Seroadaptive behaviors and HIV prevention strategies among sexually active MSM receiving HIV care in San Francisco

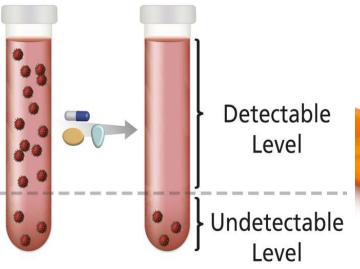


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#### **BACKGROUND**







2010 iPrEx

2011 HPTN 052 2012 FDA PrEP

### **OBJECTIVES**

- Describe the frequency of prevention strategies used by MSM receiving HIV care in SF
- Examine how prevention strategies are combined

#### **METHODS**

#### Medical Monitoring Project (MMP)



Stage 1: Project Areas
23 Project Areas

Stage 2: HIV Care Facilities 25-35 Facilities per cycle

Stage 3: HIV+ Patients 400 patients per cycle

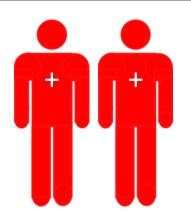
#### **METHODS**

- Interviews from August 2014 April 2015
- Men with ≥1 male anal sex partner in the 12 months prior to interview
- Each participant could report up to 5 most recent sexual partners
- Male-male anal sex partnerships are included in this analysis

# **Definition of Prevention Strategies**

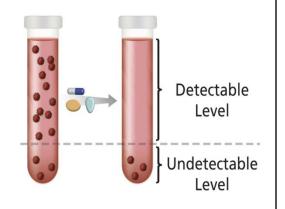
#### Serosorting

sex with an HIV-positive partner



#### **TasP**

participant reported being virally suppressed



#### **PrEP**

sex with an HIV-negative partner using PrEP



#### **Condom use**

always using condoms



#### **RESULTS**



400 HIV+ adults



#### **Participants**

238 agreed and were interviewed



#### **MSM**

121 men with ≥1 male anal sex partner

Table 1: Characteristics of the 121 men who reported ≥1 male anal sex partner in the previous 12 months, San Francisco MMP 2014. % n Age, mean (median) 49.6 (50) Race/Ethnicity White 62% 75 **African American** 10 8% 25% Latino 30 Other/Multi 6 5% Diagnosed with HIV for 10 or more years 86 72% **Homeless** 11 9% Foreign born 23 19%

111

119

100

12.7 (4)

