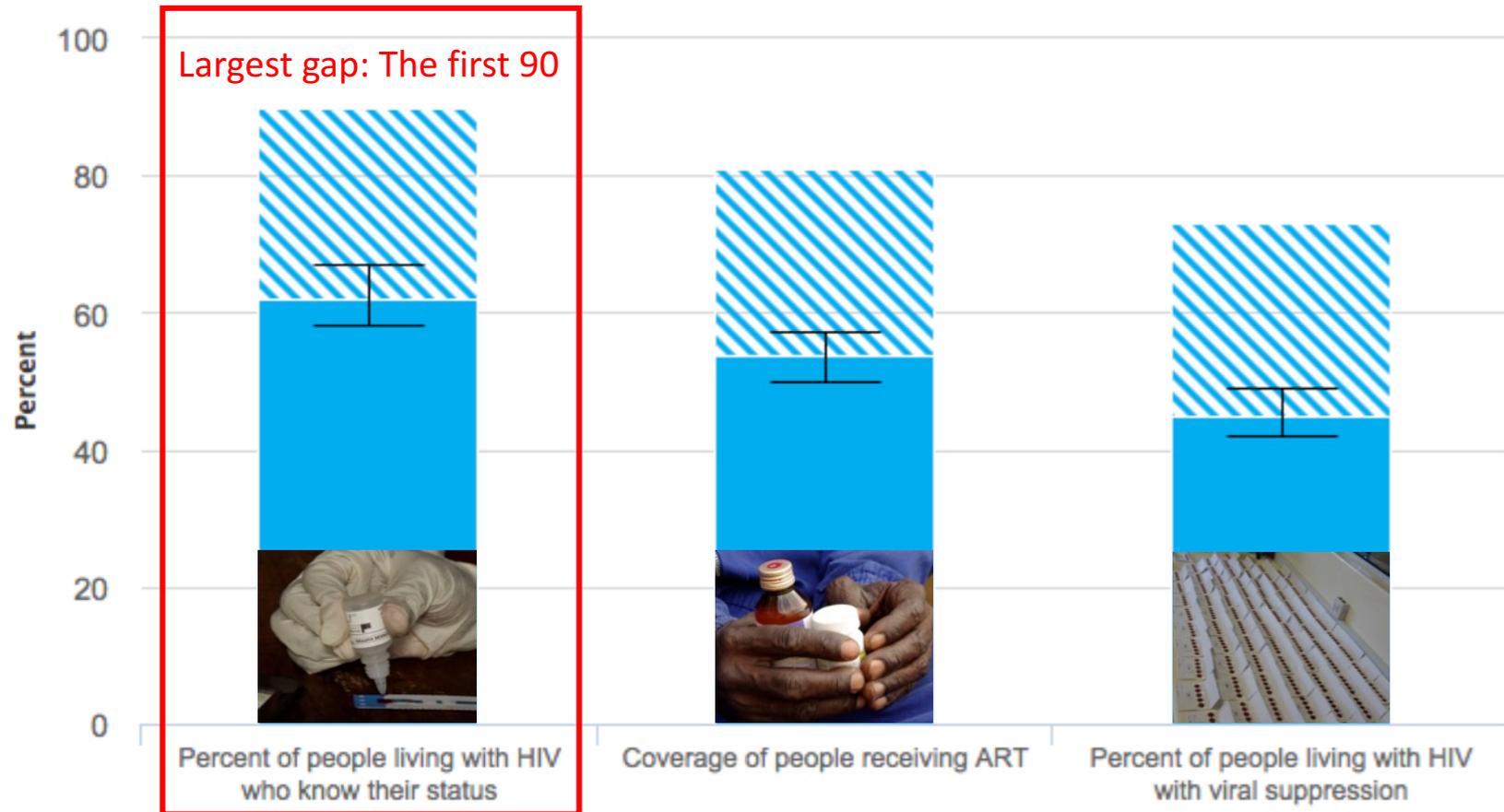




