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Implementation Update
ASPIRE Protocol Team Meeting
October 2013



MTN-020 / ASPIRE





Outline

Meeting overview

ASPIRE

- Where we've been
- Where we are
- Where we are going

Meeting overview

- A packed day:
 - MORNING: focus on adherence what we are doing, learning, and changing at the community, in-clinic, and individual levels
 - AFTERNOON: lively discussion of clinical safety, retention, and data quality
 - THROUGHOUT: remembering our Big 5 metrics, working together as a team
 - END OF THE DAY: Awards!

Where we have been



MTN-020 / ASPIRE

A Multi-Center, Randomized, Double-Blind, Placebo-Controlled Phase III
 Safety and Effectiveness Trial of a Vaginal Matrix Ring Containing
 Dapivirine for the Prevention of HIV-1 Infection in Women





The Big Five

Accrual

Data Quality and Timeliness

Retention

Clinical and Laboratory Safety



Adherence

ASPIRE calendar

- January 2011 and ongoing
 - Multilevel consultations on the science and implementation, leading to protocol version 1.0 in September 2011
- August 2012 present
 - Start and go! Enrollments, follow-up, highest-quality execution of all protocol aspects



October 2012 (<100 enrolments)







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- May 2013
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- □ April, August & October 2013
 - SMC reviews



March 2013: learning from PrEP trials

	HIV protection for FTC/TDF versus placebo	% of blood samples with tenofovir detected	
Partners PrEP	75%	81%	
TDF2	62%	79%	
iPrEx	44%	51%	
FEM-PrEP	No HIV protection	~30%	
VOICE	No HIV protection	~30%	

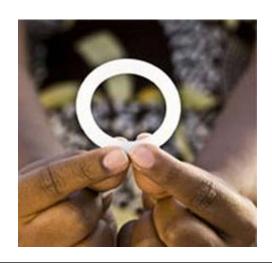
No adherence = no HIV protection

Efficacy and effectiveness





A Study to Prevent Infection with a Ring for Extended Use



Adherence is Everything

Jared Baeten MD PhD
Thesla Palanee PhD

ASPIRE Adherence Meeting Durban, South Africa 14 March 2013



Adherence Action!

- Products don't work if they aren't used
- Since March 2013:

Recognition of priority: scale-up across sites

Participant and staff engagement activities

IoR and SCs involved with difficult participants counselling

Fun waiting room discussions and social events

HIV ribbon and ring activities

Male partner engagement efforts

Visual inspection of the rings

PK data reviewed, shared, and acted upon

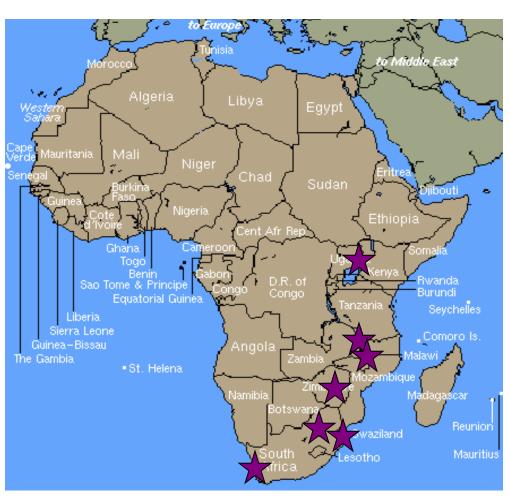
Learning from qualitative component of ASPIRE



Where we are



15 Sites across 4 countries



Blantyre Lilongwe **Malawi**

Cape Town
Durban (7 sites)
Johannesburg
South Africa

Kampala **Uganda**

Harare/Chitungwiza (3 sites) **Zimbabwe**



Accrual (23 Oct 2013)

