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Presentation Outline



- Background
- Research Questions
- Methods
- Results
 - HIV prevalence
 - Determinants of HIV
 - Attrition
- Conclusions
- Utilization of Findings
- Closing Remarks
- Acknowledgements



Background

- The study was prompted by worrying anecdotal reports that indicated that educators seem to be leaving the education profession in large numbers.
- The ELRC consist of:
 - Department of Education (DoE)
 - South African Democratic Teachers Union (SADTU)
 - National Professional Teachers Organisation of SA (NAPTOSA)
 - Suid- Afrikaanse Onderwysersunie (SAOU)
 - National Teachers Union of South Africa (NATU)
- ELRC commissioned a consortium to investigate the validity of these anecdotal reports, consisting of:
 - Human Sciences Research Council
 - Medical Research Council
 - UKZN's Mobile Task Team on the Impact of HIV/AIDS on Education (MTT)

Research Questions

1. What is the prevalence of HIV/AIDS among educators in public schools?

2. What are the factors driving the HIV/AIDS epidemic amongst educators?

3. What is the attrition rate and profile of educators who intent to leave and what are the reasons for attrition?



Method: Research Design

- Cross sectional study design (longitudinal design ideal)
- Quantitative using structured questionnaire (would have been good to collect qualitative information as well)
- HIV test: choice of blood or oral/CD4 count
- Anonymous electronic link questionnaire data and HIV test results
- Ethical Clearance was obtained from the HSRC's Ethics Committee (REC/20/08/030)





Method: Sampling

- Multi-stage stratified cluster random sampling
- Sample sites were public schools across nine provinces
- Sampling frames (not updated)
 - DOE's School Register of Needs (SRN) school database from 1996-2000
 - Government's Personnel Salary System (PERSAL) system
- No. of schools: 26 713

Sampled: 1770Realized: 1714

No. of educators on SRN: 356 749;

Sampled: 24 200Realized: 20 626

 Educators who were absent missed interviews although revisits were made

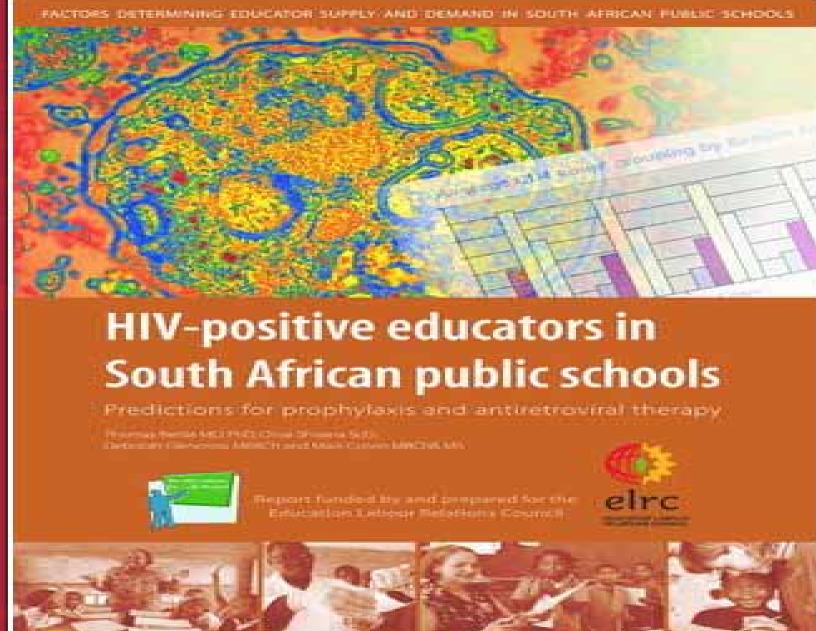
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Results: HIV Prevalence



