

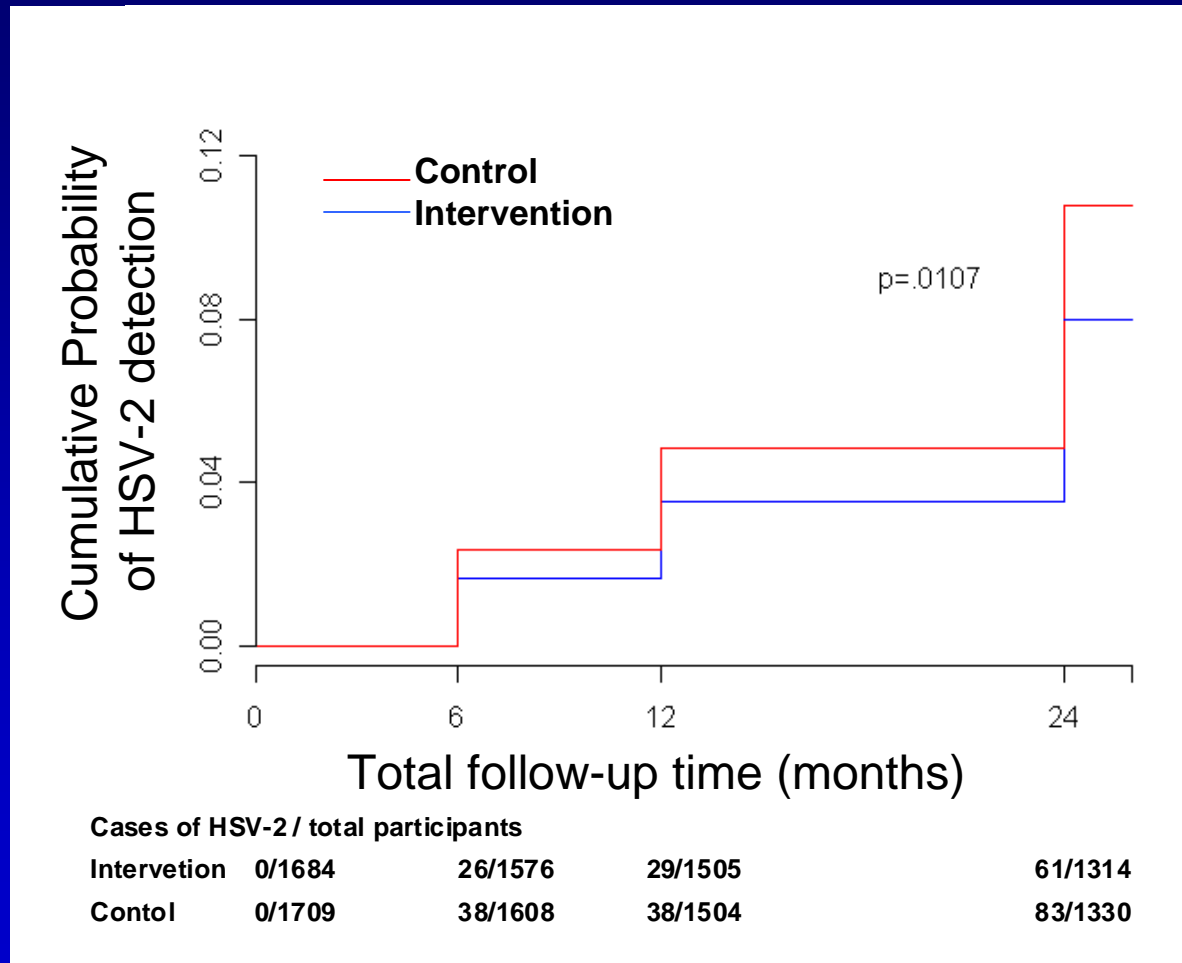
Update of findings from the Rakai trials

Male HIV Incidence by follow up interval up to three years

FU Interval	Intervention		Control		IRR (CI)
	Inc/py	Inc/ 100 py	Inc/py	Inc/ 100 py	
0-6	14/1172	1.2	19/1207	1.6	0.76 (0.4-1.6)
6-12	5/1191	0.4	14/1176	1.2	0.35 (0.1-1.0)
12-24	6/2133	0.3	26/2165	1.2	0.23 (0.1-0.6)
24-36	0/897.2	0.0	3/168.8*	1.8	0

