

Effects of Integration on the PMTCT Cascade

Janet M. Turan, Elizabeth A. Bukusi, Maricianah Onono, Rachel L. Steinfeld, Sierra Washington, Starley Shade, Marta Ackers, Craig R. Cohen

The PMTCT CASCADE

All
Pregnant
women

HIV-positive
Pregnant
women

Attend ANC
clinic

Be offered
and accept
HIV testing

Get CD4
assessment

Be given ARVs

Enroll in HIV care
and treatment

Adhere to ARVs
during pregnancy

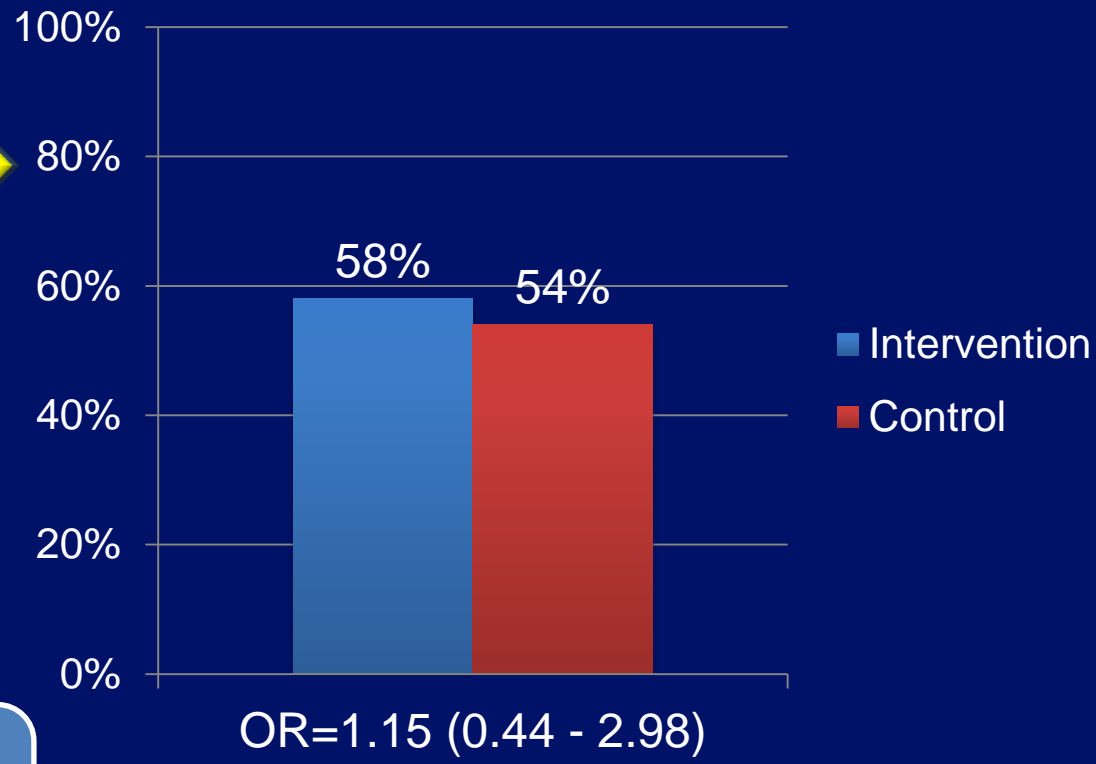
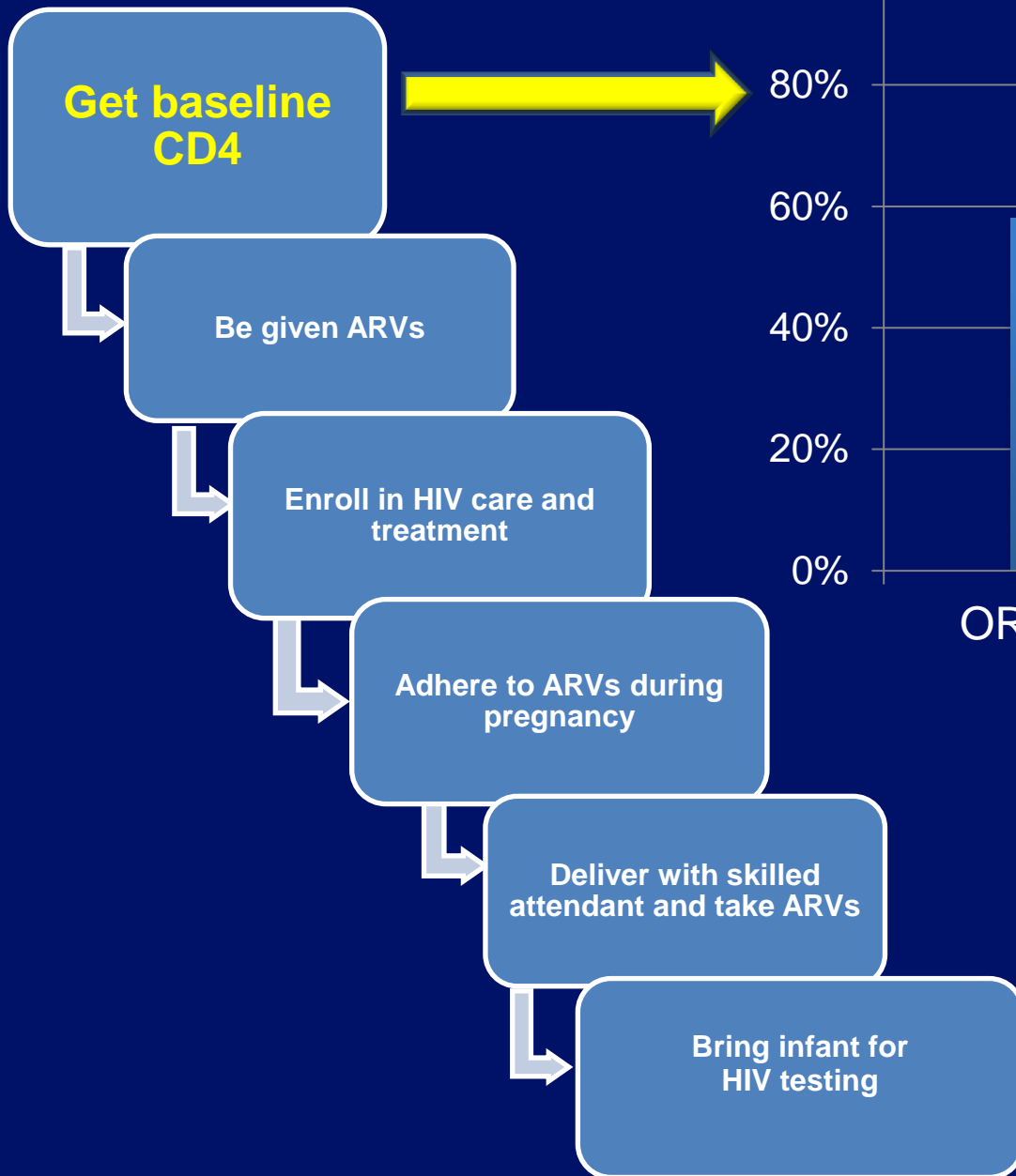
Deliver with
skilled attendant
& take ARVs

