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AIDS Knowledge and Attitudes for September 1988

Provisional Data From the National Health Interview Survey

Joseph E. Fitti, MSPH, Division of Health Interview Statistics

Introduction

The National Center for Health Statistics has included a special set of supplemental questions on the adult population's knowledge and attitudes about acquired immunodeficiency syndrome (AIDS) in the National Health Interview Survey (NHIS). The first AIDS Knowledge and Attitudes Survey was in the field from August through December 1987. Provisional results of that survey were published on a monthly basis in Advance Data for Vital and Health Statistics (Nos. 146, 148, 150, 151, and 153). During the first four months of 1988, the NHIS AIDS questionnaire was revised to meet current program needs for information about AIDS awareness. The revised AIDS Knowledge and Awareness Survey entered the field in May 1988. Provisional findings for May and June, the first two months of data collection with the new questionnaire, for July, and for August were published in Advance Data for Vital and Health Statistics, Nos. 160, 161, and 163, respectively. This report presents provisional results for September 1988.

The Advance Data reports describing the NHIS AIDS data have been restricted to simple descriptive statistics to facilitate their timely release. Thus, these reports do not attempt to explain or interpret differences among population subgroups in AIDS knowledge or to examine relationships among various measures of knowledge, attitudes, and perceived risk. The 1987 and 1988 NHIS AIDS data bases will permit more complex analyses than those presented in this series of Advance Data reports, and such analyses are being undertaken by various groups in the Public Health Service.

The AIDS questionnaires were designed to provide estimates of public knowledge and attitudes about AIDS transmission and prevention of AIDS virus infection. The

data were needed as input for the planning and development of AIDS educational campaigns and for monitoring major educational efforts, e.g., the series of radio and television public service announcements entitled "America Responds to AIDS" and the brochure "Understanding AIDS," both developed by the Centers for Disease Control.

The 1987 and 1988 AIDS questionnaires were developed by the National Center for Health Statistics and interagency working groups established by the Information, Education and Risk Factor Reduction Subcommittee of the Public Health Service Executive Task Force on AIDS. The working groups included representatives from the Centers for Disease Control; the National Institutes of Health; the Alcohol, Drug Abuse and Mental Health Administration; and the Health Resources and Services Administration.

The current AIDS questionnaire includes items on sources of AIDS information; self-assessed level of AIDS knowledge; basic facts about the AIDS virus and how it is transmitted; blood donation experience; awareness of and experience with the blood test for the AIDS virus; perceived effectiveness of selected preventive measures; self-assessed chances of getting the AIDS virus; personal acquaintance with persons with AIDS or the AIDS virus; and willingness to take part in a proposed national seroprevalence survey. A general risk behavior question, similar to that asked by the Red Cross of potential blood donors, is included in the 1988 AIDS questionnaire.

This report presents provisional data for September 1988 for most items included in the AIDS questionnaire. Table 1 displays percent distributions of persons 18 years of age and over by response categories according to age, sex, race, and education. In most cases, the actual questions asked of the respondents are reproduced verbatim in table 1, along with the coded response categories. In a few cases, questions or response categories have been rephrased or

combined for clearer or more concise presentation of results. Refusals and other nonresponse categories are excluded from the denominator in the calculation of estimates, but responses of "don't know" are included.

This report contains few comparisons with data from the 1987 NHIS AIDS survey, and those comparisons that are included must be interpreted with caution. The wording of some questions was changed slightly, and the context in which the questions are asked was modified by the addition of a number of new questions. Differences observed between 1987 and 1988 results may reflect these questionnaire changes as well as actual changes in AIDS knowledge and attitudes.

Selected findings

The following highlights describe various aspects of AIDS knowledge and attitudes as observed in the September 1988 data fron the NHIS AIDS survey. Based on the measures included in this survey, AIDS knowledge was maintained in September at about the same level as in August 1988. Those differences cited in the text are statistically significant unless otherwise noted (see table II for approximate standard errors of estimates).

Sources of AIDS information—In September 1988, 83 percent of all adults in the United States reported having seen public service announcements about AIDS on television; 43 percent stated that they had heard AIDS public service announcements on the radio. The proportion of persons who reported having seen or heard such announcements was higher for persons 18–49 years of age than for those 50 years and over and was higher for persons with 12 or more years of school than for those with less than 12 years of school. Twenty percent of all adults stated that the announcements they heard on television and the radio were part of the "America Responds to AIDS" series.

Thirty-four percent of U.S. adults reportedly read brochures or pamphlets about AIDS in the month preceding the September NHIS interview, compared to 42 percent in August. However, 66 percent (67 percent in August) of all adults reported that they had ever read any brochures or pamphlets about AIDS. Of those who reported in September that they had ever read brochures or pamphlets about AIDS, 41 percent said they had received the pamphlets or brochures in the mail without asking, which may reflect some carry-over of awareness of mailed brochures from the Centers' for Disease Control June 1988 mailing of the brochure "Understanding AIDS" to all household in the United States.

Self-assessed knowledge—As of September 1988, 22 percent of adults stated that they knew a lot about AIDS, 43 percent said they knew some, 26 percent felt they knew a little, and 8 percent claimed they knew nothing about AIDS.

General knowledge—General knowledge about AIDS and the AIDS virus showed little change betwen August and September 1988. The great majority of adults thought it was definitely true that AIDS leads to death (86 percent), and that there is no cure for AIDS at present (86 percent),

and that the AIDS virus can be transmitted by means of sexual intercourse (83 percent) and from mother to infant (80 percent). Three-fourths of the adults thought it was definitely false that an AIDS vaccine is available to the public.

As shown in table 1, there were large differences by education in the proportions of adults responding correctly to these general knowledge questions, with the more highly educated individuals the more likely to provide correct answers. Adults 30–49 years of age responded more accurately, on the average, than individuals who were either younger or older, and white adults more often answered correctly than did black adults. There was no consistent difference by gender in general AIDS information level.

