

Mortality of HIV-infected patients in the HAART era



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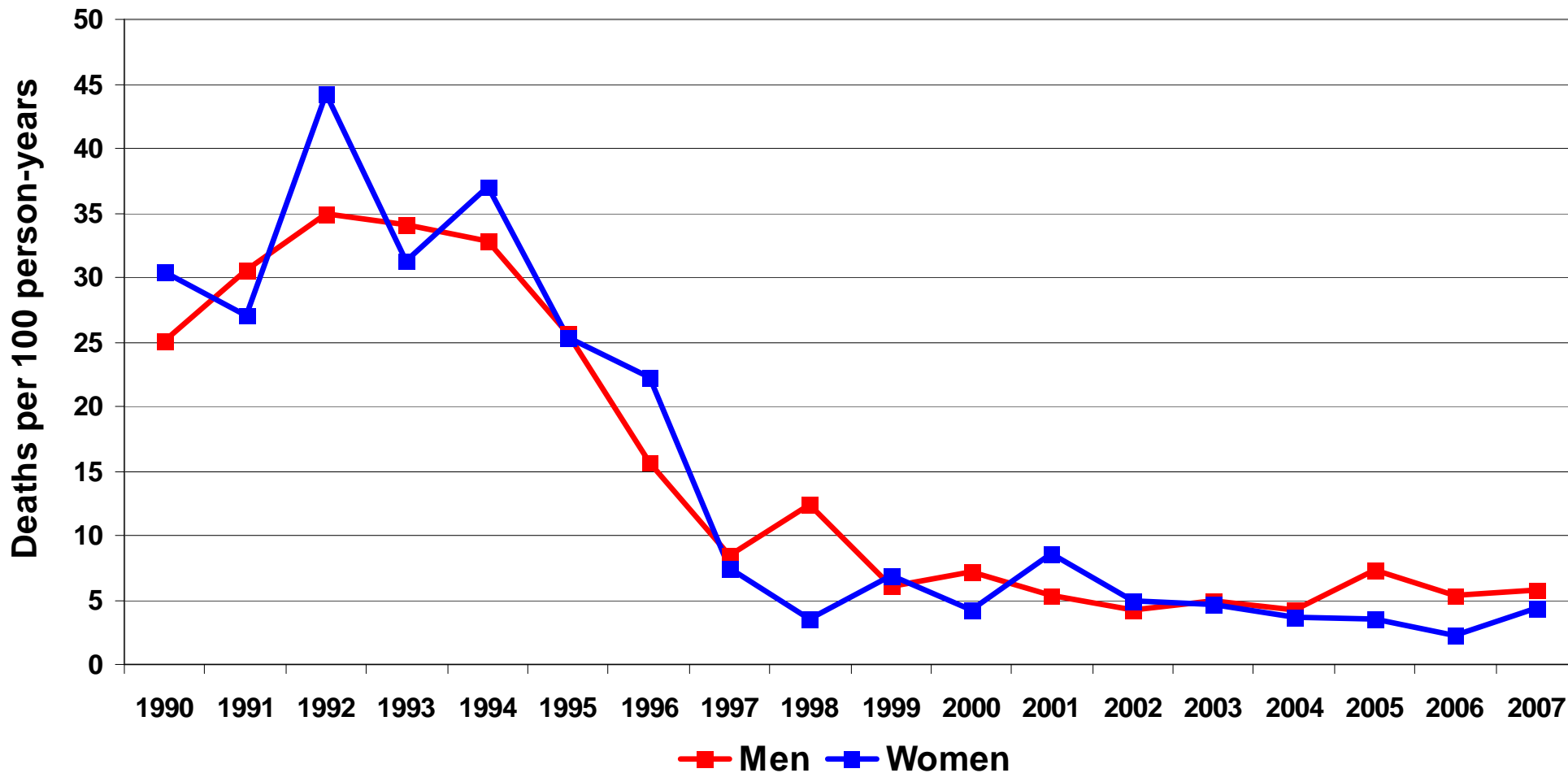
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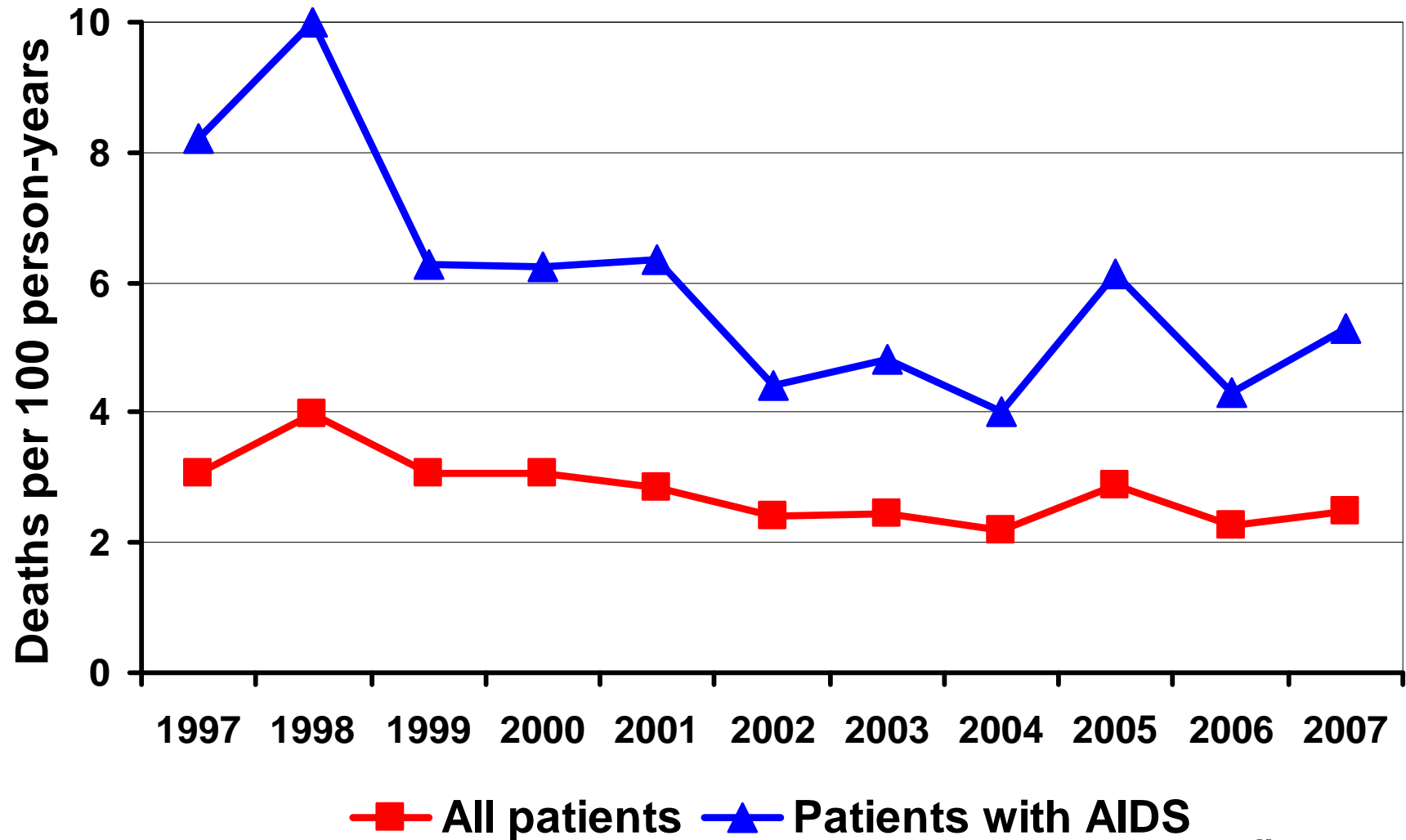
Methods