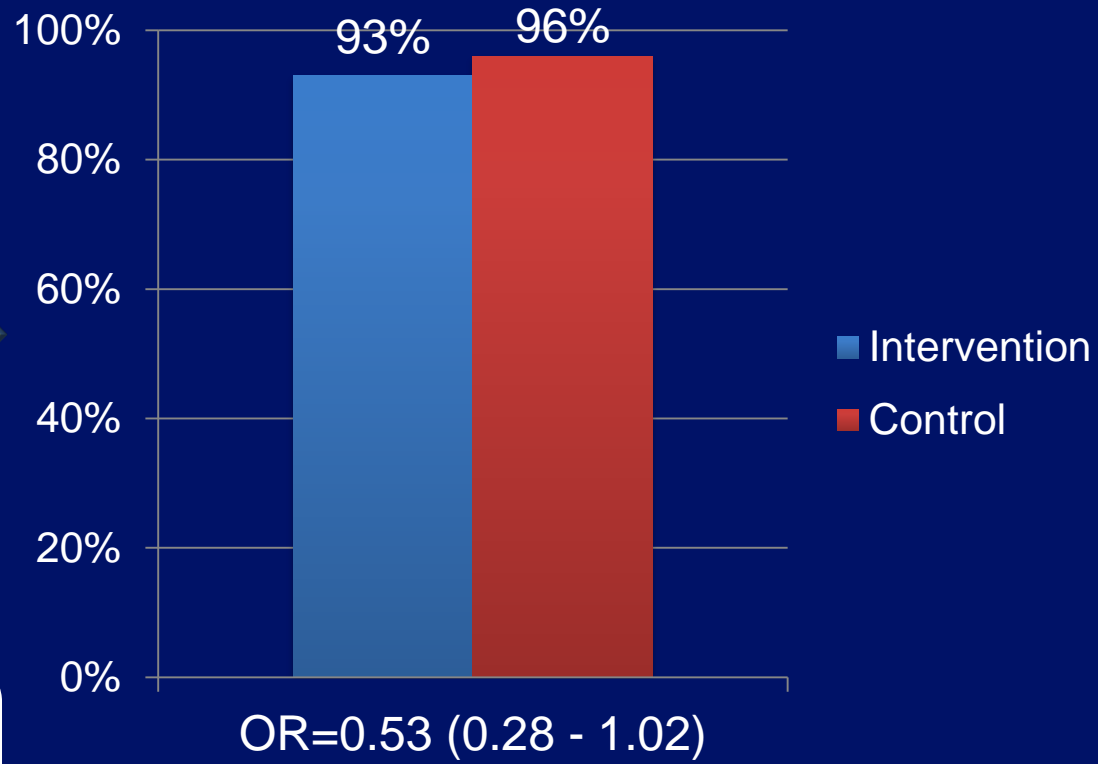
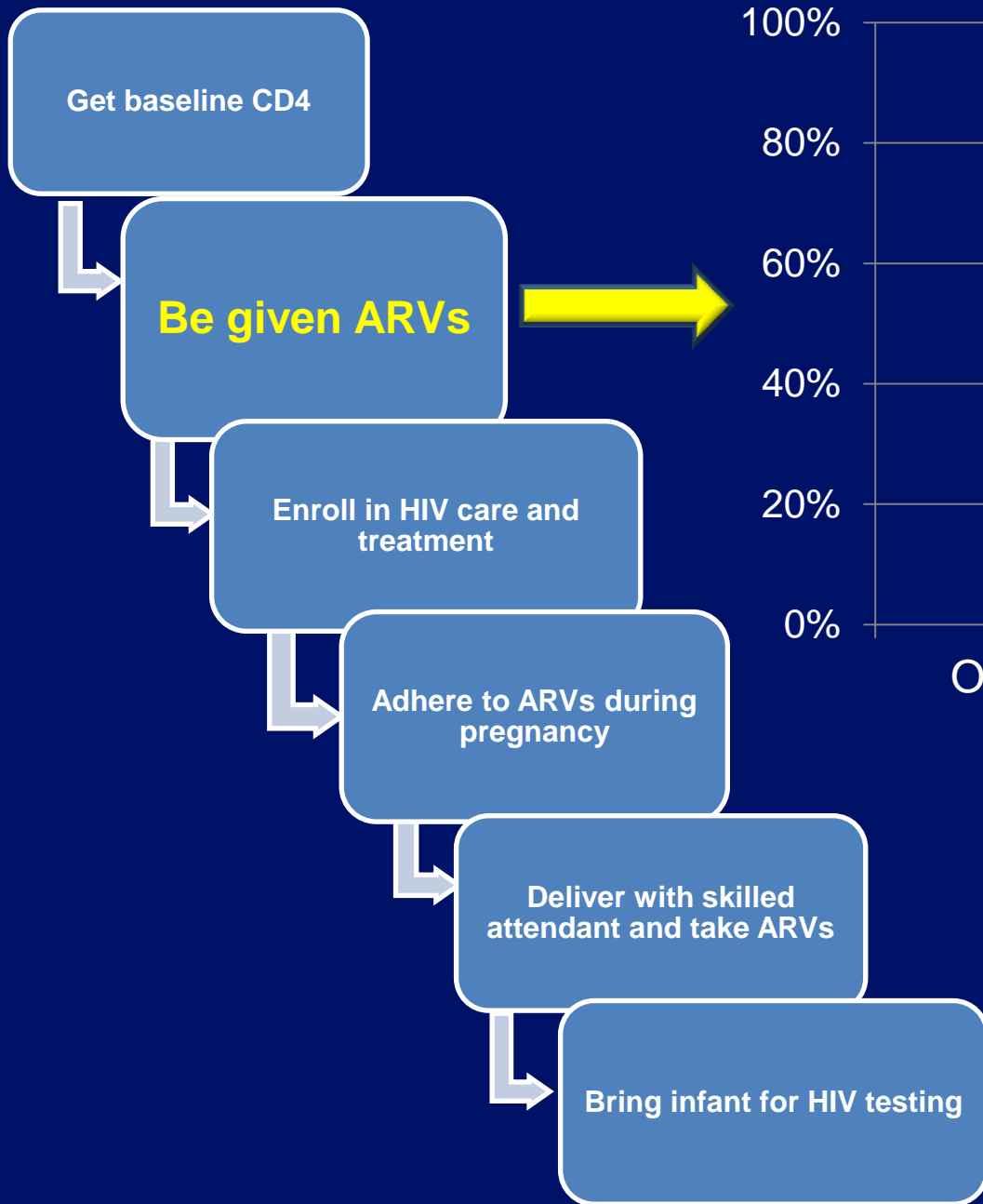
Follow safe infant
feeding practices

