



Chapter 4: HIV and AIDS Comparison

West Virginia AIDS and HIV Infection Cases by Age Group, Gender, Race, and Risk Behavior Cumulative through 2000*

The following items are noted from a review of Table 4.1:

- 18% of the AIDS cases are 20-29, but 41% of the HIV infection cases.
- AIDS cases appear older than HIV infection cases as shown in the 30-39 and 40-49 age groups (Table 4.1):
 - ❖ 45% AIDS cases are in the 30-39 age group, while 37% are HIV infection cases.
 - ❖ 26% AIDS cases are in the 40-49 age group, while 15% are HIV infection cases.
- 13% of AIDS cases are females and 27% of HIV infection cases.
- 18% of AIDS cases are black and 35% HIV infections cases, while comprising only 3% of the state's population.
- When comparing risk behavior for AIDS cases and HIV infection cases:
 - ❖ The MSM risk behavior accounted for 56% of adult AIDS cases, while this risk behavior accounted for 43% of adult HIV infection cases.
 - ❖ The heterosexual contact risk behavior accounted for 16% of adult HIV infection cases, while accounting for only 9% of adult AIDS cases.

West Virginia AIDS and HIV Infection Cases by Age Group, Gender, Race, and Risk Behavior Cumulative through 2000*						
Characteristic	AIDS		HIV		Total	
Age Group	#	%	#	%	#	%
Under 5	7	1	4	1	11	1
5-12	2	<1	1	<1	3	<1
13-19	8	1	24	4	32	2
20-29	190	18	227	39	417	25
30-39	483	45	216	37	699	42
40-49	278	26	87	15	365	22
50+	101	9	27	5	128	8
Gender						
Male	929	87	426	73	1355	82
Female	140	13	160	27	300	18
Race						
White	863	81	351	60	1214	73
Black	194	18	206	35	400	24
Other/Unknown	12	1	29	5	41	2
Risk Behavior						
Adult						
MSM	598	56	250	43	848	52
IDU	174	16	109	19	283	17
MSM/IDU	64	6	20	3	84	5
Coagulation Disorder	37	3	7	1	44	3
Heterosexual Contact	94	9	95	16	189	12
Transfusion/Transplant	34	3	5	1	39	2
No Identified Risk	6	1	5	1	11	1
Other^	53	5	90	15	143	9
Subtotal	1060	100	581	100	1641	100
Pediatric						
Coagulation Disorder	1	11	0	0	1	7
Mother HIV Positive	8	89	5	100	13	93
Subtotal	9	100	5	100	14	100
TOTAL CASES	1069	100	586	100	1655	100

Table 4.1

MSM = Men having Sex With Men; **IDU** = Injecting Drug User

* AIDS data includes April 1984 through December 2000, and HIV data includes January 1989 through December 2000.

^ Other risk behavior includes cases reported with no risk identified that have been closed to follow-up.

Note: Percent in columns may not add up to 100% due to rounding

West Virginia People Living with HIV/AIDS by Age Group, Gender, Race, and Risk Behavior, through 2000*

Table 4.2 displays cumulative number of **People Living With HIV/AIDS (PLWHA)**, the following items are noted:

- The 20-29 age group among people living with AIDS and HIV reported 16% of the AIDS cases, but 39% of the HIV infection cases and 28% of PLWHA.
- People living with AIDS are older than those living with HIV infection as shown in the 30-39 and 40-49 age groups (Table 4.2):
 - ❖ In the 30-39 age group 45% of people living with AIDS, while 37% living with HIV infection and 40% PLWHA.
 - ❖ In the 40-49 age group 30% of people living with AIDS, while 15% living with HIV infection.
- Among females 14% living with AIDS and 28% living with HIV infection.
- When comparing risk behavior for AIDS cases and HIV infection cases:
 - ❖ The MSM risk behavior accounted for 56% of adults living with AIDS, while it is accounted for 43% of adult living with HIV infection and 49% of PLWHA.
 - ❖ The heterosexual contact risk behavior accounted for 17% of adult living with HIV infection, while accounting for only 10% of adult living with AIDS.