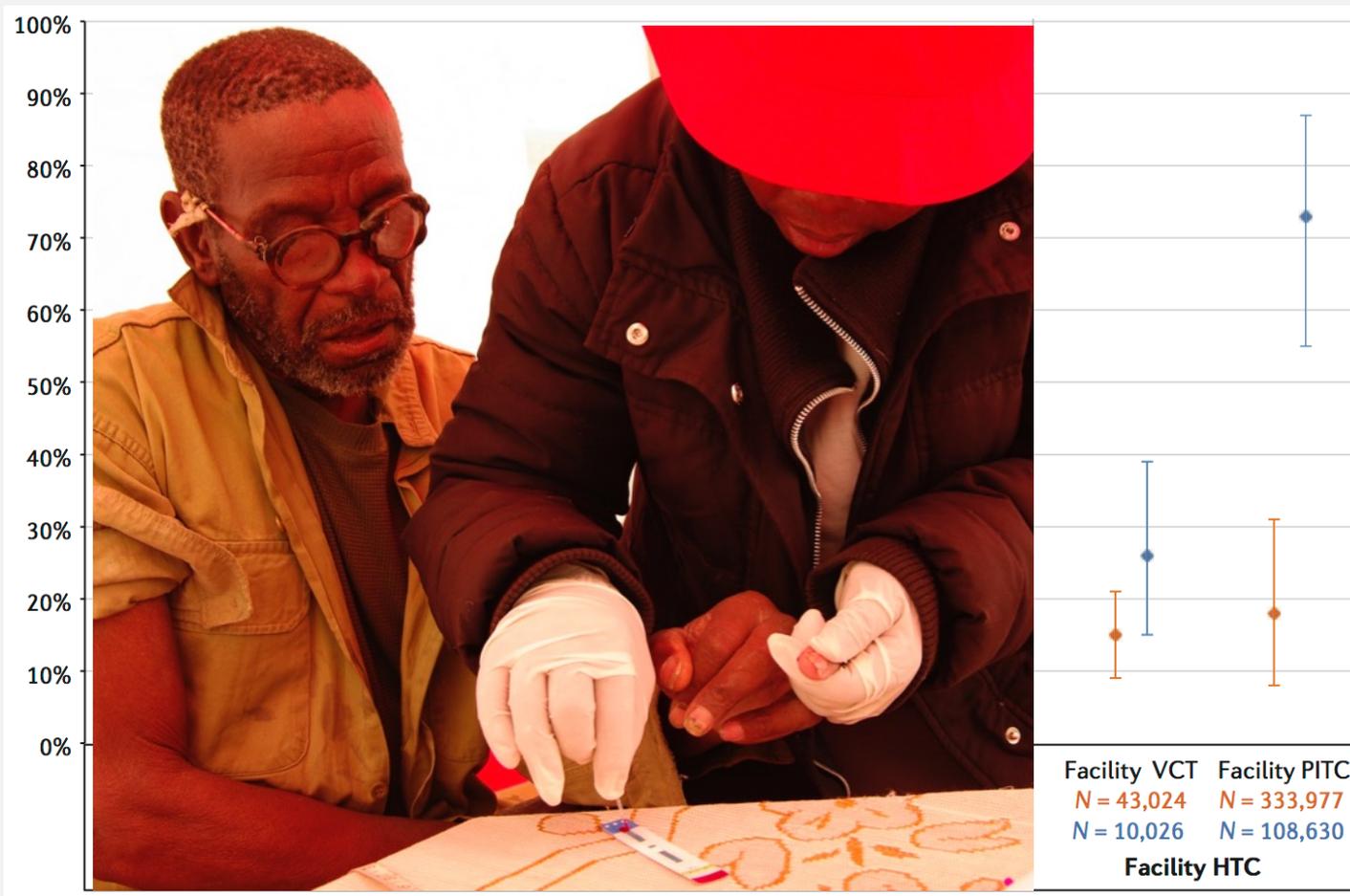
90-90-90 - Yes, but how?