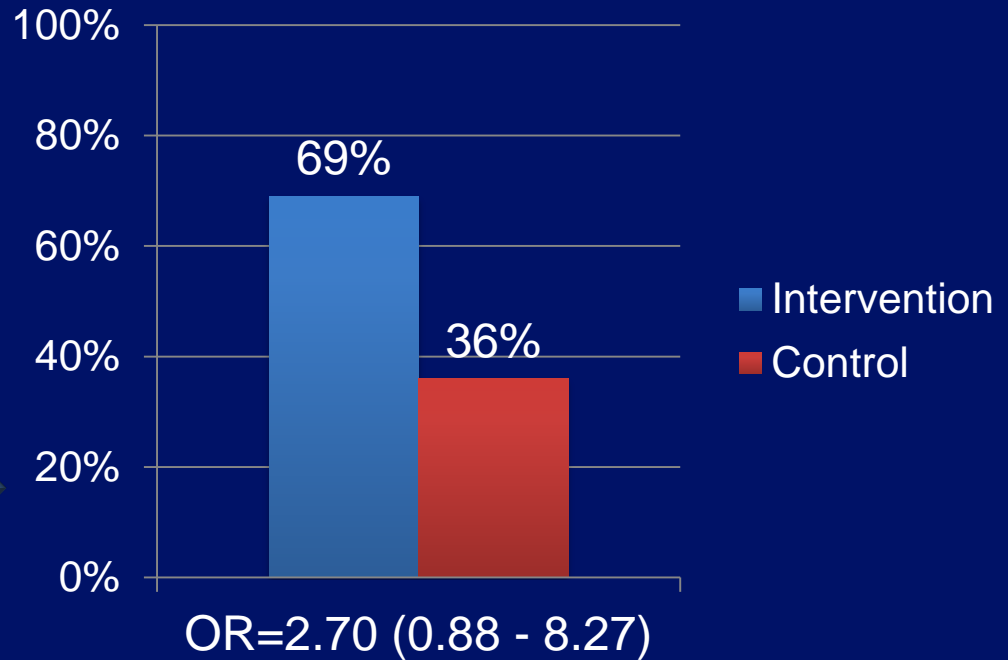
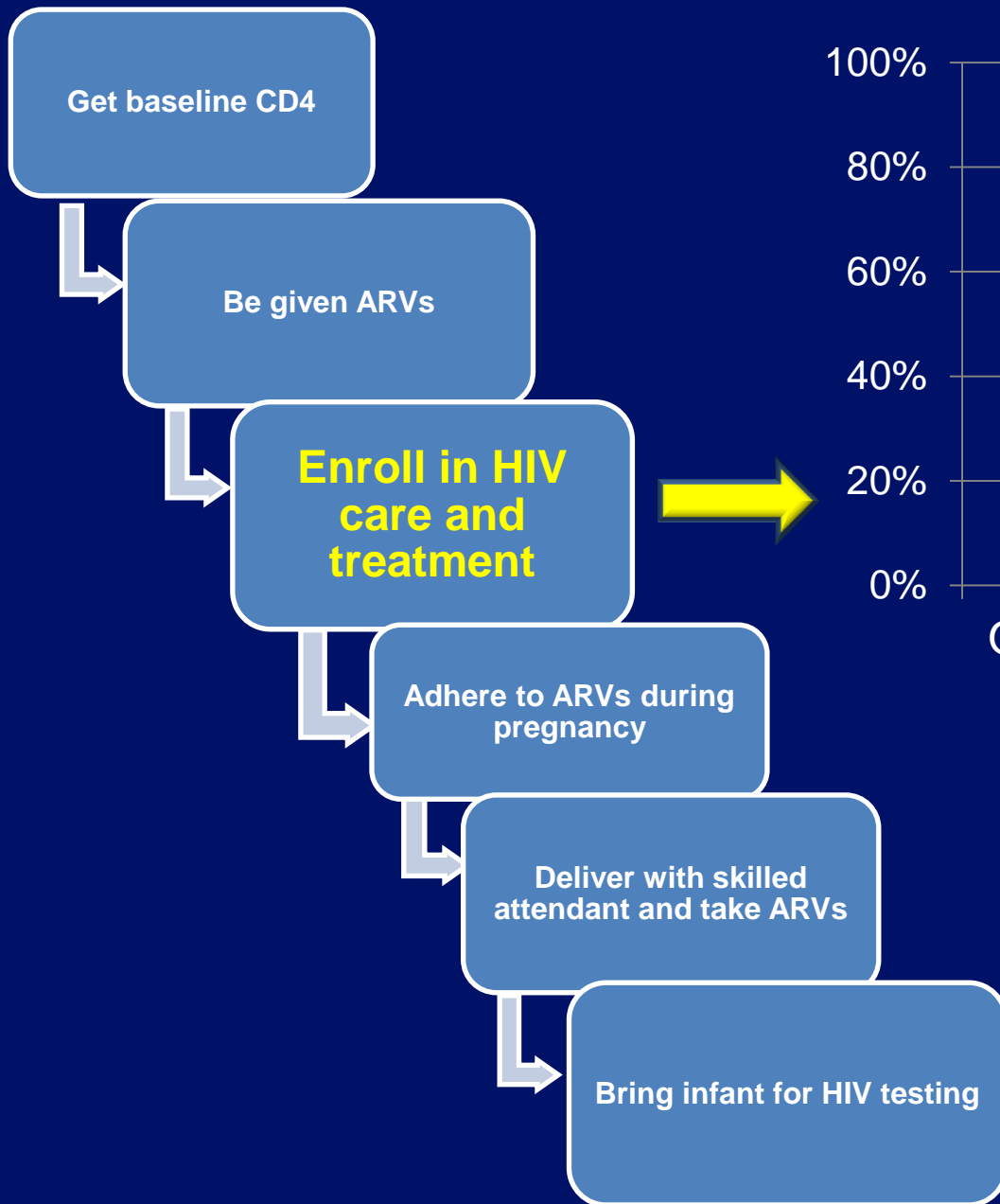
Bring infant for
HIV testing