* Uncircumcised controls. In circumcised controls incidence = 0.41

Kaplan-Meier Cumulative Probabilities of HSV-2 acquisition



Cox HR estimate = .733 (.489, .977)

Completed wound healing by postoperative time

	HIV +		HIV-neg	
	Healed/ N	%	Healed/ N	%
30 days	287/ 393	73.0	1879/ 2258	83.2*
6 weeks	364/393	92.7	2163/ 2258	95.8**

*P < 0.001, **P = 0.006

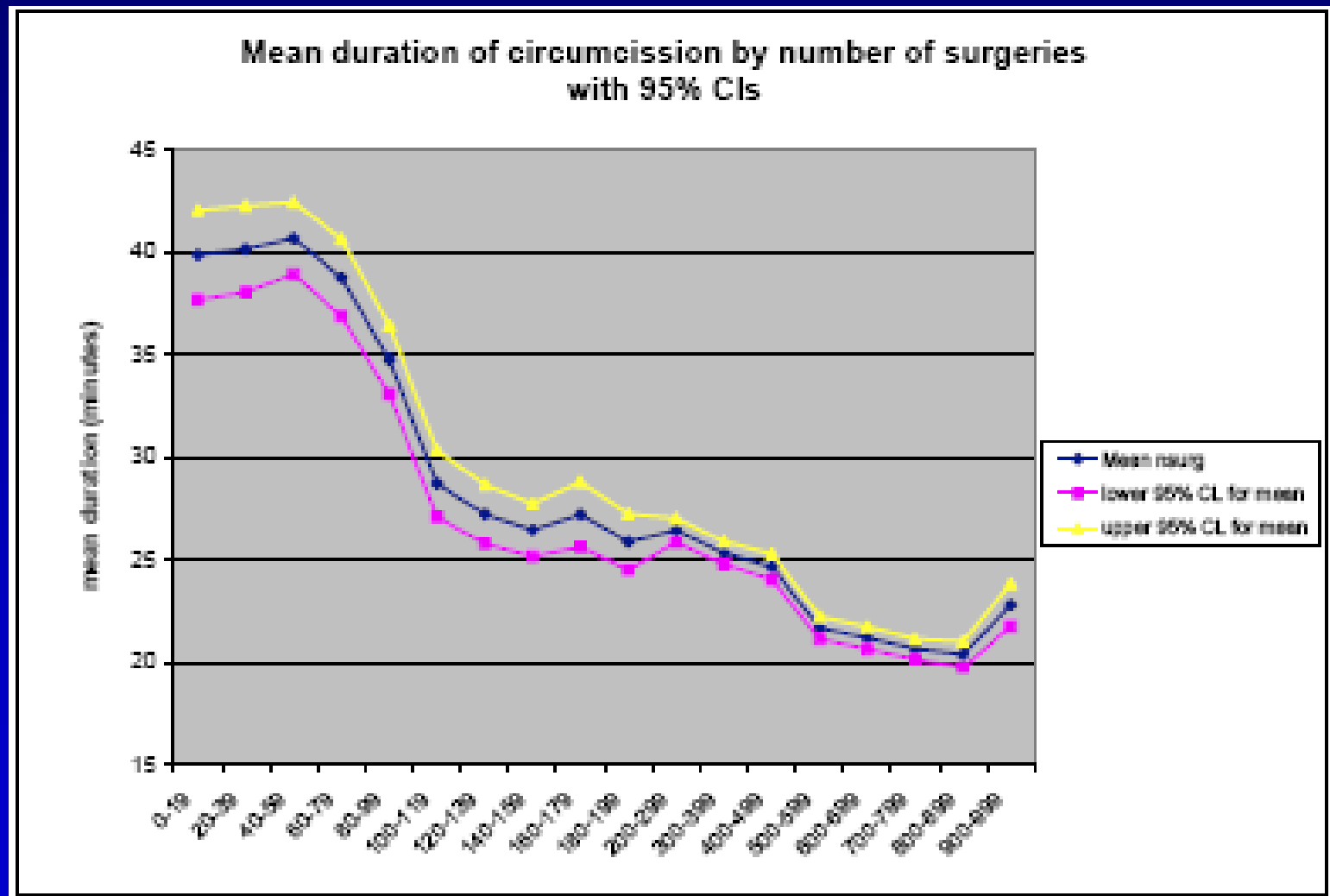
**Postoperative healing is slower in HIV+.
Most men healed by 6 weeks**

