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Date: 1/26/04
To: HIV/AIDS Surveillance Group
From: Randy Mayer, HIV/AIDS Surveillance Coordinator
Re: 2003 Quarter 4 Report for HIV/AIDS Surveillance

There were 33 new diagnoses of HIV infection reported in Iowa in the 4th quarter. Keeping in mind that more diagnoses will yet be reported for 2003, we have so far received reports of 79 Iowans who were newly diagnosed with HIV infection in 2003. Reports on persons diagnosed in the last quarter of the year will continue to trickle in through the end of March, but we'll definitely be substantially below the 104 diagnoses we saw in 2002.

Of the 79 new HIV diagnoses, 40 (51%) had concurrent AIDS diagnoses, and 21 (27%) were among foreign-born persons.

There were 73 new diagnoses of AIDS in 2003 (the 40 mentioned above and 33 more who converted from HIV), down slightly from the 76 diagnoses in 2002. Twenty-five percent were among foreign-born persons.

Case Report vs. Case Diagnosis - The quarterly report attached describes the number of HIV and AIDS cases reported in 2003, regardless of diagnosis date. The number of HIV (without AIDS) cases reported for the year was only 42, down from 65 in 2002. Likewise, the number of AIDS case reports was down in 2003. These are not good indicators of trends in the epidemic, as they do not directly correlate with how many people were newly diagnosed with HIV or AIDS in 2003 (see table below).

Year	# HIV ¹ Cases Reported	% Diagnosed > 1 Year Previously	# HIV ² Cases Diagnosed	# AIDS Cases Reported	# AIDS Cases Diagnosed
1999	173	68%	93	85	81
2000	124	59%	97	92	79
2001	82	46%	97	89	77
2002	65	6%	104	91	76
2003	42	2%	(79)*	76	(73)*

¹ Represents the year a case report was received for persons with HIV but not AIDS.

² Represents the year a person was first diagnosed with HIV, regardless of AIDS status.

* Incomplete data.

Promoting and protecting the health of Iowans

For most diseases, you would not expect these numbers to be very different. For HIV, however, they can be strikingly different, as the table shows. Because so many people in Iowa receive their HIV diagnoses and AIDS diagnoses simultaneously, counting the number of new HIV diagnoses involves counting a combination of HIV and AIDS case reports.

The number of HIV diagnoses is the best marker of trends in the epidemic. Please use this number when making comparisons over time, but realize that the most recent numbers are incomplete. Because diagnosis information is not available on the quarterly report, the report is most helpful for examining data by age, race/ethnicity, risk group, and geography.

Tracking the number of HIV (without AIDS) cases reported over time is mostly useful for giving us an idea of how many people are diagnosed but unreported in Iowa. The table shows that during the first full year of HIV reporting, 173 cases of HIV (without AIDS) were reported, but most of those cases were actually diagnosed more than one year previously. In 2003, there were only 42 cases reported, but nearly all were new diagnoses. This tells us very little about what is happening with the current epidemic (i.e., new diagnoses) but it does tell us a couple of things about HIV surveillance in Iowa: (1) nearly all of the people who were diagnosed before HIV reporting began have now been reported, and (2) our surveillance system quickly identifies newly diagnosed persons and gets them reported.

This system of indicating the number of cases reported in a given year rather than the number diagnosed in surveillance reports reflects historical surveillance conventions for other diseases and the fact that, for years, only AIDS cases were reportable. Having HIV data has given us better information but will require us to change our conventions somewhat. Beginning next quarter, we will reformat this report to reflect cases diagnosed rather than cases reported. CDC has just begun making this change to the national surveillance report as well.

If I lost you in this explanation, I apologize! Feel free to drop me an email with your questions. I can be reached at rmayer@idph.state.ia.us or by phone at 515-242-5150.

You may note one change on the county map of persons living with HIV/AIDS. All counties with fewer than 3 persons (including 0 cases) now contain an asterisk. Previously, counties that had no residents diagnosed with HIV/AIDS had no entry. We have changed this to conform to recommendations for security and confidentiality from CDC. I did not, however, adjust the numbers on the AIDS map.