92%

98%

83%

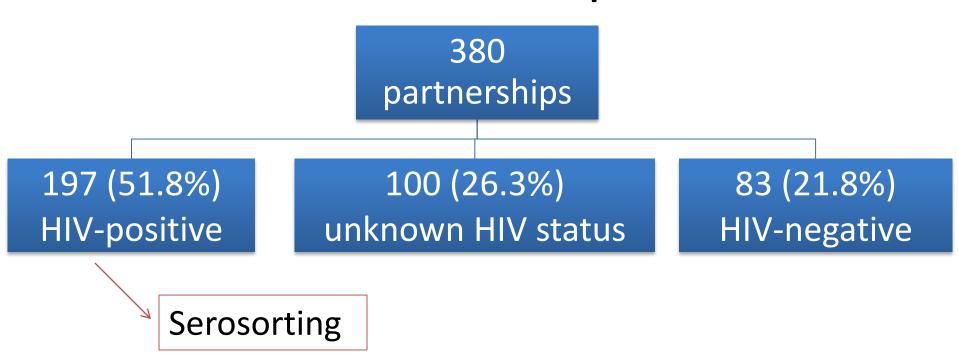
Some college education or greater

# male sex partners past 12 months, mean (median)

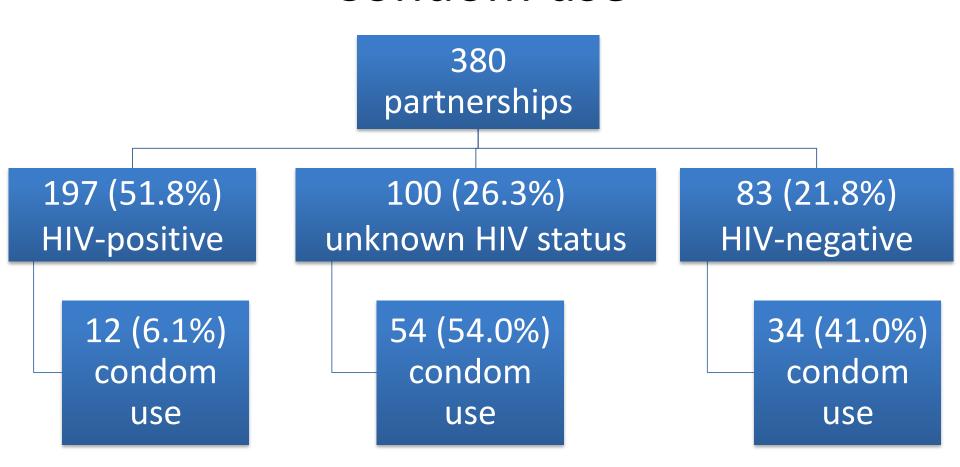
Virally suppressed (self-report)

On ART (self-report)