Transmission of the AIDS virus—Although the 1987 AIDS survey revealed widespread misinformation about the risk of AIDS virus transmission through casual contact, accurate knowledge in this area increased continuously between August and December 1987. This aspect of AIDS knowledge also improved between May and August 1988, but did not show any change between August and September 1988.

Blood donation and testing—Based on September 1988 data, 42 percent of all adults in the United States have donated blood at some time in their lives, and 14 percent have donated blood since 1985 when automatic testing of blood donations for the AIDS virus began. Seven percent of adults reported having donated blood in the 12 months before the interview. Younger adults were most likely to have donated blood recently. The proportion of adults who had donated blood since 1985 increased with education, from 5 percent of persons with less than 12 years of school to 20 percent of those with more than 12 years.

Seventy-seven percent of adults have heard of the blood test for the AIDS virus infection. Eighty-three percent of individuals 18–49 years of age had heard of the test, compared to 64 percent of those 50 years and over. Awareness of the AIDS blood test was greater among white than black adults (79 compared to 69 percent) and increased with education, from 57 percent of those with less than 12 years of school to 78 and 88 percent, respectively, of those with 12 years and more than 12 years of school. Two-thirds (68 percent) of adults correctly believe that blood donations are now routinely tested for the AIDS virus.

Only 4 percent of all U.S. adults reported having received counseling about the AIDS virus test. Altogether, 17 percent of adults have had their blood tested for the AIDS virus infection. This figure includes 8 percent who reported having had the test, about the same as August 1988, and 9 percent who denied or were unaware of having had the test but reported having donated blood since 1985, which had been subjected to routine testing for the AIDS virus. Persons age 18–29 years and 30–49 years were more than twice as likely as those age 50 years and over to have had the AIDS blood test (26 and 21 percent, respectively, compared to 7 percent), and men were more likely than women to have done so (21 percent versus 14 percent). The proportion of adults whose blood had been tested increased with education, from 8 percent of those with less than 12

years of school to 24 percent of those with more than 12 years.

Seventy-four percent of all persons who reported having had their blood tested for the AIDS virus infection one or more times stated that at least one of the tests was done as routine part of blood donation, 14 percent (3 percent of the total adult population) reported having taken a test voluntarily, and 13 percent took a test as part of some other activity that included routine blood testing (e.g., military induction, immigration).

Just over half (55 percent) of the individuals who reported having had their blood tested for the AIDS virus infection reported having received the results of the test. This proportion was greater for persons with less than 12 years of school than for those with 12 or more years (75 compared to 52 percent).

Seven percent of all adults reported plans to have their blood tested for the AIDS virus infection in the next 12 months. This proportion decreased with age, from 11 percent of persons 18-29 years to 3 percent of those age 50 years and over.

Six percent of all adults in the United States received blood transfusions between 1977 when the AIDS virus is believed to have entered the United States and 1985 when routine testing of blood donations for the AIDS virus infection was initiated. As of September 1988, 43 percent of adults stated that the blood supply is now safe for transfusions; 30 percent did not believe the blood supply is safe; and 27 percent were uncertain. The proportion of adults trusting the safety of the blood supply increased with education, was higher for men than women, was higher for white than black individuals, and was higher for persons 18–49 years of age than for those 50 years and over.

Preventive measures—Thirty percent of adults thought that condoms were very effective in preventing transmission of the AIDS virus, and 53 percent thought that this method is somewhat effective. Eighty-three percent realized that having a monogamous relationship with a person who does

not have AIDS is a very effective way to prevent getting the virus. Over half of all adults (56 percent) realized that the diaphram, spermicidal jellies and creams, and vasectomy are not effective in preventing AIDS virus transmission, with most of the remainder uncertain about the effectiveness of these methods.

Risk of getting the AIDS virus—Two percent of all adults stated that they belonged to one or more of the behavior groups associated with increased risk of AIDS virus transmission, i.e., hemopheliacs, intravenous drug users, homosexuals, etc. This proportion decreased with age, from 4 percent of adults 18–29 to 1 percent of adults age 50 years or over.

As of September 1988, 82 percent of U.S. adults believed there is no chance that they have the AIDS virus. Thirteen percent reported a low chance, 2 percent a medium chance, and less than 1 percent a high chance. Americans assess their chances of getting the AIDS virus as minimal also. Seventy-five percent reported no chance of getting the virus; 18 percent preceived themselves at low risk, 2 percent at medium risk, and less than 1 percent at high risk. Adults age 50 years and over were least likely to perceive some risk of getting the AIDS virus, and women were slightly less likely than men to feel at risk.

About two-thirds (63 percent) of adults have talked to friends or relatives about AIDS, a proportion that varied with eductation, from 43 percent of those persons with less than 12 years of school to 76 percent of those with more than 12 years.

One-tenth (11 percent) of the adults in the United States reported knowing or having known someone with AIDS or the AIDS virus. This proportion was higher for adults 18-49 years than for those age 50 years and over and more than twice as high for persons with more than 12 years of school as for those with less education. Most of the individuals who had known someone with AIDS or the AIDS virus stated that more than 6 months had passed since they had seen that person.

