



# **THE PATTERN OF RISK COMPENSATION IN MSM ENROLLED IN A PILOT PREP PROJECT**

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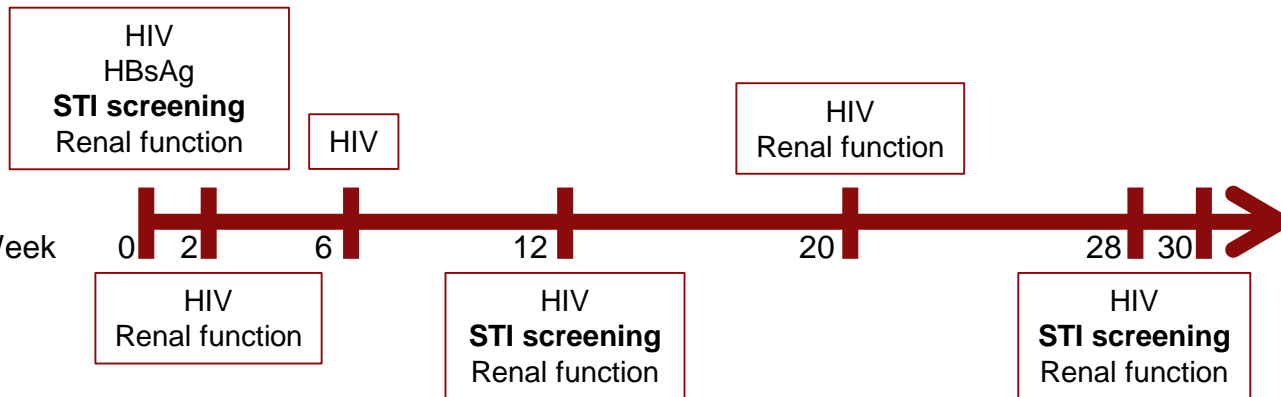
**JOCKEY CLUB SCHOOL OF PUBLIC HEALTH AND PRIMARY CARE,  
THE CHINESE UNIVERSITY OF HONG KONG**

# PROJECT OUTLINE

- **30 WEEKS OF DAILY TDF/FTC PRESCRIBED TO MSM AT HIGH RISK OF INFECTION IN HONG KONG**
- **DRUG COST: ~HK\$25/DAY**
- **STI SCREENING AT WEEK 0, 12 AND 28:**
  - **SYPHILIS**
  - **URETHRAL NG/CT**

## Eligibility criteria of joining the PrEP pilot

✓ Adult MSM	And either one of the followings has occurred in the past 6 months: <input type="checkbox"/> Diagnosis of STI <input type="checkbox"/> Having sex partner(s) who were HIV+ or with unknown HIV status <input type="checkbox"/> Engagement in “chem-sex” <input type="checkbox"/> Having more than one sex partner
✓ Hong Kong residents	
✓ PrEP-naïve	
✓ Tested HIV-negative within 3 months	
✓ History of unprotected sex within 6 months	
✓ Inclination to have unprotected sex in coming months	



## Clinical trial registrations:

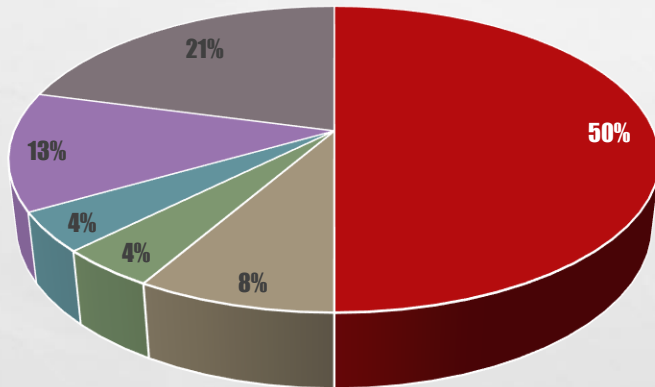
- CCRB Clinical Trials Registry, The Chinese University of Hong Kong (CUHK\_CCRB00533)
- Chinese Clinical Trial Registry (ChiCTR-OPC-16009603)

# INCIDENCE OF STI

- **32 OF 40 SUBJECTS SCREENED FOR STI AT LEAST 2 TIMES AS OF MARCH 2018**
- **2 INCIDENT STI OCCURRED DURING A FOLLOW-UP PERIOD OF 107 PERSON-WEEKS**
  - **INCIDENCE RATE: 1.87 CASES PER 100 PERSON-WEEKS**
- **BOTH REDUCED CONDOM USE WITH KNOWN PARTNERS**

# VARIATION OF CONDOM USE UPON PREP INITIATION

- 29 USERS WITH BEHAVIOURAL DATA COLLECTED FROM MULTIPLE VISITS
  - 24 REPORTED SEX WITH KNOWN PARTNERS



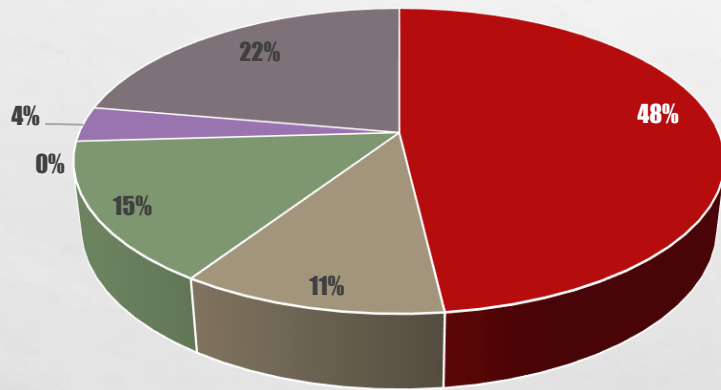
## Reduction in condom use with known partners:

- History of chem-sex at baseline (OR: 10.00, p=0.013)
- Reduced condom use with newly met partners (OR: 15.00, p=0.004)

■ Reduced ■ Increased ■ Always use ■ Never use ■ Varied ■ No change

# VARIATION OF CONDOM USE UPON PREP INITIATION

- **29 USERS WITH BEHAVIOURAL DATA COLLECTED FROM MULTIPLE VISITS**
  - **27 REPORTED SEX WITH NEWLY MET PARTNERS**



## Reduction in condom use with newly met partners:

- **History of chem-sex at baseline (OR: 6.75, p=0.017)**
- **Planned sex (OR: 12.10, p=0.004)**
- **Insertive role (U=57.00, p=0.004)**

■ Reduced ■ Increased ■ Always use ■ Never use ■ Varied ■ No change

# CHANGE IN NUMBER OF SEX PARTNERS UPON PREP INITIATION

- **OF 24 USERS REPORTED SEXUAL ACTIVITIES IN AT LEAST TWO TIME POINTS**
  - **13% HAD MORE SEX PARTNERS**
  - **58% HAD FEWER SEX PARTNERS**



# UPDATE

- **37 OF 71 SUBJECTS SCREENED FOR STI FOR AT LEAST 2 VISITS AS OF 23 JUNE 2018**
- **4 INCIDENT STI OCCURRED DURING A FOLLOW-UP PERIOD OF 537 PERSON-WEEKS**
  - **0 NG, 2 CT, 2 SYPHILIS**
- **INCIDENCE RATE: 0.74 CASES PER 100 PERSON-WEEKS**

# KEY MESSAGES

- **ABOUT HALF OF THE MSM AT HIGH RISK OF HIV INFECTION REPORTED A REDUCTION OF THEIR CONDOM USE FOLLOWING PREP INITIATION, LEADING TO A DIAGNOSIS OF STI IN SOME CASES**
- **KEEN MONITORING OF HIV AND STI WILL BE IMPORTANT AS RISK BEHAVIOURS TEND TO CONTINUE**
- **RISK COMPENSATION IS ASSOCIATED WITH ONE'S BEHAVIOURAL PROFILE AT BASELINE, INCLUDING A HISTORY OF CHEM-SEX**
- **ONLY URETHRAL STI WAS TESTED IN THIS STUDY THEREFORE THE ACTUAL INCIDENCE MAY BE HIGHER**





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