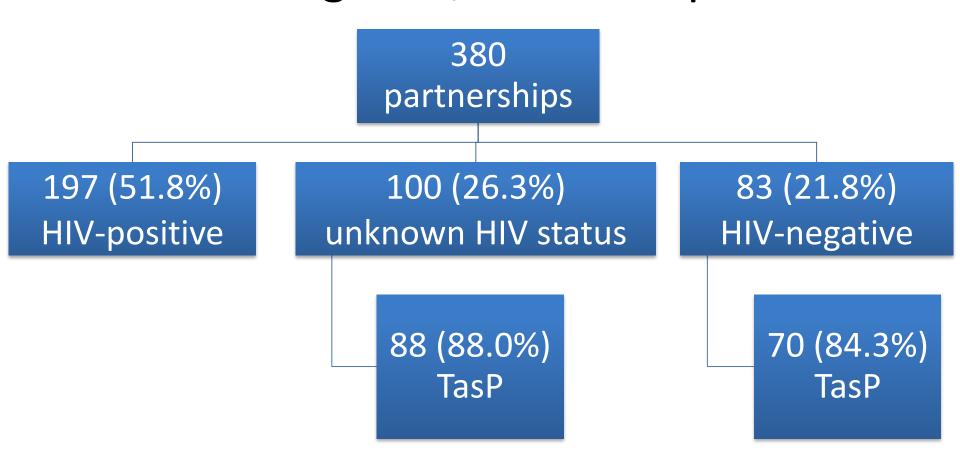
# HIV serostatus of partners



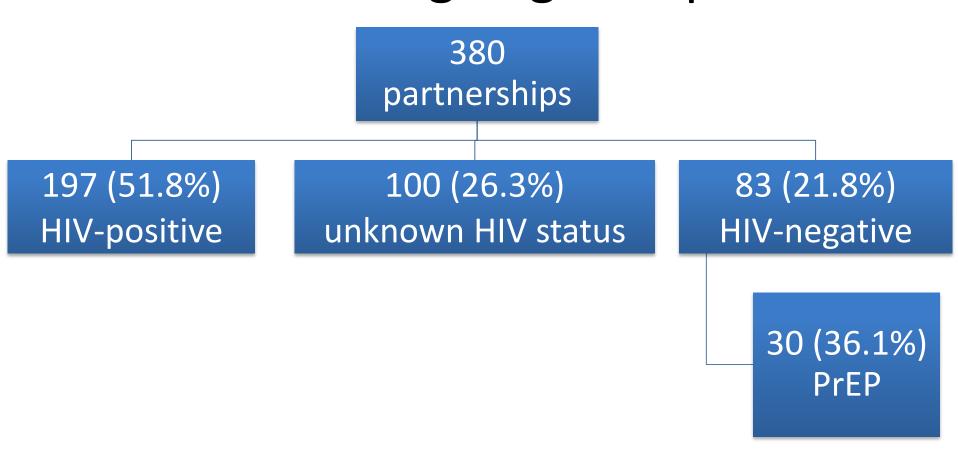
## Condom use



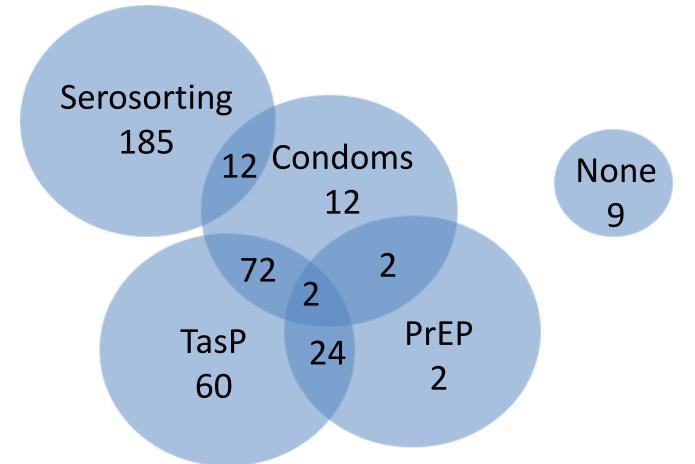
## TasP among HIV-/unknown partners



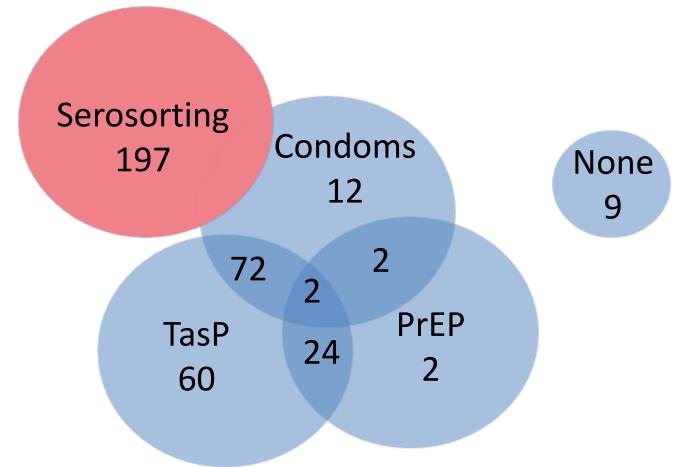
# PrEP use among negative partners



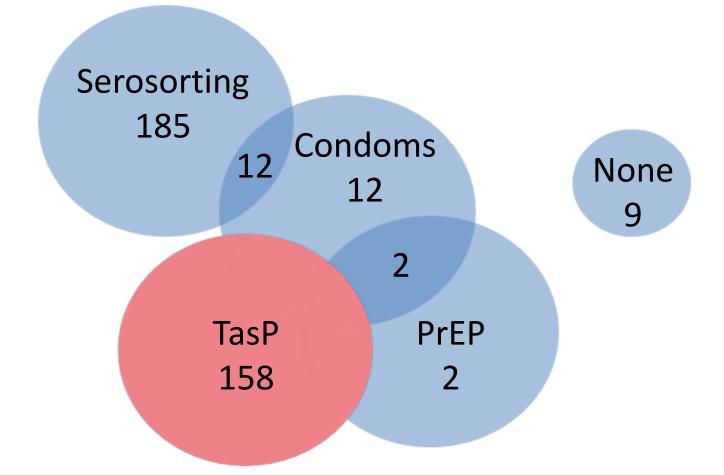
### **RESULTS**



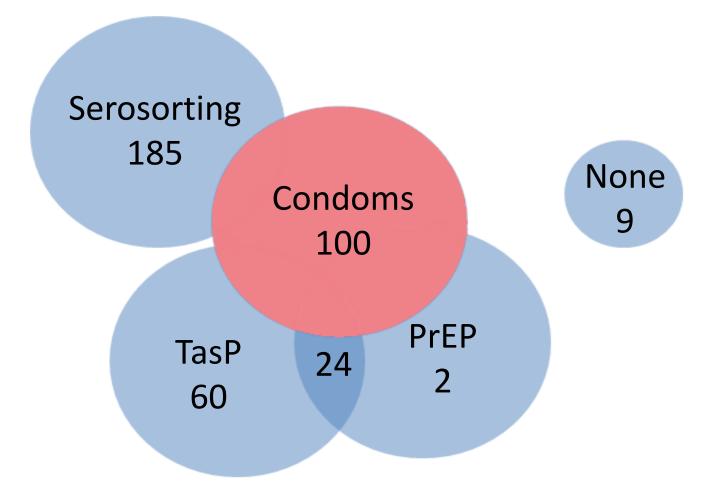
# 197 (52%) used serosorting



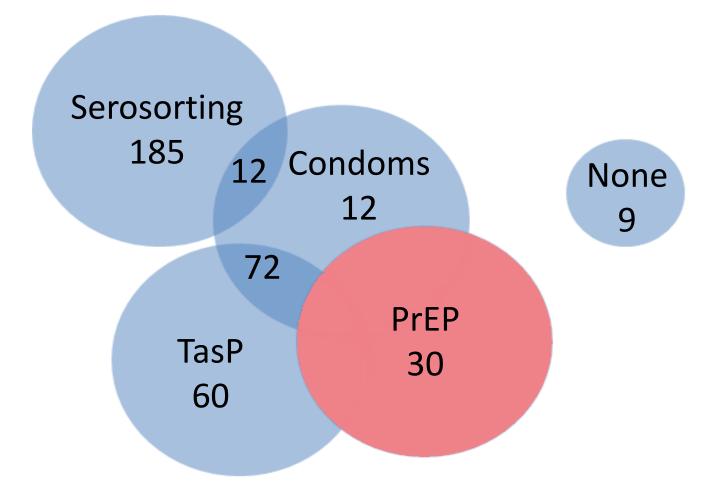