- **Retrospective, cohort analysis.**
- **Data collected from a digitalized clinical record.**
- **All deaths among HIV-positive individuals seen at 4 Austrian HIV centres between January 1st 1997 and December 31th 2007.**
- **Causes of death were reviewed centrally.**
- **Cause of death categorized as HIV-associated if an AIDS defining event was present at time of death.**
- **Patients with loss of follow up were checked with death registry data.**

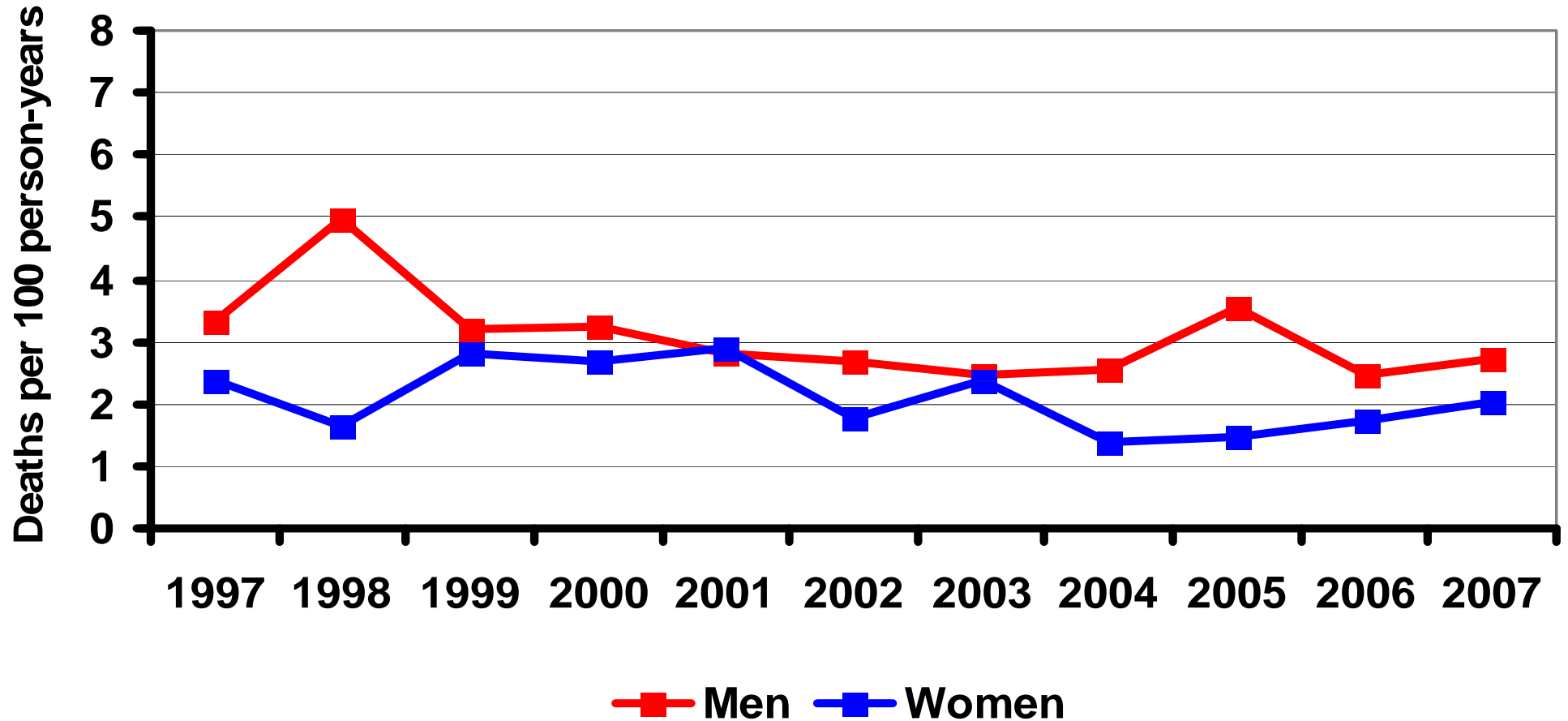
Death rate in patients with AIDS



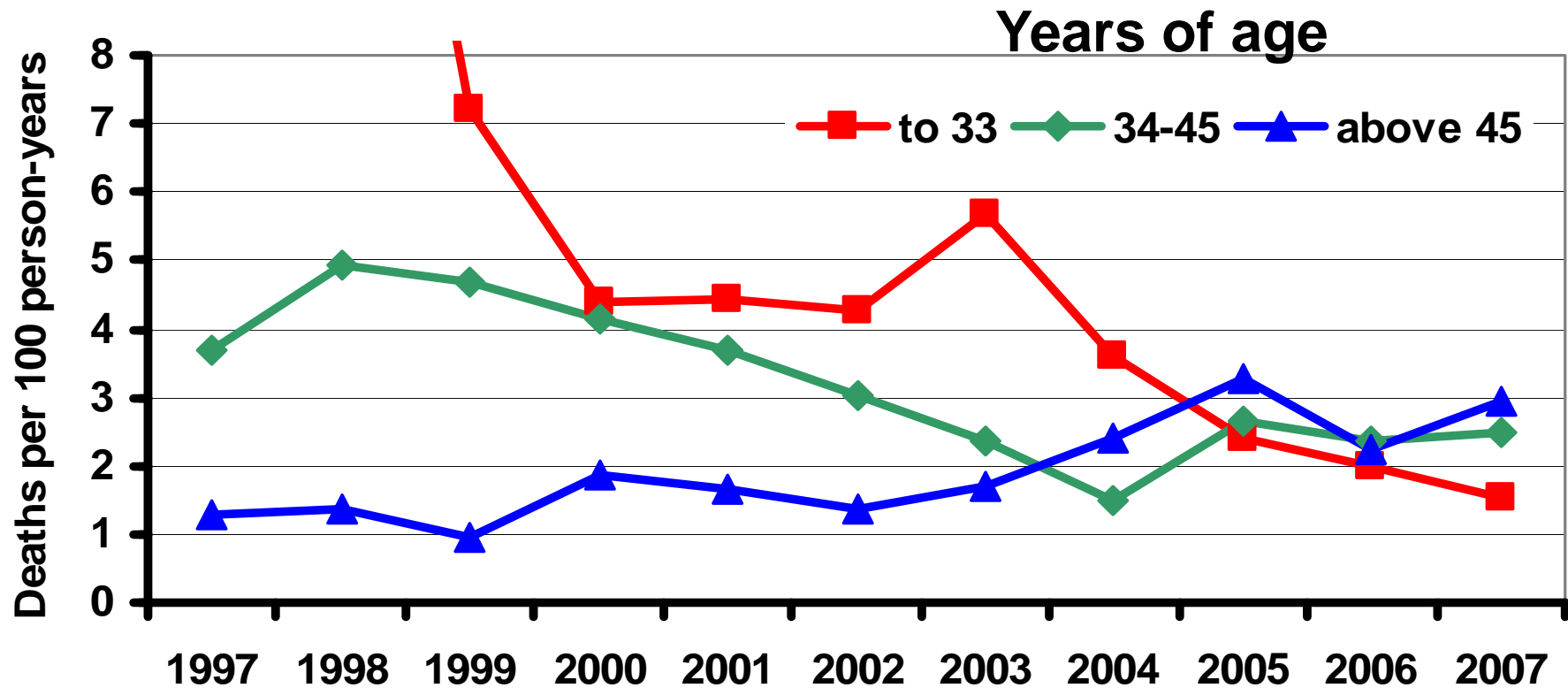
Death rate in all patients and patients with AIDS



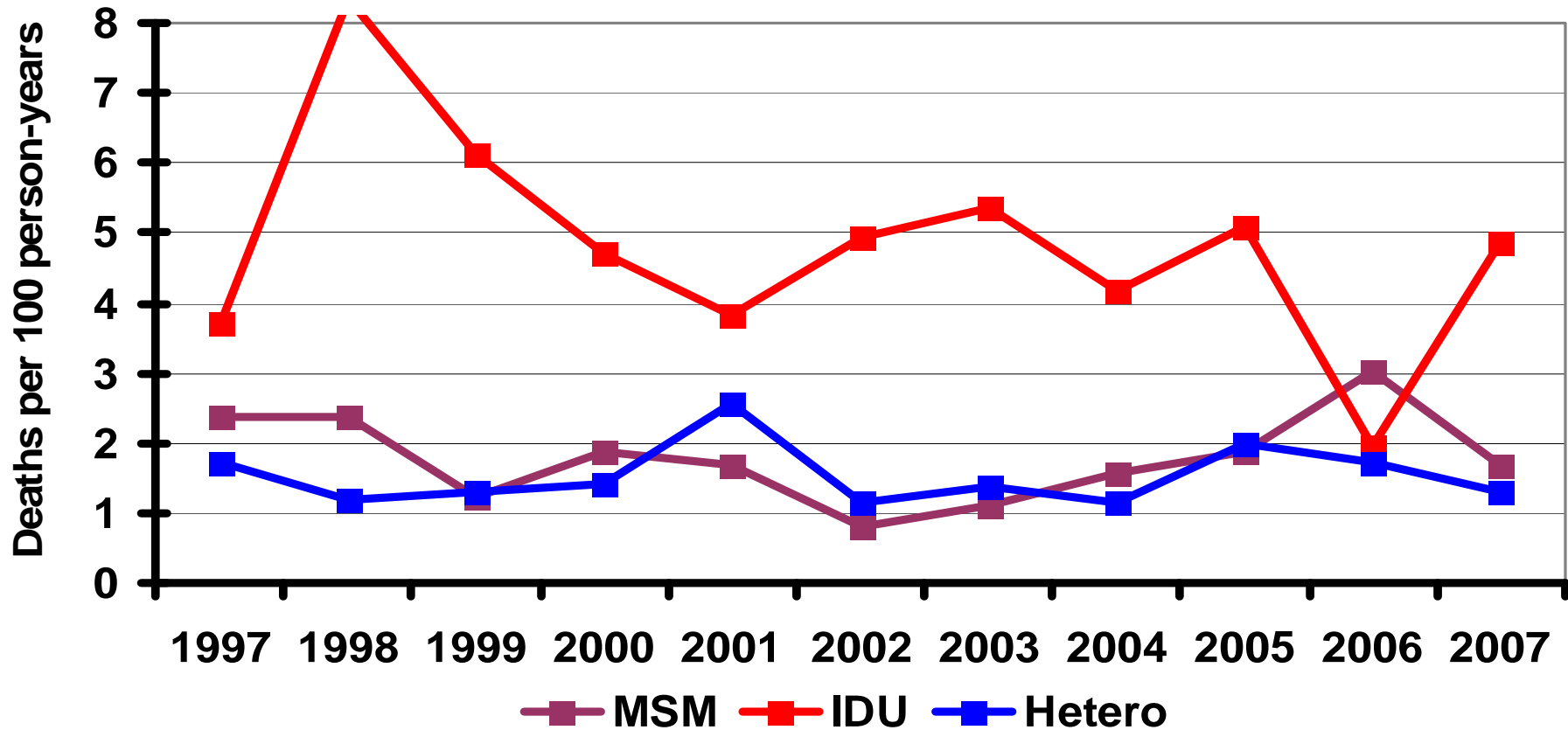
Death rate in all patients (N=480)



Death rate in all patients (N=480)

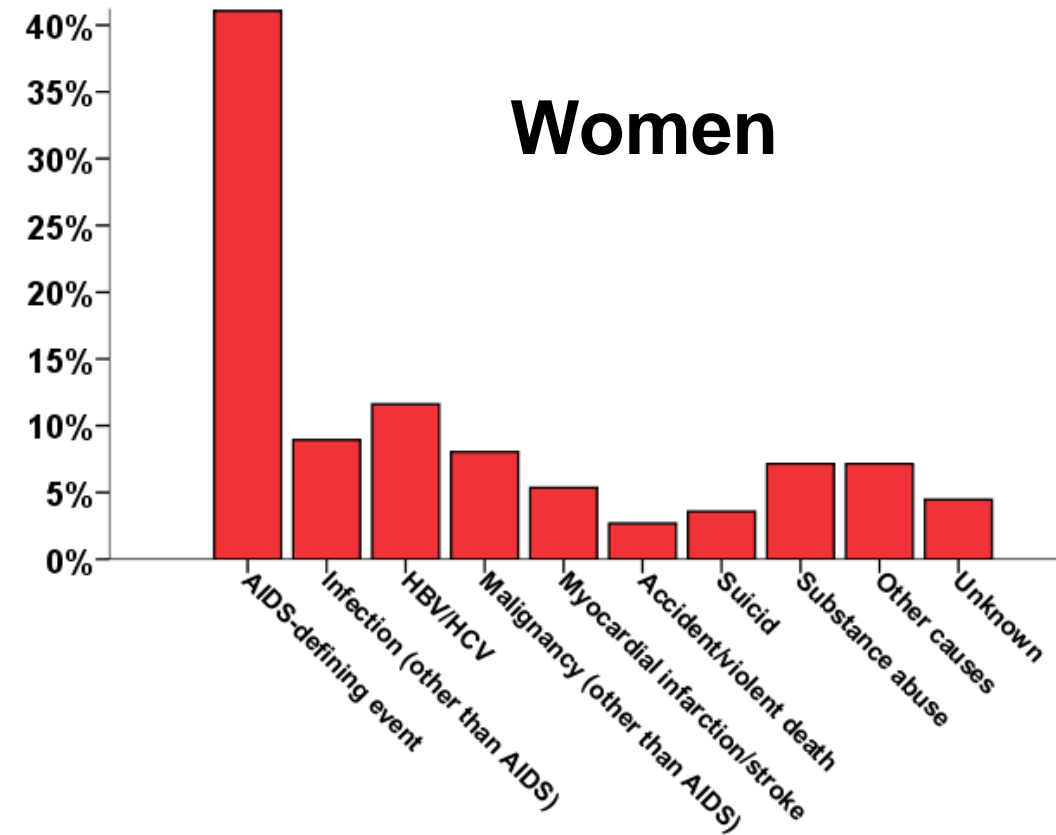


Death rate in all patients (N=480)

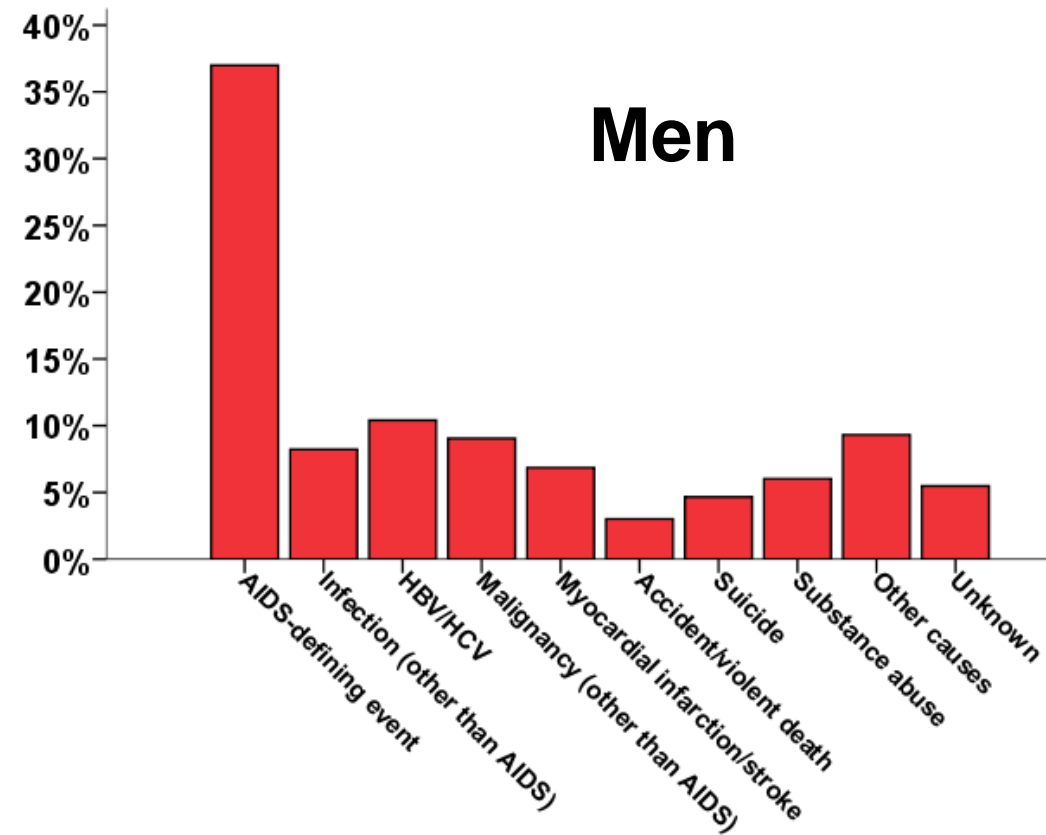


Causes of death, ÖHIVKOS 1997-2007 (N=480)

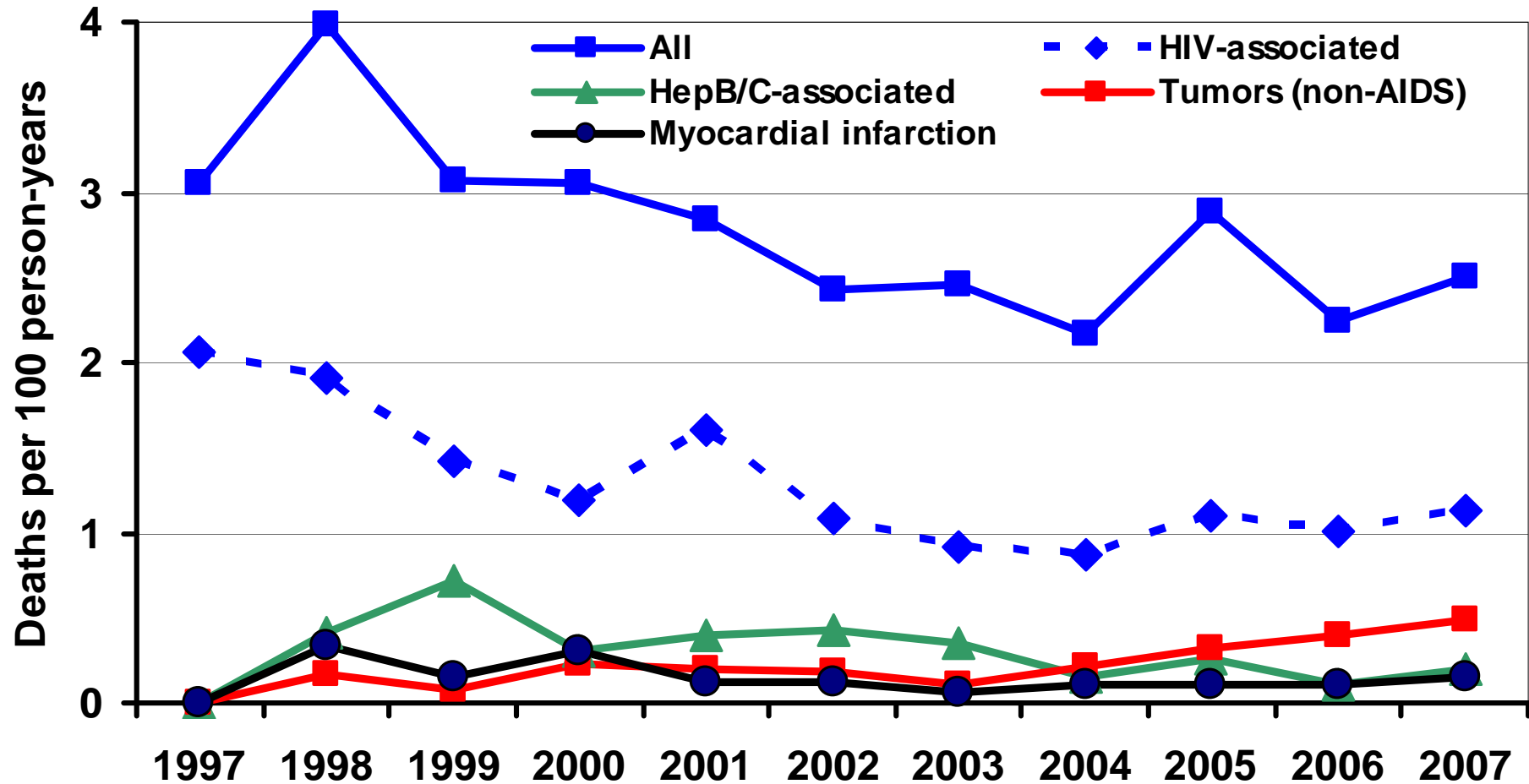
Women



Men

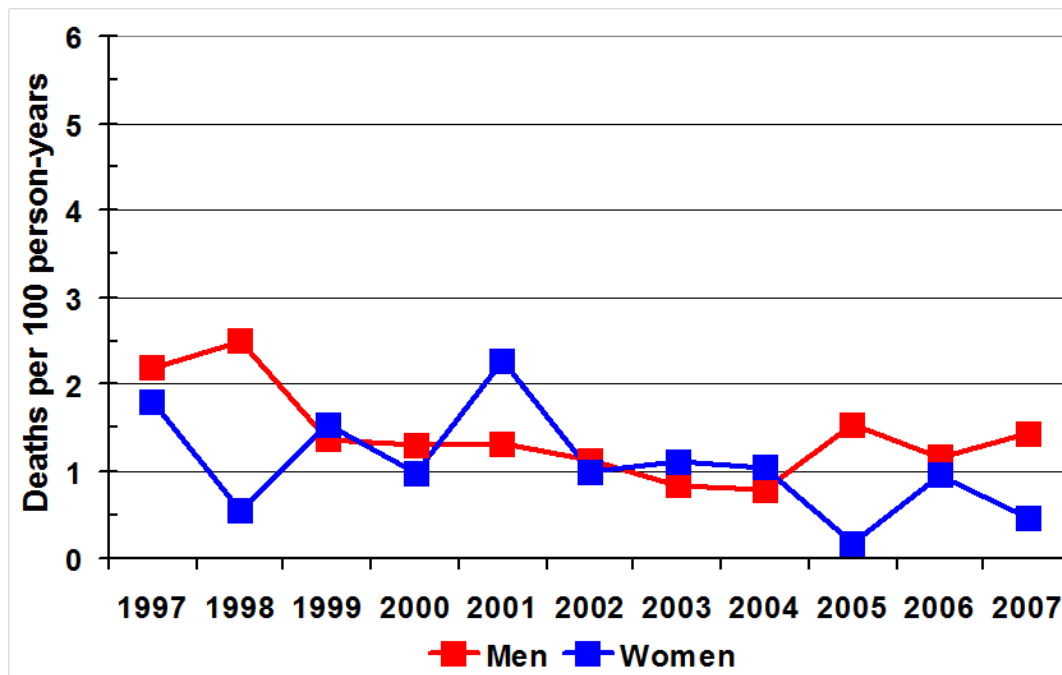


Death rate, different causes of death (N=480)

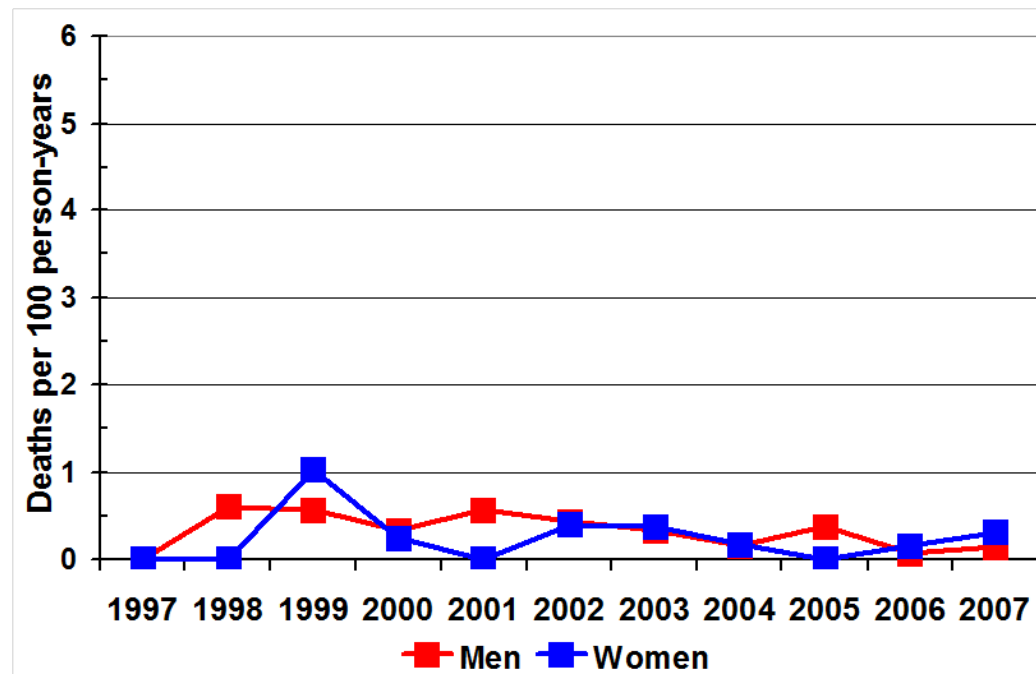


Death rate, different causes of death

Cause of death: HIV-associated



Cause of death : HepB/C-associated



Hepatitis C point prevalence:

1997
23,3%

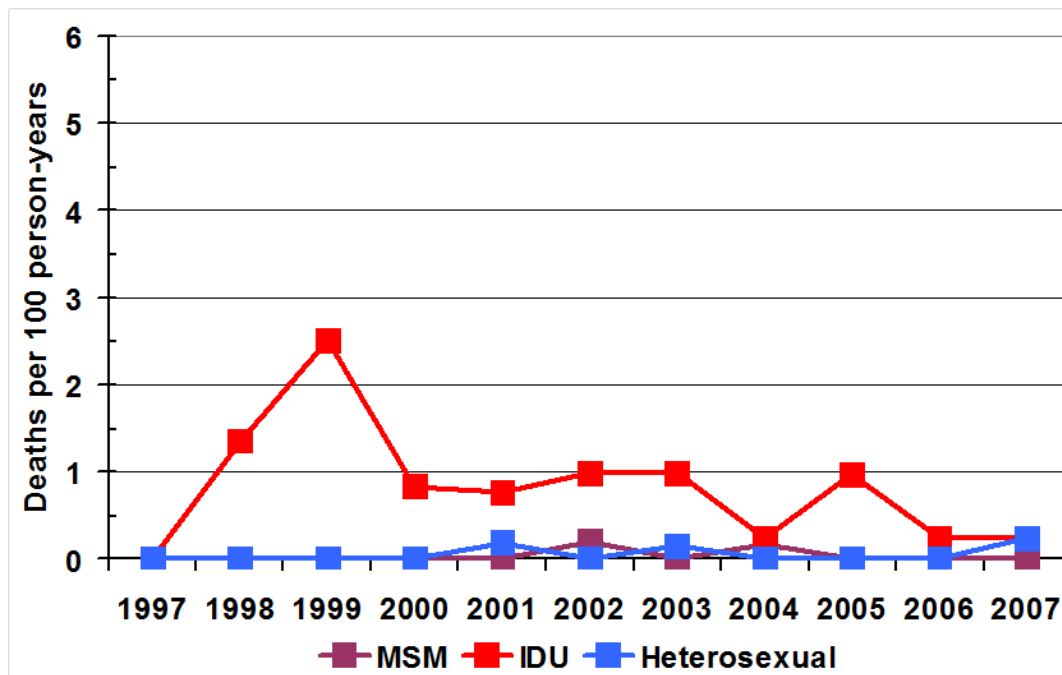
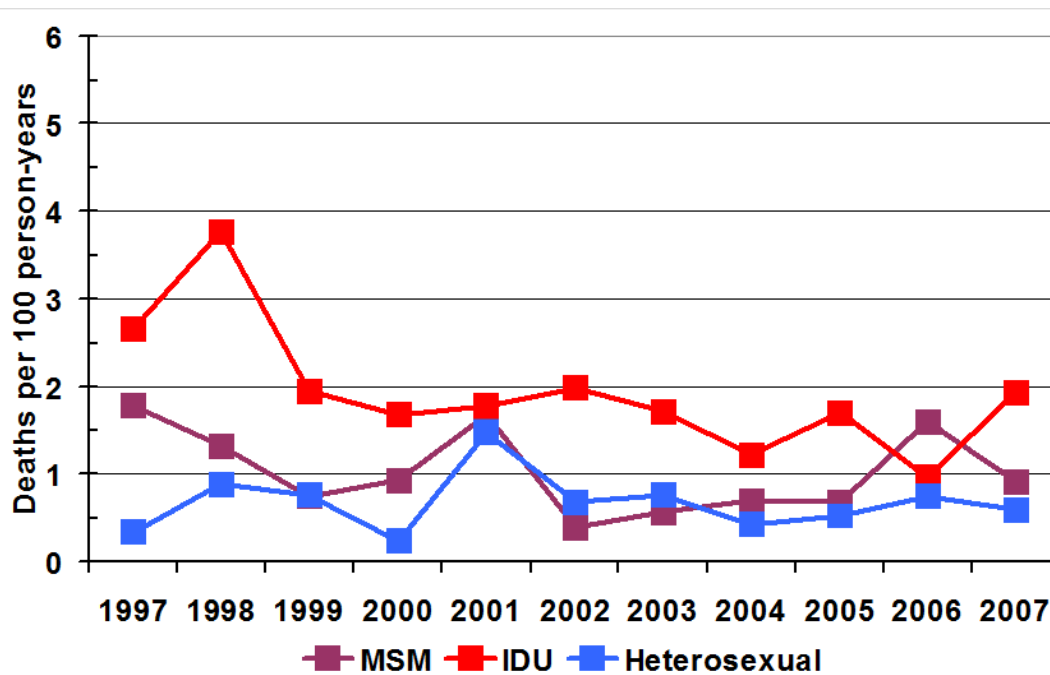
2001
20,4%

2007
16,1%

Death rate, different causes of death

**Cause of death:
HIV-associated**

**Cause of death :
HepB/C-associated**



Hepatitis C point prevalence :

1997
23,3%

2001
20,4%

2007
16,1%

Characteristics of deceased patients 1997 - 2007

	1997	2002	2007
Age in years	38,3	40,0	45,8
Last CD4 count (cells/μl)	120	170	215
Deaths per 100 person-years			
All	3,05	2,42	2,50
HIV-associated	2,06	1,09	1,13
HBV/HBC-associated	0	0,42	0,20
Tumours (non-AIDS)	0	0,18	0,49
Myocardial infarction	0	0,12	0,15
Gender			
Men	3,34	2,70	2,72
Women	2,38	1,77	2,02

Limitations

- **Categorization of cause of death somewhat arbitrary (competing diseases)**
- **Underestimating effect of contributing diseases (e.g. liver cirrhosis)**
- **Missing data due to migration**

Conclusions

- **HIV-associated mortality decreased after introduction of HAART but stabilized thereafter.**
- **Increasing CD4 counts at time of death during study period.**
- **Increasing death rates in older patients since 2002.**
- **Change in cause of mortality: more deaths due to tumours and myocardial infarction.**
- **Injection drug use associated with a higher risk of mortality.**
- **Lower death rate in women.**

Thank you!