As always, check our website for our full epidemiological profile. It can be found at http://www.idph.state.ia.us/ch/hiv_aids_programs.asp#surveillance

State of Iowa HIV and AIDS Surveillance Report December 31, 2003

(See <http://www.idph.state.ia.us/ch/hiv_aids_programs.asp#surveillance> for a full epidemiological profile)

HIV and AIDS by Age Category at Time of Diagnosis

Age	2003 HIV Cases ¹	Cumulative HIV Cases ²	2003 AIDS Cases ¹	Cumulative AIDS Cases ³	Living HIV and AIDS Cases ⁴
	# (%)	# (%)	# (%)	# (%)	# (%)
Under 5	0 --	3 (1)	1 --	9 (1)	8 (1)
5-12	0 --	3 (1)	1 --	4 --	5 --
13-19	1 --	8 (2)	0 --	10 (1)	15 (1)
20-29	10 (24)	144 (30)	11 (12)	281 (18)	275 (23)
30-39	14 (33)	185 (39)	29 (38)	697 (45)	509 (43)
40-49	12 (29)	95 (20)	25 (36)	397 (25)	278 (24)
Over 49	5 (12)	35 (7)	9 (10)	167 (11)	90 (8)
Total	42 (100)	473 (100)	76 (100)	1565 (100)	1180 (100)

HIV and AIDS by Race and Ethnicity

Race	2003 HIV Cases ¹	Cumulative HIV Cases ²	2003 AIDS Cases ¹	Cumulative AIDS Cases ³	Living HIV and AIDS Cases ⁴
	# (%)	# (%)	# (%)	# (%)	# (%)
White, Not Hispanic	27 (64)	348 (74)	44 (58)	1273 (81)	860 (73)
Black, Not Hispanic	7 (17)	83 (18)	20 (26)	194 (12)	210 (18)
Hispanic	7 (17)	32 (7)	11 (14)	86 (5)	92 (8)
Asian/ Pacific Islander	0 --	5 (1)	1 --	9 (1)	12 (1)
American Indian/Alaska Native	0 --	4 (1)	0 --	3 --	5 --
Multiple races	1 --	1 --	0 --	0 --	1 --
Total	42 (100)	473 (100)	76 (100)	1565 (100)	1180 (100)

HIV and AIDS by Exposure Category Adult/Adolescent Cases and Pediatric (<13 yrs) Exposures⁵ Total

Exposure Category	2003 HIV Cases ¹	Cumulative HIV Cases ²	2003 AIDS Cases ¹	Cumulative AIDS Cases ³	Living HIV and AIDS Cases ⁴
	# (%)	# (%)	# (%)	# (%)	# (%)
Adult/Adolescent					
Men who have sex with men	18 (43)	224 (48)	27 (36)	928 (60)	591 (51)
Injecting drug use	1 --	51 (11)	7 (9)	176 (11)	137 (12)
Men who have sex with men and inject drugs	4 (10)	41 (9)	7 (9)	103 (7)	86 (7)
Hemophilia/coagulation disorder	0 --	1 --	0 --	42 (3)	13 (1)
Heterosexual contact	5 (12)	83 (18)	9 (12)	158 (10)	176 (15)
Receipt of blood, components, or tissue	1 --	8 (2)	3 (4)	37 (2)	21 (2)
Risk not reported/other	13 (31)	59 (13)	21 (28)	102 (7)	139 (12)
Total Adult/Adolescent Cases	42 (100)	467 (100)	74 (100)	1546 (100)	1163 (100)
Pediatric – Exposure					
Pediatric hemophilia/coag. dis.	0 --	2 (33)	0 --	6 (32)	5 (29)
Mother with/at risk for HIV inf.	0 --	4 (67)	2 (100)	11 (58)	11 (65)
Pediatric receipt of blood, components or tissue	0 --	0 --	0 --	1 --	1 --
Risk not reported	0 --	0 --	0 --	1 --	0 --
Total Pediatric cases	0 (100)	6 (100)	2 (100)	19 (100)	17 (100)

HIV and AIDS by Exposure Category (continued)
Adult/Adolescent Cases and Pediatric (<13 yrs) Cases