- Sex
- Race
- Age
- Socioeconomic status
- **Province**
- **District**





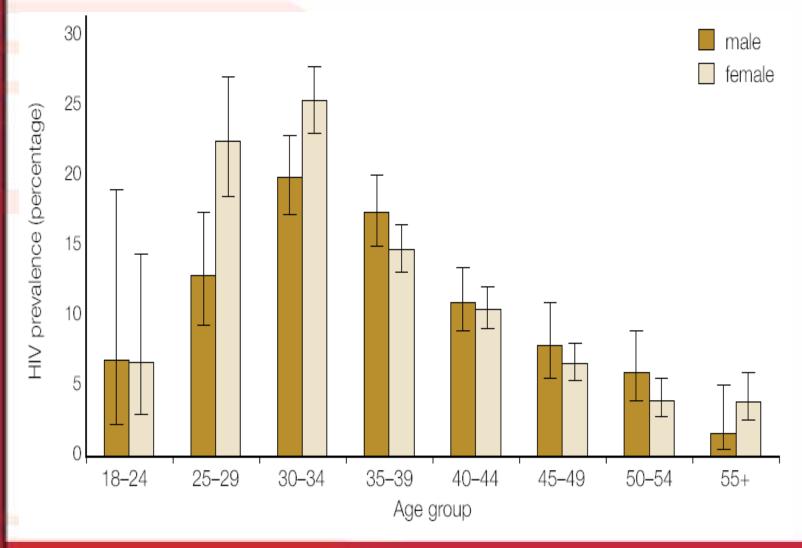
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HIV prevalence by demographic characteristics

| Characteristics | n | HIV positive | 95% CI |
|-----------------|--------|--------------|-----------|
| | | (%) | |
| Total | 17 088 | 12.7 | 12.0–13.5 |
| | | | |
| Sex | | | |
| Men | 5 455 | 12.7 | 11.6–13.9 |
| Women | 11 621 | 12.8 | 12.0–13.6 |
| Race | | | |
| African | 12 022 | 16.3 | 15.5–17.1 |
| White | 2 165 | 0.4 | 0.2-0.8 |
| Coloured | 2 309 | 0.7 | 0.4–1.3 |
| Indian | 533 | 1.0 | 0.5–2.1 |
| Age | | | |
| <24 | 240 | 6.5 | 3.4–12.0 |
| 25-34 | 4 282 | 21.4 | 19.9–23.0 |
| 35-44 | 7 443 | 12.8 | 11.8–13.8 |
| 45-54 | 4 274 | 5.8 | 5.0-6.7 |
| 55 and above | 842 | 3.1 | 2.1–4.6 |

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HIV prevalence by age and sex, South Africa 2004



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HIV prevalence by SES

| Socio-economic status | n | HIV positive (%) | 95% CI |
|----------------------------|--------|------------------|-----------|
| Level of qualification | | | |
| First degree and above | 8 551 | 10.0 | 9.1–10.9 |
| Diplomas | 7 094 | 15.9 | 14.8–17.0 |
| Grade 12 and under1 | 420 | 14.0 | 11.9–16.4 |
| Annual income | | | |
| Low | 2 915 | 17.5 | 16.0–19.2 |
| Medium | 13 231 | 12.1 | 11.3–12.9 |
| High | 813 | 5.4 | 4.0-7.4 |
| Household economy | | | |
| Not enough money | 1 253 | 15.5 | 13.3–18.0 |
| Money for food etc | 8 588 | 14.7 | 13.8–15.6 |
| Have most important things | 5 880 | 10.7 | 9.6–11.9 |
| Some extra money | 1 250 | 3.9 | 2.7–5.6 |

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Overall HIV prevalence

| Province | n | HIV positive (%) | 95% CI |
|----------|-------|------------------|-----------|
| WC | 2 134 | 1.1 | 0.6–2.0 |
| EC | 1 855 | 13.8 | 12.0–15.8 |
| NC | 891 | 4.3 | 2.9–6.5 |
| FS | 1 152 | 12.4 | 10.1–15.0 |
| KZN | 3 627 | 21.8 | 19.8–23.9 |
| NW | 1 437 | 10.4 | 8.7–12.4 |
| GP | 2 772 | 6.4 | 5.4-7.7 |
| MP | 1 315 | 19.1 | 16.2–22.3 |
| LP | 1 905 | 8.6 | 7.3–10.1 |

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High HIV prevalence Districts: South African educators

| Province | District Municipality | n | HIV+(%) | 95% CI |
|-----------------------------|----------------------------|-----|---------|-------------|
| KwaZulu Natal | Ugu | 318 | 21.9 | 16.58-28.55 |
| | Uthukela | 354 | 28.2 | 21.07-36.65 |
| | Umzinyathi | 280 | 28.9 | 23.94-34.40 |
| | Zululand | 361 | 30.0 | 24.72-35.91 |
| | Umkhanyaku <mark>de</mark> | 371 | 32.5 | 27.19-38.24 |
| | Uthungulu | 385 | 26.3 | 21.24-32.12 |
| | iLembe | 275 | 22.8 | 16.75-30.32 |
| | Sisonke | 155 | 27.4 | 16.38-42.15 |
| Mp <mark>umalan</mark> ga | Govan Mbeki | 326 | 24.8 | 18.29-32.77 |
| | Ehlanzeni | 489 | 22.2 | 18.30-26.72 |
| Ea <mark>ste</mark> rn Cape | Alfred Nzo | 362 | 22.1 | 17.59-27.17 |

Low HIV Prevalence Districts: South African Educators

- All Districts in the WC- under 3%
- NC 3 districts—under 4%
- All Metropolitan areas have HIV prevalence less than 10%.



