



Epidemiology of HIV/AIDS in South Africa

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Introduction

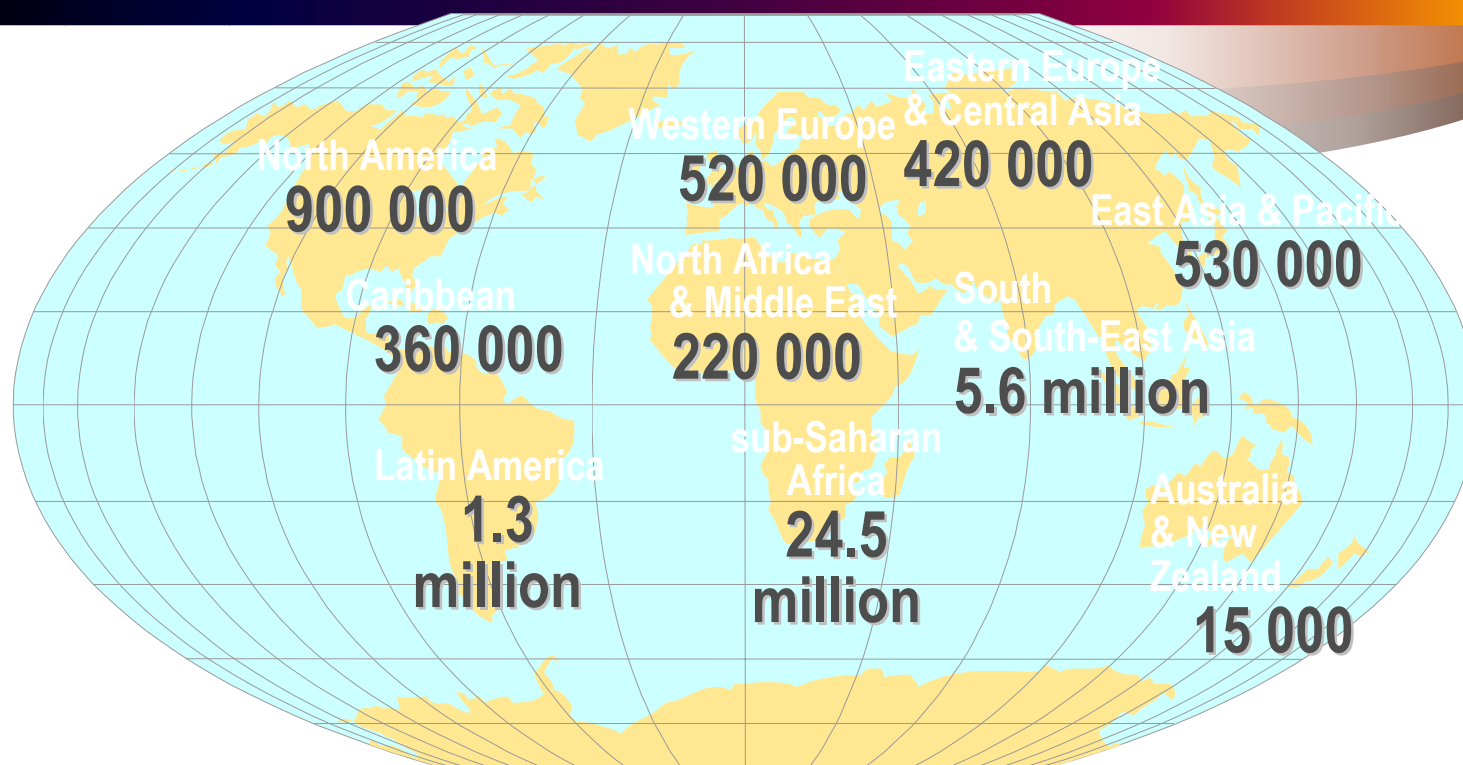


- Epidemiology
 - The study of the distribution and determinants of disease in populations and methods of intervention.
- We all know the Epidemiology of HIV!