Males

Exposure Category	2003 HIV Cases ¹	Cumulative HIV Cases ²	2003 AIDS Cases ¹	Cumulative AIDS Cases ³	Living HIV and AIDS Cases ⁴
Adult/Adolescent	# (%)	# (%)	# (%)	# (%)	# (%)
Men who have sex with men	18 (58)	224 (63)	27 (54)	928 (69)	591 (63)
Injecting drug use	0 --	22 (6)	4 (8)	140 (10)	92 (10)
Men who have sex with men and inject drugs	4 (13)	41 (12)	7 (14)	103 (8)	86 (9)
Hemophilia/coagulation disorder	0 --	1 --	0 --	41 (3)	13 (1)
Heterosexual contact	1 --	23 (7)	2 --	52 (4)	58 (6)
Receipt of blood, components, or tissue	0 --	4 (1)	1 --	21 (2)	12 (1)
Risk not reported/other	8 (26)	38 (11)	9 (18)	66 (5)	84 (9)
Total Adult/Adolescent Cases	31 (100)	353 (100)	50 (100)	1351 (100)	936 (100)
Pediatric – Exposure					
Pediatric hemophilia/coag. dis.	0 --	2 (40)	0 --	6 (43)	5 (42)
Mother with/at risk for HIV inf.	0 --	3 (60)	0 --	6 (43)	6 (50)
Pediatric receipt of blood, components or tissue	0 --	0 --	0 --	1 --	1 --
Risk not reported	0 --	0 --	0 --	1 --	0 --
Total Pediatric cases	0 (100)	5 (100)	0 (100)	14 (100)	12 (100)

Females

Exposure Category	2003 HIV Cases ¹	Cumulative HIV Cases ²	2003 AIDS Cases ¹	Cumulative AIDS Cases ³	Living HIV and AIDS Cases ⁴
Adult/Adolescent	# (%)	# (%)	# (%)	# (%)	# (%)
Injecting drug use	1 --	29 (25)	3 (13)	36 (18)	45 (20)
Hemophilia/coagulation disorder	0 --	0 (0)	0 --	1 --	0 --
Heterosexual contact	4 (36)	60 (53)	7 (29)	106 (54)	118 (52)
Receipt of blood, components, or tissue	1 --	4 (4)	2 --	16 (8)	9 (4)
Risk not reported/other	5 (45)	21 (18)	12 (50)	36 (18)	55 (24)
Total Adult/Adolescent Cases	11 (100)	114 (100)	24 (100)	195 (100)	227 (100)
Pediatric - Exposure					
Pediatric hemophilia/coag. dis.	0 --	0 --	0 --	0 --	0 --
Mother with/at risk for HIV inf.	0 --	1 (100)	2 (100)	5 (100)	5 (100)
Pediatric receipt of blood, components or tissue	0 --	0 --	0 --	0 --	0 --
Risk not reported	0 --	0 --	0 --	0 --	0 --
Total Pediatric cases	0 (100)	1 (100)	2 (100)	5 (100)	5 (100)

¹ Reported from January 1 – December 31, 2003. Persons that were reported as both HIV and AIDS within that time are counted only as AIDS cases.