# 158 (42%) used TasP



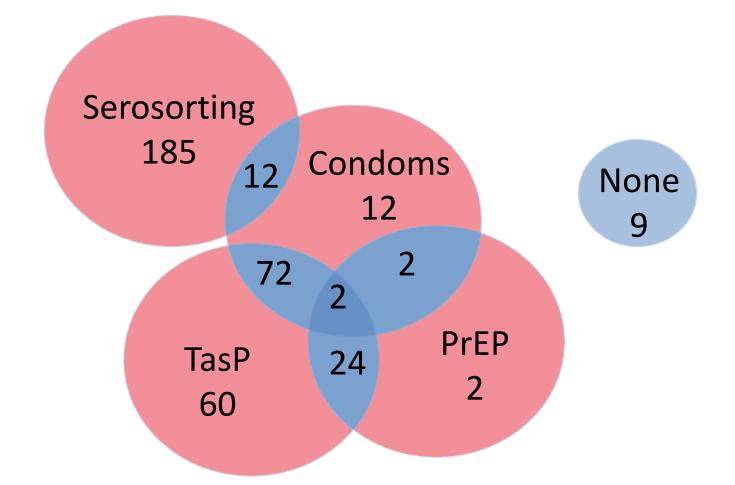
# 100 (26%) used condoms



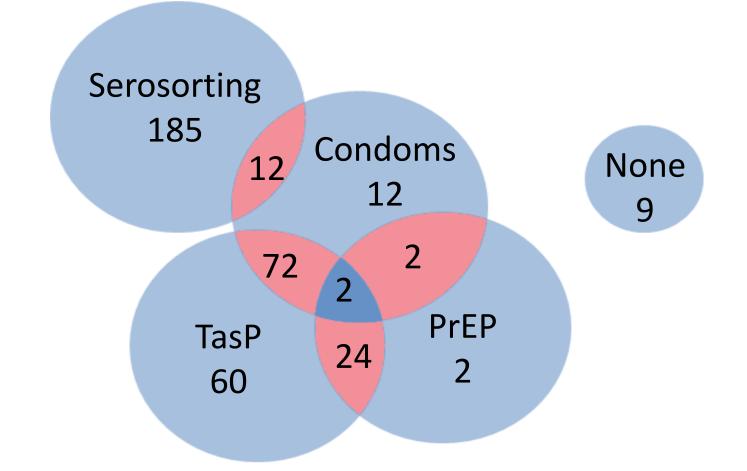
# 30 (8%) used PrEP



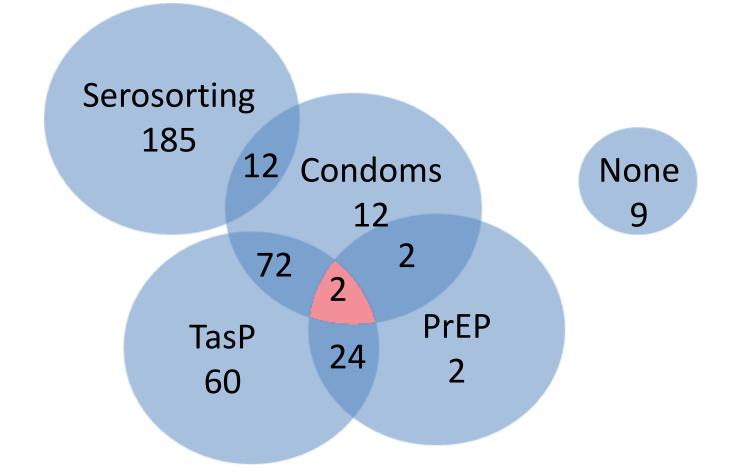
# 259 (68%) used one prevention method



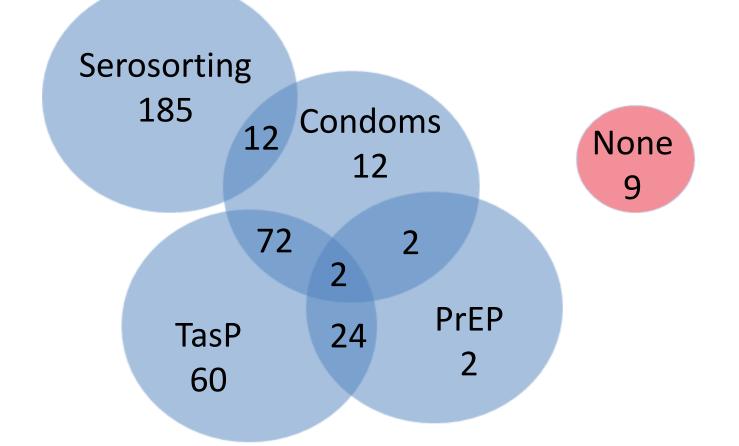
# 110 (29%) used two prevention methods



## 2 (<1%) used three prevention methods



# 9 (2%) used no prevention method



#### LIMITATIONS

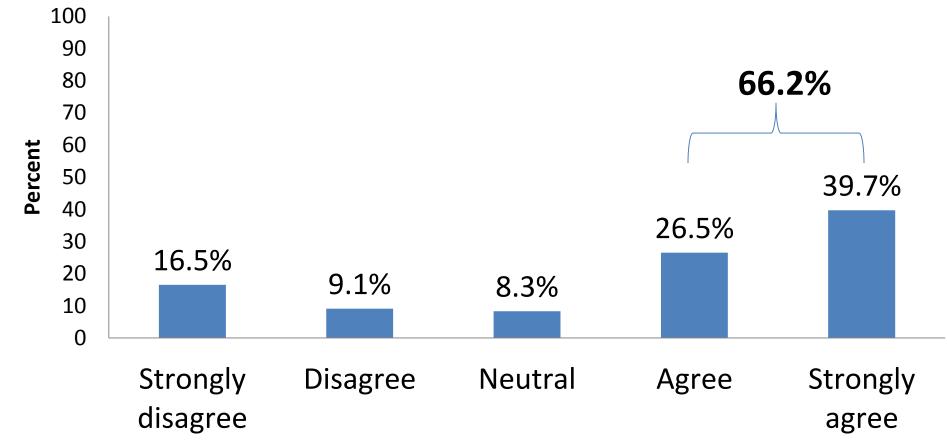
- Unweighted data
- Descriptive; no associations or statistical tests
- 37% of the 121 MSM had more than 5 sexual partners in the past 12 months
- Social-desirability bias and measurement error

### CONCLUSION

- High use of seroadaptive behaviors and HIV prevention strategies
- Nine partnerships had no evidence of any prevention strategy
- PrEP was used as a prevention strategy in 36% of HIV-negative partnerships