History of HIV/AIDS in S Africa

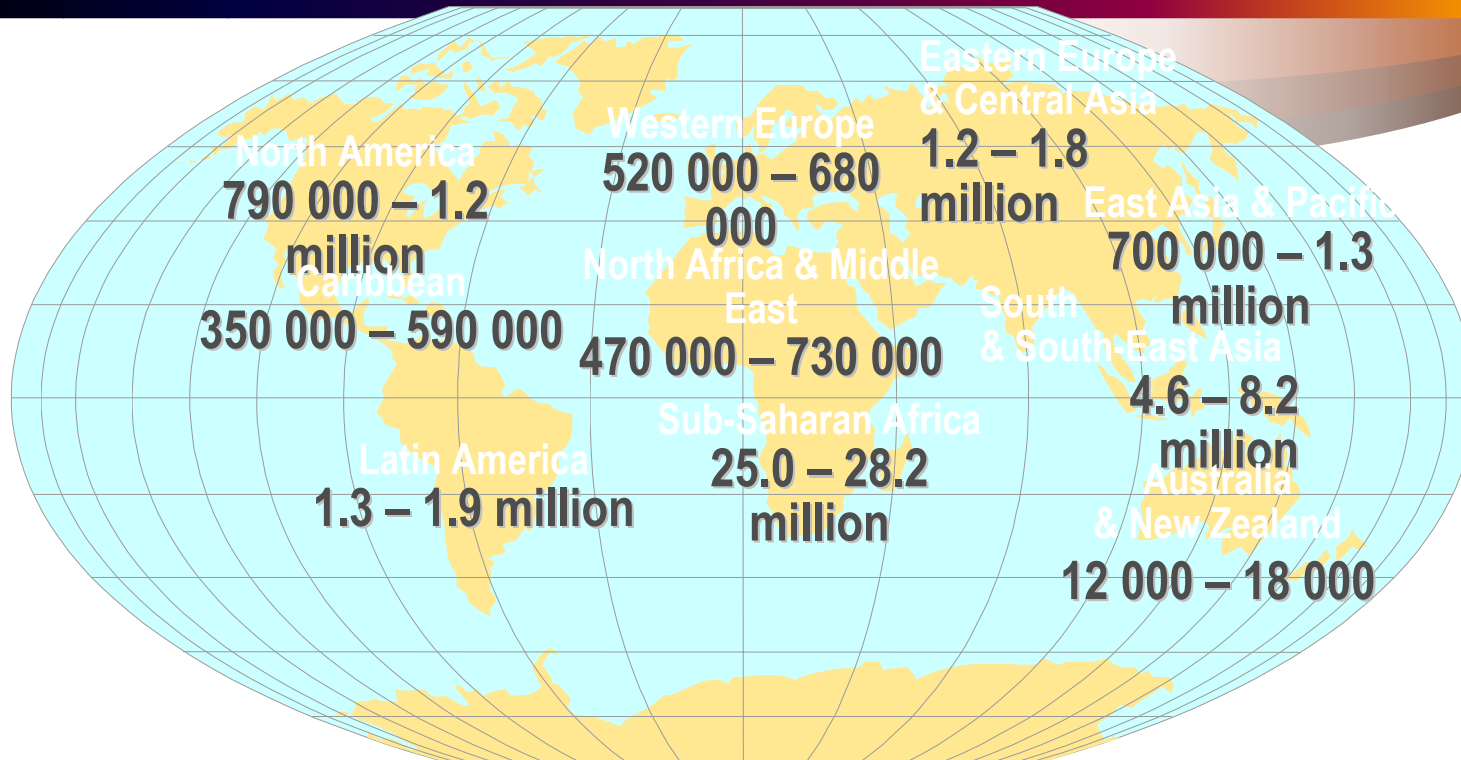
- 1982 First 2 AIDS cases
- 1985 First AIDS-related Death
- 1982-1986 46 new cases
- 1995 9000 new cases
- 1996 Heterosexual Pandemic
- 2000 4.2 million infections
- 2003 > 7 million HIV + (projection)