Adhere to
maternal/infant
ARVs after birth

Use postpartum
family planning





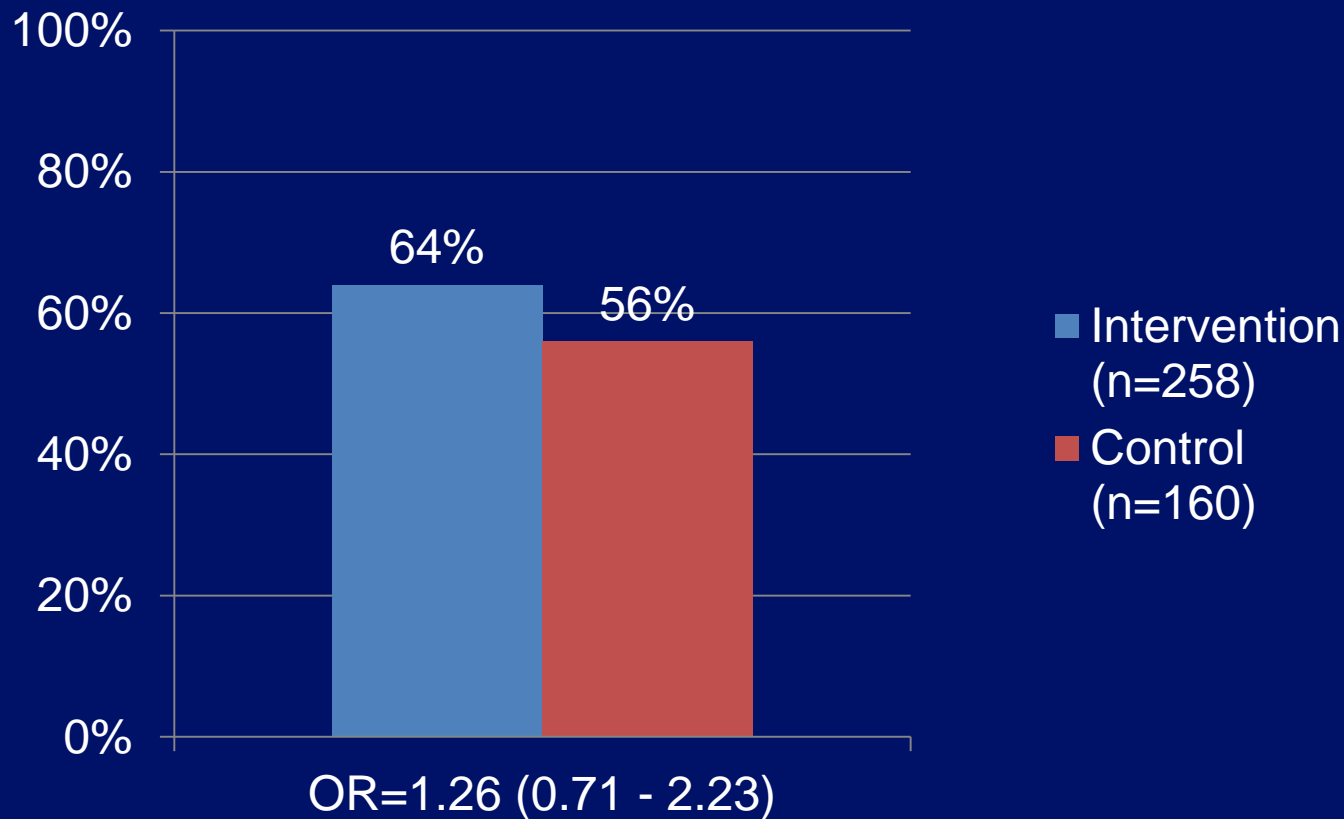


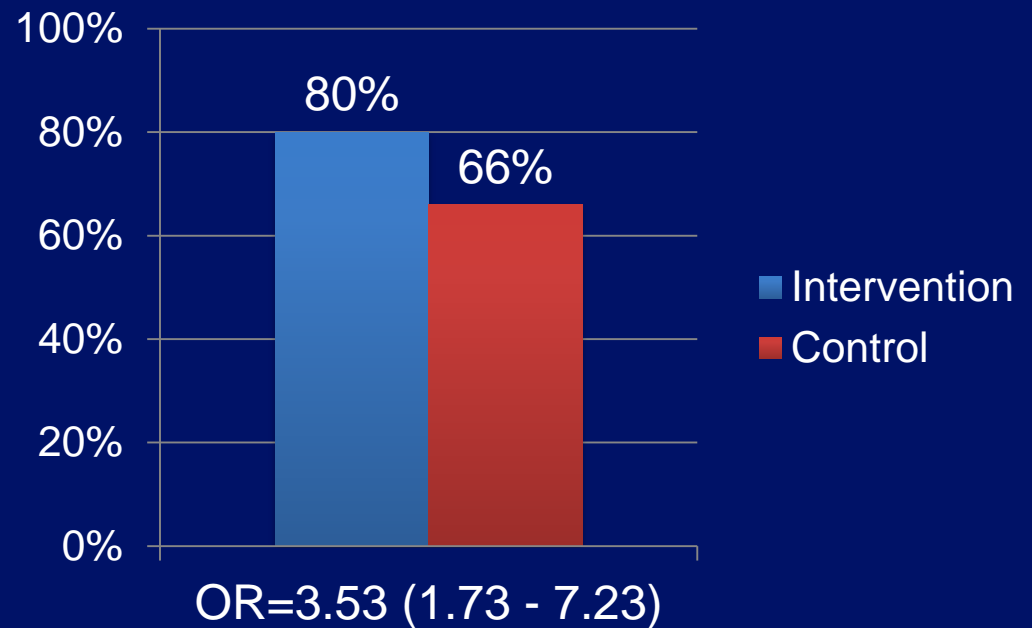
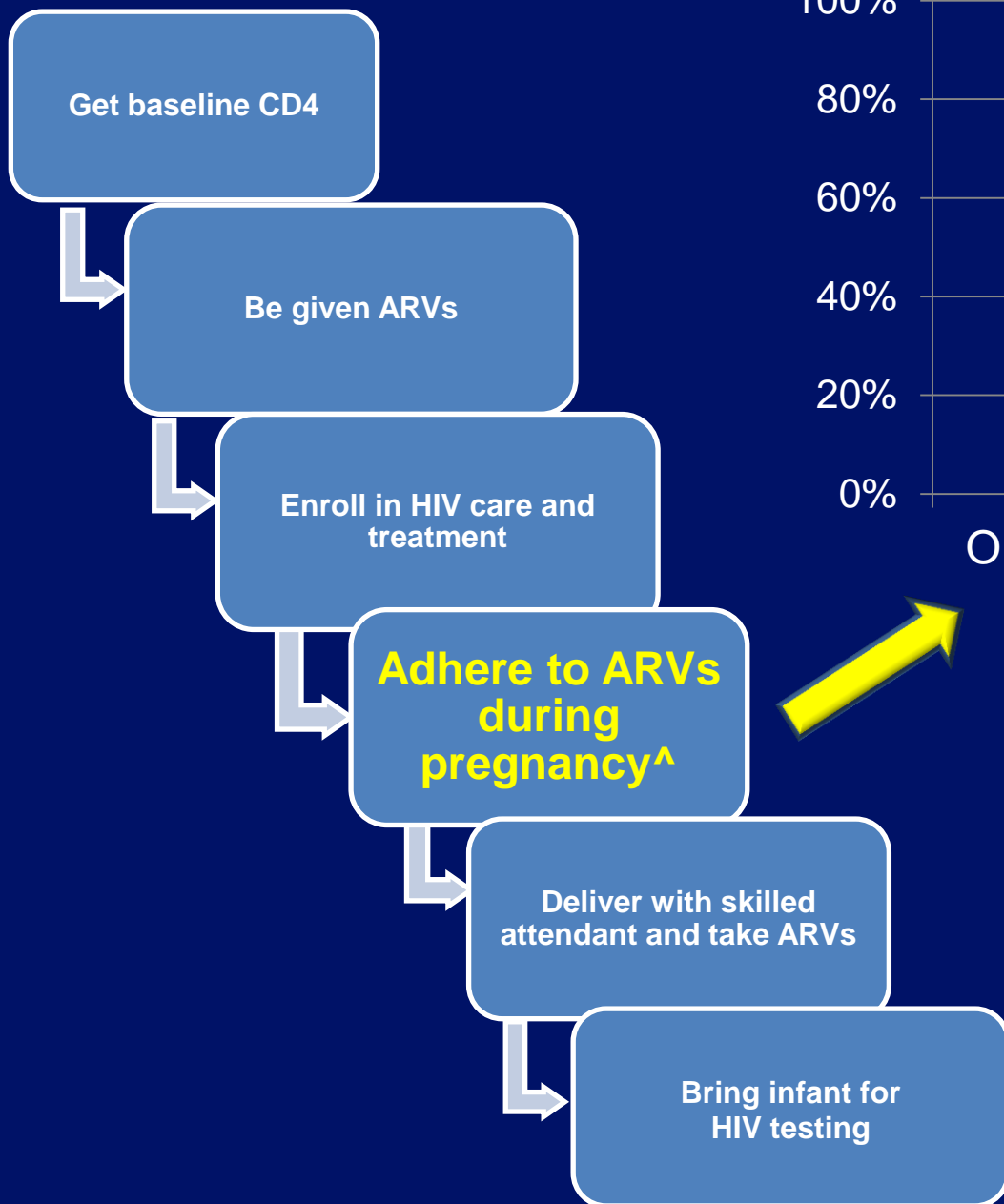
Median time to enrollment in HIV care:

- Intervention sites: 0 days
- Control sites: 8 days
 - HR = 2.2 (1.62-3.01)

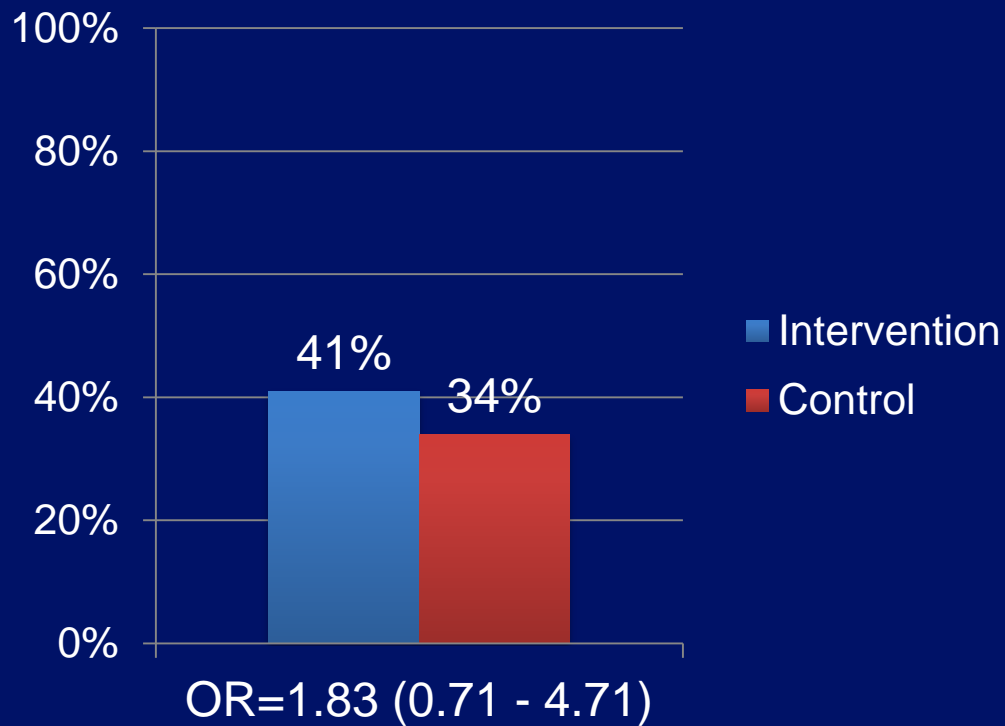
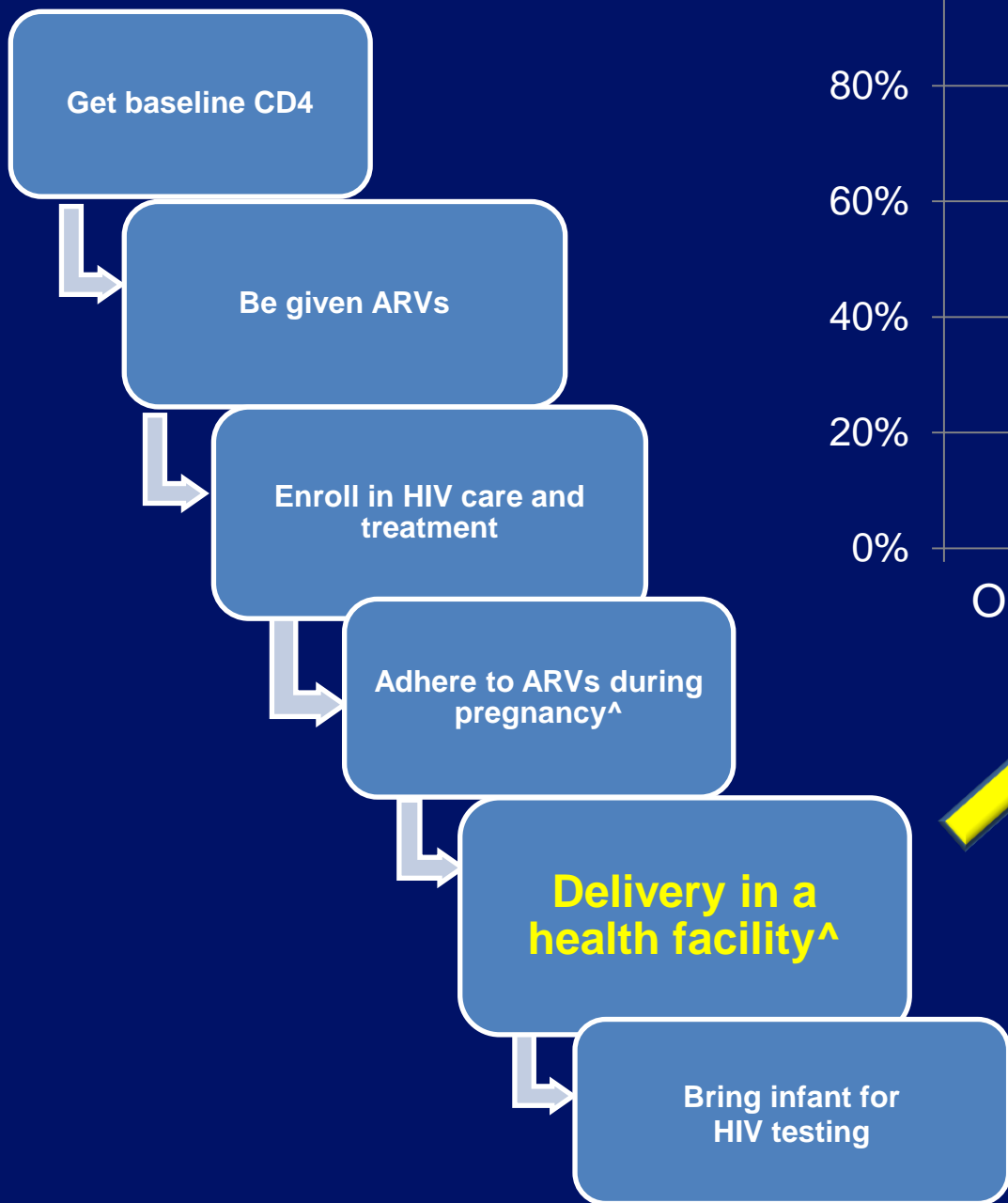
Retention in Care among Enrolled Women