AEs in couples initiating sex before and after healing certified

Resumed sex before healing certified		Resumed sex after healing certified	
AEs/N	%	AEs/N	%
35/316	11.1	162/2397	6.8

RR sex before/sex after healing 1.64 (1.16-2.32)

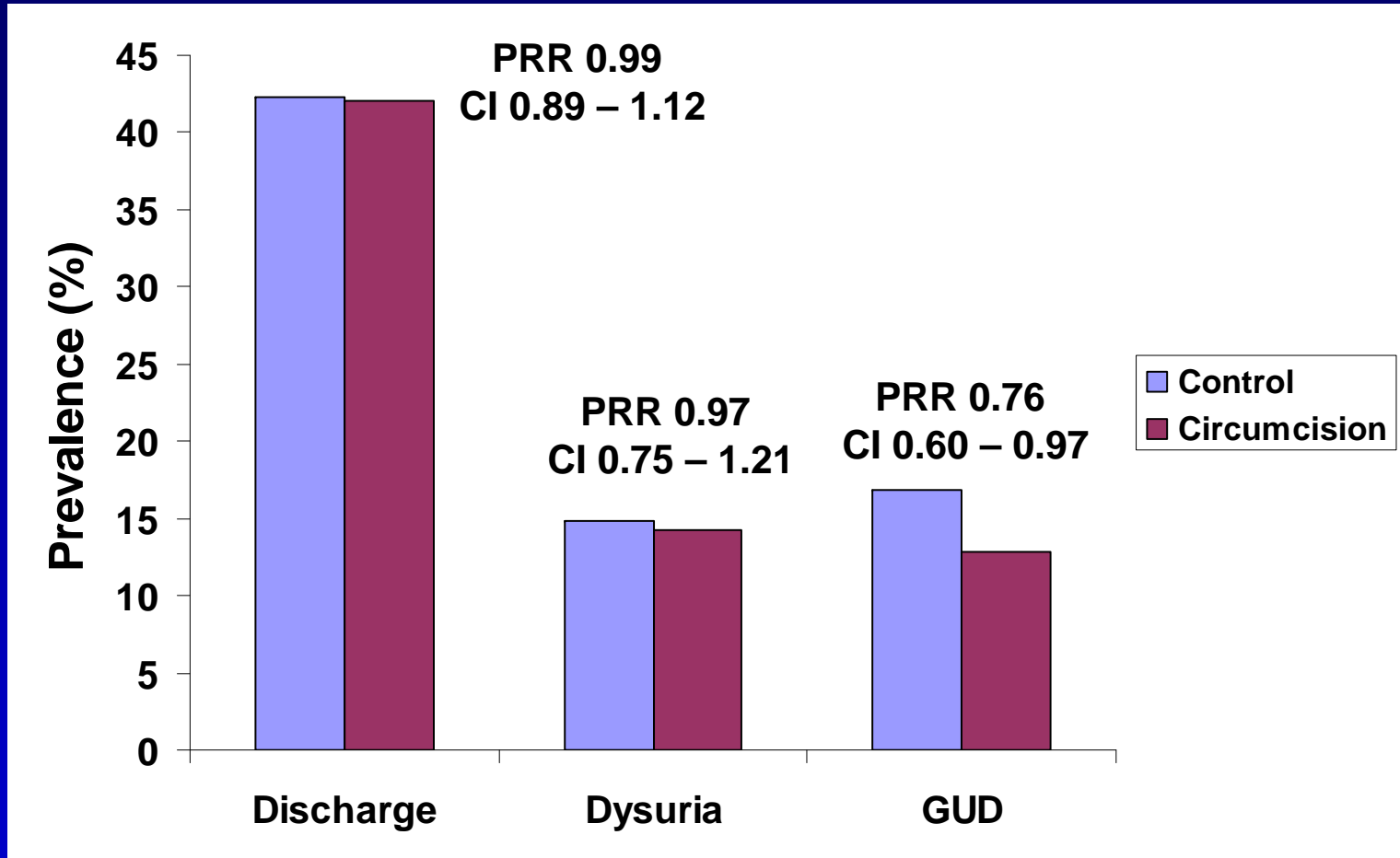
Number of procedures required to achieve competency in circumcision following training