# Extra slides

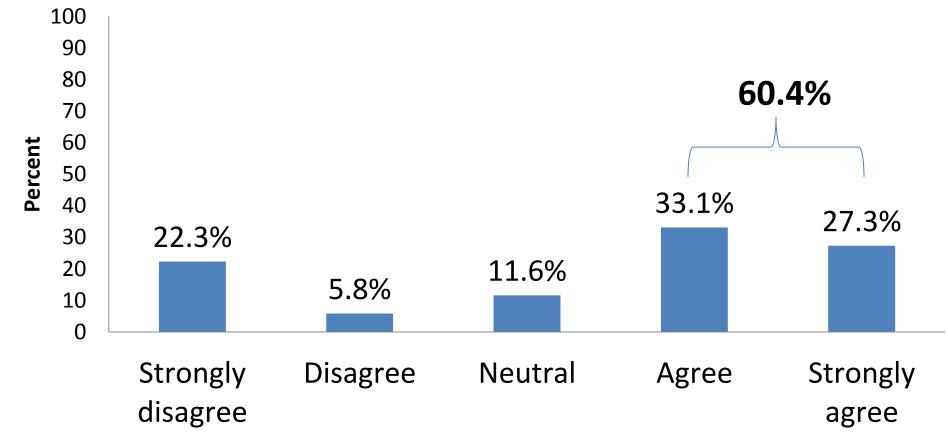
If my partner tells me he or she is HIV positive, I am more likely to have unprotected sex with him or her.



Serostatus of partner	CAI	ICAI*
HIV+ (n=197)	94%	64%
HIV-/unknown (n=183)	52%	28%

<sup>\*</sup>from perspective of MMP participant

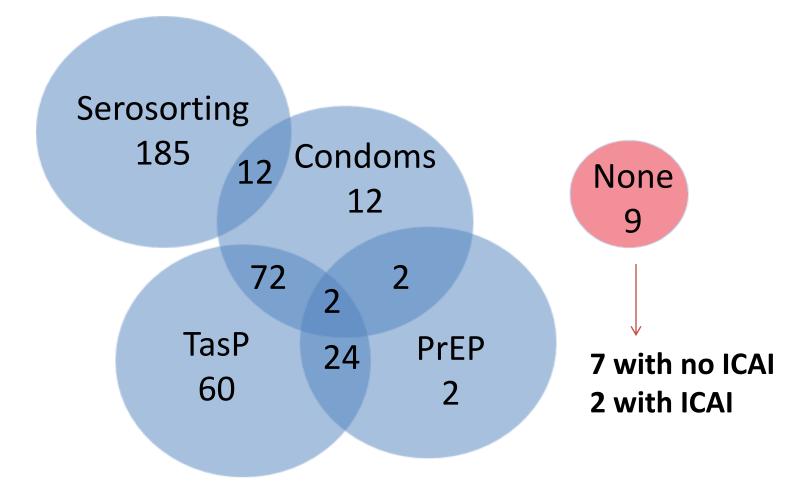
If I have an undetectable HIV viral load, I am more likely to have unprotected sex.



Participant's self reported viral load	CAI	ICAI*
Undetectable (n=158)	53%	30%
Detectable (n=25)	44%	12%

<sup>\*</sup>from perspective of MMP participant

## **RESULTS**



# Viral load agreement

		MRA	
		Undetectable	Detectable
Self-report	Undetectable	91	5
	Detectable	6	6

97/108= 90% of observations agree

# Differences in characteristics and type of prevention method?

- Condoms: homeless, older partners, and if MMP participant disclosed, less likely to use condoms
- PrEP: younger MMP age more likely to have partnership with partner on PrEP
- TasP: younger MMP age and younger partner age more likely to use TasP; disclosure less likely
- Serosort: older MMP age, older partner age, higher education more likely; foreign born less likely

# STI diagnosis and prevention type

- No self-reported STI in 2014 interview
- Data in MRA on diagnosis comes from primary HIV care site (many MSM in SF get STI tests at Magnet and SFCC, no data on STI tests there)
- STI incidence is increasing in SF
- Warrants further investigation

# Condom use- by PrEP for negatives