West Virginia People Living with HIV/AIDS by Age Group, Gender, Race, and Risk Behavior, through 2000*						
Characteristic	AIDS		HIV		PLWHA	
Age Group	#	%	#	%	#	%
Under 5	4	1	4	1	8	1
5-12	0	0	1	<1	1	<1
13-19	4	<1	24	4	28	3
20-29	73	16	215	39	288	28
30-39	204	45	204	37	408	40
40-49	137	30	84	15	221	22
50+	35	8	24	4	59	6
Gender						
Male	393	86	402	72	795	78
Female	64	14	154	28	218	22
Race						
White	360	79	330	59	690	68
Black	89	19	198	36	287	28
Other/Unknown	8	2	28	5	36	4
Risk Behavior						
Adult						
MSM	255	56	239	43	494	49
IDU	78	17	101	18	179	18
MSM/IDU	30	7	17	3	47	5
Coagulation Disorder	12	3	5	1	17	2
Heterosexual Contact	47	10	92	17	139	14
Transfusion/Transplant	3	<1	5	1	8	1
No Identified Risk	6	1	7	1	13	1
Other^	22	5	85	15	107	11
Subtotal	453	99	551	100	1004	100
Pediatric						
Coagulation Disorder	0	0	0	0	0	0
Mother HIV Positive	4	100	5	100	9	100
Subtotal	4	100	5	100	9	100
TOTAL CASES	457	100	556	100	1013	100

Table 4.2

MSM = Men having Sex With Men; **IDU** = Injecting Drug User

* AIDS data includes April 1984 through December 2000, and HIV data includes January 1989 through December 2000.

^ Other risk behavior includes cases reported with no risk identified that have been closed to follow-up.

Note: Percent in columns may not add up to 100% due to rounding

West Virginia AIDS and HIV Infection Cases and People Living with HIV/AIDS Cases, by Age Group and Gender, 1984 - 2000*

Eighty-seven percent of all AIDS and 73% HIV infection cases occurred among males, while 13% and 27% occurred among females respectively (Table 4.3). AIDS cases among the males and females in 30-39 age group was most affected, male 45% and female 49%, while HIV infection more occurred in 20-29 age group for females (41%).

Table 4.4 shows that males and females among people living with HIV/AIDS, the age group most affected was the 30-39 age group. Forty-four percent of AIDS and 38% of HIV infection cases were reported among 30-39 age group for males and 47% of AIDS and 33% of HIV infection cases among the same age group for females. Males among people living with AIDS in 40-49 age group is 31% compare to 25% of females in same age group.

West Virginia AIDS and HIV Infection Cases Comparison by Age Group and Gender, 1984 - 2000*														
Age Group	Male						Female						Total	
	AIDS		HIV		Total		AIDS		HIV		Total			
	#	%	#	%	#	%	#	%	#	%	#	%	#	%
0-12	4	0	3	1	7	1	5	4	2	1	7	2	14	1
13-19	8	1	13	3	21	2	0	0	11	7	11	4	32	2
20-29	161	17	161	38	322	24	29	21	66	41	95	32	417	25
30-39	414	45	161	38	575	42	69	49	55	34	124	41	699	42
40-49	252	27	68	16	320	24	26	19	19	12	45	15	365	22
50+	90	10	20	5	110	8	11	8	7	4	18	6	128	8
Total Cases	929	100	426	100	1355	100	140	100	160	100	300	100	1655	100
% AIDS/HIV	87		73				13		27				100	
% Male/Female	82						18						100	

Table 4.3

West Virginia People Living with HIV/AIDS by Age Group and Gender, 1984 - 2000*														
Age Group	Male						Female						Total	
	AIDS		HIV		Total		AIDS		HIV		Total			
	#	%	#	%	#	%	#	%	#	%	#	%	#	%
0-12	3	1	3	1	6	1	1	2	2	1	3	1	9	1
13-19	4	1	13	3	17	2	0	0	11	7	11	5	28	3
20-29	60	15	150	37	210	26	13	20	65	42	78	36	288	28
30-39	174	44	153	38	327	41	30	47	51	33	81	37	408	40
40-49	121	31	65	16	186	23	16	25	19	12	35	16	221	22
50+	31	8	18	4	49	6	4	6	6	4	10	5	59	6
Total Cases	393	100	402	100	795	100	64	100	154	100	218	100	1013	100
% AIDS/HIV	86		72				14		28				100	
% Male/Female	78						22						100	

Table 4.4

* AIDS data includes April 1984 through December 2000, and HIV data includes January 1989 through December 2000.

West Virginia AIDS and HIV Infection Cases and People Living with HIV/AIDS Cases, by Age Group and Race, 1984 - 2000*

AIDS cases reported from 1984 through 2000 disproportionately affected blacks. Blacks comprise 3% of West Virginia's population, but were 18% of total AIDS and 35% of HIV infection cases reported (Table 4.5).

Among the people younger than forty years of age(0-39 age group), AIDS cases among whites were primarily younger than blacks(66% to 58%). This trend is also true for people living with AIDS (64%to 53%). The 30-39 age group among PLWHA should be targeted(40%) followed by 20-29 age group(29%) (Table 4.6).

