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Poster presentation

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Increasing incidence of Kaposi's sarcoma in black South Africans In Kwazulu-Natal, South Africa (1983 to 2006)

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Objective

AIDS-associated Kaposi's sarcoma (KS) is a common malignancy in regions with high HIV and Kaposi's Sarcoma-Associated Virus (KSHV) co-infection. This is exacerbated by limited access to antiretroviral therapy. Despite the dramatic increase in HIV in South Africa since the mid-1990s, little is known about the rates of AIDS-associated KS. Our objective is to estimate trends in the incidence of AIDS-associated KS in black South Africans in KwaZulu-Natal.

Design

Observational database analysis.

Methods

The incidence of KS (per 100,000) was estimated using anonymous administrative records for patients receiving care for KS through all public sector oncology clinics in KwaZulu-Natal, 1983 to 2006. Age-standardized incidence rates were calculated annually using provincial census data for the black population from 1985, 1996, 2001 and 2005. Age-specific rates were calculated for 1983–1989 (baseline) and for 2006 (generalized HIV epidemic).

Results

The age-standardized incidence of KS continues to increase in KwaZulu-Natal. Between 1983 and 2006, age-standardized incidence rates in men increased from 1.04 to 19.7 cases per 100,000, while in women they increased 50-fold, from 0.21 to 11.51 cases per 100,000. Overall, incidence has increased from 0.52 to 14.76 cases per

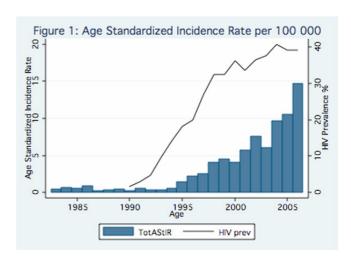


Figure I
Age standardized incidence rate per 100 000.

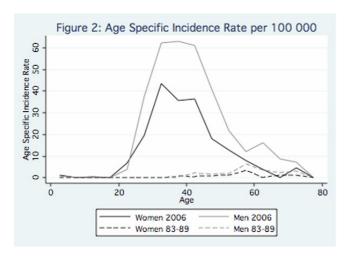


Figure 2
Age specific incidence rate per 100 000.

100,000 (Figure 1). This pattern of increase mirrors that of the HIV antenatal clinic seroprevalence for Kwazulu-Natal, which increased steadily from 1.6 percent in 1989 to 39 percent in 2006. In 2006, peak age-specific incidence in men is 63.1 cases per 100,000 and in women is 43.5 cases per 100,000 (Figure 2), with peaks shifting to the fourth and fifth decades of life, compared to a peak incidence between ages 55–60 in the pre-HIV era (1983–1989). During the last decade, the mean male:female ratio was 2.3.

Conclusion

Our estimates of KS incidence are based only on those who are referred to public sector oncologists, and exclude both early and late stage KS that would be treated by primary care providers or hospice, as well as those treated in the private sector. We therefore greatly underestimate the true incidence AIDS-associated KS in the province, and absolute rates cannot be compared directly to cancer-registry data from other African countries. Nonetheless, we demonstrate that the incidence of AIDS-associated KS continues to increase through 2006, and is a growing public health problem in KwaZulu-Natal, South Africa.

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