Implementation strategies for resource-limited high-prevalence settings

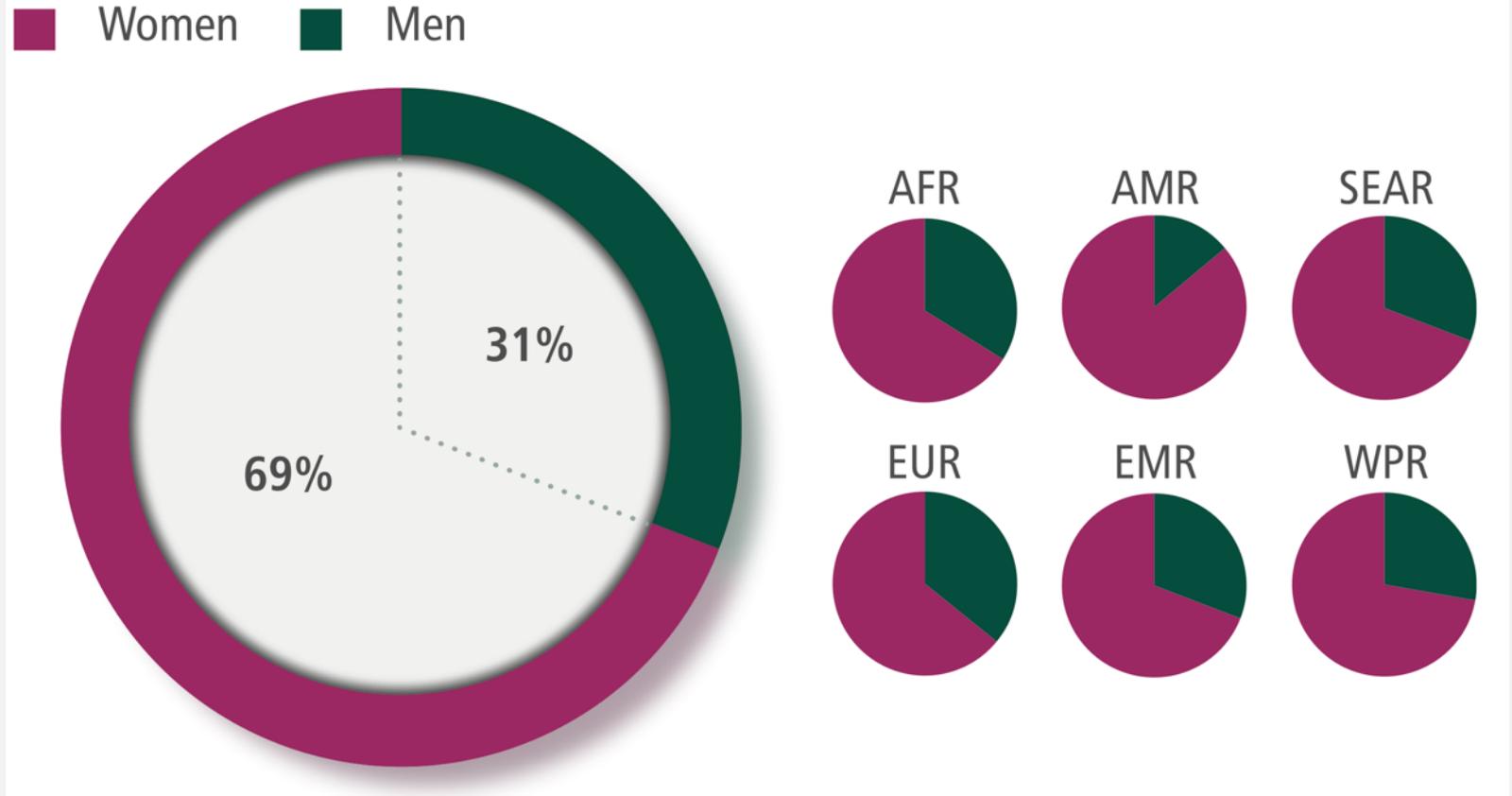
The Care Cascade in South Eastern Africa – where are we?



From VCT to HIVST: How to reach the first 90?



How to reach men?



Sex distribution among clients of HIV testing services, WHO 2016

Strategies to improve HTC uptake and coverage

- Trained lay providers
- Community-based approaches
- Integration into multi-disease campaigns
- Voluntary Assisted Partner Notification Services
- Combination of HIV testing with Voluntary Medical Male Circumcision (men)
- Combination of HIV testing with access to Pre-Exposure Prophylaxis
- Oral Self-testing

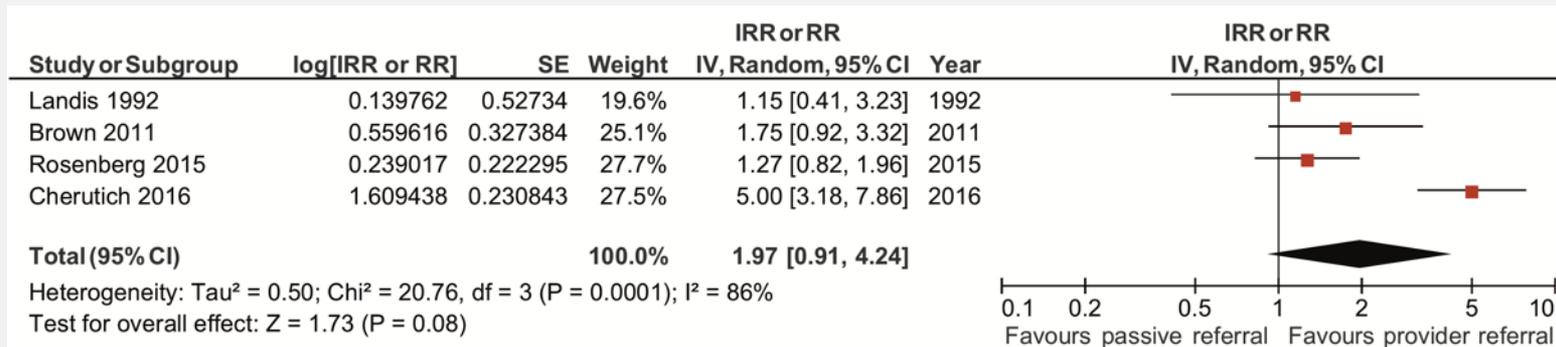
Kennedy, C.E., Yeh, P.T., Johnson, C. & Baggaley, R., 2017, *AIDS care*, pp. 1-7