At least 2 HIV care follow-up visits in the 6 months following enrollment in HIV care

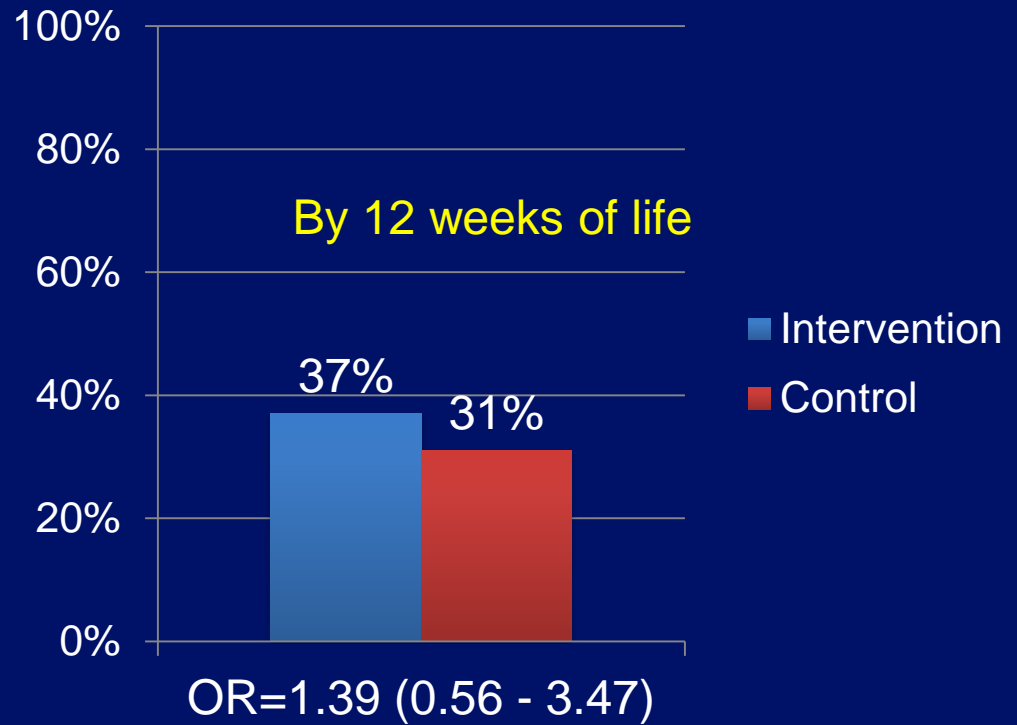
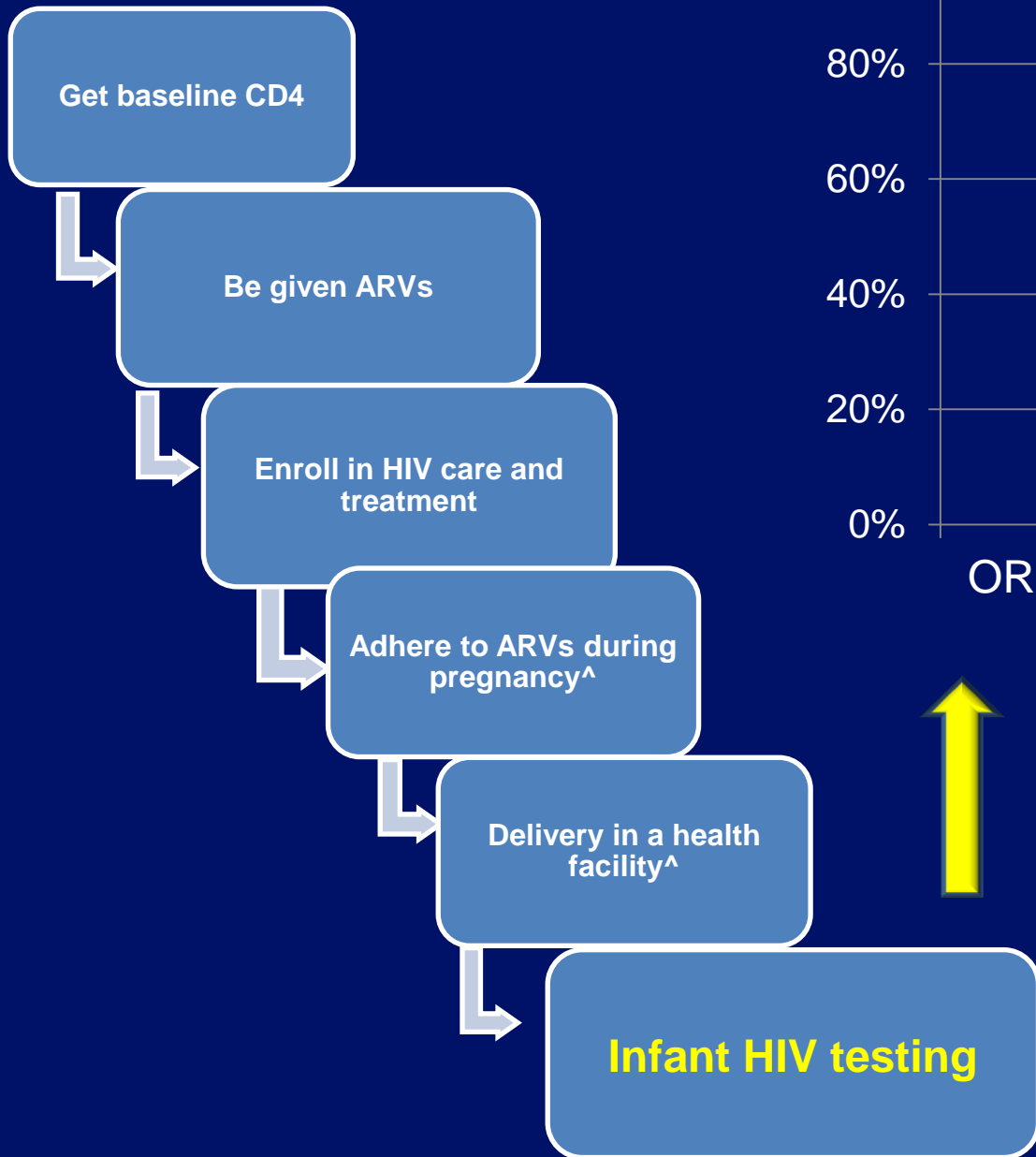




[^]Self report from women with postpartum forms (n=325)



^Self report from women with postpartum forms (n=325)



By close of study (around 9 months of age):