AEs by number of surgeries performed after training

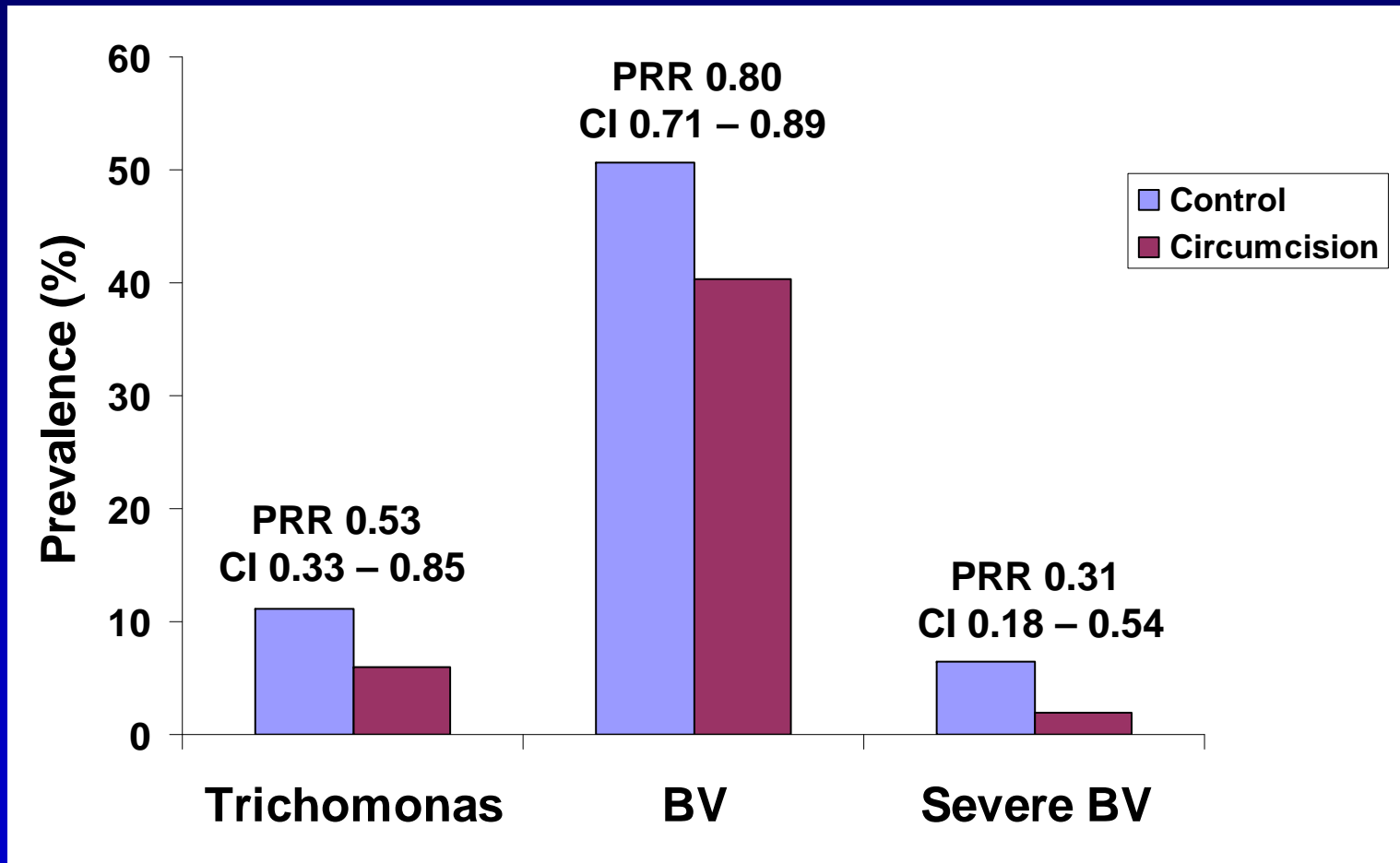
Number of surgeries	Circumcisions (N)	Moderate/ Severe Adverse events	Adverse events (percent)
0-19	114	10	8.77
20-39	88	3	3.41
40-59	80	2	2.50
60-79	80	4	5.00
80-99	80	4	5.00
100-199	400	8	2.00
200-299	321	8	2.49

Vaginal symptoms at 12 months follow up by husband's study arm



- Significant reduction of GUD in wives of circumcised men ($p = 0.03$). No effect on discharge or dysuria.

