



TB & HIV: Opportunities for Prevention & Intervention

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Special Thanks

- Arizona Department of Health Services
 - HIV Epidemiology Program
 - <http://www.azdhs.gov/phs/hiv/reporting/>



Presentation Goals

- During this presentation we will discuss:
 - Current HIV Prevalence and Incidence in Arizona
 - Risk behaviors related to HIV infection
 - Link between Tuberculosis and HIV
 - Opportunities for prevention and intervention in TB/HIV co-morbid patients



The HIV Epidemic in Arizona

- Approximately 700-800 new cases of HIV/AIDS each year
- 14,265 PLWHA in Arizona
 - 371.29/100,000 males
 - 60.41/100,000 females
- Estimated 1 of every 459 persons in Arizona is HIV+



Disparities by Race/Ethnicity

RACE/ ETHNICITY	Current HIV/AIDS Prevalence			Emergent HIV/AIDS 2004-2008			2008 Population Estimates	
	Cases	% Total	Rate Per 100,000	Cases	% Total	Rate Per 100,000	Population	% State Total
White non-Hispanic	8,146	57.60%	211.99	1,760	47.6	9.48	3,842,673	59.10%
Black non-Hispanic	1,596	11.30%	638.43	431	11.7	38.54	249,988	3.80%
Hispanic	3,561	25.20%	182.09	1252	33.8	14.05	1,955,630	30.10%
A/PI/H ¹ non-Hispanic	166	1.20%	96.31	51	1.4	6.58	172,364	2.70%
AI/AN ² non-Hispanic	445	3.10%	159.2	161	4.4	12.07	279,525	4.30%
MR/ ³ Other non-Hispanic	228	1.60%	N/A	44	1.2	N/A	N/A	N/A
TOTAL	14142	100.00%	217.56	3699	100	12.05	6,500,180	100.00%

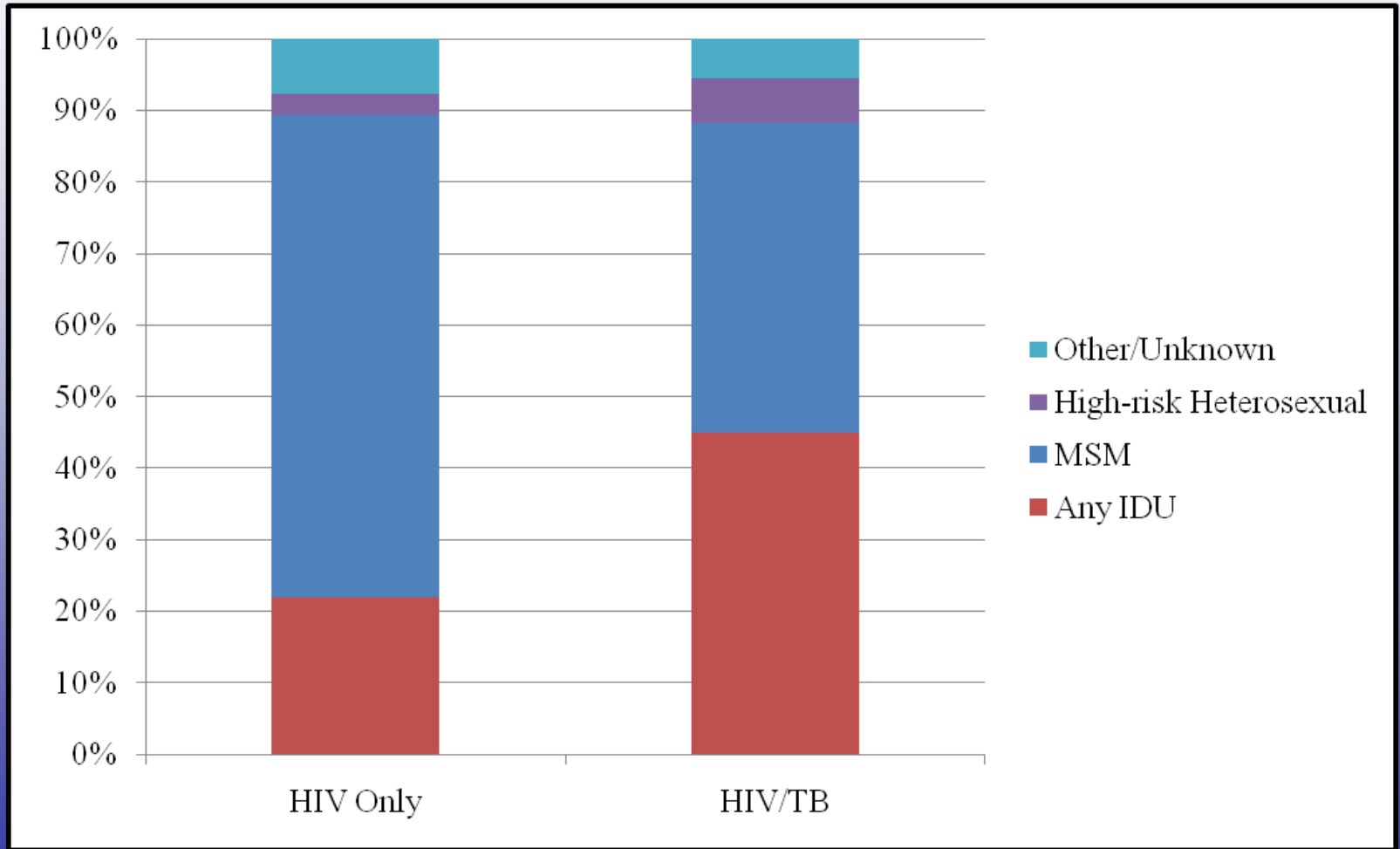


Transmission Category

Risk Category/ Mode of Transmission	Current HIV/AIDS Prevalence		Emergent HIV/AIDS 2004-2008	
	Cases	% State Total	Cases	% State Total
MSM ¹	8,491	60.00%	2,247	60.70%
IDU ²	1,573	11.10%	402	10.90%
MSM/IDU ³	1,206	8.50%	193	5.20%
Heterosexual	1,397	9.90%	373	10.10%
O/H/TF/TPR ⁴	171	1.20%	25	0.70%
No Reported Risk	1,304	9.30%	459	12.40%
TOTAL	14,142	100.00%	3,699	100.00%

