

PrEP: additional insights through secondary analyses of the PROUD trial

Ellen White

MRC Clinical Trials Unit at UCL

25 September 2018

PrEP & PROUD

PrEP is for HIV prevention

- PROUD:
 - UK men who have sex with men (MSM)
 - Pragmatic study in real life setting
 - Wait-listed design immediate vs. deferred PrEP
 - 86% effectiveness

Aims of thesis

- 1. Develop eligibility criteria for PrEP
- 2. Does PrEP increase STI risk?

3. What is the HCV risk amongst MSM seeking PrEP?

PAF vs. NNT

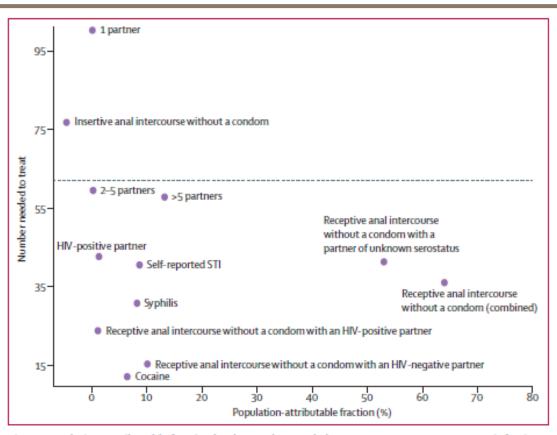


Figure: Population-attributable fraction by the number needed to treat per year to prevent one infection in iPrEx

The dashed line shows the mean number needed to treat. The point estimate of the population-attributable fraction for insertive anal sex without a condom is negative because those who report this risk are at slightly lower risk than those who don't report it. STI=sexually transmitted infection.

Buchbinder, 2014 MRC CTU at UCL

PAF and PrEP

 Definition: the proportionate reduction in outcome that would occur if incidence in the exposed group was reduced to that of the unexposed group

- Why is this a problem for PrEP?
 - Definition is not relevant does not account for effectiveness
 - Incidence could be higher in the unexposed after PrEP
- Propose using potential proportion of averted infections
 (PPAI) takes account of effectiveness of PrEP

NNT and PrEP

 Definition: the average number of people that need to be treated with a particular treatment in order to prevent one additional outcome of interest

- Calculation methods
- Interpretation: delay or prevent
- Scale NNT according to background risk in the population

Key message:

 Make sure that the epidemiological/statistical measure is relevant to intervention