Results: Determinants of HIV/AIDS

- Sex Partners
- Condom Use
- Age Mixing
- Migration/Mobility
- Alcohol use



Determinants of HIV among South African Educators

AIDS Care, November 2007; 19(10): 1296-1303



Social determinants for HIV prevalence among South African educators

N. ZUNGU-DIRWAYI, O. SHISANA, J. LOUW, & P. DANA

Human Sciences Research Council, Cape Town, South Africa

Abstract

HIV prevalence among women in South Africa continues to be high despite the availability of a comprehensive plan for the control of HIV/AIDS and a plethora of prevention programmes. Any explanation for the ongoing high HIV prevalence continues to be elusive. The objective of this study was to understand the relationship between HIV, gender, race and socioeconomic status among South African public sector educators in order to inform prevention programmes.



Sex partners in the past 12 months by race

| Variable | Total | % of partners | | | |
|----------|--------|---------------|--------|--------|------------|
| Race | n | no part | 1 part | 2 part | >2 part |
| African | 14 349 | 20.6 | 69.9 | 6.8 | 2.7 |
| White | 2 736 | 25.7 | 72.3 | 1.5 | 0.4 |
| Coloured | 2 670 | 21.1 | 74.4 | 2.8 | 1.7 |
| Asian | 619 | 23.7 | 74.3 | 1.0 | 1.0 |



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Condom use at last sex with "regular" partner by awareness of HIV status

| Condom use | All | HIV+ | HIV- |
|--|------|------|------|
| at last sex with "regular" partner | % | % | % |
| Know HIV results recently | 32.4 | 58.9 | 28.8 |
| Know HIV results more than 3 years ago | 30.5 | 54.4 | 25.0 |
| Do not know | 32.0 | 51.6 | 28.4 |



| Variable | % Condom use with non-regular partner in the past year (HIV + respondents) | | | | | |
|--------------------------------|--|-----|------|------|--|--|
| HIV Test | Every Almost Someti Never every time Someti mes | | | | | |
| Know HIV status# | 59.4 | 6.5 | 15.3 | 18.4 | | |
| Don't know HIV status | 54.9 | 8.6 | 17.8 | 18.2 | | |

Age Mixing by Gender & HIV Status

| Sex | More than 10 years older than oneself | Age difference within 10 years | More than 10 years younger than oneself |
|--|---------------------------------------|--------------------------------|---|
| | (%) | (%) | (%) |
| Men | *** | | |
| Age mixing | 0.2 | 85.7 | 14.1 |
| HIV p <mark>re</mark> va <mark>le</mark> nce | 9.7 | 12.4 | 16.5 |
| Wom <mark>en</mark> | | | |
| Age <mark>mixing</mark> | 4.7 | 94.8 | 0.6 |
| HIV p <mark>revale</mark> nce | 8.9 | 12.3 | 8.5 |
| | | | |
| | | 17 | |



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Migration and HIV Status

| | HIV Positive | | | | | |
|--|-----------------------------------|------------|-------------|--|--|--|
| | n | Percentage | 95% CI | | | |
| Migration after completion | n of training prio | r to 1994 | | | | |
| Yes | 464 | 23.5 | 21.4 – 25.8 | | | |
| No | 547 | 18.9 | 17.3 – 20.6 | | | |
| Mig <mark>ration after completion</mark> | n <mark>of tra</mark> ining after | 1994 | | | | |
| To <mark>urban a</mark> rea | 276 | 13.4 | 11.7 – 15.4 | | | |
| To r <mark>ural ar</mark> ea | 739 | 25.3 | 23.6 – 27.1 | | | |
| Marital status at beginning of teaching career | | | | | | |
| Married or engaged | 178 | 13.9 | 11.9 – 16.1 | | | |
| Single | 832 | 23.3 | 21.7 – 24.9 | | | |