West Virginia AIDS and HIV Infection Cases Comparison by Age Group and Race, 1984 - 2000*																				
Age Group	White						Black						Other						Total	
	AIDS		HIV		Total		AIDS		HIV		Total		AIDS		HIV		Total			
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
0-12	4	0	4	1	8	1	4	2	1	0	5	1	1	8	0	0	1	2	10	1
13-19	8	1	7	2	15	1	0	0	14	7	14	4	0	0	3	10	3	7	22	2
20-29	164	19	141	40	305	25	25	13	71	34	96	24	1	8	15	52	16	39	345	25
30-39	394	46	131	37	525	43	83	43	76	37	159	40	6	50	9	31	15	37	580	43
40-49	215	25	53	15	268	22	60	31	33	16	93	23	3	25	1	3	4	10	295	22
50+	78	9	15	4	93	8	22	11	11	5	33	8	1	8	1	3	2	5	103	8
Total Cases	863	100	351	100	1214	100	194	100	206	100	400	100	12	100	29	100	41	100	1355	100
% AIDS/HIV	81		60				18		35				1		5				100	
% Race	90						7						3						100	

Table 4.5

West Virginia People Living with HIV/AIDS by Age Group and Race, 1984 - 2000*																				
Age Group	White						Black						Other						Total	
	AIDS		HIV		Total		AIDS		HIV		Total		AIDS		HIV		Total			
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
0-12	1	0	4	1	5	1	2	2	1	1	3	1	1	13	0	0	1	3	9	1
13-19	4	1	7	2	11	2	0	0	14	7	14	5	0	0	3	11	3	8	28	3
20-29	65	18	130	39	195	28	7	8	70	35	77	27	1	13	15	54	16	44	288	28
30-39	163	45	124	38	287	42	38	43	72	36	110	38	3	38	8	29	11	31	408	40
40-49	100	28	51	15	151	22	35	39	32	16	67	23	2	25	1	4	3	8	221	22
50+	27	8	14	4	41	6	7	8	9	5	16	6	1	13	1	4	2	6	59	6
Total Cases	360	100	330	100	690	100	89	100	198	100	287	100	8	100	28	100	36	100	1013	100
% AIDS/HIV	79		59				19		36				2		5				100	
% Race	68						28						4						100	

Table 4.6

* AIDS data includes April 1984 through December 2000, and HIV data includes January 1989 through December 2000.

West Virginia AIDS and HIV Infection Cases and People Living with HIV/AIDS Cases, by Risk Behavior and Race, 1984 - 2000*

Tables 4.7 and 4.8 display cumulative AIDS and HIV infection cases and people living with HIV/AIDS by Risk Behavior and race through December 31, 2000. Whites among MSM risk behavior were most affected by the AIDS and HIV epidemic, as they accounted for 63% of the reported AIDS cases and 59% of HIV infection cases. The risk behavior most impacting West Virginia's black HIV/AIDS cases was IDU, accounting for 42% of AIDS and 33% of HIV reported cases compared to 47% of blacks living with AIDS and 31% living with HIV infection. The predominate risk behavior for white males was MSM, accounting for 63% of the reported white male cases and 65% of MSM living with AIDS.

West Virginia AIDS and HIV Infection Cases Comparison by Risk Behavior and Race, 1984 - 2000*																				
Risk Behavior	White						Black						Other						Total	
	AIDS		HIV		Total		AIDS		HIV		Total		AIDS		HIV		Total			
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
MSM	543	63	207	59	750	62	51	26	35	17	86	22	4	33	8	28	12	29	848	51
IDU	90	10	36	10	126	10	81	42	67	33	148	37	3	25	6	21	9	22	283	17
MSM/IDU	55	6	14	4	69	6	9	5	5	2	14	4	0	0	1	3	1	2	84	5
Coagulation Disorder	36	4	6	2	42	3	1	1	0	0	1	0	0	0	1	3	1	2	44	3
Heterosexual Contact	64	7	46	13	110	9	30	15	41	20	71	18	0	0	8	28	8	20	189	11
Transfusion/Transpla	29	3	3	1	32	3	5	3	2	1	7	2	0	0	0	0	0	0	39	2
Mother with HIV Risk	4	0	4	1	8	1	4	2	1	0	5	1	1	8	0	0	1	2	14	1
Risk Not Specified	42	5	35	10	77	6	13	7	55	27	68	17	4	33	5	17	9	22	154	9
Total Cases	863	100	351	100	1214	100	194	100	206	100	400	100	12	100	29	100	41	100	1655	100
% HIV/AIDS	81		60				18		35		400		1		5		41		100	
% Race	73.4						24.2						2.5						100	

