

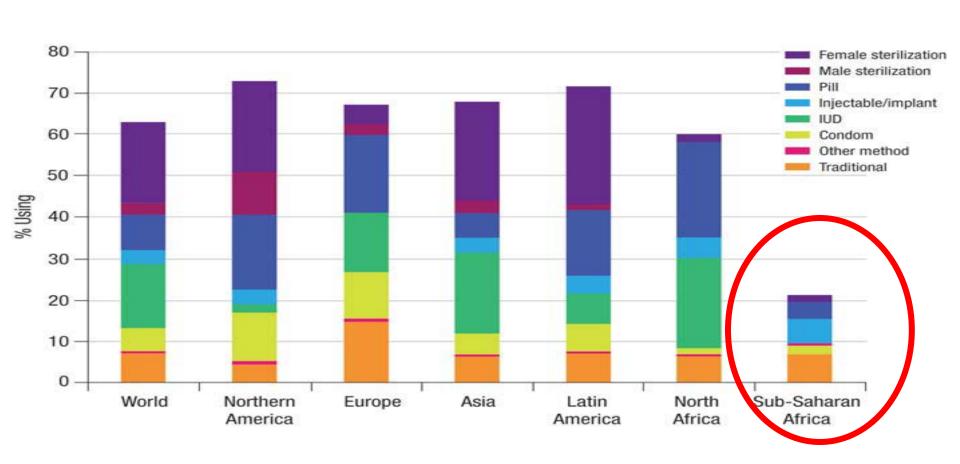
Uptake of IUCDs in ASPIRE

FG Mhlanga Spilhaus CRS, Zimbabwe 28 September 2016

Introduction

- In 2015, the worldwide contraceptive prevalence was estimated to be 64%.
- This represents close to 768 million women on contraceptives.
- Large regional differences in use of the various types of contraception exist.

Estimated method-specific contraceptive prevalence by major global region



The IUCD situation....

- The world over, the IUCD is the most widely used form of reversible form of contraception with close to 150 million users¹.
- In Sub-Saharan Africa, where a huge proportion of MTN HIV Prevention Trials are based, the uptake of IUCDs is generally poor (<2%)

Contraceptive uptake(in percentage) in previous PrEP Studies

	DMPA	COC	IMPLANTS	IUCDs
HPTN 035	22	72	4	<1
VOICE	71	22	5	<1
CAPRISA 04	83	15	0	0
FEM PREP	55	43	<2	<2
PARTNERS * PREP	27	7	5	9

^{*} Contraception was not a requirement in this study

The CAT Concept

- Microbicide trials require participants to be on effective contraception
- The Microbicide Trials Network (MTN)
 formed the Contraceptive Action Team
 (CAT) in June 2012 during the initial months
 of ASPIRE.
- Its goal was to expand the contraceptive options readily available to women participating in ASPIRE.

The CAT Concept

- Women were to be counselled about whole range of contraceptive methods including the non-hormonal IUCD
- The aim was to spread the contraceptive mix such that no single method would comprise more than 50% of the mix.

How CAT achieved high IUCD uptake in ASPIRE

- Planning meeting in June 2012, prior to site activations for ASPIRE study.
- Key barriers to IUCD uptake were identified initially:
 - provider, community, and participant bias
 - lack of IUD insertion training
 - need to acquire insertion devices
- Road map to action plans created.

