













Risk factors for curable sexually transmitted infections among youth: findings from a population survey in Zimbabwe

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Background

- Youth are at high risk of sexually transmitted infections (STIs) in Southern Africa.
- Identification of risk factors at population level is important in planning STI control strategies.

Aims

To determine risk factors for curable STIs in youth

Methods

- Population-based survey among 18-24 year olds in sixteen communities in two provinces in Zimbabwe to ascertain outcomes for cluster randomised trial investigating impact of community-based STI testing for youth on population prevalence of STIs.
- Procedures: interviewer-administered questionnaire, HIV testing, testing for chlamydia (CT), gonorrhoea (NG), and trichomoniasis (TV).
- Risk factors for curable STIs explored using multivariate logistic regression, using a three-level hierarchical conceptual approach.

Results and key findings

5601 enrolled

62.5% female

55.4% no condom use at last sex

7.2% symptomatic

6.3% HIV prevalence

19.8%
CT/NG/TV
prevalence

STI diagnosis associated with: female sex; lower education levels; informal or no employment; history of attempted suicide; and HIV status

nild Care, Harare, Zimbabwe	
Selected variables from final model*	Final adjusted OR between variable and CT/NG/TV diagnosis (95% CI)
Age (years)	
21 – 24 (baseline: 18-20)	1.37 (1.17 – 1.61)
Sex	
Female (baseline: male)	2.11 (1.76 – 2.53)
Highest education level	
Primary or less	1.00
Secondary	0.79 (0.65 – 0.95)
Post-secondary	0.77 (0.54 – 1.09)
Employment status	
In education or formal employment	1.00
Informal or no employment	1.35 (1.13 – 1.61)
History of attempted suicide	
Yes	1.58 (1.08 – 2.32)
No. of sexual partners in past year	
0	1.00
1	2.23 (1.73 – 2.88)
2	2.39 (1.69 – 3.39)
≥3	3.05 (2.09 – 4.44)
Condom use in past year	
Most of the time	1.00
Sometimes (about half the time)	1.34 (1.07 – 1.72)
Rarely or never	1.22 (0.96 – 1.55)
Been circumcised (males only)	
Yes	0.63 (0.45 – 0.88)
HIV status	
Positive	1.44 (1.07 – 1.94)
Presence of current STI symptoms	
Yes	1.43 (1.11 – 1.84)
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*Variables not shown: trial arm, province, time at current address, marital status, accessed trial services, pregnancy planning, been offered PrEP

Conclusions

- HIV clinics may be a suitable target for implementation of aetiological STI testing, providing lessons for other clinic settings.
- Broader factors such as mental health, education, and employment opportunities should be considered in STI control efforts.