4 advancedata

Table 1. Provisional estimates of the percent of persons 18 years of age and over with selected AIDS knowledge and attitudes from the 1988 National Health Interview Survey, by selected characteristics: United States, September 1988

				Age			Sex	Ra	ce		Education	?
	AIDS knowledge or attitude	Total	18–29 years		50 years and over	Male	Female	White	Black	Less than 12 years	12 years	More than 12 years
						P	ercent di	stributio	n ¹			
Tota	1	100	100	100	100	100	100	100	100	100	100	100
1.	in the past month, have you—											
1a.	Seen any public service announcements about AIDS on											
	television?	83	84	85	80	81	84	83	84	74	87	84
	No	16	15	14	17	17	14	15	14	23	12	15
	Don't know	2	1	1	3	2	2	2	2	3	1	2
ib.	Heard any public service announcements about AIDS on											
	the radio?	43	51	48	33	48	39	43	50	36	44	47
	Yes	52	46	47	63	48	56	53	46	59	52	48
	Don't know	4	3	5	5	4	5	5	4	5	4	5
2.	Were any of those public service announcements called											
	"America Responds to AIDS"?				40	40	•			46		
	Yes No	20 11	27 14	22 10	13 10	19 11	21 11	19 11	28 14	19 11	22 10	19 12
	Don't know	54	48	55	59	54	55	56	45	47	57	56
	Neither heard nor saw any public service announcements	14	12	13	18	16	13	14	13	23	11	13
3.	in the past month, have you read any brochures or pamphlets											
	about AIDS?											
	Yes No	34 65	36 64	38 62	30 69	32 67	36 63	34 65	37 62	23 77	34 65	41 58
	Don't know	1	0	1	1	1	1	1	1	,,	1	1
4.	Have you ever read any brochures or pamphlets about AIDS?										•	•
	Yes	66	69	73	57	62	70	67	62	46	66	78
	No	33	31	27	43	37	30	33	36	53	34	22
_	Don't know	1	1	0	1	0	1	0	1	1	1	0
5.	Where did you get the pamphlets or brochures? ^{1,2} Clinic, other than work clinic	2	4	2	1	2	3	2	6	4	2	2
	Doctor's office (HMO)	11	16	10	10	10	13	11	13	14	13	10
	Drug store	1	1	1	Ö	1	1	1	3	1	1	1
	Public health department	2	2	2	1	1	2	1	6	3	1	2
	Received in mall without asking	41 2	33 2	41 1	47 1	38 2	43 2	42 2	32 1	44 1	42 2	39 2
	Other blood donation	1	Õ	1	ò	1	Õ	1		i	1	1
	School	8	15	7	2	7	8	8	7	4	7	10
	Sent/phoned for/requested it	1	1	1	_1	0	1	1	2	0	1	1
	Federal/State/local government	28 11	21 10	29 15	33 8	30 14	27 9	29 11	20 16	24 4	26 11	31 14
	Work, nurse or clinic	4	5	4	3	2	5	4	5	3	4	4
	Other	12	14	12	9	14	10	11	17	10	11	13
	Don't know	1	0	1	3	1	1	1	1	2	1	1
15.	Have you ever discussed AIDS with any of your children aged 10-17? ³											
	Yes	61	33	64	55	51	70	63	53	45	61	70
	No	39	67	36	44	49	30	37	47	55	39	30
	Don't know	0	-	_	1	0	-	-	-	0	-	_
16.	Have any or all of your children aged 10-17 had instruction at											
	school about AIDS? ³ Yes	55	46	55	58	54	56	54	59	51	53	61
	No	16	30	16	12	11	20	17	12	16	18	14
	Don't know	29	24	29	30	35	24	29	28	32	29	26
21.	How much would you say you know about AIDS?											
	A lot	22	19	29	17	21	24	23	19	10	18	33
	Some	43	51	46	34	42	44	45	37	28	48	47
	A little	26 8	26 4	22 4	32 16	28 9	25 8	25 7	30 13	37 24	28 6	18 1
	Don't know	ŏ	_	_	Ö	ŏ	ŏ	ó	1	0	ŏ	<u>.</u>
22.	To the best of your knowledge, is there a difference between											
	having the AIDS virus and having the disease AIDS?	0.5		=-						4.5		
	Yes No	65 15	65 20	72 15	57 11	65 16	66 15	67 14	57 19	40 17	65 17	80 12
	Other	0	0	0	'0	0	0	0	19	0	17	12 0
	Don't know	19	14	12	32	19	20	18	24	43	18	8
23a	AIDS can reduce the body's natural protection against disease.										-	-
	Definitely true	75	77	83	64	76	74	77	63	51	76	87
	Probably true	11	12 2	8	14	11	11	11	13	15	13	7
	Probably false	2	2	2	2	2	2	1	3	3	2	1
	Definitely false	3	4	2	4	3	3	3	5	5	3	2