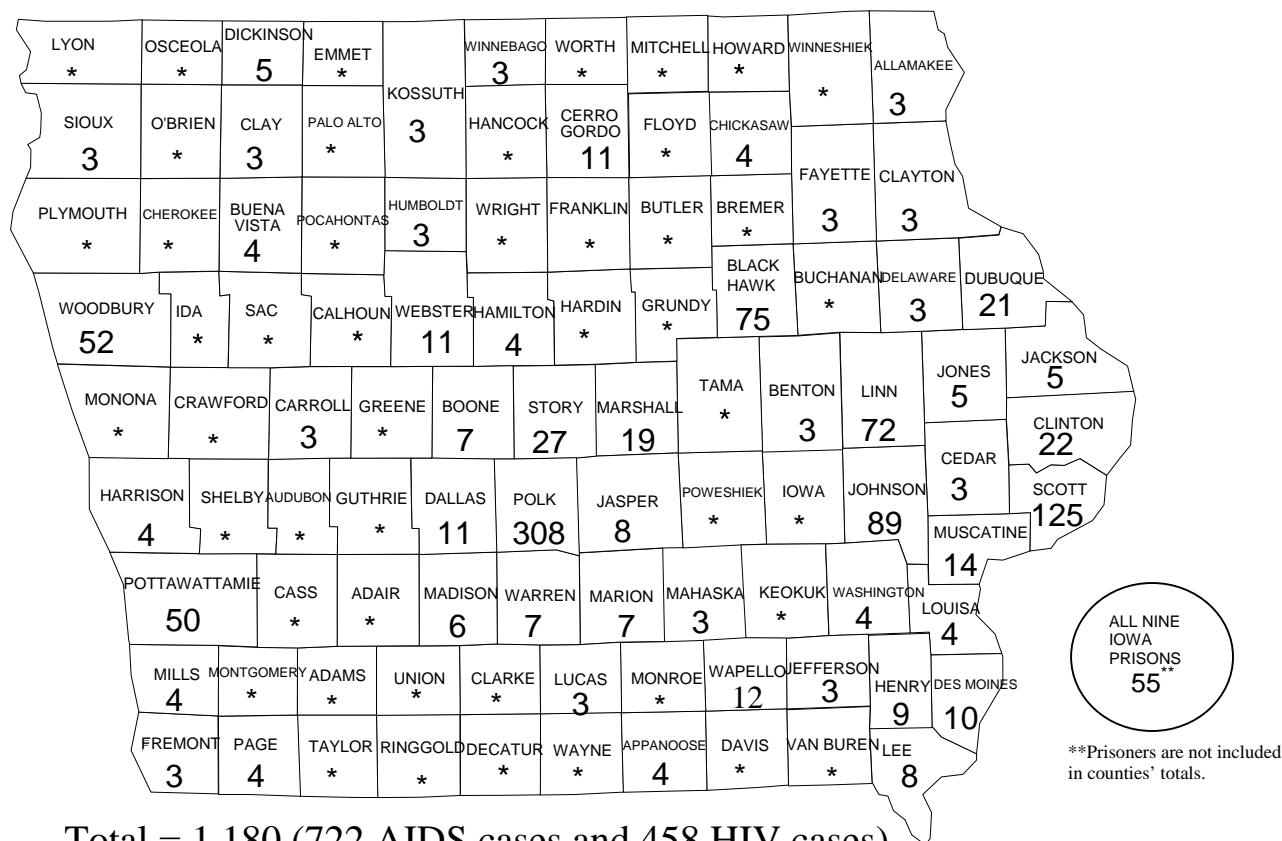
² Reported from July 1, 1998 – December 31, 2003. Includes only persons that were not reported as AIDS as of December 31, 2003.

³ Reported from February 1983 – December 31, 2003.

⁴ On December 31, 2003, based upon cases reported on or before December 31, 2003. All deaths may not have been reported.

⁵ Patients reported as adolescents or adults may have had pediatric exposures. These cases are categorized according to age at time of diagnosis, but are listed under pediatric exposures.

**Persons Living with HIV or AIDS
on December 31, 2003
by County of Residence at Diagnosis of AIDS
or HIV (for non-AIDS cases)**



Total = 1,180 (722 AIDS cases and 458 HIV cases)

* Indicates fewer than 3 persons, including those counties with no cases. These persons are included in the total of 1,150 but are not shown on the map.