Site	First enr	# enr	scr:enr ratio
MA – Blantyre	13 JUN 13	36	1.6
MA – Lilongwe	17 JUN 13	43	1.5
SA – Cape Town	19 SEP 2012	150	1.3
SA – CAPRISA eThekwini	10 OCT2012	150	3.2
SA – MRC/Botha's Hill	10 SEP 2012	120	2.5
SA – MRC/Chatsworth	11 SEP 2012	115	2.7
SA – MRC/Isipingo	19 SEP 2012	117	2.6
SA – MRC/Tongaat	17 SEP 2012	103	3.3
SA – MRC/Verulam	13 SEP 2012	114	2.4
SA – MRC/Umkomaas	14 SEP 2012	87	2.5
SA – WHRI/Hillbrow	30 OCT 2012	141	1.8
UG – Kampala	21 AUG 2012	205	1.6
ZI – Seke South	01 NOV 12	155	1.9
ZI – Spilhaus	30 OCT 12	150	1.8
ZI– Zengeza	13 NOV 12	146	1.8
TOTAL		1832	2.1 ASPIR

Screen outs

- As of 24 October 2013:
 - 3940 screened, 1840 enrolled (2.1 ratio)
 - 242 did not complete screening
 - 27 declined enrollment
 - 2100 ineligible
 - □ 718 (34.1%) HIV+
 - 71 (8.1%) pregnant, planning, or breastfeeding

A Study to Prevent Infection with a Ring for Extended Use

- 408 (19.4 %) clinical/laboratory exclusion
- 507 (24.1%)"other" <u>including investigator</u> <u>decision</u>

Who is enrolling?



- Mean age: 27.1 years, Median: 26 years
 - 41% <25 years, 15% ≥35 years</p>
- Unmarried: MA (33%), SA (92%), UG (37%), ZI (13%)
- Secondary schooling: MA (56%), SA (96%), UG (50%), ZI (85%)
- 100% had a primary partner in past 3 months
 - 19% had ≥1 other partner in past 3 months

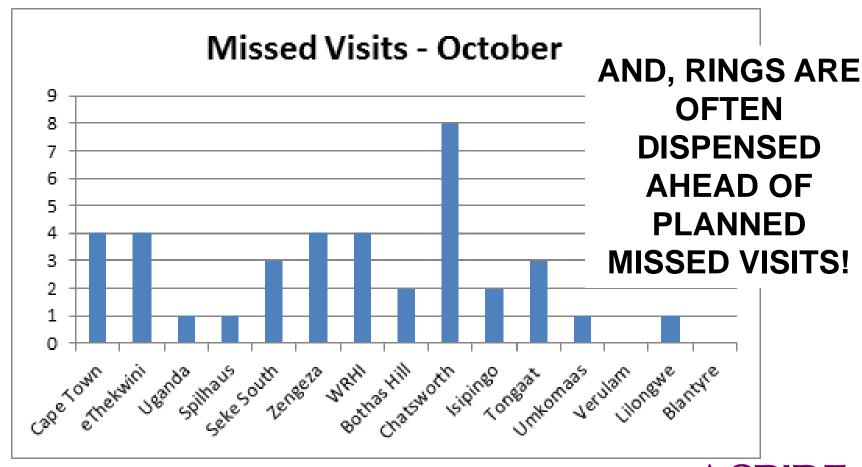
Retention: As at 17 Oct 13

- 1667/1701 Month 1 visits (98%)
- 1562/1622 Month 2 visits (96%)
- 1485/1549 Month 3 visits (96%)
- 1392/1467 Month 4 visits (95%)
- 1273/1355 Month 5 visits (94%)
- 1183/1272 Month 6 visits (93%)
- 1096/1172 Month 7 visits (94%)
- 961/1038 Month 8 visits (93%)
- 813/870 Month 9 visits (93%)
- 704/768 Month 10 visits (92%)
- 576/626 Month 11 visits (92%)
- 324/351 Month 12 visits (92%)
- 111/119 Month 13 visits (93%)
- 23/23 Month 14 visits (100%)





Retention: few missed visits!





Adherence Measurements and Monitoring

- We have learned much (and reacted to much) about non-use, non-interest?
 - Who returns without rings in place? Rings coming out?
 - Qualitative interviews, staff observations
 - Blood and swab samples



Data Quality = unmatched!