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			Age			ex	Re	ce	Education		1
AIDS knowledge or attitude	Total	18-29 years		50 years and over	Male	Female	White	Black	Less than 12 years	12 years	More than 12 years
23b. AIDS is especially common in older people.					Pe	ercent di	stributio	n ¹			
Definitely true Probably true Probably false Definitely false Don't know	1 1 19 72 8	1 2 21 71 6	1 1 16 77 5	1 1 20 66 12	1 2 20 70 8	1 1 18 73 8	0 1 19 73 7	2 4 14 67 13	1 2 19 60 18	1 1 19 74 6	0 1 18 77 4
23c. AIDS can damage the brain. Definitely true	27 29 9 8 27	22 30 11 10 27	29 28 10 10 23	29 31 6 3 31	27 29 10 7 26	27 30 8 8 28	26 30 9 8 27	33 30 7 5 25	26 28 5 5	27 28 8 9 28	27 31 12 8 21
Don't know	8 21 18 16 36	5 21 20 20 32	8 20 21 19 32	9 22 14 10 45	8 20 20 17 34	8 22 17 15 38	7 21 19 17 36	12 24 13 10 41	10 21 10 10 49	8 21 16 17 38	7 21 26 20 27
23e. AIDS is an infectious disease caused by a virus. Definitely true	62 19 2 4 12	66 20 3 3 8	71 16 1 4 7	49 22 3 5 22	63 19 2 4 12	61 20 3 4 13	62 19 2 4 12	61 19 2 5 14	46 20 2 5 27	62 20 3 4 10	71 18 2 3 7
23f. Teenagers cannot get AIDS. Definitely true	1 0 3 93 3	1 0 2 96 1	1 0 2 96 1	1 0 6 87 6	1 0 4 92 3	1 0 3 93 3	1 0 3 94 2	1 1 5 89 4	2 1 6 83 8	0 0 3 94 2	1 0 2 97 1
23g. AIDS leads to death. Definitely true Probably frue. Probably false Definitely false Don't know	86 10 1 1	87 10 1 1	88 8 1 1	83 11 0 0 5	86 10 1 0 3	87 9 1 1 2	86 10 1 1 2	89 7 1 0 3	84 9 0 0 6	89 8 0 1 2	85 12 1 1
23h. A person can be infected with the AIDS virus and not have the disease AIDS. Definitely true Probably true. Probably false Definitely false Don't know.	58 20 4 4	59 21 5 6	68 16 3 4 9	47 22 4 3 24	57 20 4 4 15	59 19 3 4 14	59 20 4 4 14	52 18 4 8 18	40 21 4 5 31	59 20 4 5 13	68 19 3 4 7
23l. Looking at a person is enough to tell if he or she has the AIDS virus. Definitely true	2 4 16 69 10	1 3 15 76 5	2 3 14 76 5	2 4 19 57 18	1 3 16 69 10	2 4 16 69 9	1 4 16 70 8	3 2 16 67 13	3 6 19 51 22	2 4 17 70 8	1 2 13 79 5
23]. Any person with the AIDS virus can pass it on to someone else during sexual intercourse. Definitely true. Probably true. Probably false. Definitely false.	83 12 1 1	86 10 1 1	85 11 1 1 3	78 14 1 0 7	80 14 1 1	85 10 1 1	83 12 1 1	83 10 1 0 5	77 13 0 0	84 11 1 1 3	84 11 1 1 2
Don't know	48 29 6 5	54 29 5 5	57 26 5 5	35 32 9 6 19	49 29 5 5	48 28 7 6	49 29 6 5	46 25 5 8	29 30 9 6 26	47 30 7 7	61 27 4 3 6
23I. A pregnant woman who has the AIDS virus can give the AIDS virus to her baby. Definitely true Probably false Definitely false Don't know	80 15 0 0 5	84 13 0 1	83 13 0 - 4	73 18 0 0	77 17 0 0 6	83 13 0 0 4	80 15 0 0	81 13 0 6	73 16 0 0	81 14 0 0	82 14 0 0 3

Table 1. Provisional estimates of the percent of persons 18 years of age and over with selected AIDS knowledge and attitudes from the 1988 National Health Interview Survey, by selected characteristics: United States, September 1988—Con.

	-,		Age			Sex	Re	CO		Education	,
AIDS knowledge or attitude	Total	18–29 years	30–49 years	50 years and over	Male	Female	White	Black	Less than 12 years	12 years	More than 12 years
23m.There is a vaccine available to the public that protects a person					P	ercent di	stributio	n ¹			
from getting the AIDS virus. Definitely true Probably true. Probably false Definitely false Don't know.		2 3 11 76 9	1 1 8 82 8	1 2 10 66 20	1 2 10 75 11	1 2 8 75 13	1 2 9 78 11	3 4 12 61 20	3 4 9 57 27	1 2 10 77 10	1 1 8 84 6
23n. There is no cure for AIDS at present. Definitely true Probably true. Probably false Definitely false. Don't know.	7 1 2	87 6 2 2 3	89 6 1 2 3	82 8 1 2 7	86 7 1 2 4	86 7 1 2 4	88 7 1 2 3	81 5 1 3 9	78 9 1 2	87 6 1 2 3	90 5 0 2 2
 How likely do you think it is that a person will get AIDS or the AIDS virus infection from— 											
24a. Living near a hospital or home for AIDS patients? Very likely. Somewhat likely. Somewhat unlikely Very unlikely. Definitely not possible Don't know.	40	2 5 7 42 39 4	1 3 5 40 44 6	1 3 7 39 36 13	2 5 7 43 36 8	1 3 6 37 44 8	1 4 6 41 42 7	4 5 9 38 32 12	3 4 7 35 30 20	2 5 7 41 39 6	1 3 6 42 46 3
24b. Working near someone with the AIDS virus? Very likely. Somewhat likely. Somewhat unlikely Very unlikely. Definitely not possible Don't know.		2 12 14 42 28 3	3 11 11 41 29 5	3 10 13 36 25	3 11 12 41 26 7	3 11 12 38 29 8	2 10 12 40 28 7	4 14 13 36 22 10	6 12 11 33 20 18	2 12 13 38 28 6	1 10 12 44 31 2
24c. Eating in a restaurant where the cook has the AIDS virus? Very likely. Somewhat likely. Somewhat unlikely Very unlikely. Definitely not possible Don't know.	15	6 22 15 31 19	7 19 15 30 19	9 18 14 27 12 21	8 21 14 30 14	7 18 15 28 19	7 19 15 30 17	9 24 11 23 16	10 19 12 23 12 23	8 20 15 28 16	5 19 15 33 20 7
24d. Kissing—with exchange of saliva—a person who has the AIDS virus? Very likely. Somewhat likely. Somewhat unlikely Very unlikely Definitely not possible Don't know		19 33 15 17 9	25 26 15 17 8	29 29 10 11 5	25 30 13 16 6	26 28 13 14 8	24 29 14 16 7	28 28 11 11 8	30 26 8 10 5	26 29 12 14 9	22 30 17 19 7
24e. Shaking hands, touching, or kissing on the cheek someone who has the AIDS virus? Very likely. Somewhat likely. Somewhat unlikely Very unlikely. Definitely not possible Don't know.	2 7 13 39	2 7 13 40 34 3	2 6 13 38 37 5	2 7 13 39 26 12	2 8 14 41 28 7	2 5 12 37 36 7	2 6 13 39 34 6	4 11 13 36 26	4 8 11 36 24 18	3 7 15 37 32 6	1 5 12 43 38 2
24f. Sharing plates, forks, or glasses with someone who has the AIDS virus? Very likely. Somewhat likely. Somewhat unlikely Very unlikely. Definitely not possible Don't know.	10 20 13 28 17	8 19 13 31 21	10 21 13 29 19 8	11 21 12 25 12 18	8 21 14 30 15	12 20 12 26 19	9 20 14 29 17	13 21 11 26 17	12 21 9 24 12 22	12 22 13 26 17	6 18 15 34 20 7
24g. Using public tollets? Very likely. Somewhat likely. Somewhat unlikely. Very unlikely Definitely not possible Don't know.	6 12 12 35 24 12	5 12 13 34 27 10	6 11 12 37 26 8	7 12 11 33 19 18	5 11 13 37 22 11	6 12 11 33 25 13	5 11 12 36 25 11	8 15 11 30 20	11 16 9 25 15	6 12 13 35 22	2 9 12 41 29 6