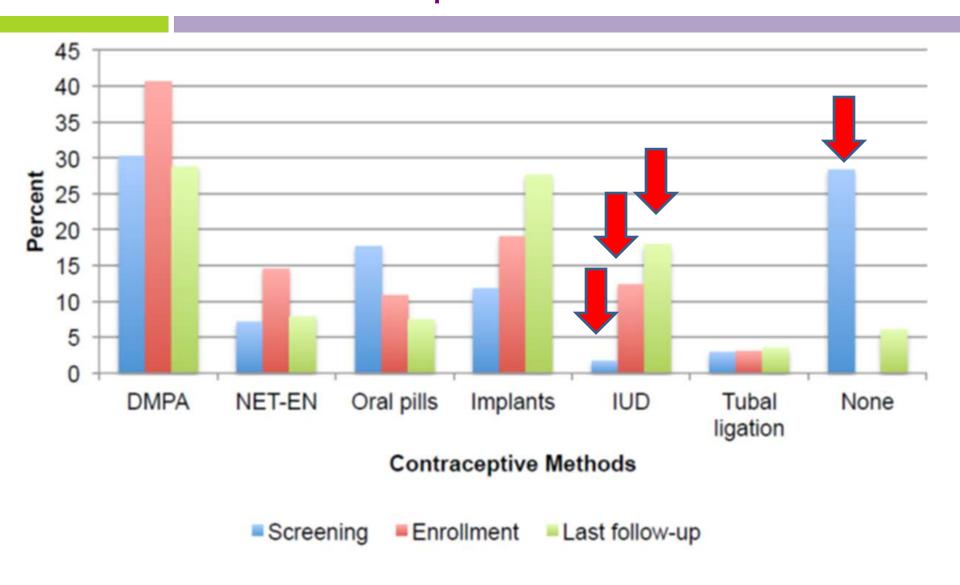
CAT Action Plans In ASPIRE

- The huge challenge of provider bias was addressed through didactic and practical training of MOs and RNs.
 - Initial training for each site immediately after the June 2012 meeting; ongoing thereafter

CAT Action Plans In ASPIRE

- Trained Outreach Workers & CAB to address community bias
 - more background information on IUCDs to be able to address basic questions asked in the community.
 - Participant handouts
 - Peer to peer education

Contraceptive use at screening, enrollment and the last follow-up visit attended in ASPIRE



The ASPIRE Experience

- 595 women enrolled in ASPIRE had an IUD inserted during study participation
- 403 (68%) were inserted on site.

- Questions:
- 1. Was IUD insertion equally well tolerated when done by nurses vs physicians?
- 2. How do our rates of complications compare with published data?

Characteristics of 556 Women Getting IUCDs in ASPIRE

N(%) or

Characteristics at enrollment

inserted as part of study participation in ASPIRE

	Median (IQR)		
Age, years	27	(22, 31)	
Currently married	235	(42%)	
Number of prior pregnancies	2	(1,3)	
Method of contraception at			
enrollment			
IUD*	269	(48%)	
Oral contraceptive pills	56	(10%)	
Injectable method	205	(37%)	
Implants	30	(5%)	

*IUDs were inserted between screening and enrollment and considered

Complications of IUD Insertion

Complications/side effects with the first IUD insertion	Clinical staff performing the IUD insertion								
	Study nurse n=215		Study doctor n=238		All Others* n=103		Total N=556		
	N	(%)	N	(%)	N	(%)	N	(%)	p
IUD expulsion	36	(17%)	23	(10%)	16	(16%)	75	(13%)	0.007
PID with IUD in place	7	(3%)	3	(1%)	4	(4%)	14	(3%)	
Bleeding irregularities	96	(45%)	97	(41%)	53	(51%)	246	(44%)	0.19
Pelvic pain	69	(32%)	30	(13%)	28	(27%)	127	(23%)	0.001
Confirmed Pregnancy	3	(1%)	7	(3%)	0	(0%)	10	(2%)	
Difficult removal	1	(0.5%)	0	(0%)	1	(1%)	2	(0.4%)	
Missing strings	6	(3%)	8	(3%)	4	(4%)	18	(3%)	
Other**	7	(3%)	9	(4%)	4	(4%)	20	(4%)	

^{*}All others includes those insertions by staff at health facility, staff at private health facility or unknown.**Uterine pain, backache, anaemia, partner feeling the IUD at intercourse, urinary tract infection, nausea and vomiting. P-values generated using Chi-squared test comparing differences across the three groups for the selected complications/side-effect

Conclusions

- Nearly 1 in 5 women accepted the IUD
- Complications similar between physician and nurses:
 - PID
 - bleeding irregularities
 - missing strings
- Complications different:
 - pelvic pain
 - expulsions
- Additional investigation is required to understand the contributors to IUD expulsion and pelvic pain in this setting in order to reduce its frequency in the future.

Implication for HOPE

- Uptake of LARCS including IUDs is feasible
- Additional training may be needed to reduce the incidence of IUD expulsion and to reduce pelvic pain for participants
- IUDs may be used in our region to reduce the unmet need of contraception utilizing nurse practitioners!

THANK YOU VERY MUCH!

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