

# Use of a Pre-Screener Questionnaire to Identify women at higher risk of HIV: The Aurum Institute's Klerksdorp Experience

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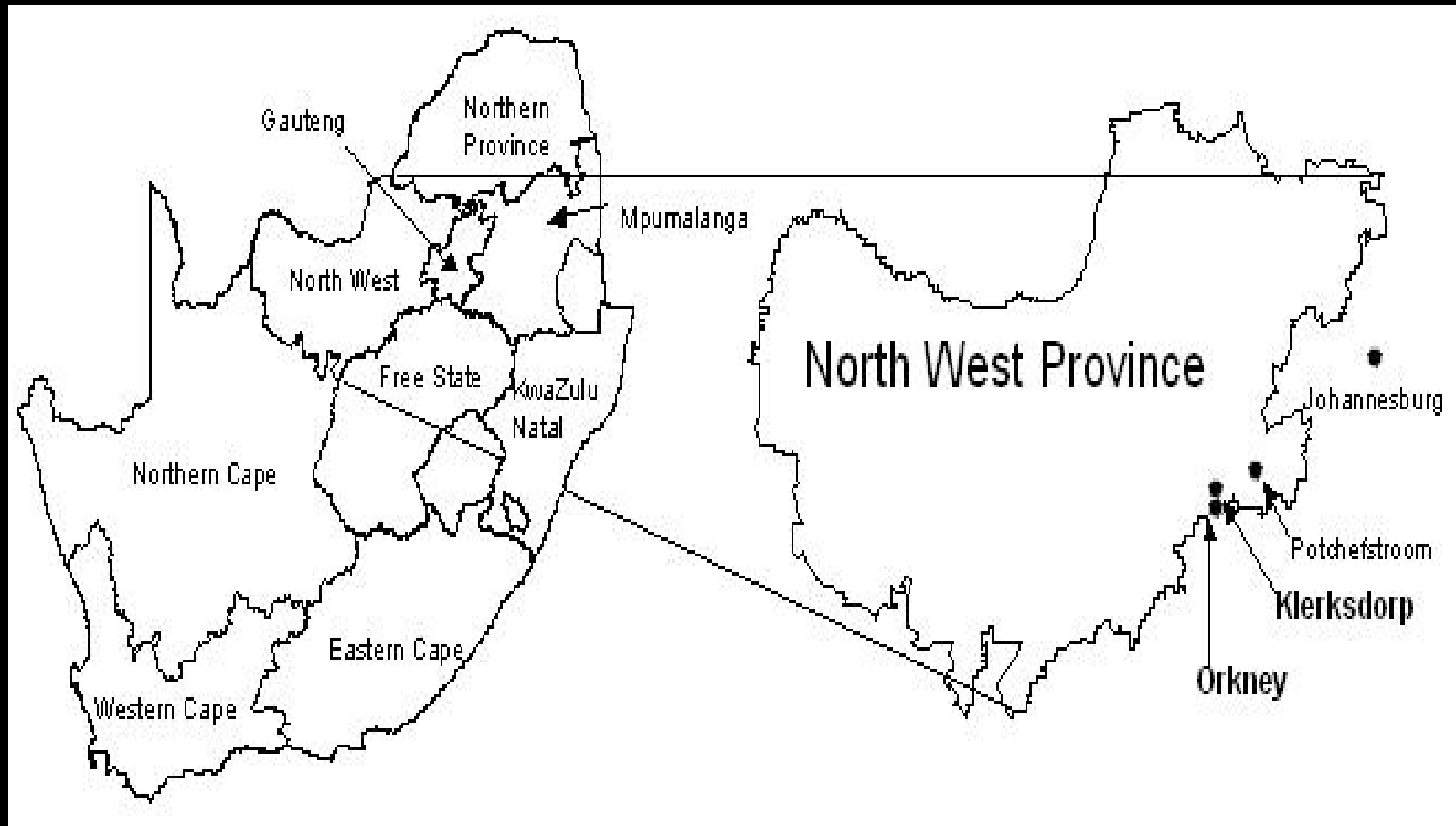