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			Aдв			Sex	Re	IC8	Education		
AIDS knowledge or attitude	Total			50 years and over	Male	Female	White	Black	Less than 12 years	12 years	More than 12 years
24h. Sharing needles for drug use with someone who has the AIDS virus?					P	ercent di	stributic	n¹			
Very likely	94	98	96	90	94	94	95	92	86	96	97
Somewhat likely	2	1	2	3	3	2	2	3	5	2	1
Somewhat unlikely	0	0	0	-	0	0	0	0	0	0	0
Very unlikely	1	1	1	0	0	1	0	0	0	1	0
Definitely not possible	0 2	1	0 1	0 5	0 2	0 3	0 2	4	0 8	0 1	0
24i. Being coughed or sneezed on by someone who has the	_	•	•		_	J	_	•	•	•	U
AIDS virus?											
Very likely	8	5	7	11	7	9	8	11	14	9	5
Somewhat likely	21	21	19	22	21	20	20	24	20	23	18
Somewhat unlikely	17	20 30	16 32	17 22	17 30	17	18	14	14	17	19
Very unlikely	28 14	16	16	10	12	27 15	29 14	24 12	20 9	26 14	35 16
Don't know	12	8	10	19	12	13	12	14	24	11	7
24j. Attending school with a child who has the AIDS virus?		•						• •		•••	•
Very likely	2	1	2	3	2	2	2	4	4	2	1
Somewhat likely	6	6	6	7	6	6	6	9	7	7	5
Somewhat unlikely	11	12	11	12	12	11	11	12	9	13	11
Very unlikely	41	42	41	40	43	39	41	39	36	40	44
Definitely not possible	31	35	34	25	28	34	32	25	22	31	37
Don't know	9	4	6	15	9	9	8	10	21	7	4
24k. Mosquitoes or other insects? Very likely	8	10	8	8	10	7	7	13	14	8	5
Somewhat likely	16	20	15	15	17	16	16	18	18	18	13
Somewhat unlikely	9	10	8	8	8	9	9	9	6	9	9
Very unlikely	24	23	28	22	25	24	26	19	19	24	29
Definitely not possible	19	18	22	18	18	21	20	15	12	19	24
Don't know	23	19	19	30	22	24	22	26	32	21	19
25. Have you ever donated blood?											
Yes	42	34	43	45	53	31	43	34	33	38	50
No	58 0	65 1	57 0	55 0	47 0	68 0	57 0	66	67	61	50
Don't know	U	•	U	U	U	U	U	0	0	1	0
Yes	14	21	17	6	18	11	15	9	5	13	20
No	85	78	83	94	82	89	85	90	95	86	79
Don't know	1	1	1	0	1	0	1	0	0	1	0
26b. Have you donated blood in the past 12 months?											
Yes	7	9	8	3	8	5	7	2	2	6	10
No	93	90	91	97	91	94	92	98	98	93	90
Don't know	1	1	1	0	1	0	1	0	0	1	0
virus infection?											
Yes	77	83	85	64	77	77	79	69	57	78 ·	88
No	19	15	13	29	18	19	17	28	36	18	9
Don't know	4	2	3	8	4	4	4	4	7	4	3
28. To the best of your knowledge, are blood donations routinely											
tested now for the AIDS virus infection?											
Yes,	68	73	76	53	68	67	70	56	47	68	79
No	3	4	3	3	3	4	3	3	2	3	4
Don't know	6 23	6 17	5 15	8 36	6 23	6 23	6 21	9 31	8 43	6 22	5 12
29a. Have you ever received counseling or had a talk with a health	20	17	15	30	20	20	21	31	40	22	12
professional about taking the AIDS virus test?											
Yes	4	5	5	1	4	4	4	4	2	3	5
No	73	78	80	63	74	73	75	64	5 5	74	83
	0	Ō	0	0	0	0	0	-	Ō	Ö	Ō
Don't know Never heard of test ⁴ 29b. Was the discussion— ^{1,5}	23	17	15	36	23	23	21	31	43	22	12
29b. Was the discussion— ^{1,5}											
With a private doctor?	49	46	52	43	39	58	51	38	53	38	55
At a family-planning clinic?	8	13	5	9	8	8	7	20	11	10	6
On an AIDS hotline?	4	3	3	9	6	2	3	5	=	1	6
At a prenatal clinic?	4	7	1	9 9	2 5	6	2	17	7	2	5 3
At an STD or sexually transmitted disease clinic?	4 7	3 1	3 10	9 14	5 9	2 5	1 6	15 17	1 15	5 -	3 10
At an AIDS/HIV counseling and testing site?	39	40	35	62	46	33	37	50	35	44	37
With some other counselor?	11	11	12	4	12	10	11	11	11	14	8
30. During that discussion, did you receive information about how	"	••	12	7		.0	• •	• •	••	• •	•
to avoid getting or passing on the AIDS virus? ⁵											
Yes	63	74	55	57	66	59	57	99	66	66	59
No	37	26	45	43	34	41	43	1	34	34	41
Don't know	-	-	_	-	-		-	-	-	-	-

Table 1. Provisional estimates of the percent of persons 18 years of age and over with selected AIDS knowledge and attitudes from the 1988 National Health Interview Survey, by selected characteristics: United States, September 1988—Con.