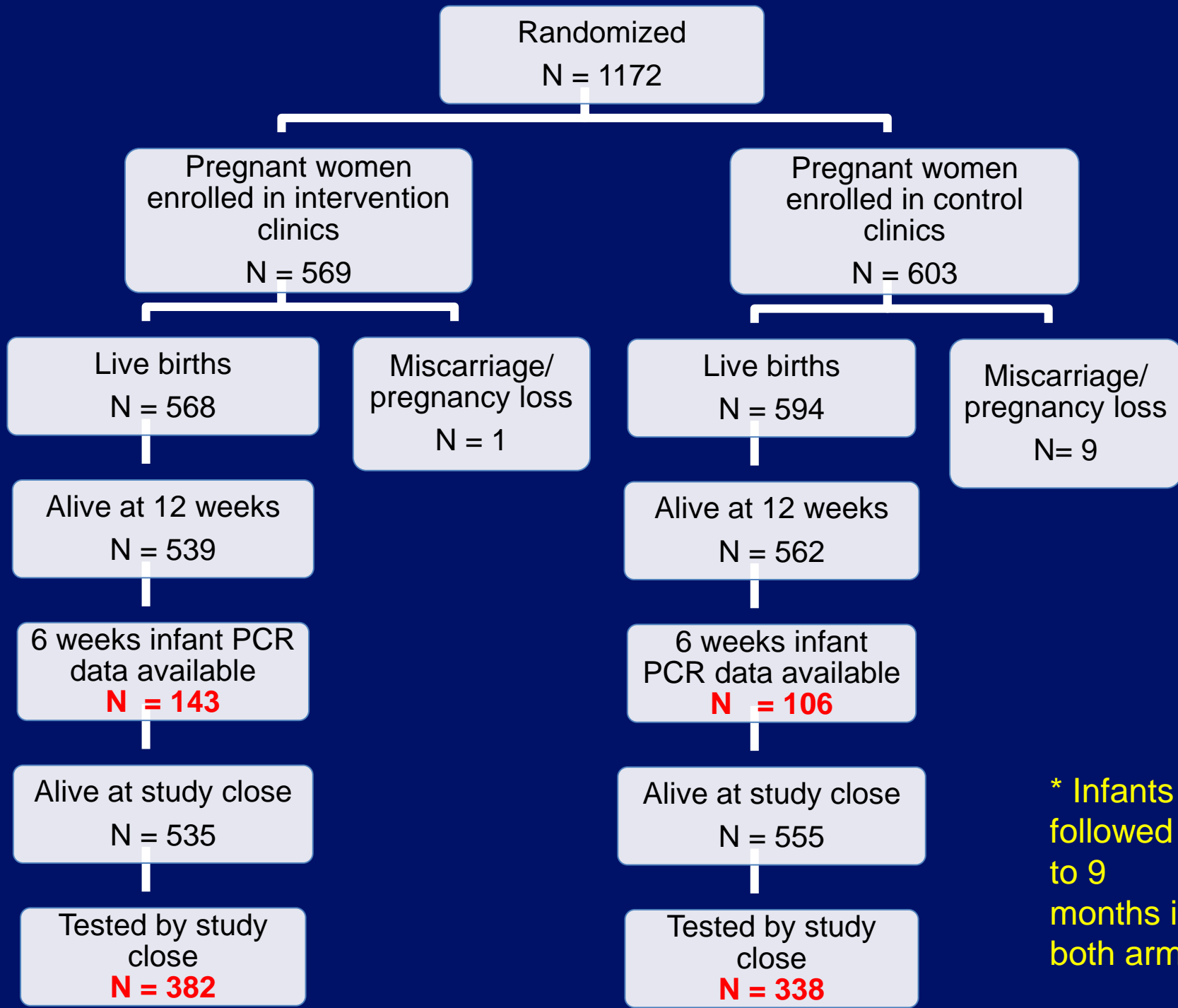
- Intervention: 67%
- Control: 56%
 - OR= 1.45 (0.74-2.87)

Conclusions

- Initial services received by pregnant women at ANC were similar in both study arms
- Results indicate strong positive effects of integration on:
 - women's timely enrollment in HIV care
 - Use of ARVs during pregnancy
- Trends toward positive effects on other PMTCT uptake outcomes, but not statistically significant
- Early infant diagnosis remained a challenge in both study arms

Effects on Maternal HAART Initiation and Maternal & Infant Outcomes

Sierra Washington, Starley B. Shade, Janet M. Turan, Elizabeth A. Bukusi, Maricianah Onono, Rachel L. Steinfeld, Marta Ackers, Craig R. Cohen



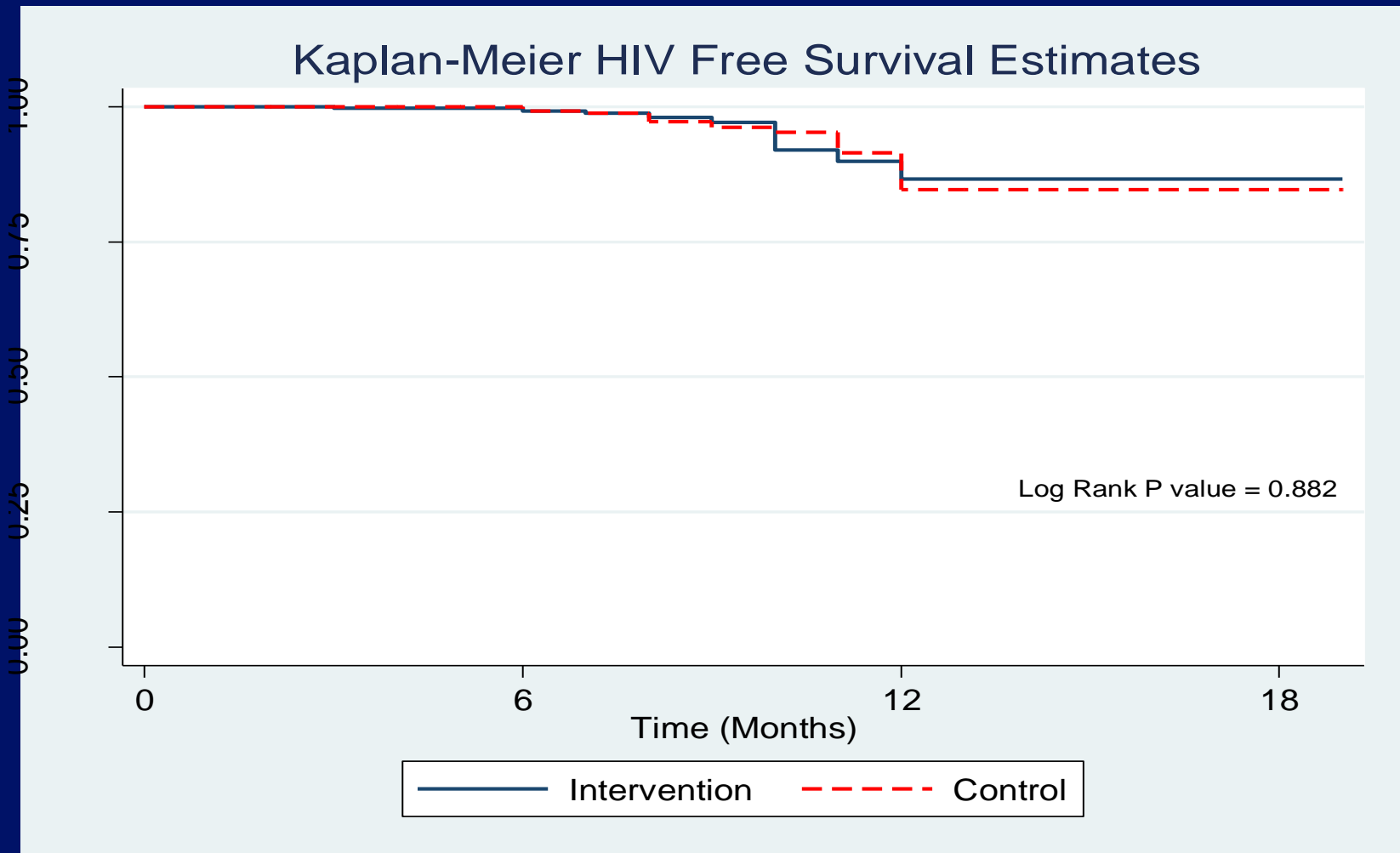
* Infants followed to 9 months in both arms