# Agenda

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# Site location: Klerksdorp, North West Province



## Site location: Klerksdorp, North West Province

The Aurum Institute, operates satellite research clinics in NW / Free State / Gauteng

This work is taking place in Klerksdorp “KOSH” – located 2 hours SW of Johannesburg in NorthWest

KOSH district comprised of ~ 500,000 people

Klerksdorp

Orkney

Stilfontein

Hartebeesfontein

Economy dominated by gold mining and farming



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# Klerksdorp Clinical Research and Treatment site



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## WHY we used the Pre-screener for VOICE

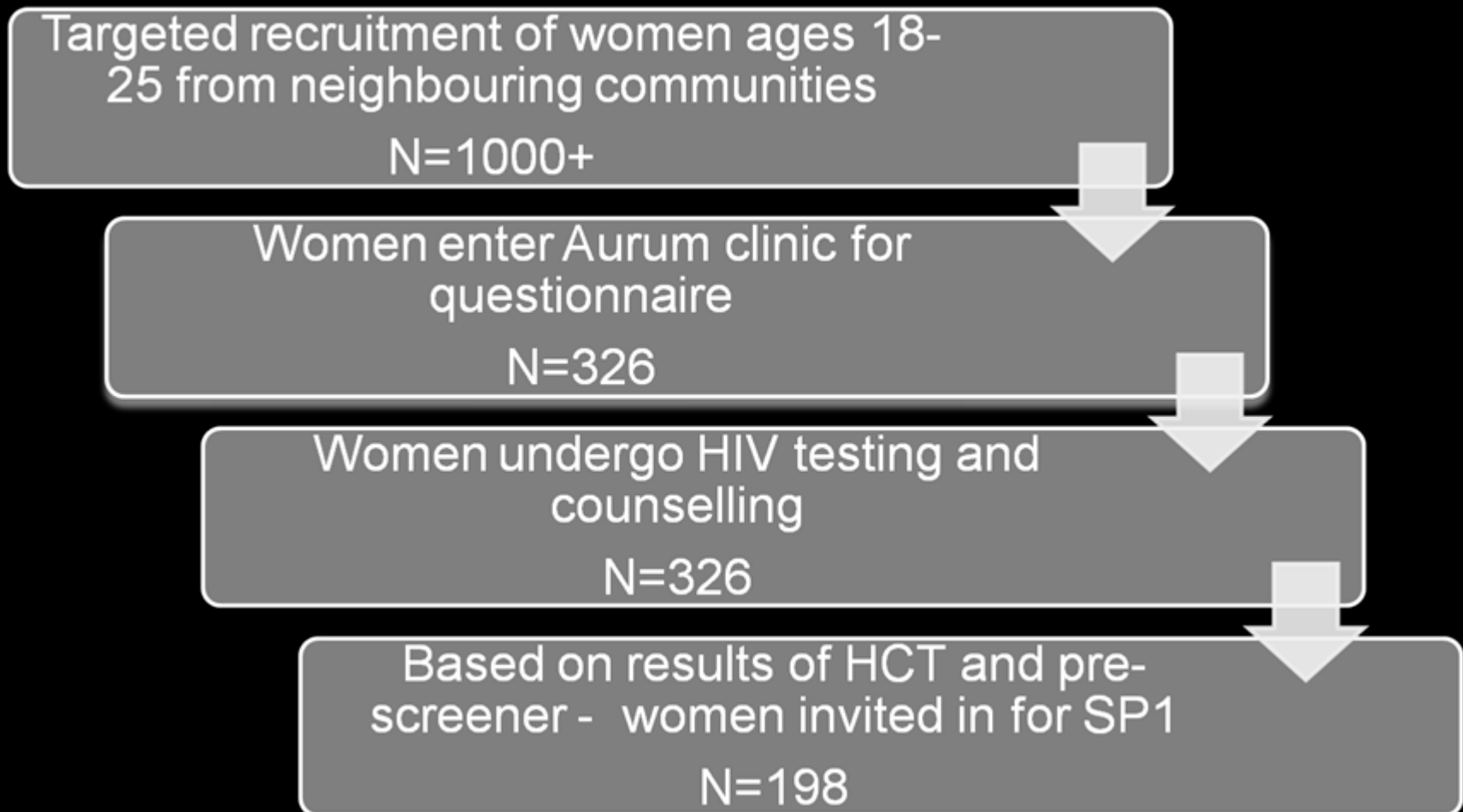
Goal is to identify women from the community, most suited for the VOICE trial by:

- Maximizing HIV risk - reporting risk factors that put them at higher risk of HIV
- Maximizing Stability - stable residents of the community – maximize retention and are willing to stay for 2+ years
- Minimizing Pregnancy risk - we want women with pregnancy intent suitable for VOICE



# The Pre-screener Process

## A One-time Cross-Sectional Socio-Behavioural Survey



# Pre-screener Questionnaire

- Questionnaire assessing:
  - Demographics
  - Health history
  - STI symptoms
  - Reproductive history
  - Substance abuse
  - Sexual history
  - Knowledge of HIV prevention methods



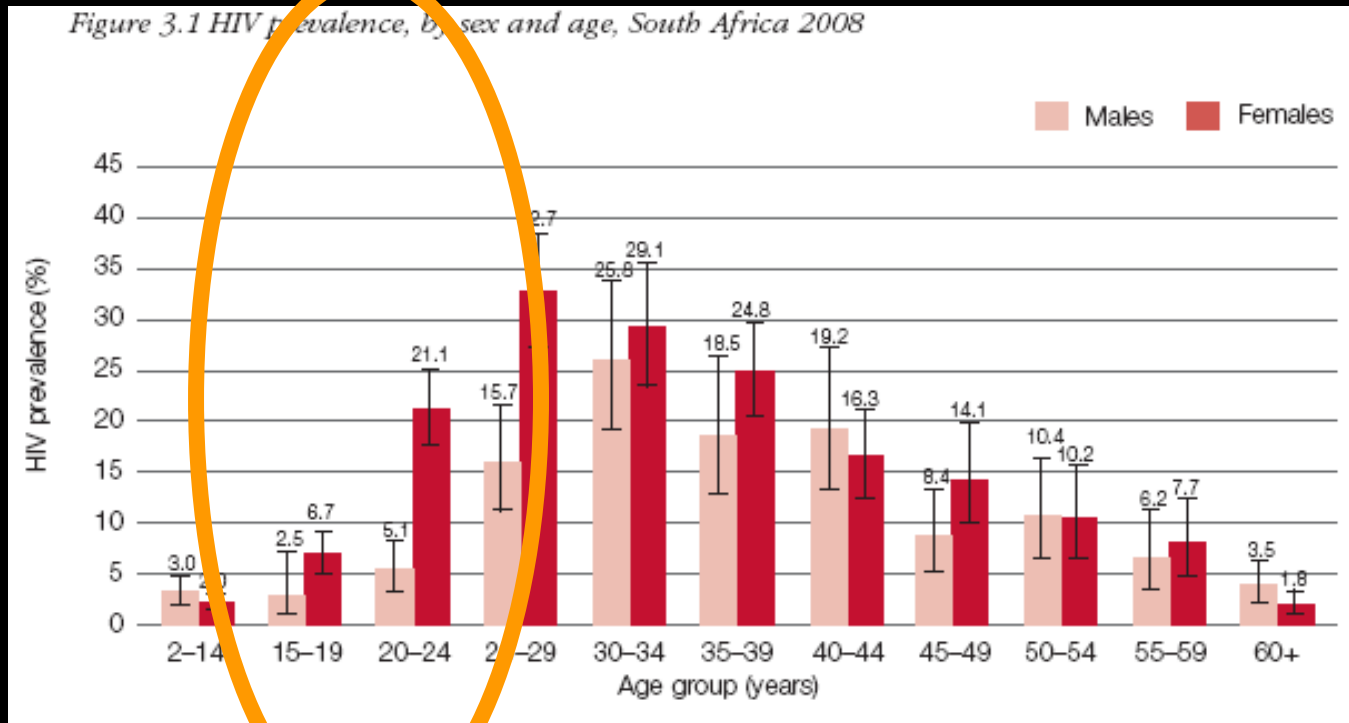


# Risk Identification, Stability, Pregnancy Intentions

Risk Identification	Risk Identification cont'd	Stability / Pregnancy Intentions
<ul style="list-style-type: none"><li>• STI symptoms/ diagnoses</li><li>• Relationship status</li><li>• Age</li><li>• Contraception use</li><li>• Substance abuse</li><li>• Length of stay in local area</li></ul>	<ul style="list-style-type: none"><li>• Number of recent partners</li><li>• New partners</li><li>• Age of sexual debut</li><li>• Condom use regret</li><li>• Fidelity perceptions</li></ul>	<ul style="list-style-type: none"><li>• Length of stay on local area</li><li>• Planned stay in local area</li> <li>• Pregnancy history</li><li>• Pregnancy intentions</li></ul>



# Why our big focus on younger ages?



3-fold increase in HIV in young women between adolescence and early 20s



# Why is substance use assessed?

Table 3.11: HIV prevalence among the most-at-risk populations, South Africa 2008

At-risk population	n	HIV+ %	95% CI
African females 20–34	1 395	32.7	29.7–36.0
African males 25–49	944	23.7	20.1–27.7
Males 50+ years	946	6.0	4.4–8.1
MSM	86	9.9	4.6–20.2
High-risk drinkers	965	13.9	10.4–18.2
Recreational drug users	490	10.8	7.2–15.8
People with disabilities	458	14.1	9.9–19.6



# Methods for Determining Eligibility

Calculation of Risk Factors



Assessed Stability and Pregnancy Intentions



Invite in for SP1 visit

## What we found – Some demographics of the Pre-Screened Sample (n=326)

<b>Demographic Characteristic</b>	<b>Major Category</b>	<b>%</b>
Cultural Identity	African	97
Home Language	Tswana	47
Planned stay in area	> 2 years	65
Primary source of income	Family	53
Relationship status	Single with partner	60



## What we found

- Proportion of women who had:

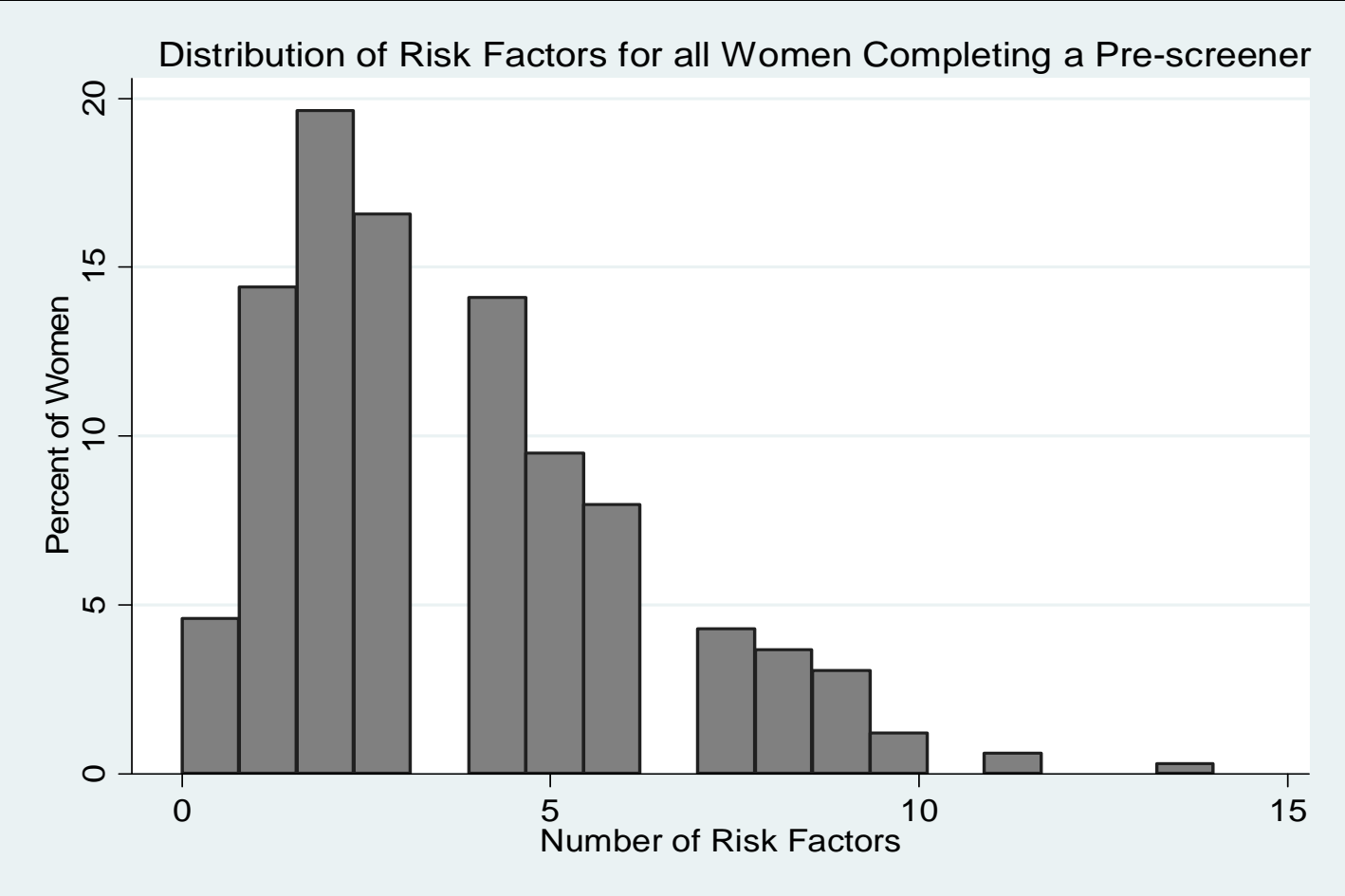
Risk Factor	%
Sex <_ 16 years	26
STI symptoms	23
Pregnancy Intentions in 1 yr	10
Injectable contraception	37
Heavy drinking	20
Multiple sex partners	15
New partners	20
Sex with a 'roll on" – y/nr	9/14
Condom use regret	39
Perception of infidelity	30
+/unsure HIV status of partner	35
>5 year age gap with partner	30
Drugs/alcohol in last sex	12

N=326



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# Risk Index of Women in Pre-screener



## Screening Rates by Recruitment Method

	Pre-Screened %(n)	Not Pre-screened %(n)
Number	326	249
Going forward to SP1	87 (27)	72 (29)
Going forward to SP2	53 (61)	40 (56)
Enrolled in VOICE	35 (66)	11 (28)
HIV Incidence	Time will tell	





# Challenges

- Logistics
  - Length of study visit
- Staffing issues
  - Labour intensive
- Participant reimbursement
  - Unable to compensate participants for time and travel



# Going Forward

- Continuously assess incidence
- Continue to perform screener to the extent that logistics will allow
- Assess funding environment



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# Thank You!



- Study participants
- Dr. Mary Latka; Dr. Kathryn Mngadi; Ms. Tanya Nielson, Ms. Aneesa Moolla
- Incredible staff at Aurum's Klerksdorp Research Site
- SAAVI for funding