Alcohol or drug use before last sex & HIV status

| | Drink alcohol or use drugs before last sex | | | | | | |
|-------|--|------|---------------|--------------|------|---------------|--|
| | HIV posit | ive | | HIV negative | | | |
| | n | % | 95% CI | n | % | 95% CI | |
| Total | | 100 | | | | | |
| Yes | 108 | 18.5 | 15.2- 22.4 | 652 | 81.5 | 77.7- 84.8 | |
| No | 1 575 | 12.3 | 11.9- 13.6 | 11 619 | 87.3 | 86.4- 88.2 | |
| Men | | | | | | | |
| Yes | 95 | 20.1 | 16.9- 25.3 | 429 | 79.2 | 74.7- 83.1 | |
| No | 489 | 12.1 | 10.9- 13.4 | 3 911 | 87.9 | 86.6-89 | |

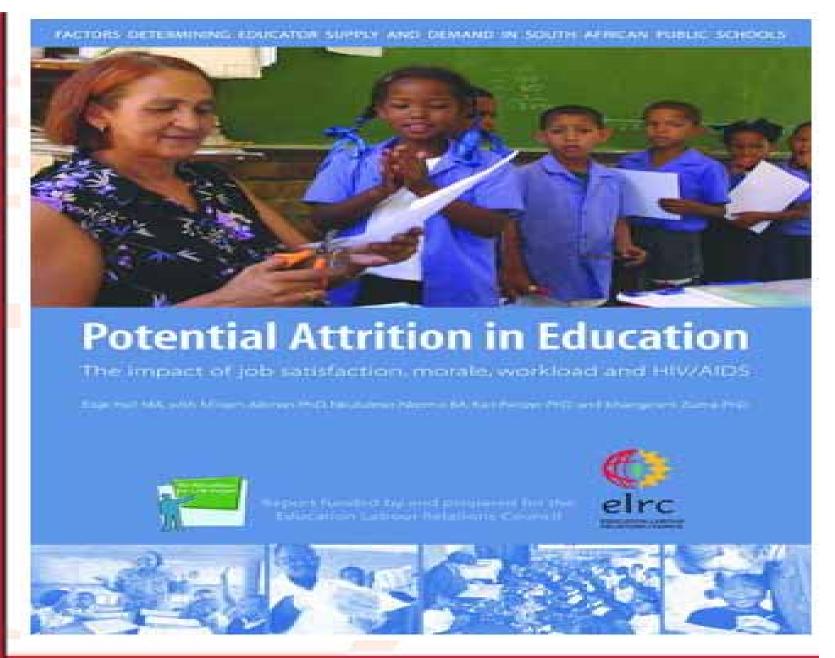
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Attrition

- Attrition rate
- Factors attracting educators to alternative employment
- Educators who considered leaving profession
 - Province
 - Type of institution, location of school, position
 - Sex, race and highest qualification
 - Age and years of teaching experience
 - Satisfaction with salary
 - Job satisfaction



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Attrition and Factors that attract educators to alternative employment options

| Factors | Percent |
|---|---------|
| Attrition Rate | 55 |
| Teach outside SA | 4.1 |
| Teach at private institution | 3.9 |
| Change to another career | 24.6 |
| Go back to university/college and study something different | 4.4 |
| Better salary | 52.3 |
| Other | 9.2 |
| Unknown | 1.5 |

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Educators who considered leaving, by sex, race and highest qualification

| | Total N | Consider educ | |
|---|---------|------------------|--------------|
| | | % | 95% CI |
| Total | 20 626 | 54.0 | (53.1, 55.5) |
| Sex | | | |
| Male | 6 580 | 60.7 | (59.1, 62.2) |
| Female | 14 018 | 51.3 | (49.9, 52.6) |
| Race | | | |
| African | 14 439 | 49.7 | (48.3, 51.1) |
| White | 2 778 | 70.2 | (67.2, 73.0) |
| Coloured | 2 705 | 70.6 | (67.8, 73.4) |
| Indian/Asian | 623 | 69.5 | (65.7, 73.1) |
| Highest qualification | | | |
| Highe <mark>r diplom</mark> a/first degree & higher | 10 355 | 61.6 | (60.2, 63.0) |
| Diploma/occupational certificate | 8 457 | 48.9 | (47.4, 50.4) |
| Grade 12 & lower | 927 | 38.7 | (35.0, 42.7) |
| Grade 8-11 & teacher's qualification | 822 | 36.1 | (32.2, 40.3) |