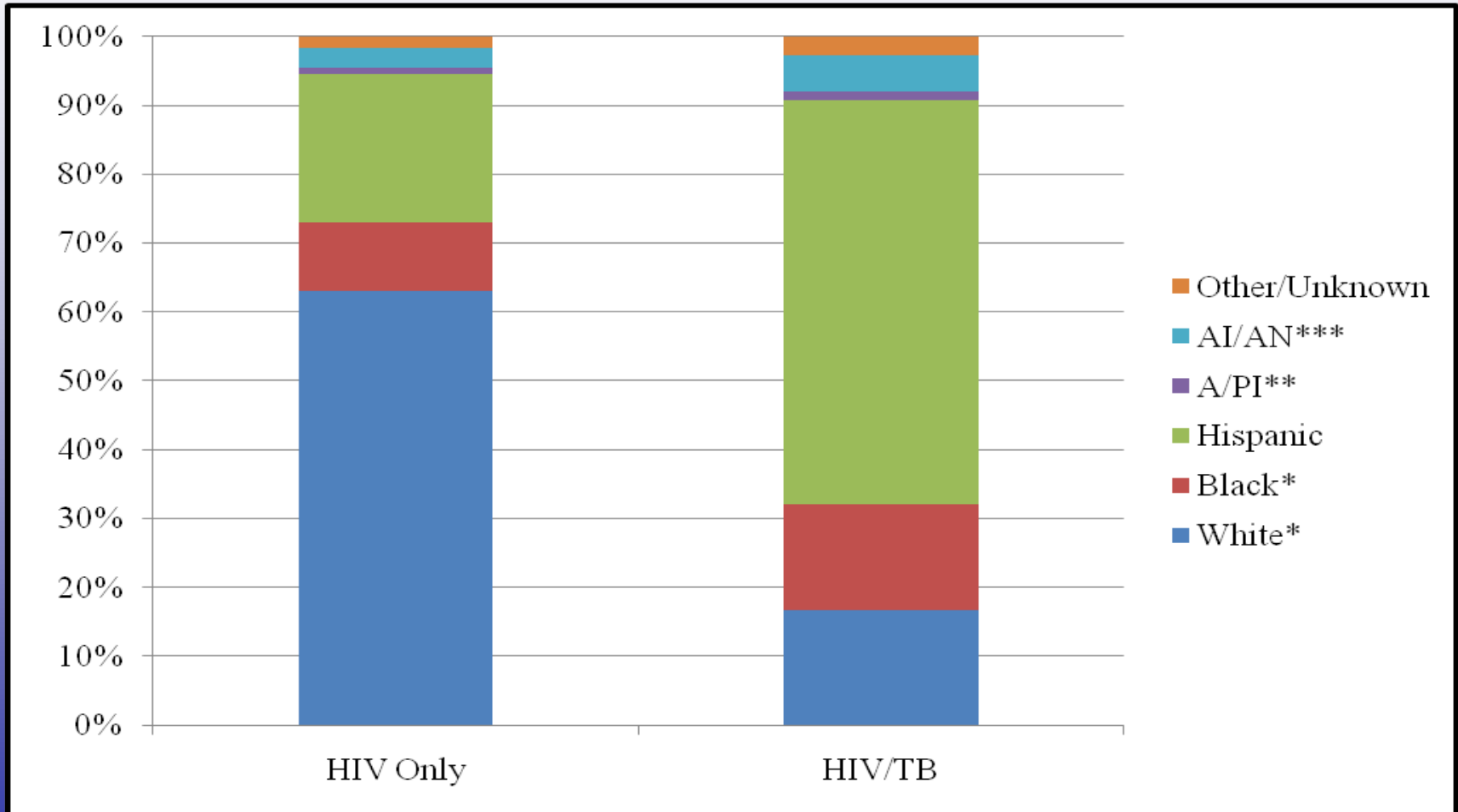


TB/HIV by RISK





TB/HIV by Race/Ethnicity





Opt-Out HIV Testing

- HIV testing in Arizona does not require additional written consent
- Routine HIV testing is better than risk-based HIV testing
- CDC recommends all patients in TB clinics be tested for HIV
- CDC recommends all HIV+ patients be screened for TB



Diagnoses Lag Time

- 23.2% received TB dx 1 month after HIV dx
- 60.5% received TB dx 3 months after HIV dx
- Possible conclusions:
 - Patient was co-infected at time of HIV dx but was not screened for TB until medical care initiated
 - Patient was previously LTBI but progressed to active TB due to HIV infection



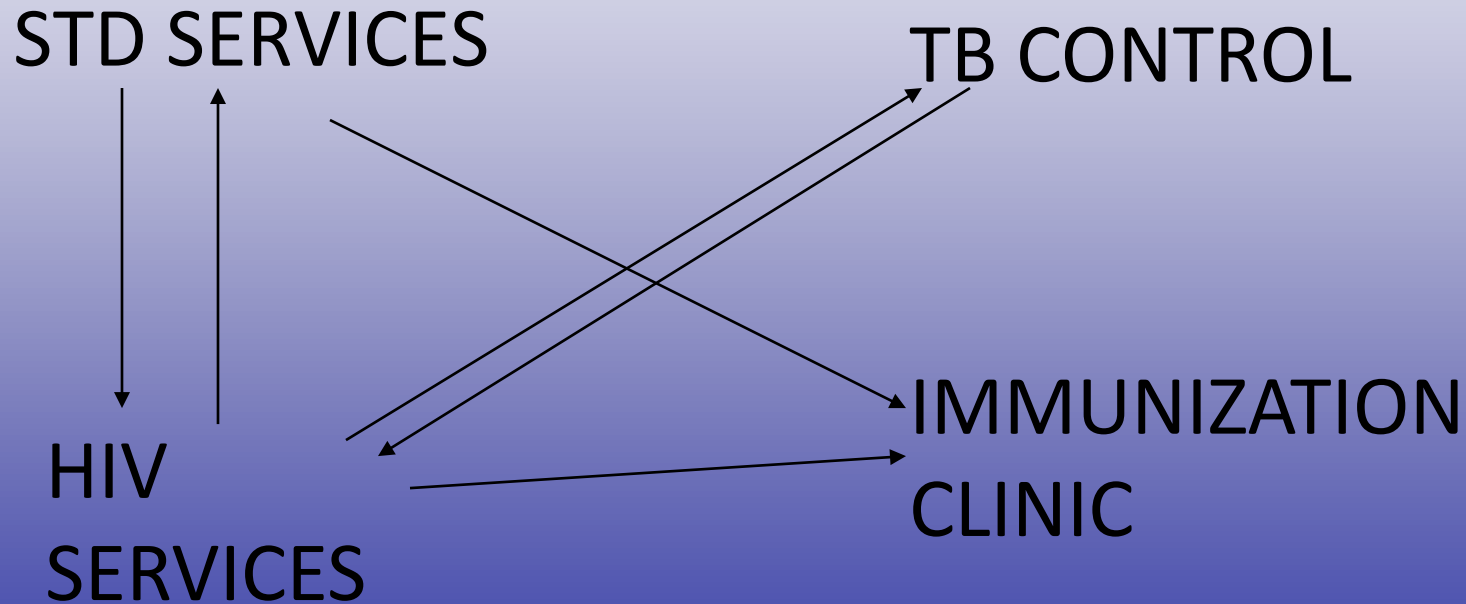
Screening Implications

- Recommendation
 - Screen all HIV+ individuals for TB
 - Screen all persons with TBI and LTBI for HIV
- Intervention Opportunities
 - Treatment regimens may change based on HIV tx
 - <http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5302a6.htm>
 - HIV+ persons have access to other services to improve health outcomes (RWPA, PCIP, etc.)



Public Health Approach

- MCDPH provides a comprehensive screening approach for STD, TB and HIV screening.





HIV Partner Services

- HIV & AIDS are reportable conditions in Arizona (ARS 36-621 and AAC R9-6-202)
- Partner Services follows up with each person reported to have an HIV infection to:
 - Conduct a needs assessment
 - Assist with accessing medical care and services
 - Conduct a contact investigation



Questions?

THANK YOU!