Sharma M, Barnabas RV, Celum C (2017). PLoS Med 14(4): e1002262. doi:10.1371/journal.pmed.1002262

Voluntary Assisted Partner Notification Services

Partner notification results

	Male	Female	Children	Total
HIV-positive clients	74	131	0	205
Partners/family identified	194	150	236	580
Partners/family tested for HIV	113	92	126	331
Partners/family HIV-positive	48 (42%)	56 (61%)	12 (10%)	116 (35%)



Experience with home-based HTC in Lesotho



2011: Home-Based vs. Mobile Clinic HIV Testing

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December 16, 2014

Home-Based Versus Mobile Clinic HIV Testing and Counseling in Rural Lesotho

Niklaus Labhardt and colleagues investigate how different HIV testing and counseling strategies, based on home visits or mobile clinics, reach different populations in a rural African setting.

Image credit: Niklaus Labhardt

Home-Based HIV Testing



1. Higher uptake - 92.5%!
2. More first-time testers
3. More men

Mobile Clinic HIV Testing



1. Lower uptake – 86.7%
2. More newly diagnosed HIV infections

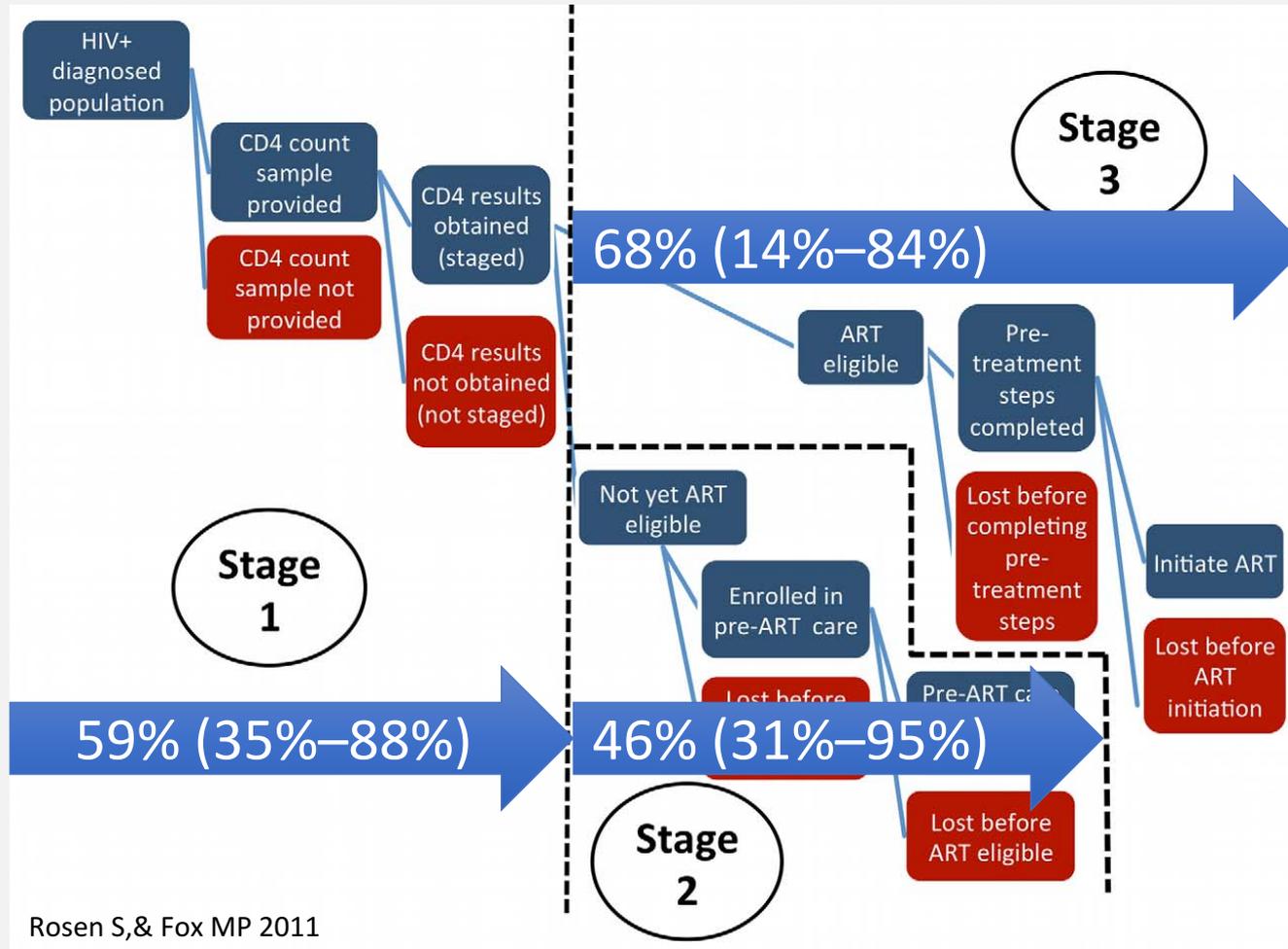
Combination of different HTC delivery methods