				Age	·	8	Sex	Ra	сө		Education	
	AIDS knowledge or attitude	Total	18–29 years		50 years and over	Male	Female	White	Black	Less than 12 years	12 years	More than 12 years
31.	Have you ever been advised by a health professional not to	•				_						
	have the blood test for the AIDS virus infection?					P	ercent di	stributio	n'			
	Yes	1	0	1	0	0	1	1	0	0	0	1
	No	76	82	84	64	77	76	78	68	57	77	87
	Don't know	0 23	0 17	0 15	0 36	0 23	0 23	0 21	0 31	0 43	0 22	0 12
20		23	17	15	30	20	23	21	31	43	22	12
32.	Have you ever been advised by friends or relatives not to have the blood test for the AIDS virus infection?	_						_		_		
	Yes	1 76	1 82	1 84	0 64	1 76	0	0	1	0	1	1
	Don't know	0	-	04	0	0	76 0	78 0	68 0	57 	77 0	87 0
	Never heard of test ⁴	23	17	15	36	23	23	21	31	43	22	12
33.	Have you had your blood tested for the AIDS virus infection?											
	Yes ⁶	17	26	21	7	21	14	18	14	8	16	24
	No	59	58	64	56	56	62	60	55	48	62	63
	Don't know	1	1	2	2	1	2	1	2	2	1	2
	Never heard of test ⁴	22	15	14	35	21	22	20	29	42	21	11
35a.	How many times have you had your blood tested for the AIDS virus infection? ⁷											
	Once	5	7	5	2	5	4	5	5	4	5	5
	Twice	1	2	2	0	2	1	2	0	1	1	2
	3–5 times	1	1	1	1	1	0	1	0	0	1	2
	6–12 times	0	0	0	0	0	0	0	0	0	0	0
	More than 12 times	0	0	0	-	0	0	0	_	0	0	0
	Don't know ⁸	10	14	12	4	12	8	10	8	3	9	14
35b.	How many times in the past 12 months have you had your blood tested for the AIDS virus infection? ⁷	83	74	80	93	79	86	82	86	92	84	76
	None in the past 12 months	2	3	2	1	3	1	2	1	2	1	3
	Once	4	7	5	ż	5	4	5	4	3	4	6
	More than once	i	2	1	1	1	i	1	ŏ	Ö	1	2
	Don't know ⁶	10	14	12	4	12	8	10	8	3	9	14
	Don't know ⁸	83	74	80	93	79	86	82	86	92	84	76
36.	Was the test/were any of the tests, including those you had											
	before the past 12 months— ¹											
	Part of a blood donation? ^{6,7} Part of a blood transfusion? ⁹	74	74	76	72	75	73	76	59	52	74	79
	Part of a blood transfusion?"	1	1	1_	4	1	1	2	0	2	2	1
	Voluntarily sought? ⁹	14	15	15	10	12	17	13	24	23	11	14
38.	Part of some other activity that requires a blood sample? Did you get the results of your test/any of your tests?	13	16	11	13	15	11	13	20	22	15	11
	Yes	55	58	55	47	54	56	54	56	75	51	52
	No	44	40	45	51	46	42	44	44	25	47	47
4.4	Don't know	1	2	0	2	0	2	1		-	2	1
+ 1.	in the next 12 months?	_										
	Yes	7	11	8	3	8	6	7	8	5	7	8
	No	66 4	67 5	73 4	58 3	65	67	68	54	48	67	76
	Don't know	23	17	4 15	36	5 23	4	4	6	4	3	5
42.	Will the test be— ^{1,10}	20	"	,,,	00	20	23	21	31	43	22	12
	Part of a blood donation?	43	41	45	44	45	41	48	18	29	38	53
	Voluntarily sought?	51	58	48	39	44	58	46	73	60	56	41
	Part of some other activity that requires a blood sample?	16	19	11	25	20	12	16	19	16	19	14
14a.	Did you have a blood tranfusion at any time between 1977 and 1985?									,,	.0	
	Yes	6	4	5	8	5	7	6	7	8	5	
	No	93	95	94	90	93	92	93	92	91	93	6 93
	Don't know	1	1	1	2	1	1	1	2	1	2	1
14b	Do you think the present supply of blood is safe for transusions?	•	•	•	_	•	•	•	-	•	-	•
	Yes	43	49	45	37	46	41	45	34	30	44	50
	No	30	31	30	29	28	32	29	36	35	31	26
	Other	0	_	0	-	0	-	0	_	-		Õ
	Don't know	27	20	25	34	26	27	26	31	35	25	24
15.	Here are some methods people use to prevent getting the AIDS virus through sexual activity. How effective is—		- -	-	- *		_,					
452	Using a diaphragm?											
·Ju	Very effective	3	3	2	3	3	2	2	5	3	2	
	Somewhat effective	11	13	9	11	12	10	11	5 11	9	3 12	2
	Not at all effective	58	61	67	46	56	60	60	49	9 40	57	11 69
	Don't know how effective		17	16	29	20	21	20	25	32	21	15
	Don't know method	8	6	6	11	9	6	6	11	16	7	4
		-	-	-	••	-	-	•	• •	.0	•	7

Table 1. Provisional estimates of the percent of persons 18 years of age and over with selected AIDS knowledge and attitudes from the 1988 National Health Interview Survey, by selected characteristics: United States, September 1988—Con.

				Age			Sex	Ra	се		Education	7
	AIDS knowledge or allillude	Total	18–29 years	30–49 years	50 years and over	Male	Female	White	Black	Less than 12 years	12 years	More than 12 years
45	o. Using a condom?					F	ercent di	stributio	ก¹			
450	Very effective. Somewhat effective. Not at all effective. Don't know how effective. Don't know method. Using a spermicidal jetly, foam, or cream?	30 53 5 9 3	35 53 5 5 1	33 55 5 5 2	22 52 5 16 5	31 53 4 9 3	29 53 6 9 2	30 55 4 8 2	29 46 9 13 3	25 41 8 19 6	28 57 5 8 2	35 56 4 4 1
	Very effective. Somewhat effective. Not at all effective. Don't know how effective. Don't know method.	1 14 56 22 7	2 15 60 18 5	2 15 63 17 4	1 11 44 32 12	1 15 52 23 8	1 12 59 22 6	1 14 57 22 6	2 13 51 24 10	1 8 43 31 16	2 13 55 24 5	1 17 64 15 3
450	I. Having a vasectomy? Very effective. Somewhat effective. Not at all effective Don't know how effective Don't know method.	1 2 71 17 8	2 4 71 17 7	2 2 80 11 5	1 2 61 24 12	2 3 70 17 9	1 2 72 17 7	1 2 74 17 7	2 4 59 22 14	1 2 50 27 19	2 3 71 18 6	1 2 83 10 4
45€	n. Two people who do not have the AIDS virus having sex only with each other? Very effective	83 8 2 5	83 9 4 3	87 7 2 3	79 8 1 8	83 7 2 5	83 8 2 4	85 7 2 4	72 11 4 8	70 11 4 11 5	84 8 3 4	91 6 1 2
46.	What are your chances of having the AIDS virus? High	1 2 13 82 3	1 2 17 78 2	1 2 15 80 2	0 1 8 87 4	1 2 15 79 3	0 1 11 84 3	0 2 13 83	1 2 14 76 7	1 2 7 85 7	1 1 13 83 83	1 2 17 79
47.	What are your chances of getting the AIDS virus? High	0 2 18 75 4	1 3 24 69 3	0 2 22 72 3	0 2 10 83 5	1 3 20 72 4 1	0 2 16 77 4	0 2 18 76 3	2 2 17 70 7	0 3 10 79 8	1 2 17 76 3	0 2 24 71 2
49.	Do you say your chance of getting AIDS is high or medium because you—11 Have had a blood transfusion? Have had sexual contact with someone who might have	8	7	4	15	10	5	9	6	8	9	6
	the virus?	18 70	29 69	19 67	2 78	22 68	13 73	21 69	8 66	23 76	19 66	14 72
	Have you ever discussed AIDS with a friend or relative? Yes No Don't know	63 37 0	68 32 0	72 28 0	49 51 1	58 41 0	67 33 0	64 36 0	60 40 0	43 56 1	61 39 0	76 24 0
53,	When was the last time you discussed AIDS with a friend or relative? 0–3 days ago. 4–7 days ago. 8–14 days ago. 15–31 days ago. More than 31 days ago Don't know. Never discussed 12	7 8 6 14 22 5 37	7 9 7 16 25 4 32	9 9 7 17 25 5	5 6 5 10 15 6 51	7 7 6 13 20 5	8 9 6 16 24 5 33	7 8 6 15 22 6 37	10 8 7 14 16 4	5 6 5 10 13 4	8 7 6 15 20 5	9 10 7 16 28 6
54.	Have you ever personally known anyone with AIDS or the AIDS virus? Yes No	11 87	12 87	14 84	8 91	11 88	12 87	11 88	16 81	57 6 92	39 10 89	24 16 82
55.	Don't know. How long has it been since you saw this person? Within past 2 weeks. 2 weeks-less than 1 month. 1 month-less than 3 months. 3 months-less than 6 months. 6 months or more. Don't know. Never knew anyone with AIDS ¹³ .	1 1 1 1 8 0 89	1 1 1 2 8 0 88	2 1 1 9 0 86	1 0 0 1 1 6 0 92	1 0 1 1 7 0 89	2 1 1 1 1 8 0 88	1 1 1 1 7 0 89	3 2 1 2 2 9 0 84	2 0 0 1 1 4 - 94	1 1 1 1 6 0 90	1 2 1 1 1 11 0 84

Table 1. Provisional estimates of the percent of persons 18 years of age and over with selected AIDS knowledge and attitudes from the 1988 National Health Interview Survey, by selected characteristics: United States, September 1988—Con.

				Age			Sex	Ra	.ce		Education	7	
	AIDS knowledge or attitude	Total	1829 years		50 years and over	Male	Female	White	Black	Less than 12 years	12 years	More than 12 years	
56.	How well do you know this person?					F	Percent di	stributio	n¹				
	Very well Fairly well Not very well Don't really know personally Other. Don't know how well Never knew anyone with AIDS ¹³	2 3 4 2 1 - 89	2 2 5 2 1 - 88	2 4 5 2 1 - 86	1 2 3 2 1 - 92	2 3 4 2 1 - 89	2 3 5 2 1 - 88	1 3 4 2 1 -	3 4 5 3 1 -	1 2 1 1 0 - 94	1 3 4 1 0 - 90	2 4 8 3 2 - 84	
57.	is any of these statements true for you? a. You have hemophilia and have received clotting factor concentrates since 1977.			-						-		-,	
	b. You are a native of Haiti or Central or East Africa who has entered the United States since 1977.												
	 c. You are a man who has had sex with another man at some time since 1977, even 1 time. d. You have taken illegal drugs by needle at any time since 1977. e. Since 1977, you are or have been the sex partner of any person who would answer yes to any of the items above 												
58	(57 a-d). f. You have had sex for money or drugs at any time since 1977. Yes to at least 1 statement	2 97 0 0	4 96 - 0	3 97 - 0	1 99 0 0	3 96 - 0	2 98 0 0	2 98 - 0	4 96 0 -	2 98 0 1	2 98 - 0	3 97 - 0	
33.	major health problems in the country but exactly how many people it affects is not known. The Surgeon General has proposed that a study be conducted and blood samples be taken to help find out how widespread the problem is. If you were selected in this national sample of people to have their blood tested with assurances of privacy of test results, would you have the test?												
	Yes	71 21	76 19	73 20	66 25	74 21	69 22	72 21	68 24	64 27	72 21	75 19	
	Other Don't know Why wouldn't you take part in the test? 14	2 6	1 4	1 6	2 6	1 5	2 6	2 5	2	2 7	2 6	1 5	
59.	Don't want to know if I have AIDS. Don't want any counseling about AIDS. Fear I'll get AIDS Don't like to give blood Don't trust Government programs. It is a waste of money Don't believe AIDS can really be cured anyway Other.	6 1 7 16 6 3 1 52	8 1 7 20 5 3 1	8 3 8 19 8 3 2 44	4 0 6 11 5 3 1 60	6 1 9 15 9 3 1 51	6 1 6 16 5 3 2 52	5 1 6 15 6 4 1 54	12 0 11 24 7 1 3 41	6 2 9 12 4 5 2 49	7 1 7 18 6 3 2 48	6 2 6 15 9 2 1 58	
61.	Don't know When Federal public health officials give information about AIDS, do you believe what they say or are you doubtful about the information they give?	9	9	9	9	8	10	8	10	14	8	5	
62.	Believe. Doubtful. Don't know. When they [public health officials] give advice about how to	63 30 6	69 27 4	66 30 5	56 34 10	62 32 6	64 29 7	64 30 6	60 30 10	53 33 14	62 33 5	70 26 4	
	help keep from getting AIDS, do you believe their advice or are you doubtful about what they say? Believe	77 18 5	80 17 3	80 16 3	72 19 9	78 17 5	77 18 5	78 18 5	76 17 7	66 22 12	77 19 4	84 13 3	