Table 4.7

West Virginia People Living with HIV/AIDS by Risk Behavior and Race, 1984 - 2000*																				
Risk Behavior	White						Black						Other						Total	
	AIDS		HIV		Total		AIDS		HIV		Total		AIDS		HIV		Total			
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
MSM	234	65	197	60	431	62	19	21	34	17	53	18	2	25	8	29	10	28	494	49
IDU	35	10	35	11	70	10	42	47	61	31	103	36	1	13	5	18	6	17	179	18
MSM/IDU	25	7	11	3	36	5	5	6	5	3	10	3	0	0	1	4	1	3	47	5
Coagulation Disorder	11	3	4	1	15	2	1	1	0	0	1	0	0	0	1	4	1	3	17	2
Heterosexual Contact	32	9	43	13	75	11	15	17	41	21	56	20	0	0	8	29	8	22	139	14
Transfusion/Transplant	2	1	3	1	5	1	1	1	2	1	3	1	0	0	0	0	0	0	8	1
Mother with HIV Risk	1	0	4	1	5	1	2	2	1	1	3	1	1	13	0	0	1	3	9	1
Risk Not Specified	20	6	33	10	53	8	4	4	54	27	58	20	4	50	5	18	9	25	120	12
Total Cases	360	100	330	100	690	100	89	100	198	100	287	100	8	100	28	100	36	100	1013	100
% HIV/AIDS	79		59		690	100	19		36		287	100	2		5		36	100	100	
% Race	68						28						4						100	

Table 4.8

* AIDS data includes April 1984 through December 2000, and HIV data includes January 1989 through December 2000.

West Virginia AIDS and HIV Infection Cases and People Living with HIV/AIDS Cases, by Year of Report, 1984-2000*

West Virginia AIDS and HIV Infection Cases and People Living with HIV/AIDS by Year of Report, through 2000*								
Year Reported	AIDS			HIV (Not AIDS)			Total	
	Total	Alive		Total	Alive		Total	Alive
		#	%		#	%		%
1984-88	68	2	0	0	0	0	68	2
1989	55	4	7	22	20	91	77	24
1990	54	3	6	32	29	91	86	32
1991	71	5	7	35	30	86	106	35
1992	45	5	11	52	50	96	97	55
1993	100	19	19	44	43	98	144	62
1994	95	37	39	47	43	91	142	80
1995	129	59	46	58	56	97	187	115
1996	121	77	64	53	51	96	174	128
1997	119	91	76	61	57	93	180	148
1998	94	67	71	65	61	94	159	128
1999	62	53	85	43	43	100	105	96
2000	56	35	63	74	73	99	130	108
Total	1,069	457	43	586	556	95	1,655	1,013