Adults and children estimated to be living with HIV/AIDS as of end 1999



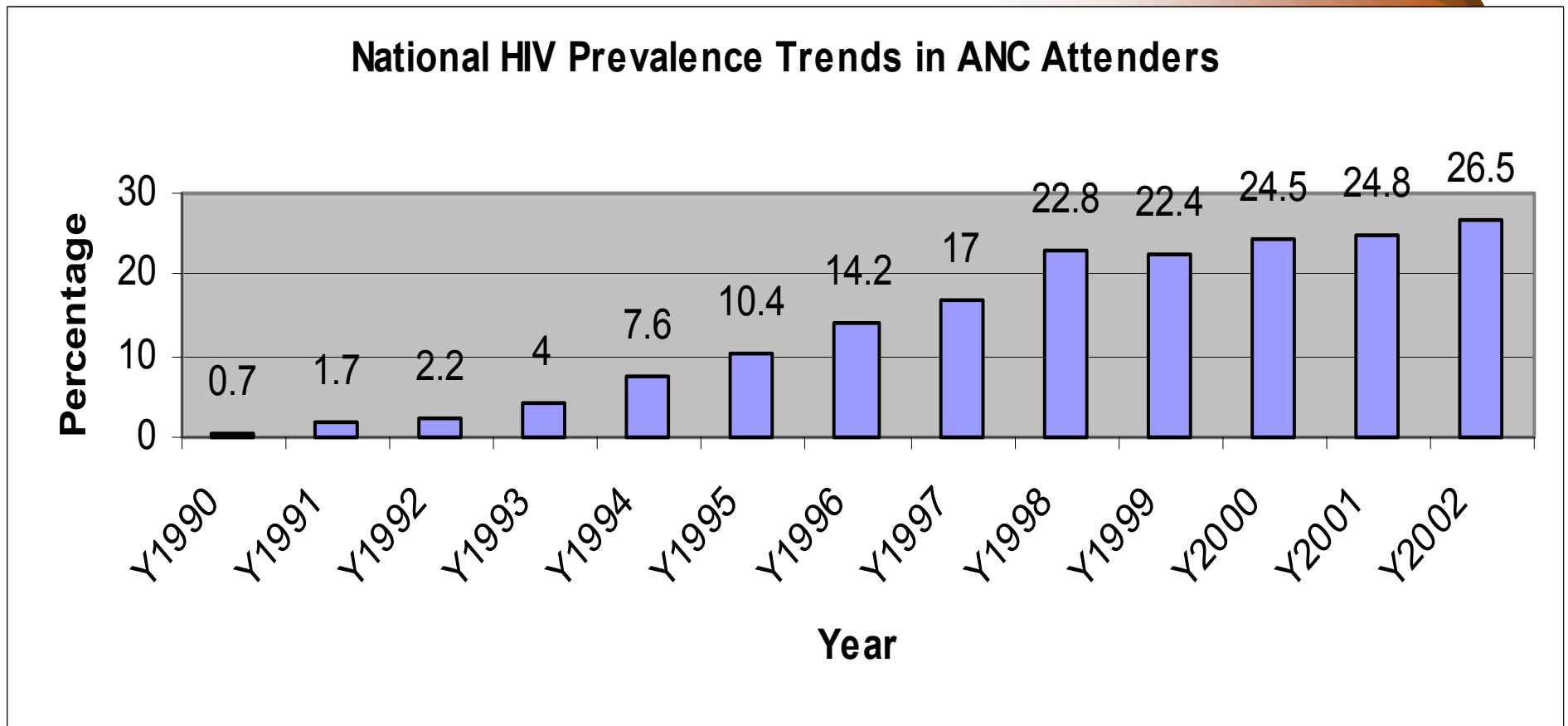
Total: 34.3 million

Adults and children estimated to be living with HIV/AIDS as of end 2003



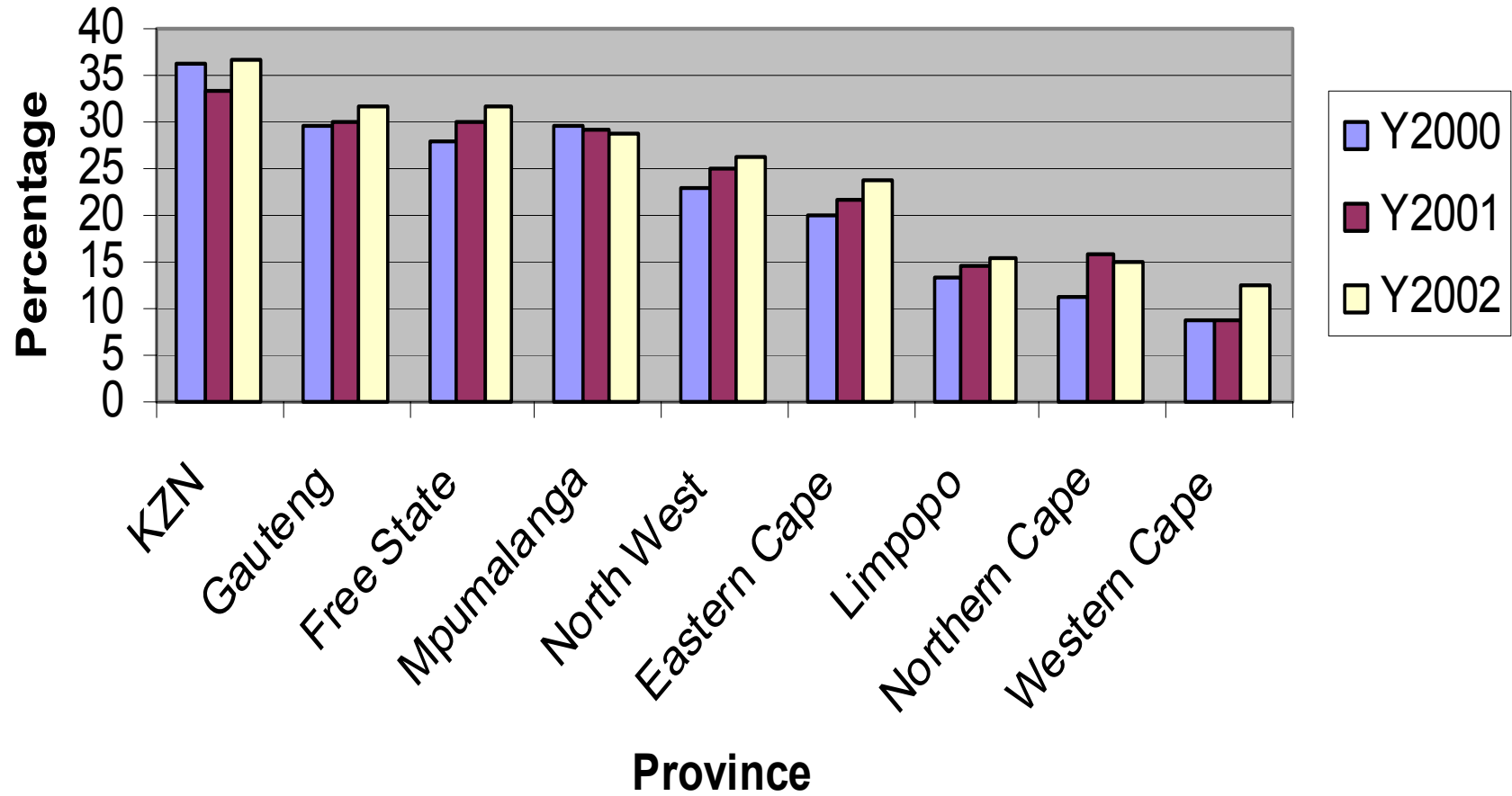
Total: 34 – 46 million

Rising Trend



October ANC Survey 2002

Provincial Prevalence Trends in ANC Attenders



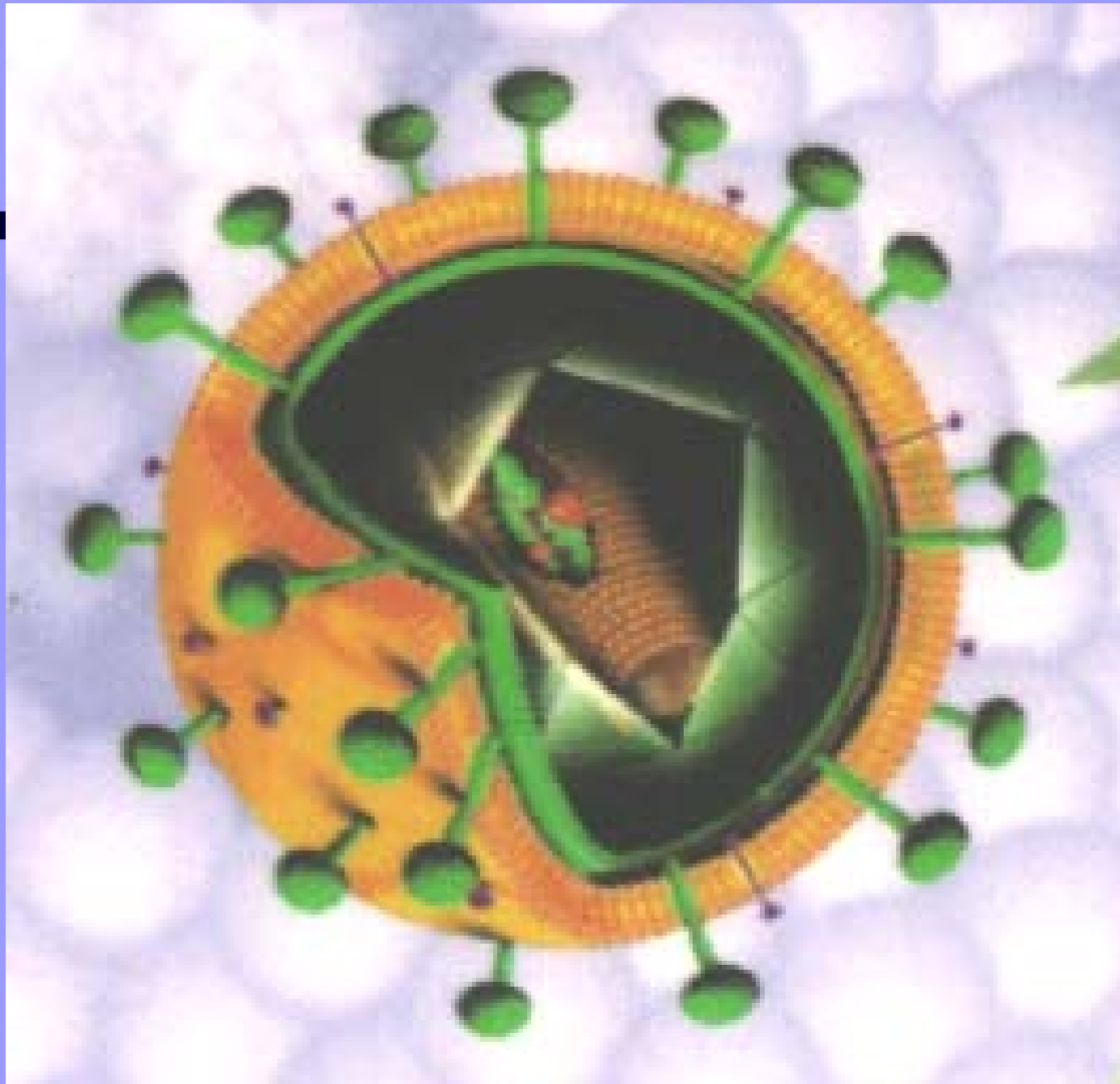
October ANC Survey 2002

Determinants



- Who? Young sexually active people
- What? The HI Virus
- Where? Contained in body fluids
- How? Attaches to CD4 receptors-Reverse Transcriptase
- When? Within 24 hours
- Why? To survive it needs a host

THE HUMAN IMMUNODEFICIENCY VIRUS



The Gloom and Doom Show

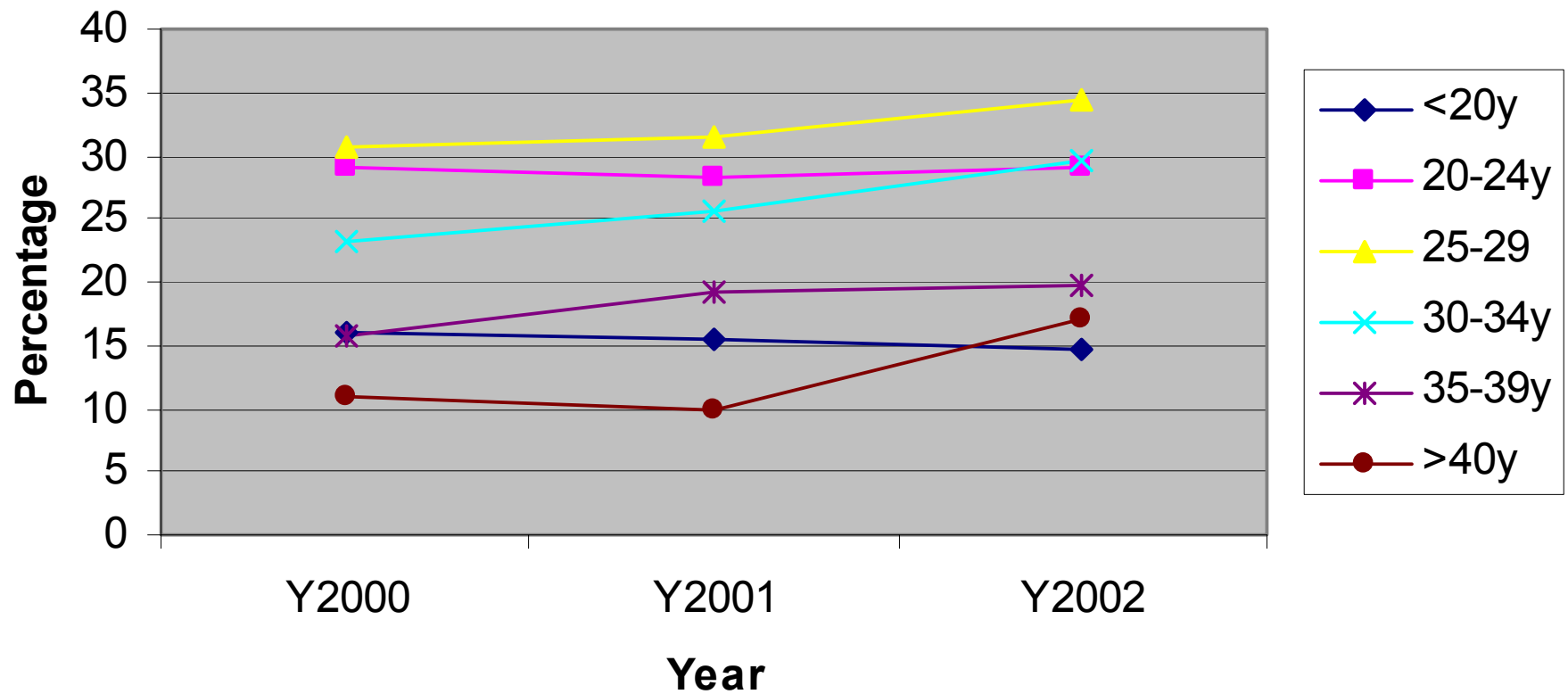


NO!!!

....The Era of ARV Rollout

A Glimmer of Hope

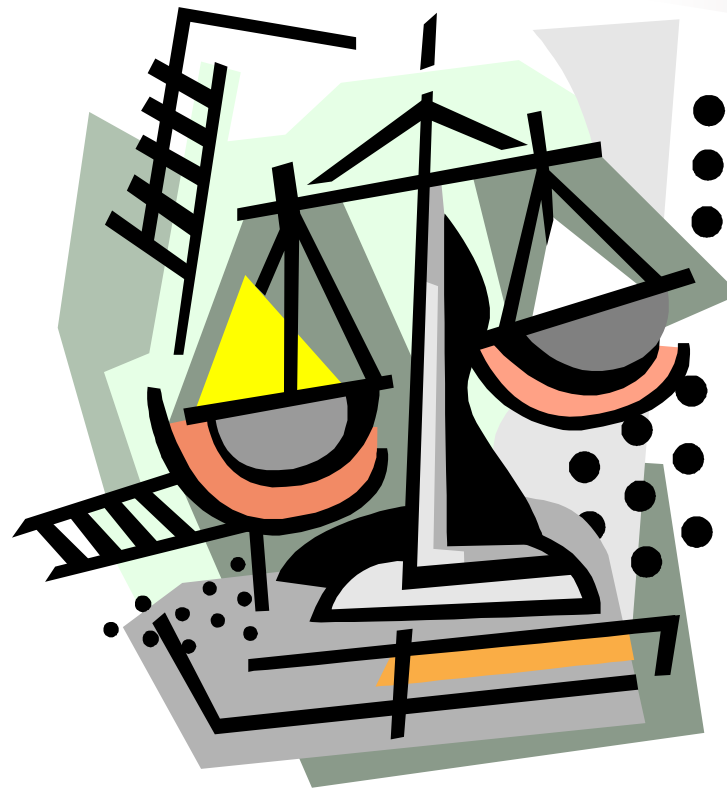
HIV Prevalence Trends by Age Group



October ANC Survey 2002

Epidemiology of HIV –with ARVS

Prevalence




Incidence



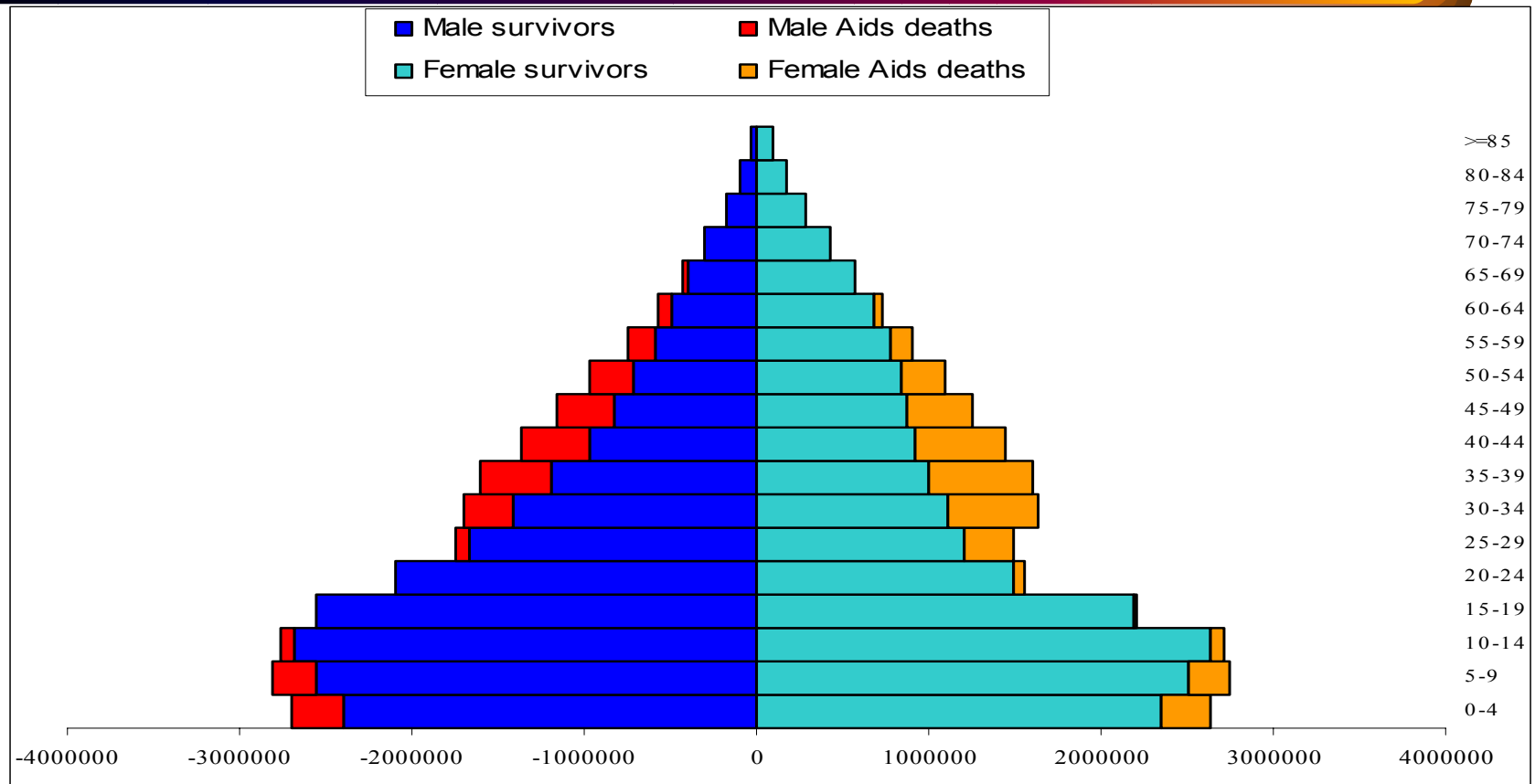
Can we make an
impact?

YES!

- 
- Positive Impact
 - Decrease morbidity
 - Decrease mortality
 - Increase life expectancy
 - Negative
 - Resistant Virus- 15% of new infections in the U.S are resistant to 1st line drugs
 - Increase in risk taking behaviour

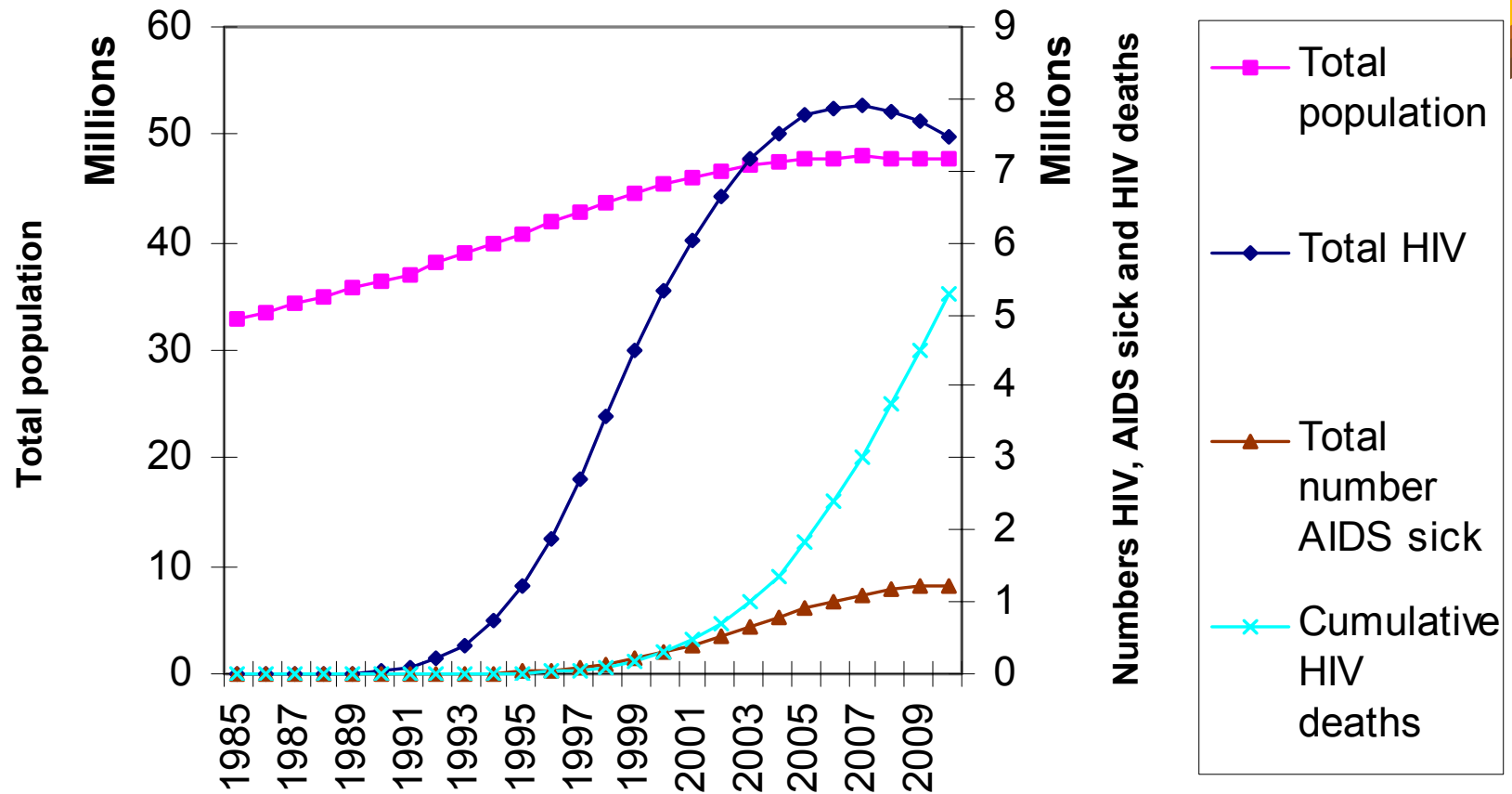
HIV/AIDS and MORTALITY

SA POPULATION STRUCTURE for 2009



ASSA 2000

Numbers infected, sick and dead, *ASSA2000*



Challenges



- Preventing New Infections
- Strengthening Primary Care Systems
 - Voluntary Counselling and Testing
 - Implement wide scale Antiretroviral Therapy
 - Adherence
 - Care and Support
- Developing an Effective Vaccine

We need to fly...
Beyond the slogans



THANK YOU!