¹ Multiple responses may sum to more than 100.

²Based on persons answering yes to question 4 (includes yes to question 3).

Based on persons answering yes to question 11, "Do you have any children aged 10 through 17?" Question 12 was "How many do you have?"

Persons answering no or don't know to question 27.

⁵ Based on persons answering yes to question 29a.

⁶ includes persons answering yes to question 26a and no or don't know to questions 27 and 33.

⁷Based on yes answers to question 33. See footnote 6.

⁸Persons answering no or don't know to questions 26a, 27, and 33.

Based on persons answering yes to question 33; excludes persons answering yes to question 26a.

¹⁰Based on persons answering yes to question 41.

¹¹ Based on persons answering high or medium to question 46.

¹² Based on persons answering no or don't know to question 52.

¹³ Based on persons answering no or don't know to question 54. ¹⁴Based on persons not answering yes to question 58.

Technical notes

The National Health Interview Survey (NHIS) is a continuous, cross-sectional household interview survey. Each week, a probability sample of the civilian noninstitutionalized population is interviewed by personnel of the U.S. Bureau of the Census to obtain information on the health and other characteristics of each member of the household. Supplemental information is collected for all or a sample of household members. The 1988 National Health Interview Survey of AIDS Knowledge and Attitudes was asked of a single randomly chosen adult 18 years of age or over in each family. The estimates in this report are based on completed interviews with 4,121 persons, or about 89 percent of eligible respondents.

Table I contains the estimated population size of each of the demographic subgroups included in table 1 to allow readers to derive provisional estimates of the number of people in the United States with a given characteristic, for example, the number of men who have had their blood tested for the AIDS virus. The population figures in table I are based on first-quarter 1987 data from the NHIS; they are not official population estimates. Table II shows approximate standard errors of estimates presented in table 1. Both the estimates in table 1 and the standard errors in table II are provisional. They may differ slightly from estimates made using the final data file because they were calculated using a simplified weighting procedure that does

Table I. Sample sizes for the 1988 National Health Interview Survey of AIDS Knowledge and Attitudes and estimated adult population 18 years of age and over, by selected characteristics: United States, September 1988

Characteristics	Sample size	Estimated population in thousands
All adults	4,121	174,528
Age		
18-29 years	974	47.725
30-49 years	1,626	66,109
50 years and over	1,521	60,695
Sex		
Male	1,726	82,703
Female	2,395	91,825
Race		
White	3,292	151,003
Black	666	19,107
Education		
Less than 12 years	930	41,503
12 years	1,559	66,475
More than 12 years	1,596	62,363

not adjust for all the factors used in weighting the final data file. A final data file covering the entire data collection period for 1988 will be available in 1989.

Table II. Standard errors, expressed in percentage points, of estimated percents from the National Health Interview Survey of AIDS Knowledge and Attitudes, by selected characteristics: United States, September 1988

			Age			Sex	Re	ice	Education			
Estimated percent	Total	18-29 years	30-49 years	50 years and over	Male	Female	White	Black	Less than 12 years	12 years	More than	
5 or 95	0.4	0.9	0.7	0.7	0.7	0.6	0.5	1.1	0.9	0.7	0.7	
10 or 90	0.6	1.2	1.0	1.0	0.9	8.0	0.7	1.5	1.3	1.0	1.0	
15 or 85	0.7	1.5	1.1	1.2	1.1	0.9	0.8	1.8	1.5	1.2	1.2	
20 or 80	0.8	1.6	1.3	1.3	1.2	1.1	0.9	2.0	1.7	1.3	1.3	
25 or 75	0.9	1.8	1.4	1.4	1.3	1.1	1.0	2.2	1.8	1.4	1.4	
30 or 70	0.9	1.9	1.5	1.5	1.4	1.2	1.0	2.3	1.9	1.5	1.5	
35 or 65	1.0	2.0	1.5	1.6	1.5	1.3	1.1	2.4	2.0	1.6	1.5	
40 or 60	1.0	2.0	1.6	1.6	1.5	1.3	1.1	2.4	2.1	1.6	1.6	
45 or 55	1.0	2.1	1.6	1.6	1.5	1.3	1.1	2.5	2.1	1.6	1.6	
50	1.0	2.1	1.6	1.6	1.5	1.3	1.1	2.5	2.1	1.6	1.6	

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