Table 4.9

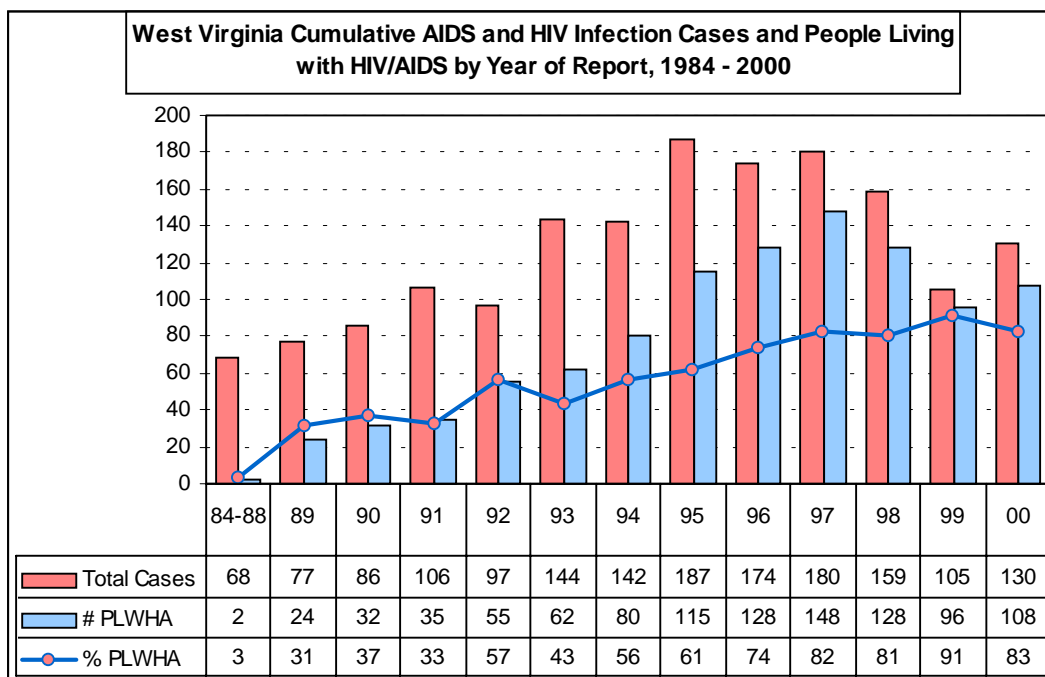


Figure 4.1

Table 4.9 and Figure 4.1 shows that the percentage of survival for HIV infection and AIDS cases continue to increase except the year 2000 due to discovery of new AIDS cases from death registry. While the percentage of survival remained high, the number of HIV infection cases continued to increase (72% increase from 1999). While the number of AIDS cases decreased in 2000, the survival rates for PLWHA continued to increase due to new drug therapies (Table 4.9). This supports benefit of continued quality of care.

* AIDS data includes April 1984 through December 2000, and HIV data includes January 1989 through December 2000.

West Virginia AIDS and HIV Infection Cases and People Living with HIV/AIDS by Age Group, 1984 - 2000*

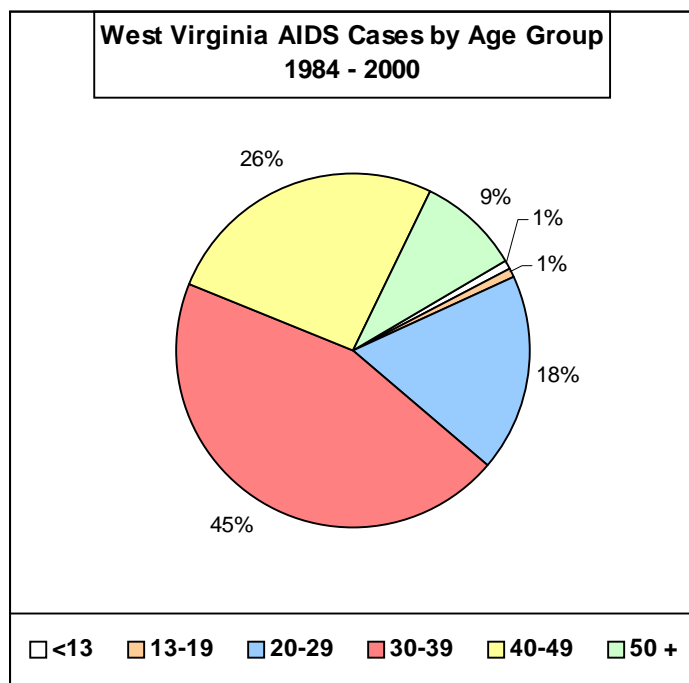


Figure 4.2

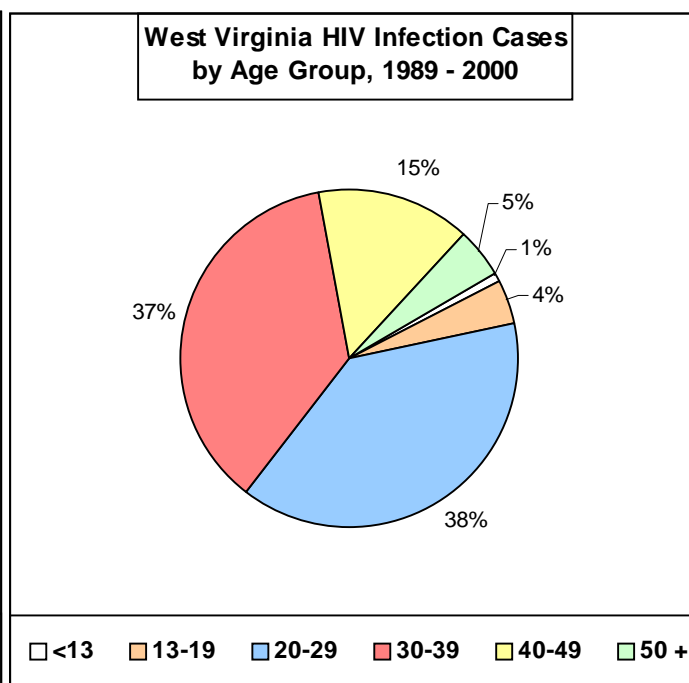


Figure 4.3

West Virginia AIDS and HIV Infection Cases and People Living with HIV/AIDS by Age Group, 1984 - 2000*												
Age Group	Cumulative						Alive					
	AIDS		HIV		Total		AIDS		HIV		PLWHA	
	#	%	#	%	#	%	#	%	#	%	#	%
Under 5	7	1	4	1	11	1	4	1	4	1	8	1
5-12	2	0	1	<1	3	<1	0	0	1	<1	1	<1
13-19	8	1	24	4	32	2	4	1	24	4	28	3
20-29	190	18	227	39	417	25	73	16	215	39	288	28
30-39	483	45	216	37	699	42	204	45	204	37	408	40
40-49	278	26	87	15	365	22	137	30	84	15	221	22
50+	101	9	27	5	128	8	35	8	24	4	59	6
Total	1069	100	586	100	1655	100	457	100	556	100	1013	100