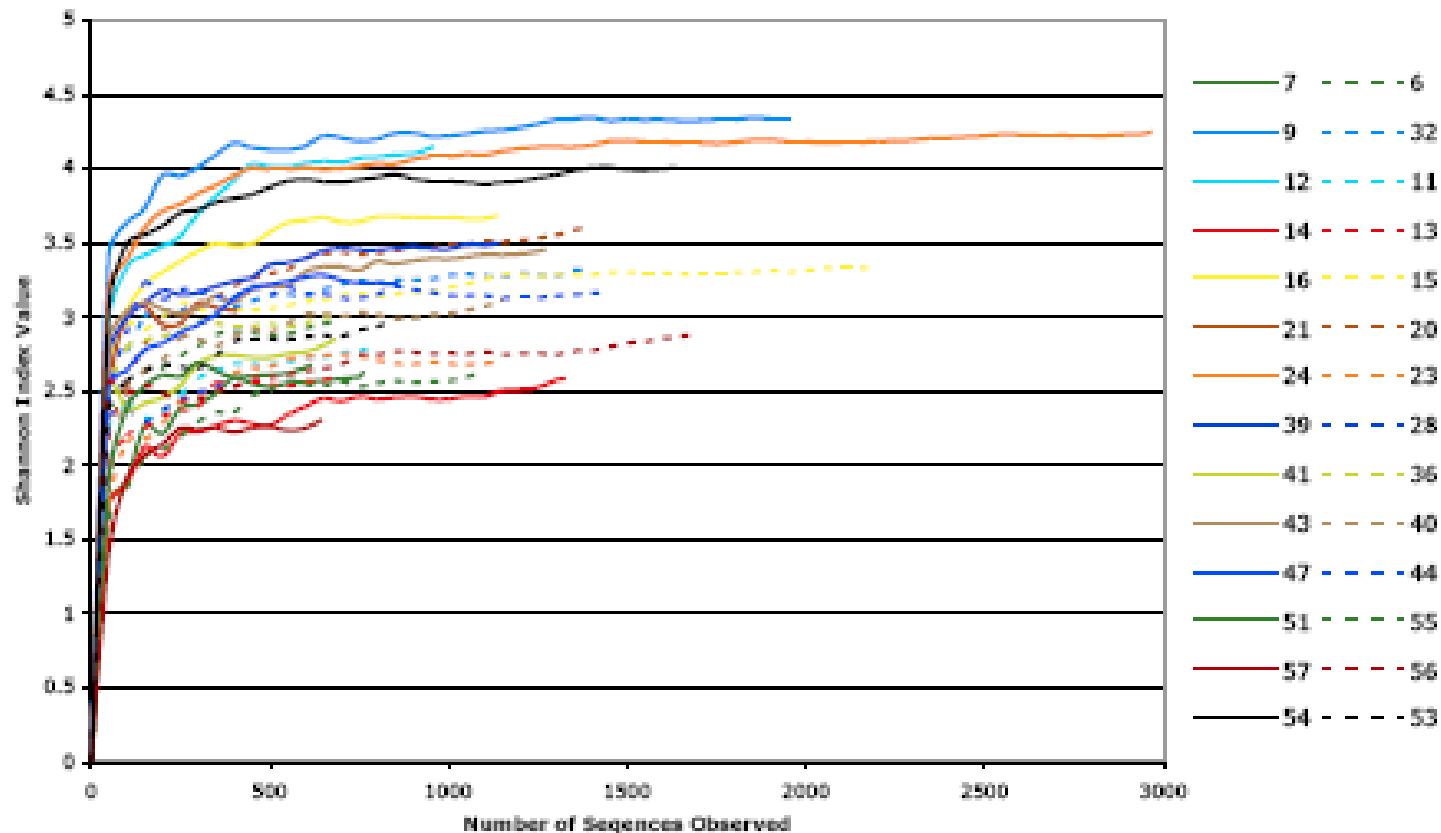
Vaginal infections at 12 month follow up by husband's study arm



Circumcision associated with significant homogenization of microbiota and elimination of pro-inflammatory anaerobic bacterial species (L Price CROI 2009)

bacterial species (L Price CROI 2009)

Shannon Index Values for Paired Penis Pyrosequencing Samples at the Level of Species



Service circumcision

- PEPFAR and WHO supported
 - ~2000 surgeries (goal 3000 py)
 - ~7.6% HIV+
 - AE 2.2%
- Operations Research
 - Compare sleeve to dorsal slit procedures
 - Compare physician to non-physicians
 - Factorial design
 - Evaluate training for ~100 trainees