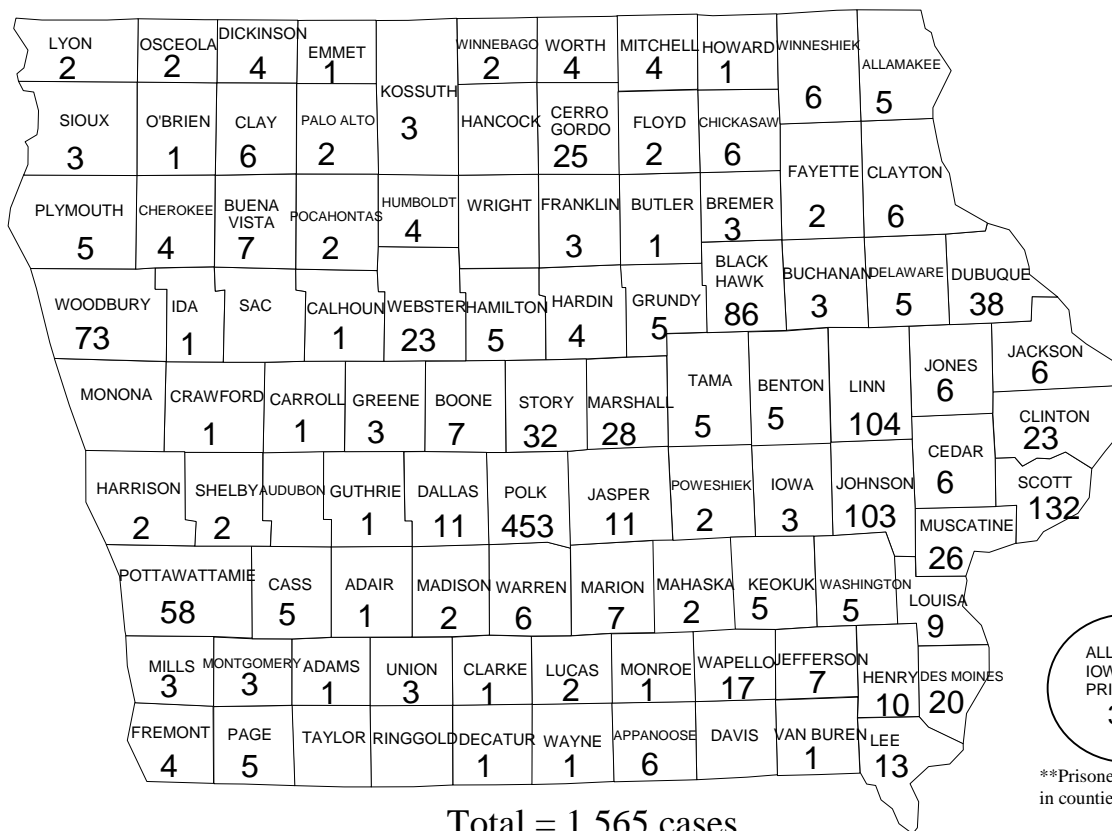
Note: Does not include 325 persons (215 AIDS and 110 HIV cases) who were diagnosed in other states but who subsequently moved to Iowa or another 242 persons (155 AIDS and 87 HIV cases) who have received care in Iowa.

This map shows the number of persons living with HIV or AIDS on December 31, 2003. It indicates where persons resided at the time of diagnosis of AIDS, for AIDS cases, or of diagnosis of HIV infection, for HIV cases. Persons may not be currently living in these counties. All deaths may not have been reported. **Prisoners were diagnosed while being held in the following counties: Johnson (47), Jasper (3), Polk (2), Henry (1), Page (1), and Webster (1), but are not reflected in the data from those counties.**

Iowa AIDS Cases

February 1983 – December 31, 2003

by County of Residence at Time of Diagnosis



Total = 1,565 cases

<u>Year</u>	<u>AIDS Cases Reported</u>	<u>AIDS Deaths</u>	<u>HIV Deaths</u>
1982		1	
1983		1	
1984	2	3	
1985	12	8	
1986	21	16	
1987	29	22	
1988	42	24	
1989	57	41	
1990	69	39	
1991	85	80	
1992	107	72	
1993	189	82	1
1994	121	92	
1995	117	106	1
1996	105	70	1
1997	107	30	
1998	69	15	1
1999	85	25	2
2000	92	30	2
2001	89	31	2
2002	91	30	2
2003*	76	25	3
====	====	====	
Total	1,565	843	15

- Movement between counties or other states, and deaths of persons with AIDS are not reflected in the map.
 - Numbers represent only cases that met the definition of AIDS (HIV positive with an AIDS indicator disease, or HIV positive with CD4+ count of less than 200 or 14% of total lymphocytes) while residing in Iowa.
 - Cases reported include both living and deceased persons.
 - **Prisoners were diagnosed in the following counties: Johnson (22), Lee (4), Jasper (3), Henry (1), Page (1), Polk (1), Webster (1).**
 - Numbers do not reflect persons with HIV infection who have not been diagnosed with AIDS.
 - Year reported does not indicate year of diagnosis.
 - Deaths are not necessarily HIV related. HIV-infected persons who died before receiving a diagnosis of AIDS are indicated under "**HIV Deaths.**"
 - Map and table do not show 662 persons with AIDS who were diagnosed while the individual was residing in another state but who later moved to Iowa (384 persons) or who have received care in Iowa (278 persons) while residing elsewhere.
- * Reported through December 31, 2003.