is presently no validated objective method available to measure participants’ sexual behaviour or adherence to study product use in HIV prevention trials. Because of this challenge there has been an indeterminate amount of product non-adherence that has precluded the accurate measurement of the safety and efficacy of novel biomedical interventions. Measurement has historically relied on self-report, which suffers from several biases, including recall and social desirability. To address these, researchers have use alternative interview modes (ACASI) and technologies (cell phones/SMS) with varying success. Pros and cons of other innovative approaches to measure adherence will be discussed, including use of indirect objective measures of adherence (eg, events monitoring systems, mucin tests of gel applicators), real time electronic measures, biomarkers and Directly Monitored Adherence Methods. Each of these approaches has strengths and limitations, thereby precluding any of them from serving as a universal “gold standard”. Discussion will include what can and should be measured “objectively” as well as lessons learnt for future biomedical prevention trials.

Symposium 2: Rapid tests as tools to transform policy, strengthen health systems and save lives (sponsored by WHO/TDR and the London school of hygiene and tropical medicine)

**S2.1 INTRODUCTION OF RAPID SYPHILIS TESTS IN ANTENATAL CARE SERVICES IN TANZANIA: CLIENTS’ AND SERVICE PROVIDERS’ ACCEPTABILITY AND UPTAKE OF TESTING**

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**Background** Syphilis is still a major cause of morbidity and mortality in women and children. In Tanzania syphilis was shown to cause adverse pregnancy outcomes in 49% and stillbirth in 25% of