Educators who considered leaving, by age and years of teaching experience

| | Total N | Consider leaving education | | | |
|------------------------------|---------|----------------------------|--------------|--|--|
| | Total N | % | 95% CI | | |
| Total | 20 626 | 54.0 | (53.1, 55.5) | | |
| Age | | | | | |
| 22 & y <mark>ounge</mark> r | 107 | 56.1 | (44.4, 67.2) | | |
| 23-30 | 1 945 | 56.3 | (53.4, 59.2) | | |
| 31-40 | 9 133 | 59.2 | (57.8, 60.6) | | |
| 41-50 | 6 926 | 52.2 | (50.6, 53.9) | | |
| 51-60 | 2 348 | 40.6 | (38.0, 43.3) | | |
| 61-65 | 136 | 24.3 | (16.7, 34.1) | | |
| Older than 65 | 6 | 33.7 | (5.4, 82.0) | | |
| Years of teaching experience | | | | | |
| 5 or less | 2 823 | 44.9 | (42.5, 47.2) | | |
| 6-10 | 4 405 | 59.0 | (56.9, 61.0) | | |
| 11-20 | 7 898 | 60.1 | (58.5, 61.7) | | |
| 21-25 | 2 562 | 51.2 | (48.7, 53.7) | | |
| More than 25 | 2 745 | 43.0 | (40.5, 45.6) | | |

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Educators who considered leaving by type of institution, location of school and position

| | Total N | Consider leaving education | | | |
|---|---------|----------------------------|--------------|--|--|
| | | % | 95% CI | | |
| Total | 20 626 | 54.0 | (53.1, 55.5) | | |
| Type of Institution | | | | | |
| Primary school | 11 463 | 51.3 | (49.7, 52.9) | | |
| Secondary/high school | 7 275 | 59.2 | (57.2, 61.2) | | |
| Combined/intermediate | 1 719 | 51.6 | (47.5, 55.6) | | |
| Location of school | | | | | |
| Rural | 10 497 | 45.5 | (43.9, 47.1) | | |
| Urban | 10 027 | 65.9 | (64.3, 67.5) | | |
| Position | | | | | |
| Teacher | 15 363 | 54.0 | (52.7, 55.3) | | |
| Seni <mark>or teach</mark> er | 2 200 | 60.4 | (57.8, 62.9) | | |
| Education specialist | 636 | 60.0 | (55.6, 64.3) | | |
| Dep <mark>uty princ</mark> ipal/Principal | 1 989 | 50.6 | (47.8, 53.4) | | |

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Educators who believe their salary is inadequate

| Consider leaving | Earn an inadequate salary | | |
|------------------|---------------------------|------------|--|
| | Male (%) | Female (%) | |
| Yes | 62.3 | 51.4 | |
| No | 37,7 | 48.5 | |
| Unknown | 0.1 | 0.1 | |
| Total | 100.0 | 100.0 | |

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Conclusions

1. Measure the prevalence of HIV and AIDS:

Estimated Prevalence is 12.7%; 16% among Africans and <1% others; 11 Districts located in KZN, Mpumalanga and EC have prevalence >20%; All districts in WC and NC have prevalence <5%; all METRO areas have prevalence <10%.

2. Determine factors driving HIV/AIDS

Multiple partners, low condom use and having partners who are 10 years younger

3. Assess attrition

55% considered leaving the profession mainly due to inadequate remuneration: Non-Africans, Males, urban areas, Secondary school educators, aged 25–49, Have higher qualifications, medium to high income group

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Utilization of Findings

Following high level briefings to the Presidency, ELRC, the Deans Forum and the DoE, the study's findings were used to develop:

- SADTU's strategic plan the delivery of the pilot programme in 3 provinces where HIV infections among educators are the highest.
- Peer-education programme in schools
- Plan for comprehensive medical aid for teachers and their dependants requiring ART.
- SADTU's newsletter called "The educators' voice"
- SADTU's campaign against HIV and AIDS in the union and education institutions.
- SADTU's guiding document or a policy on HIV and AIDS.

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Closing Remark

SADTU president in appreciation of study's findings, Mr Willy Madisha, said:

"The more we know about HIV/AIDS and how it affects teachers, the more we will be armed to fight the pandemic"

Mr Dhaya Govender, ELRC Gen. Secretary, in stressing the importance of the study, said:

"If South Africa cannot curtail the levels of infection and progression of HIV/AIDS among its teachers, the consequences will be bequeathed not just on the present generation of learners, but also on future learners, adding immeasurably and unnecessarily to poverty and social stagnation in the following decades"

Population-based Educator Iongitudinal studies needed!!

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