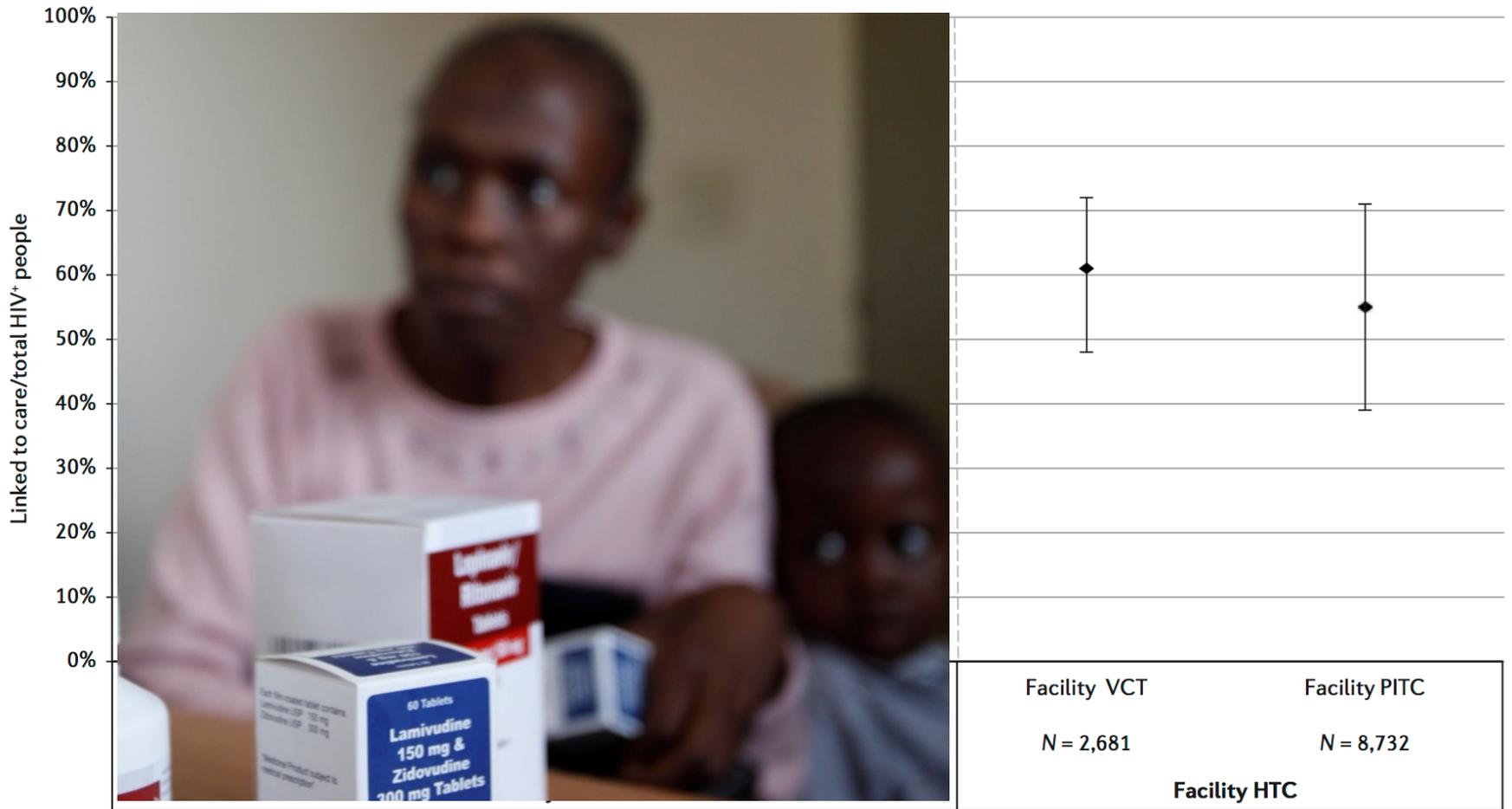
The second 90: linkage to care



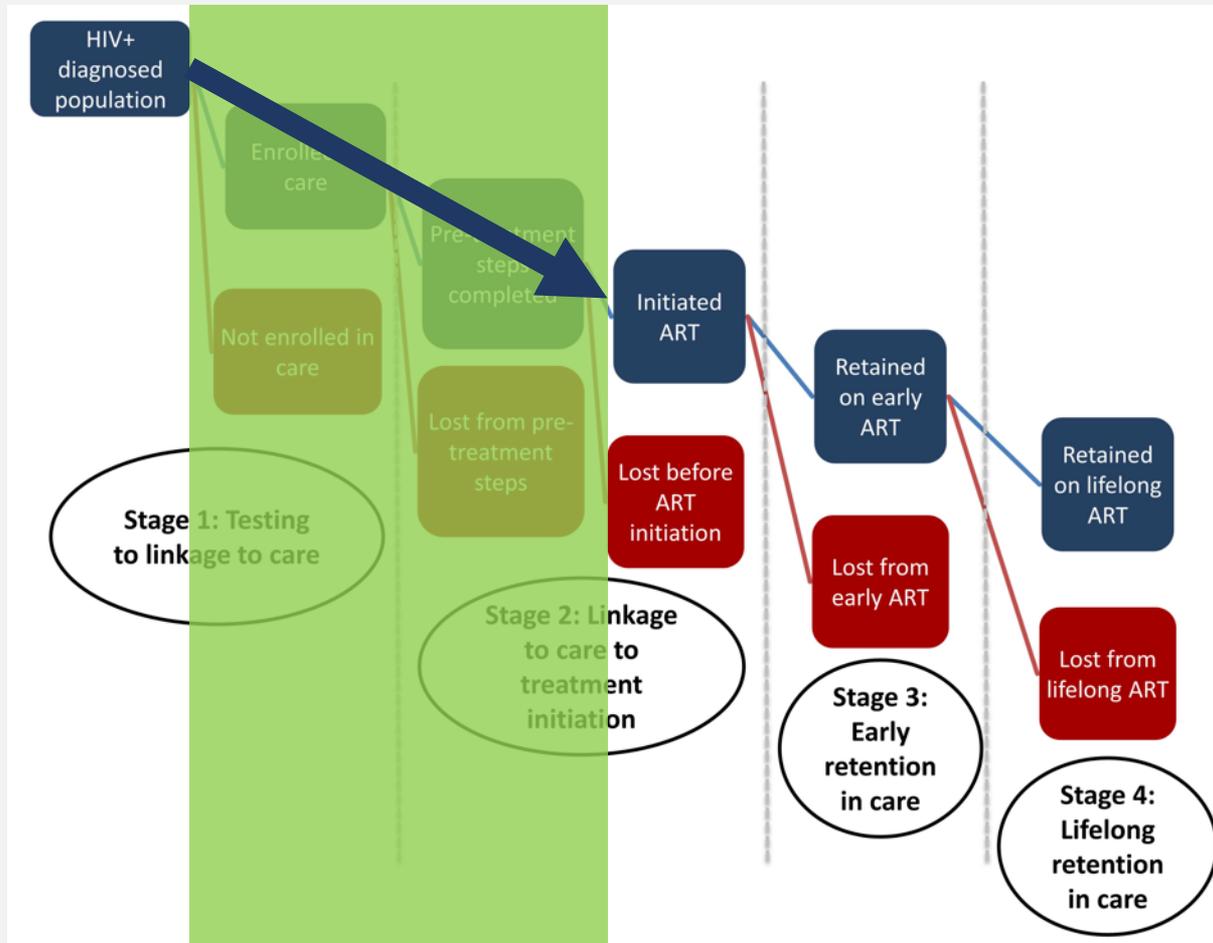
Linkage to care – the old cascade



Linkage to care, the Achilles' heel?



The new cascade in the era of test-and-treat



CASCADE-Trial

by Swiss TPH



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MED

Swiss TPH

Swiss Tropical and Public Health Institute
Schweizerisches Tropen- und Public Health-Institut
Labhardt et al. *BMC Public Health* (2016) 16:329
DOI 10.1186/s12889-016-2972-6

BMC Public Health

- About
- Updates (27)
- Data submissions (13538)
- Documents (1)
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The objective of the CASCADE trial is to improve the ca
label randomized controlled trial (RCT) tests a simplifie
initiation for persons who newly tested HIV-positive. T
www.clinicaltrials.gov (NCT02692027)

STUDY PROTOCOL

Open Access



Same day ART initiation versus clinic-based
pre-ART assessment and counselling for
individuals newly tested HIV-positive
during community-based HIV testing in
rural Lesotho – a randomized controlled
trial (CASCADE trial)

<https://visibleimpact.org/projects/1197-cascade-trial>

Niklaus Daniel Labhardt^{1,2*}, Isaac Ringera³, Thabo Ishmael Lejone³, Phofu Masethothi³, T'sepang Thaanyane³, Mashaete Kamele³, Ravi Shankar Gupta⁴, Kyaw Thin⁵, Bernard Cerutti⁶, Thomas Klimkait⁷, Christiane Fritz³ and Tracy Renée Glass^{1,2,8}

„Colapsing the cascade“ – same-day ART start

CASCADE-trial:

Linkage to care after tested HIV+ during home-based HTC

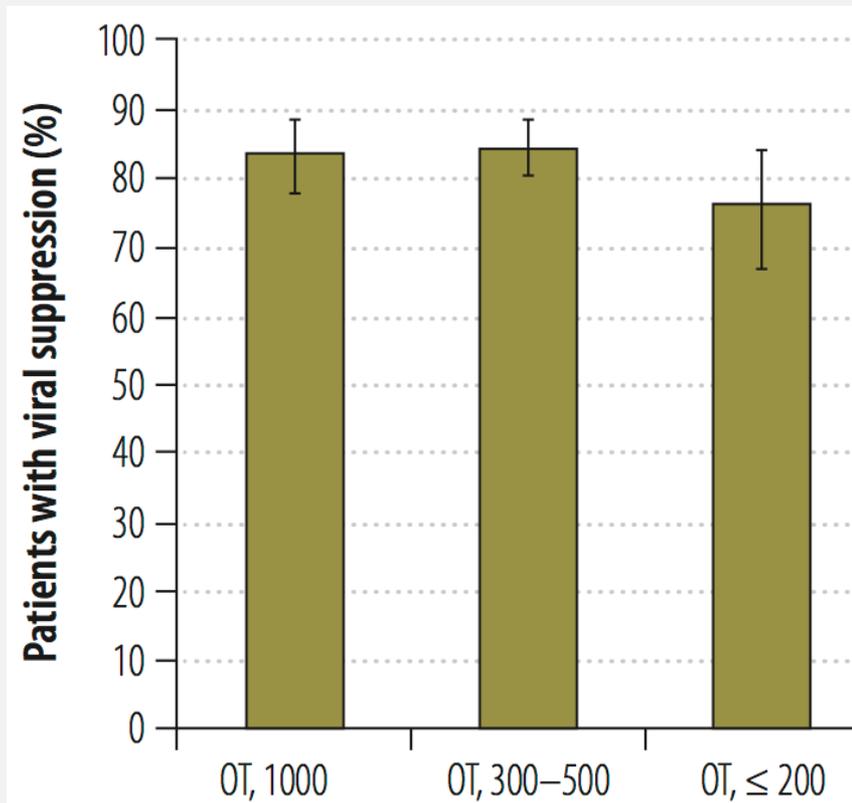
- **Comparator:** referral to clinic
- **Intervention:** start ART the same day at home
- **Endpoints:**
 - Linkage to care at 3 months
 - Viral suppression 12 months after positive HIV-test
- **Start:** February 2016



