

AIDS & HIV in the Travis County

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Outline

- Worldwide
- HIV/AIDS surveillance
- National
- Travis County
 - Prevalence
 - Trends
 - Disparities
 - Mortality
 - Modes of exposure
 - Risk factors / behaviors
 - Pediatric



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Global estimates for adults & children end 2003

- People living with HIV/AIDS __ 40 million
- New HIV infections in 2003 __ 5 million
- Deaths from HIV/AIDS in 2003 _ 3 million

WHO

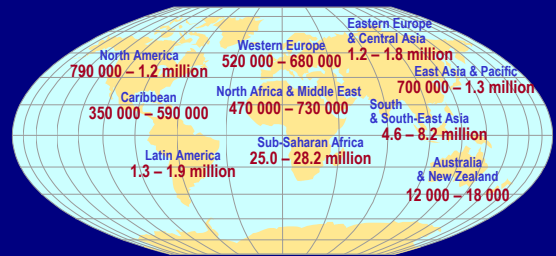


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Adults and children estimated to be living with HIV/AIDS as of end 2003



WHO



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HIV incidence worldwide

- 5 million people were infected with HIV in 2003
- 4.2 million adults
- 700,000 children (<15 years old)



Region	# of new infections-2002	Main modes of transmission
Sub-Saharan Africa	3.5 million	Hetero
N. Africa & Middle East	83 000	Hetero, IDU
S. & S.E. Asia	700 000	Hetero, IDU
E. Asia & Pacific	270 000	Hetero, IDU, MSM
Latin America	150 000	MSM, IDU, Hetero
Caribbean	60 000	MSM, Hetero
E. Europe & C. Asia	250 000	IDU
W. Europe	30 000	MSM, IDU
N. America	45 000	MSM, IDU, Hetero
Australia & N.Z.	500	MSM

HIV/AIDS surveillance

The on-going and systematic collection, analysis, interpretation, dissemination, and evaluation of population-based information about persons infected with HIV or diagnosed with AIDS



How data are collected

Active reporting (Texas)

State and local health department surveillance personnel collect information by contacting health care practitioners and reviewing medical records in hospital and clinics



What data are collected?

- Demographic characteristics
 - Sex, race/ethnicity, age
- Mode of exposure to HIV
- Opportunistic illnesses & immunologic status
- Supplemental information
 - Prescription of antiretroviral & prophylactic therapies
 - Use of medical & substance abuse treatment services
 - Health insurance coverage



Confidentiality

- All data is kept confidential and private
- Names and personal identifiers of both cases and physicians are not reported to CDC



Limitations

- HIV surveillance data only include persons who have been tested confidentially
- Not all states require HIV surveillance
- AIDS surveillance data only represent persons with last-state HIV disease



Representativeness of data

- Data only include persons who have been tested, and may not be representative of all HIV-infected persons
- It is estimated that at least 2/3 of HIV-infected persons have been confidentially tested and would be included in the surveillance system



Uses of data

- Monitor the incidence & prevalence of HIV infection and AIDS, and HIV-related morbidity and mortality in the population
- Identify changes in trends of HIV transmission & identify populations at risk
- Target prevention interventions and evaluate their effectiveness
- Allocate funds for social and health services



United States

- 850,000 – 900,000 people living with HIV/AIDS
- 25% don't know they are infected
- 40,000 new HIV infections each year