Table 4.10

- People living with AIDS are older than those living with HIV infection among people 30 years of age and older (83% for AIDS to 56% for HIV).
- The 30-39 age group is 45% of AIDS and PLWA, while 37% of HIV and PLWH and 40% PLWHA.

* AIDS data includes April 1984 through December 2000, and HIV data includes January 1989 through December 2000.

Note: Percent in pie charts may not add up to 100% due to rounding.

West Virginia AIDS and HIV Infection Cases and People Living with HIV/AIDS by Gender, 1984 - 2000*

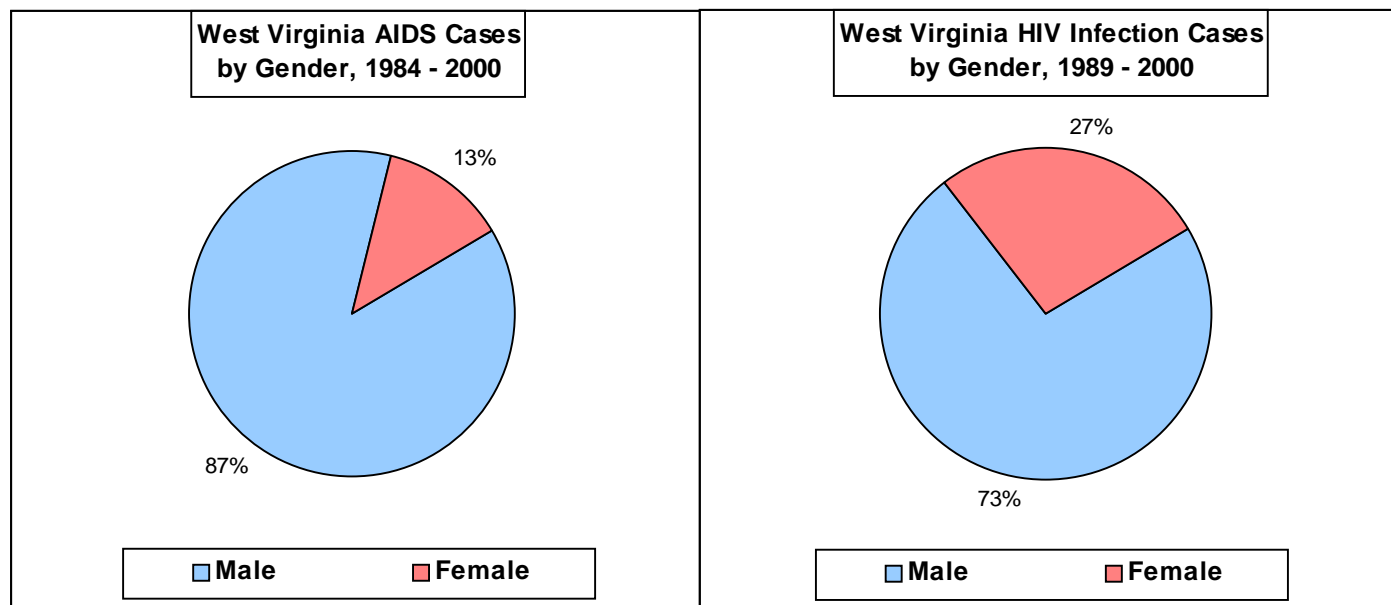


Figure 4.4

Figure 4.5

West Virginia AIDS and HIV Infection Cases and People Living with HIV/AIDS by Gender, 1984 - 2000*												
Gender	Cumulative						Alive					
	AIDS		HIV		Total		AIDS		HIV		PLWHA	
	#	%	#	%	#	%	#	%	#	%	#	%
Male	929	87	426	73	1355	82	393	86	402	72	795	78
Female	140	13	160	27	300	18	64	14	154	28	218	22
Total	1069	100	586	100	1655	100	457	100	556	100	1013	100

Table 4.11

➤ When comparing gender for AIDS, HIV infection cases and PLWHA:

- ❖ Males accounted for 87% of AIDS and 73% of HIV infection cases, while females accounted for 13% of AIDS and 27% of HIV infection cases.
- ❖ Among PLWHA, males accounted for 86% of PLWA, 72% of PLWH and 78% of PLWHA, while females accounting for 14% of PLWA, 28% of PLWH and 22% of PLWHA.