Infant Outcomes

| | Intervention N (%) | Control N (%) | Adjusted OR | 95% CI |
|--|-----------------------|------------------|----------------|---------------|
| Total exposed infants (All live births) | 568 (99.8) | 594 (98.5) | 10.76 | (1.14-101.85) |
| Infant Exclusively breastfed [^] | 70 (58) | 69 (58) | 1.10 | (0.61-2.01) |
| HIV infected at 6 weeks PCR test | 6 (4.2) | 7 (6.6) | 0.62 | (0.20-1.90) |
| HIV infected by end study period (by 9 months) | 28 (7.3) | 27 (8.0) | 0.89 | (0.56-1.43) |

[^]Self report from women with postpartum forms (n=325)

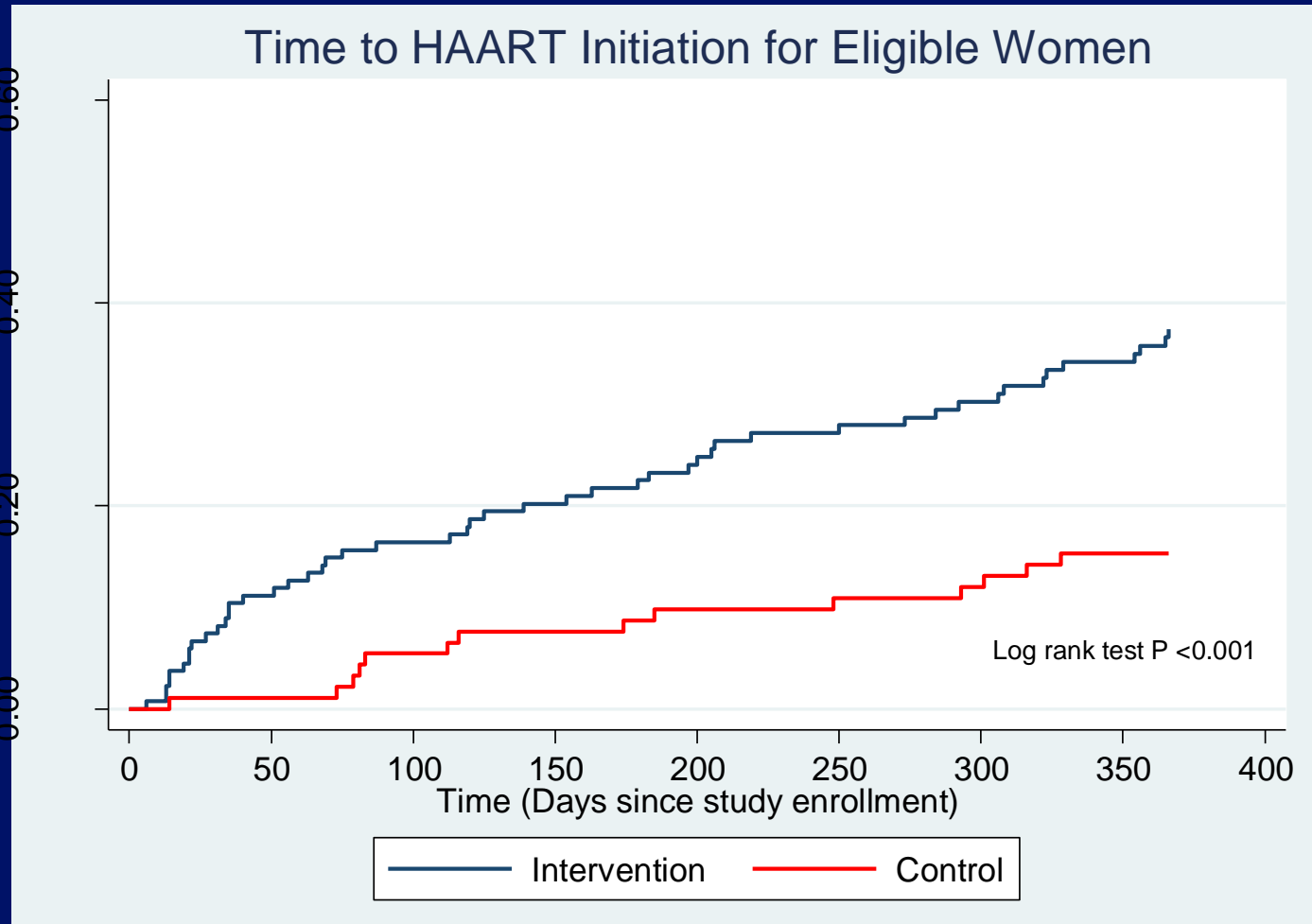
HIV free survival Amongst Exposed Infants



Maternal Outcomes

| | Intervention N (%) | Control N (%) | Adjusted OR | 95% CI |
|---|-----------------------|------------------|----------------|-----------|
| Composite clinical or immunologic progression to AIDS | 10 (1.8) | 7 (1.2) | 1.38 | 0.45-4.25 |
| Lost to Follow up (LTFU) | 147 (25.8) | 200 (33.2) | 0.74 | 0.37-1.51 |
| Maternal Death - N(%) | 9 (1.6) | 8 (1.5) | 1.19 | 0.43-3.29 |
| Composite LTFU or Death | 156 (27.4) | 208 (34.5) | 0.76 | 0.40-1.44 |

Time to HAART Initiation Among Eligible Women



Median days to initiation of HAART (IQR):

- Intervention: 125 days (35-273)
- Control: 185 days (83-316)
- HR=2.74 (1.56-4.80)

Conclusions

- Integration of HIV services into the ANC clinic was not associated with a reduced risk of MTCT.
- In the short term, there was no difference in maternal health outcomes in integrated clinics compared to standard clinics.
- However, integration of HIV services into the ANC clinic resulted in earlier initiation of HAART in eligible patients.