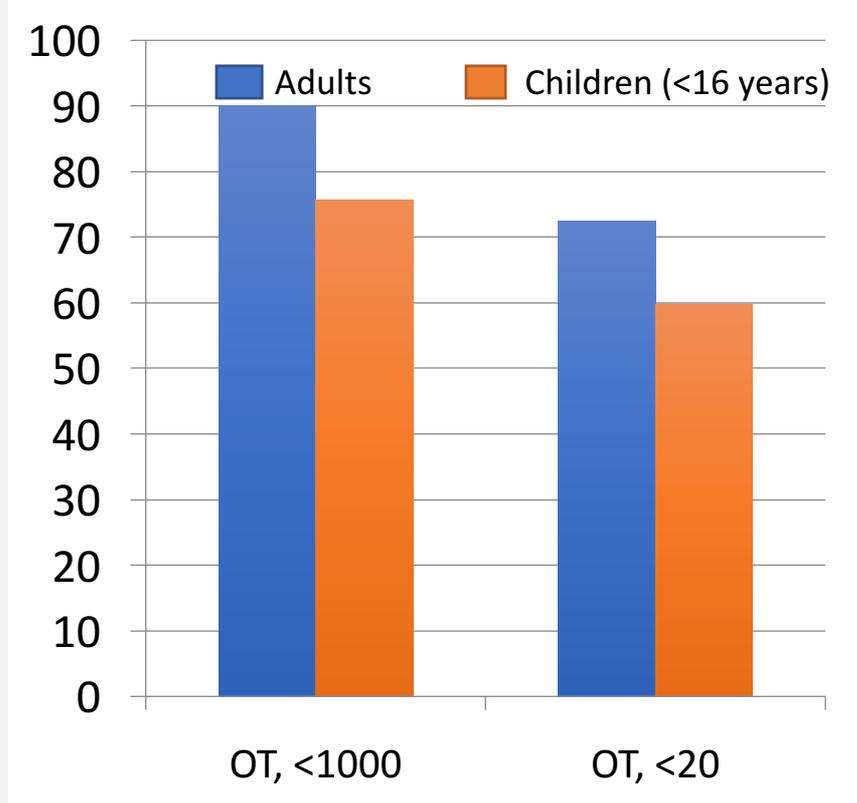
The Third 90: Viral Suppression

Viral Suppression in Resource-limited Settings

Meta analysis ¹



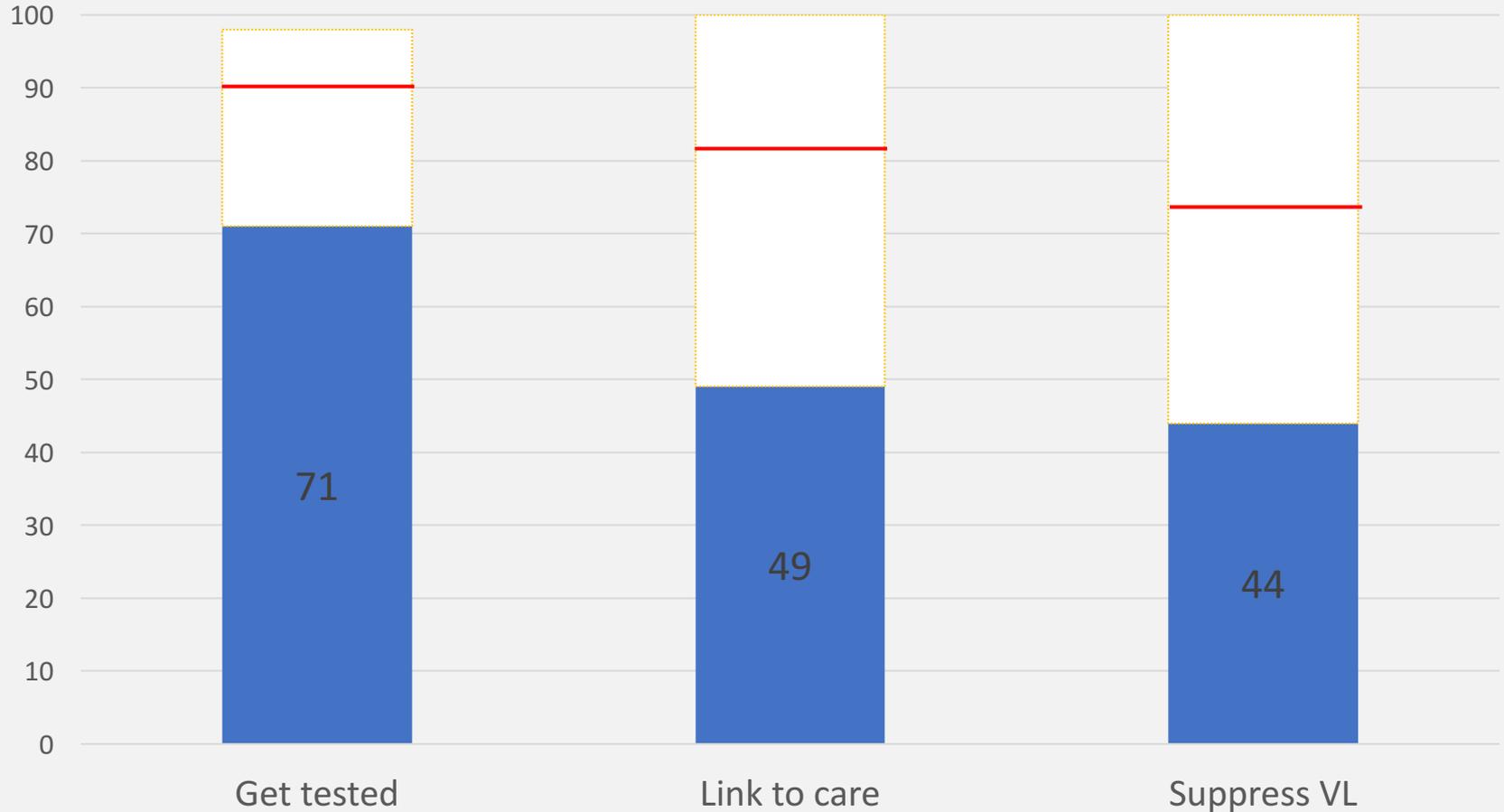
Lesotho (Butha-Buthe) ²



1) McMahon JH, Elliott JH, Bertagnolio S, Kubiak R, Jordan MR. *Bull World Health Organ* 2013, **91**:377-385E.

2) Based on 5079 viral loads done in 4298 individuals (n=283 children)

The cascade in the Lesotho project



Summary

- **First 90:**
 - Community-based interventions are key
 - Combination of different HTC delivery models
 - „the last mile“ will cost a lot
- **Second 90:**
 - Collapse the cascade
 - Make access to ART as simple as possible
- **Third 90:**
 - Be prepared for the „failure cascade“





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Muhairwe, Isaac Ringera, Thabo
Lejone, Kamele Mashaete,
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