* AIDS data includes April 1984 through December 2000, and HIV data includes January 1989 through December 2000.

West Virginia AIDS and HIV Infection Cases and People Living with HIV/AIDS by Race, 1984 - 2000*

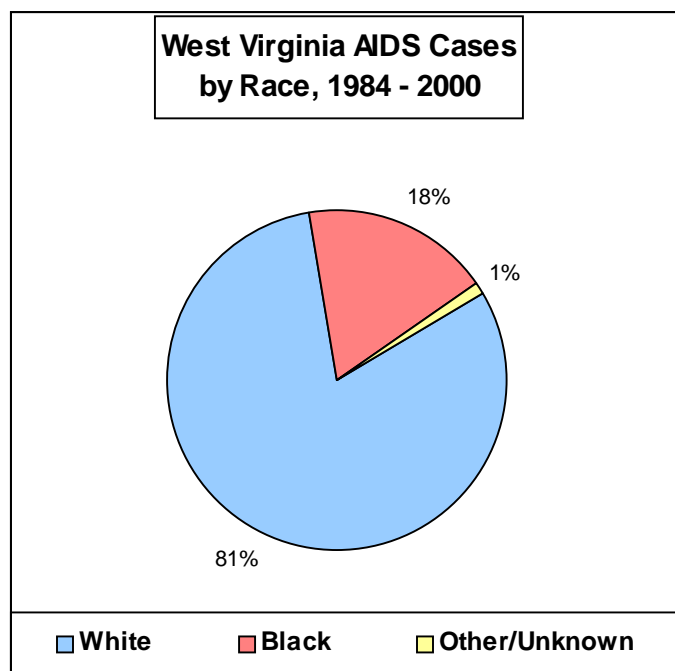


Figure 4.6

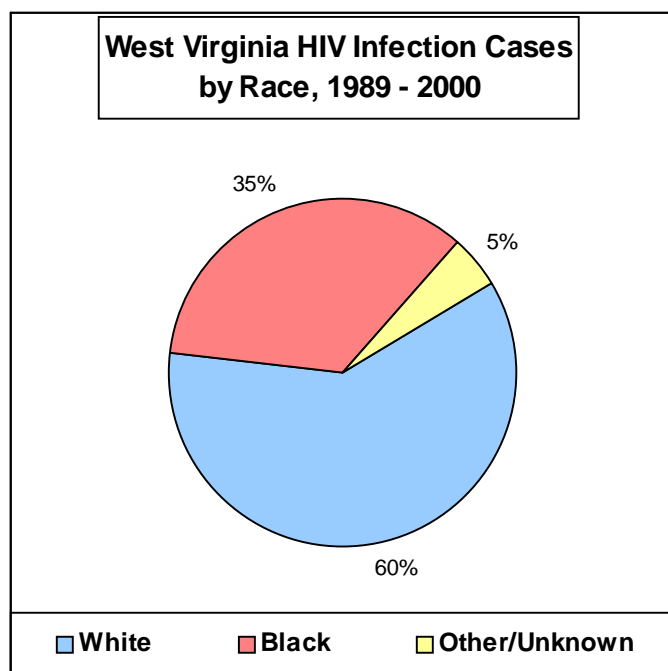


Figure 4.7

West Virginia AIDS and HIV Infection Cases and People Living with HIV/AIDS by Race, 1984 - 2000*												
Race	Cumulative						Alive					
	AIDS		HIV		Total		AIDS		HIV		PLWHA	
	#	%	#	%	#	%	#	%	#	%	#	%
White	863	81	351	60	1214	73	360	79	330	59	690	68
Black	194	18	206	35	400	24	89	19	198	36	287	28
Other	12	1	29	5	41	2	8	2	28	5	36	4
Total	1069	100	586	100	1655	100	457	100	556	100	1013	100

Table 4.12

- West Virginia population are predominantly whites(96% whites, 3% blacks and 1% others), but blacks are disproportionately affected.
- ❖ Blacks were 18% of AIDS, 35% of HIV infection and 28% of PLWHA.
- ❖ Whites had higher percentage among AIDS than HIV infection(863 cases, 81% for AIDS compared to 351 cases, 60% for HIV). This trend can also be seen among people living with HIV and AIDS(360 cases, 79% for PLWA compare to 330 cases, 59% for PLWH).

* AIDS data includes April 1984 through December 2000, and HIV data includes January 1989 through December 2000.

Note: Percent in pie charts may not add up to 100% due to rounding.