MTN-020 (ASPIRE) DATA MANAGEMENT QUALITY REPORT September 2013



Cumulative: Study Start through September 2013

				% CRF Pages		
Site	Total Records	Total QCs	QC Rate Per 100 Records	% QCs Resolved	Received Within 7 Days	Mean Days to Fax in AE
Spilhaus/Zimbabwe	10294	103	1.0	98%	98%	3.5
Seke South/Zimbabwe	9883	163	1.6	99%	99%	11
Blantyre/Malawi	812	25	3.1	96%	89%	7.0
Lilongwe/Malawi	894	21	2.3	100%	98%	3.1
MRC - Chatsworth	11509	632	5.5	98%	93%	11.3
MRC - Botha's Hill	12038	697	5.8	100%	97%	7.8
MRC - Umkomaas	8691	400	4.6	100%	95%	3.6
MU-JHU/Kampala, Uganda	15239	390	2.6	97%	97%	11.1
Zengeza/Zimbabwe	9345	127	1.4	100%	99%	7.8
MRC - Isipingo	10616	271	2.6	94%	95%	3.6
MRC - Tongaat	10002	380	3.8	99%	99%	2.6
MRC - Verulam	11265	296	2.6	100%	98%	4.0
CAPRISA eThekwini	12089	422	3.5	98%	98%	2.3
WRHI/Johannesburg	9179	509	5.5	98%	96%	4.8
Emavundleni/Cape Town	11226	418	3.7	100%	99%	2.1
TOTAL	143082	4854	3.4	99%	97%	5.8



Safety

- Safety is the co-primary endpoint of the study
 - Evaluating whether the product is safe is just as important as whether the product is effective for HIV prevention
 - Regulatory authorities will scrutinize safety data and careful attention to safety documentation is critical



Laboratory

- Laboratory results and archived samples are central to this study
 - THANK YOU TO ALL THE WORK!



Contraceptive Action Team

Incredibly motivated and innovative approaches to broaden contraceptive mix, counsel on highly-effective and safe methods, and provide methods on site

Mix is diverse: 20% IUDs, ~15% implants currently!

Team communications

- Monthly team calls
 - Tremendously valuable, site-driven, sharing experiences
- Weekly priority emails from FHI360 to sites
 - Collating protocol team priorities
- Listservs
 - Cross-site communications/sharing



Where we are going



End of enrollment

- ASPIRE protocol planned to enroll approximately 3476 women, anticipating a background HIV incidence of 3.9% per year
 - With at least 120 HIV seroconversions required to assess HIV protection with confidence
 - Goal to have 12 months of safety data per participant to assess safety, with early participants contributing longer
- Recent data (VOICE, FEM-PrEP) have demonstrated that HIV incidence is, unfortunately, higher than 3.9% per year in several settings
 - Fewer than 3476 enrollees may be necessary.
 - Considerations ongoing. End enrollment = Q1/Q2 2014.



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- 19 November 2013
 - DSMB review



Timeline

2011

Initiate site IRB and regulatory approval process

2012

IRB/regulatory approvals, trainings, start

2013

Enrollments, follow-up

2014

• End of enrollment, continue follow-up

2015

Completion of follow-up, results



Retention from day 1 to day X

- Every enrolment should be considered
 - ASPIRE is a many-month, multi-hour commitment
 - Trust your instincts, trust team instincts, keep your enthusiasm
- How can we continue to create cultures that make sites places where participants want to spend several hours each month? (and staff each day of each month) ASPIRE

A Study to Prevent Infection with a Ring for Extended Use

Adherence Success (?!)

- Creative ideas from all members of the team are leading to adherence success in ASPIRE
 - Counseling
 - Engagement
 - Analysis
- We truly have the opportunity to demonstrate a potentially revolutionary HIV prevention intervention

A Study to Prevent Infection with a Ring for Extended Use

The Big Five

Accrual

Data Quality and Timeliness

Retention





Adherence

Accural→Retention→Adherence→Safety→ Quality

- Smart accrual
- High retention
- Motivated adherence (engagement)
- 100% attention to data quality & participant safety

Everything else flows from these



We are all in this together

 We all work together – all parts of the study are all our business

Recruitment QC/QA

Retention Regulatory

Adherence Safety Monitoring

Sample collection Space/facilities

Staff morale Study drug/pharmacy

Community/outreach Contraception

Communications Lab-clinic interface

Lab quality Monitoring follow-up

A Study to Prevent Infection with a Ring for Extended Use

ASPIRE ...

OPPORTUNITY



IT TAKES A TEAM









Malawi College of Medicine - JHU Research Project