- CDC

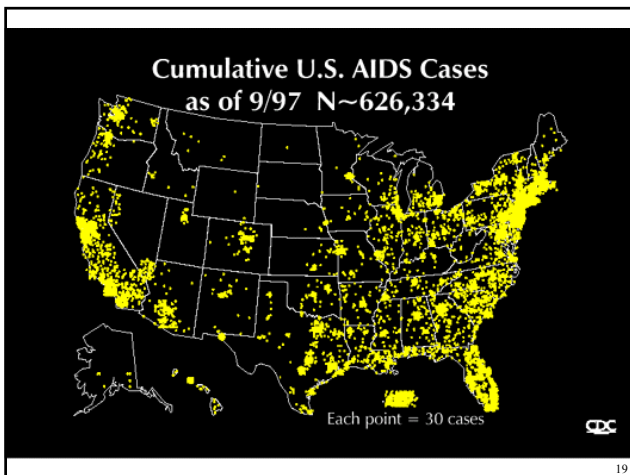
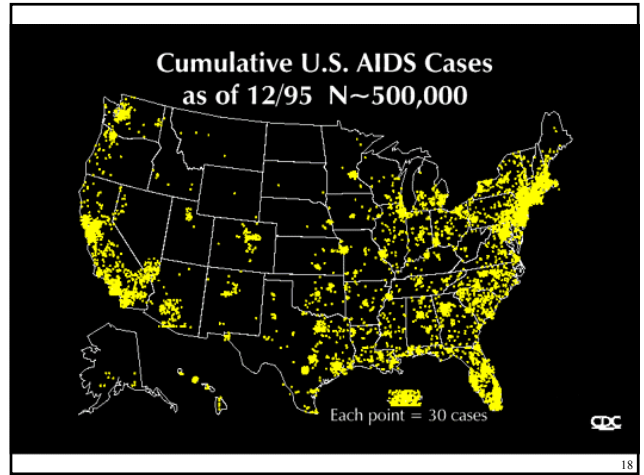
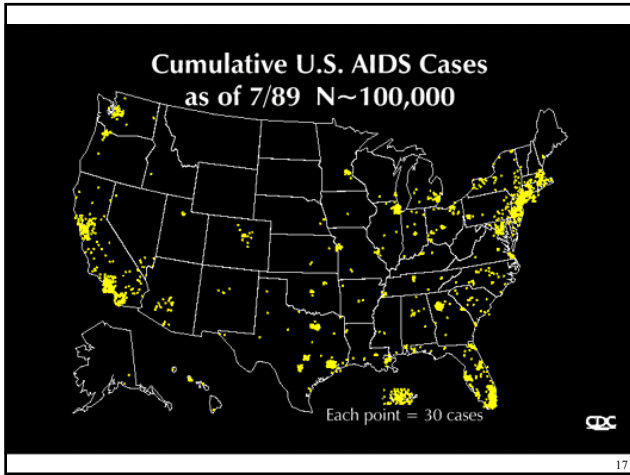


Cumulative U.S. AIDS Cases as of 2/83 N~1,000



Cumulative U.S. AIDS Cases as of 5/85 N~10,000





State/Territory	# of Cumulative AIDS Cases
New York	155,755
California	128,064
Florida	90,233
Texas	59,772
New Jersey	45,237
Illinois	28,426
Pennsylvania	28,136
Puerto Rico	27,242
Georgia	26,008
Maryland	25,358

CDC-2002

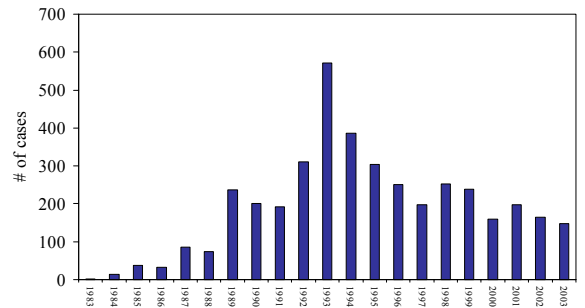
Texas Counties with >500,000 population

Area	Cumulative AIDS cases
Travis	4,049
Bexar	4,405
Collin	359
Dallas	13,458
El Paso	1,369
Harris	21,492
Hidalgo	525
Tarrant	3,652
Texas	19,192

2003



Number of new AIDS cases by year



Travis County



Number of new AIDS & HIV cases, 2003

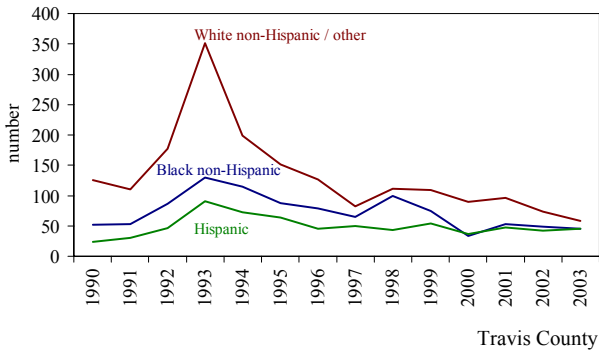
Category	AIDS	HIV
Total	148	163
Male	124	137
Female	24	26
White non-Hispanic / Other	58	77
Black non-Hispanic	45	46
Hispanic	45	40
<30	23	52
30-39	63	66
40-49	48	32
50+	14	13



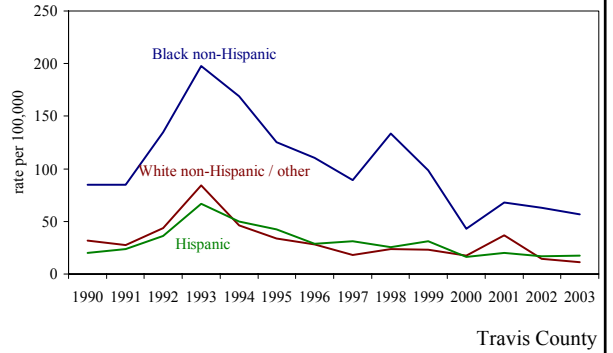
Why use rates

- Just using the number of new cases can be misleading
- It does not account for differences or changes in total population size
- Rate = # of new cases of disease during a year divided by the total population

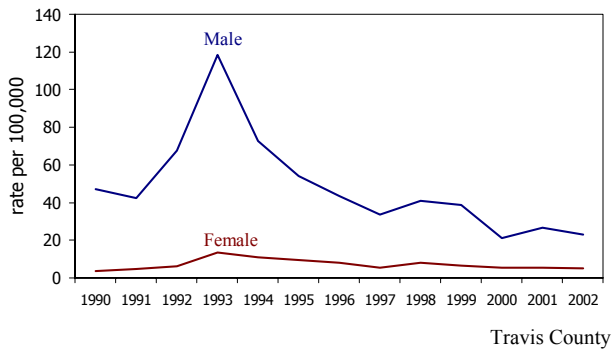
AIDS cases by race/ethnicity



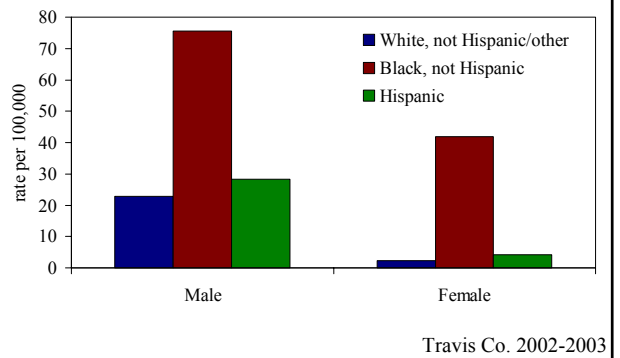
Rate of new AIDS cases by race/ethnicity



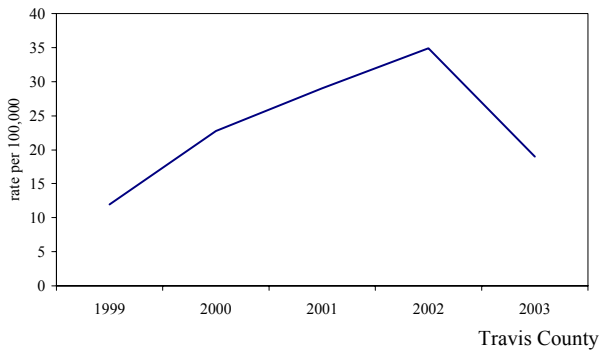
Rate of new AIDS cases by gender



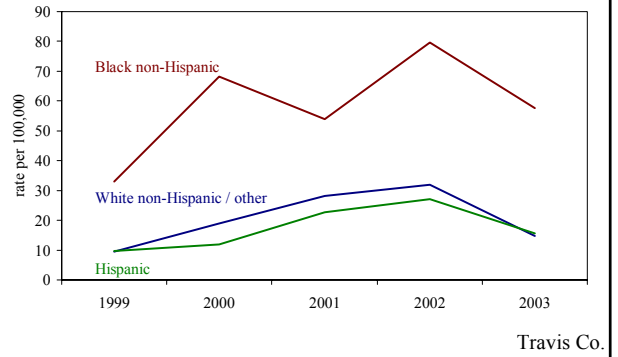
AIDS rates by sex & race/ethnicity



Rate of new HIV cases



HIV rates by race/ethnicity



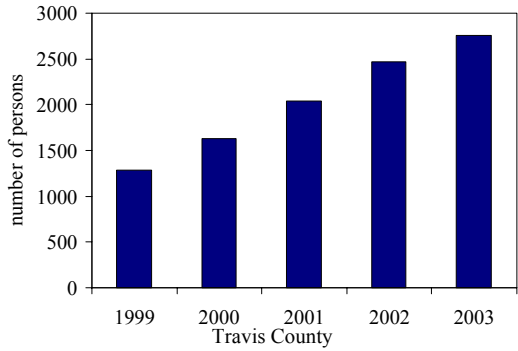
Cumulative HIV/AIDS by race/ethnicity, Travis County as of 2003

Race/ethnicity	No.
Hispanic	988
American Indian / Alaskan Native	11
Asian	15
Black non-Hispanic	1,316
Native Hawaiian / Pacific Islander	0
White non-Hispanic	2,697
Multiple race & unknown	3

Persons living with HIV infection

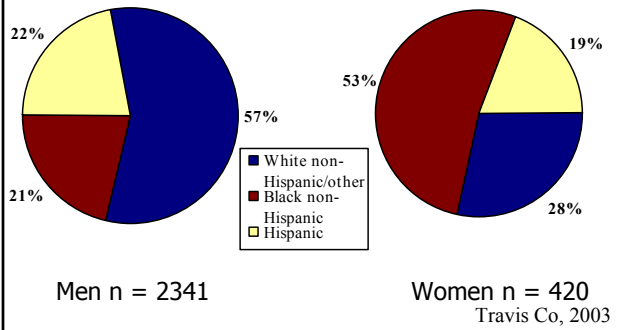
- 1983
 - First cases reported in Travis County
- 2003
 - 2,761 known living HIV positive individuals in Travis County
 - Most likely much higher

Persons living with HIV Infection

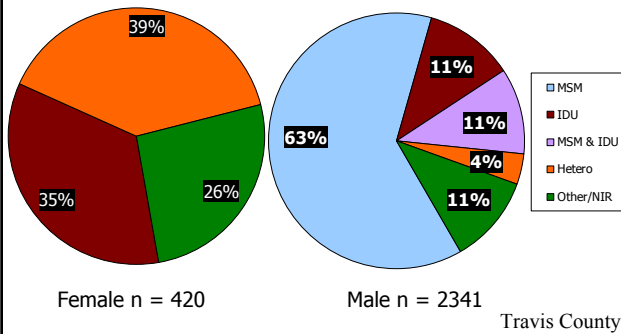


Source: HARS

People living with HIV infections by sex & race/ethnicity

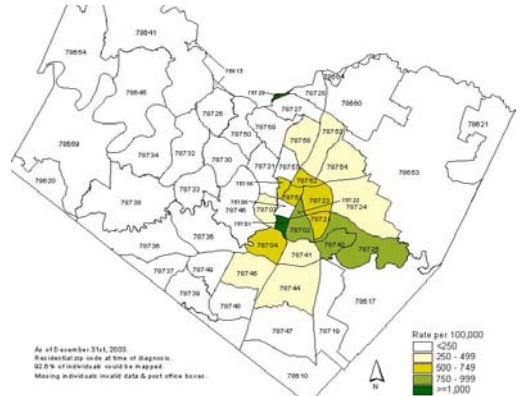


Living with HIV/AIDS by exposure category – 2003

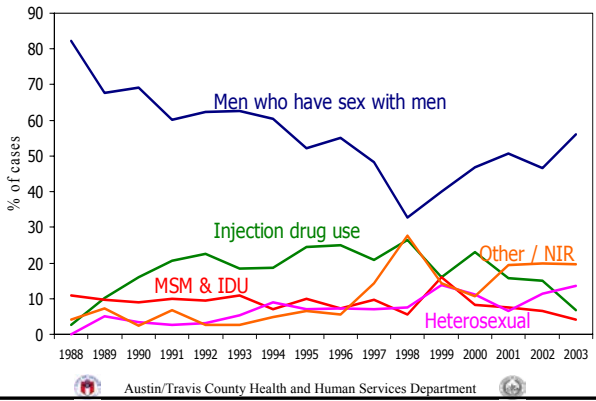


Travis County

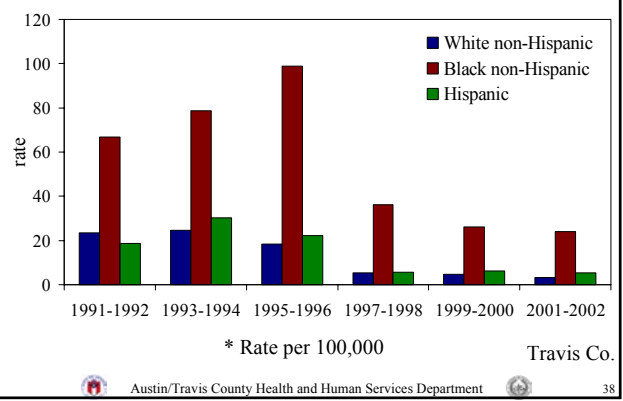
Prevalence of HIV/AIDS by zip code, 2003



Proportions of AIDS cases, among adults & adolescents, by exposure category & year of diagnosis, Travis County



Age adjusted HIV/AIDS mortality rates*



Other data sources

- Use more than just HIV/AIDS surveillance data
- Use other data sources to:
 - Monitor risk behaviors
 - Track risk groups
 - Track co-morbidities
 - Track service needs

Past-year prevalence of substance use among adults

	Austin	Dallas	El Paso	Fort Worth	Houston	San Antonio	Texas
Any illicit drug	21.3	10.1	8.2	8.9	10.7	10.3	9.4
Marijuana	18.8	7.4	6.1	6.9	7.7	8.0	7.0
Cocaine/crack	4.6	2.4	1.1	1.2	1.8	5.5	2.0
Heavy alcohol	7.0	6.1	4.9	5.0	6.0	8.3	5.7

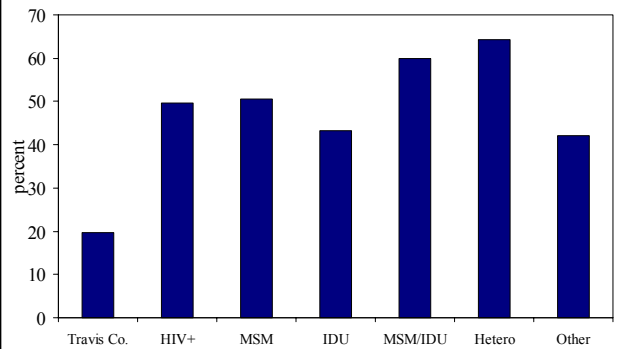
Source: Texas Commission on Alcohol and Drug Abuse, 2000

Supplement to HIV & AIDS Surveillance Project

- Supplemental questionnaire to known HIV and AIDS cases in Travis County
- Centers for Disease Control & Prevention funded project administered by the Texas Department of Health
- Covers behaviors, risk factors and socioeconomic factors



% of HIV+ individuals with a diagnosed mental disorder



Source: Supplement to HIV and AIDS Surveillance Survey

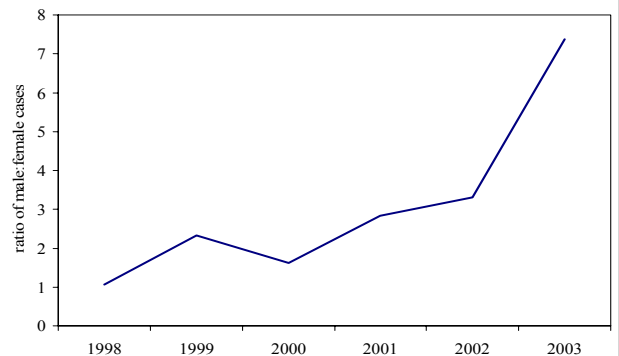


Syphilis

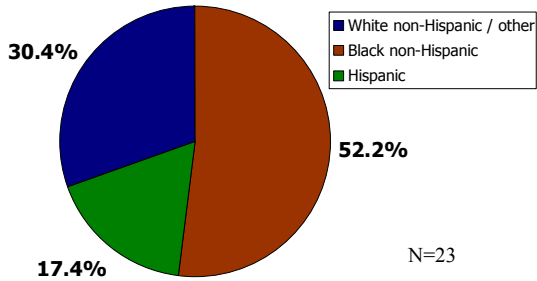
- Syphilis and other STDs are sensitive, early markers of behaviors associated with HIV transmission
- Syphilis increases transmission and acquisition of HIV
- Syphilis trends may provide an early warning of changes in sexual behaviors and HIV incidence



Ratio of male to female cases

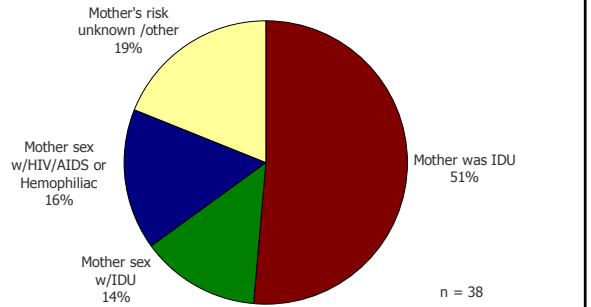


Living pediatric HIV/AIDS cases by race/ethnicity, 2003



Travis Co.

Mother's exposure category for pediatric AIDS/HIV cases, cumulative as of 12/31/2003



Travis County

Summary

- Decreasing rates of AIDS, and HIV?
- African Americans disproportionately affected by HIV/AIDS
- Modes of exposure are changing

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