West Virginia AIDS and HIV Infection Cases and People Living with HIV/AIDS by Risk Behavior, 1984 - 2000*

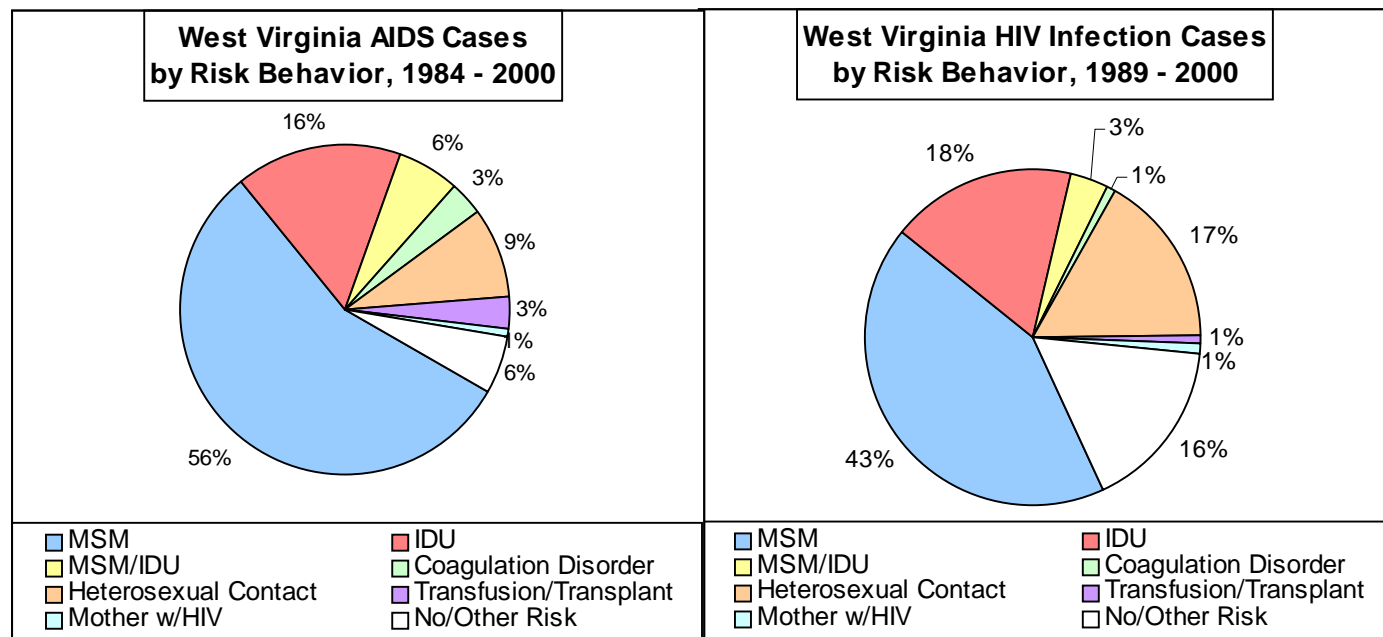


Figure 4.8

Figure 4.9

West Virginia AIDS and HIV Infection Cases and People Living with HIV/AIDS by Risk Behavior, 1984 - 2000*												
Risk Behavior	Cumulative						Alive					
	AIDS		HIV		Total		AIDS		HIV		PLWHA	
	#	%	#	%	#	%	#	%	#	%	#	%
MSM	598	56	250	43	848	51	255	56	239	43	494	49
IDU	174	16	109	19	283	17	78	17	99	18	177	17
MSM/IDU	64	6	20	3	84	5	30	7	17	3	47	5
Coagulation Disorder	37	3	7	1	44	3	12	3	5	1	17	2
Heterosexual Contact	94	9	95	16	189	11	47	10	94	17	141	14
Transfusion/Transplant	34	3	5	1	39	2	3	1	5	1	8	1
Mother w/HIV	9	1	5	1	14	1	4	1	5	1	9	1
No/Other Risk	59	6	95	16	154	9	28	6	92	17	120	12
Total	1069	100	586	100	1655	100	457	100	556	100	1013	100

Table 4.13

- When comparing risk behavior for AIDS cases and HIV infection cases and PLWHA:
- ❖ The MSM risk behavior accounted for 56% of AIDS and PLWA, while it accounted for 43% of HIV and PLWH and 49% of PLWHA.
 - ❖ The IDU risk behavior accounted for 16% of AIDS, while 19% of HIV and 17% of PLWHA.

* AIDS data includes April 1984 through December 2000, and HIV data includes January 1989 through December 2000.

Note: Percent in pie charts may not add up to 100% due to rounding.

Notes:
