

Sample Size and Non-response Information for NCHS Surveys Linked to Social Security Data by survey and age<sup>1</sup>: Unweighted Data

	Total Person Sample	Sample Ineligible for Linking <sup>2</sup>	Sample Eligible for Linking	Sample Linked to SSA Numident File	Link Rate for Total Sample	Link Rate for Eligible Sample	Number of Respondents with Benefit History Data <sup>3</sup>	
							RSDI from MBR	SSI payments from SSR
<b>NHIS 1994</b>	116,179	21,645	94,534	86,718	74.6%	91.7%	30,486	8,272
< 65 years	95,009	17,853	77,156	69,975	73.7%	90.7%	14,154	5,956
65+ years	21,170	3,792	17,378	16,743	79.1%	96.3%	16,332	2,316
<b>NHIS 1995</b>	102,467	21,034	81,433	73,492	71.7%	90.2%	24,789	7,404
< 65 years	85,874	17,824	68,050	60,653	70.6%	89.1%	12,235	5,389
65+ years	16,593	3,210	13,383	12,839	77.4%	95.9%	12,554	2,015
<b>NHIS 1996</b>	63,402	16,035	47,367	42,226	66.6%	89.1%	13,966	4,168
< 65 years	53,949	13,937	40,012	35,194	65.2%	88.0%	7,106	3,134
65+ years	9,453	2,098	7,355	7,032	74.4%	95.6%	6,860	1,034
<b>NHIS 1997</b>	103,477	32,516	70,961	62,429	60.3%	88.0%	20,465	6,275
< 65 years	88,819	28,543	60,281	52,218	58.8%	86.6%	10,497	4,709
65+ years	14,658	3,973	10,680	10,211	69.7%	95.6%	9,968	1,566
<b>NHIS 1998</b>	98,785	37,205	61,580	53,397	54.1%	86.7%	16,832	5,208
< 65 years	85,281	32,360	52,921	45,227	53.0%	85.5%	8,821	3,944
65+ years	13,504	4,845	8,659	8,170	60.5%	94.4%	8,011	1,264
<b>LSOA II<sup>4</sup></b>	9,447	1,809	7,638	7,452	78.9%	97.6%	7,275	1,033
<b>NHEFS<sup>5</sup></b>	14,407	864	13,543	12,811	88.9%	94.6%	10,342	2,243
< 65 years	4,050	227	3,823	3,652	90.2%	95.5%	1,660	539
65+ years	10,357	637	9,720	9,159	88.4%	94.2%	8,682	1,704
<b>NHANES III</b>	33,994	970	33,024	31,466	92.6%	95.3%	12,017	4,488
< 65 years	26,456	826	25,630	24,173	91.4%	94.3%	4,910	2,651
65+ years	7,538	144	7,394	7,293	96.7%	98.6%	7,107	1,837
<b>NNHS<sup>6</sup></b>	11,170	627	10,543	9,841	88.1%	93.3%	9,457	3,043
< 65 years	416	22	394	359	86.3%	91.1%	287	303
65+ years	10,754	605	10,149	9,482	88.2%	93.4%	9,170	2,740

<sup>1</sup>Age is the participant's assumed age at the time of the linkage (July 1, 2001).

<sup>2</sup>Survey respondents are ineligible for linking if they refused to provide their Social Security number at the time of interview or if they are missing key identification data.

<sup>3</sup>Not all persons linked to the Numident will have Social Security benefit information.

<sup>4</sup>All persons in LSOA II are older than 65 years.

<sup>5</sup>NHEFS = NHANES I Epidemiologic Follow Up Study.

<sup>6</sup>NNHS = 1985 National Nursing Home Survey.

**Selected characteristics of 1994 NHIS participants linked to Social Security data by eligibility<sup>1</sup> and link<sup>2</sup> status: Unweighted**

	Total	Ineligible	<u>Eligible Population</u>		< 65 years <sup>3</sup>			65+ years <sup>3</sup>		
			Linked	Not linked	Ineligible	Linked	Not linked	Ineligible	Linked	Not linked
<b>Overall</b>	116,179	21,645	86,718	7,816	17,853	69,975	7,181	3,792	16,743	635
<b>Sex</b>										
Male	55,364	10,253	41,124	3,987	8,690	33,942	3,715	1,563	7,182	272
Female	60,815	11,392	45,594	3,829	9,163	36,033	3,466	2,229	9,561	363
<b>Race/ethnicity</b>										
NH White	83,522	15,166	64,402	3,954	12,075	50,642	3,577	3,091	13,760	377
NH Black	16,156	3,606	11,075	1,475	3,127	9,256	1,353	479	1,819	122
NH Other	4,790	906	3,375	509	831	3,002	449	75	373	60
Hispanic	11,711	1,967	7,866	1,878	1,820	7,075	1,802	147	791	76
<b>Education<sup>4</sup></b>										
< HS	14,664	2,322	11,407	935	1,215	5,439	681	1,107	5,968	254
HS	26,804	5,109	20,580	1,115	3,658	14,593	942	1,451	5,987	173
More than HS/Coll.	30,953	6,188	23,683	1,082	5,089	19,117	960	1,099	4,566	122
Unknown	1,230	396	506	328	261	284	242	135	222	86
<b>Family Income</b>										
< \$10,000	10,903	1,148	8,928	827	909	6,714	741	239	2,214	86
\$10-24,999	25,818	3,245	20,753	1,820	2,475	15,130	1,698	770	5,623	122
\$25-49,999	33,670	4,811	27,150	1,709	4,272	23,101	1,617	539	4,049	92
\$50,000+	25,766	4,471	20,051	1,244	4,099	18,081	1,185	372	1,970	59
Unknown	20,022	7,970	9,836	2,216	6,098	6,949	1,940	1,872	2,887	276
<b>Health Status</b>										
Excellent	43,095	8,249	31,867	2,979	7,589	28,939	2,885	660	2,928	94
Very Good	32,622	6,288	24,272	2,062	5,335	20,416	1,934	953	3,856	128
Good	27,281	4,905	20,401	1,975	3,676	15,033	1,774	1,229	5,368	201
Fair	8,743	1,429	6,819	495	794	3,880	374	635	2,939	121
Poor	3,486	545	2,773	168	262	1,213	85	283	1,560	83
Unknown	952	229	586	137	197	494	129	32	92	8
<b>Region</b>										
Northeast	23,228	4,412	17,168	1,648	3,611	13,531	1,487	801	3,637	161
Midwest	29,149	5,395	22,364	1,390	4,419	18,024	1,268	976	4,340	122
South	38,048	6,468	29,079	2,501	5,262	23,429	2,268	1,206	5,650	233
West	25,754	5,370	18,107	2,277	4,561	14,991	2,158	809	3,116	119

**Notes:**

<sup>1</sup>NHIS respondents are ineligible for linking if they refused to provide their SSN at the time of interview or have missing information on key identifiers.

<sup>2</sup>Linked refers to linkage to the Social Security Numident file. Not all persons linked to the Numident file will have Social Security benefit information.

<sup>3</sup>Age is the participant's assumed age at the time of the linkage (July 1, 2001).

<sup>4</sup>Education population includes only respondents aged 25 or older.

**NHIS respondents linked to Social Security Numident Master Enrollment Files by sociodemographic and health characteristics: NHIS years 1994**

**1994**

	Match Sample <sup>1</sup>	Proportion Linked <sup>2</sup>	SE
<b>Overall</b>	86,718		
<b>Age<sup>3</sup></b>			
< 25 (referent)	23,165	0.711	0.005
25-64	46,810	0.756 ***	0.004
65+	16,743	0.782 ***	0.005
<b>Sex</b>			
Male (referent)	41,124	0.746	0.004
Female	45,594	0.750	0.004
<b>Race/ethnicity</b>			
NH White (referent)	64,402	0.761	0.005
NH Black	11,075	0.685 ***	0.008
NH Other	3,375	0.771	0.010
Hispanic	7,866	0.722 ***	0.008
<b>US Born<sup>4</sup></b>			
Yes (referent)	79,963	0.756	0.004
No	6,755	0.672 ***	0.008
<b>Family Income<sup>5</sup></b>			
< \$10,000	10,500	0.787 ***	0.006
\$10-\$24,999 (referent)	24,518	0.762	0.005
\$25-\$49,999	30,117	0.743 ***	0.005
\$50,000 +	21,583	0.721 ***	0.005
<b>Reported "unknown" income</b>			
Yes	9,836	0.530 ***	0.008
No (referent)	76,882	0.794	0.004
<b>Self Reported Health</b>			
Excellent/Very Good/Good (referent)	76,540	0.747	0.004
Fair/Poor	9,592	0.762 *	0.006
Unknown	586	0.690 **	0.019
<b>Activity Limitation</b>			
Yes	14,451	0.780 ***	0.005
No (referent)	72,267	0.743	0.004
<b>Health Insurance</b>			
Yes (referent)	70,150	0.777	0.004
No	11,431	0.740 ***	0.006
Unknown	5,137	0.545 ***	0.009
<b>Region</b>			
South (referent)	29,079	0.770	0.006
Northeast	17,168	0.737 ***	0.007
Midwest	22,364	0.756	0.009
West	18,107	0.716 ***	0.008

**Notes:**

\*p<0.05; \*\*p<0.01; \*\*\*p<0.001

<sup>1</sup>Matched sample refers to linkages with SSA Numident file. Unweighted data.

<sup>2</sup>Adjusted proportions and their standard errors are based upon logistic regression model using the SUDAAN software package, which accounts for the complex survey design and weighted data.

<sup>3</sup>Age is assumed age at time of linkage, July 1, 2001.

<sup>4</sup>US born includes the U.S. territories.

<sup>5</sup>Family income includes imputed income for respondents reporting unknown income. 1994-1996 based upon a single imputation method.

**Selected characteristics of 1995 NHIS participants linked to Social Security data by eligibility<sup>1</sup> and link<sup>2</sup> status: Unweighted**

	Eligible Population				< 65 years <sup>3</sup>			65+ years <sup>3</sup>		
	Total	Ineligible	Eligible Population		Eligible Population			Eligible Population		
			Linked	Not linked	Ineligible	Linked	Not linked	Ineligible	Linked	Not linked
<b>Overall</b>	102,467	21,034	73,492	7,941	17,824	60,633	7,397	3,210	12,859	544
<b>Sex</b>										
Male	48,809	9,981	34,759	4,069	8,627	29,196	3,853	1,354	5,563	216
Female	53,658	11,053	38,733	3,872	9,197	31,457	3,544	1,856	7,276	328
<b>Race/ethnicity</b>										
NH White	64,594	12,655	48,990	2,949	10,158	38,935	2,657	2,497	10,047	292
NH Black	13,323	3,494	8,672	1,157	3,146	7,439	1,072	348	1,228	85
NH Other	3,711	762	2,513	436	681	2,209	395	81	303	41
Hispanic	20,839	4,123	13,317	3,399	3,839	12,050	3,273	284	1,261	126
<b>Education<sup>4</sup></b>										
< HS	13,560	2,233	10,145	1,182	1,299	5,452	939	934	4,693	243
HS	22,876	4,854	16,895	1,127	3,597	12,397	998	1,257	4,498	129
More than HS/Coll.	26,162	5,708	19,457	997	4,804	15,934	904	904	3,523	93
Unknown	1,060	364	377	319	249	252	240	115	125	79
<b>Family Income</b>										
< \$10,000	9,558	1,115	7,561	882	911	5,761	815	204	1,800	67
\$10-24,999	23,962	3,419	18,539	2,004	2,783	14,207	1,869	636	4,332	135
\$25-49,999	29,269	4,816	22,831	1,622	4,324	19,606	1,556	492	3,225	66
\$50,000+	22,944	4,425	17,356	1,163	4,093	15,695	1,098	332	1,661	65
Unknown	16,734	7,529	7,205	2,270	5,713	5,384	2,059	1,546	1,821	211
<b>Health Status</b>										
Excellent	36,442	7,622	26,022	2,798	7,088	23,889	2,725	534	2,133	73
Very Good	29,116	6,284	20,748	2,084	5,494	17,844	1,990	790	2,904	94
Good	24,830	4,993	17,651	2,186	3,928	13,546	2,003	1,065	4,105	183
Fair	7,868	1,364	5,990	514	830	3,541	413	534	2,449	101
Poor	3,021	474	2,377	170	230	1,219	94	244	1,158	76
Unknown	1,190	297	704	189	254	614	172	43	90	17
<b>Region</b>										
Northeast	19,818	4,547	13,745	1,526	3,823	11,141	1,398	724	2,604	128
Midwest	22,265	4,581	16,592	1,092	3,772	13,526	998	809	3,066	94
South	35,896	5,936	27,395	2,565	4,976	22,710	2,372	960	4,685	193
West	24,488	5,970	15,760	2,758	5,253	13,276	2,629	717	2,484	129

**Notes:**

<sup>1</sup>NHIS respondents are ineligible for linking if they refused to provide their SSN at the time of interview or have missing information on key identifiers.

<sup>2</sup>Linked refers to linkage to the Social Security Numident file. Not all persons linked to the Numident file will have Social Security benefit information.

<sup>3</sup>Age is the participant's assumed age at the time of the linkage (July 1, 2001).

<sup>4</sup>Education population includes only respondents aged 25 or older.

**NHIS respondents linked to Social Security Numident Master Enrollment Files by sociodemographic and health characteristics: NHIS years 1995**

	1995		
	Match Sample <sup>1</sup>	Proportion Linked <sup>2</sup>	SE
<b>Overall</b>	73,942		
<b>Age<sup>3</sup></b>			
< 25 (referent)	21,225	0.699	0.005
25-64	39,428	0.736 ***	0.003
65+	21,034	0.761 ***	0.005
<b>Sex</b>			
Male (referent)	34,759	0.727	0.004
Female	38,733	0.731	0.003
<b>Race/ethnicity</b>			
NH White (referent)	48,990	0.746	0.004
NH Black	8,672	0.653 ***	0.008
NH Other	2,513	0.748	0.011
Hispanic	13,317	0.695 ***	0.007
<b>US Born<sup>4</sup></b>			
Yes (referent)	65,965	0.738	0.003
No	7,527	0.652 ***	0.008
<b>Family Income<sup>5</sup></b>			
< \$10,000	8,665	0.771 **	0.008
\$10-\$24,999 (referent)	21,331	0.744	0.005
\$25-\$49,999	24,973	0.726 **	0.005
\$50,000 +	18,523	0.702 ***	0.006
<b>Reported "unknown" income</b>			
Yes	7,205	0.477 ***	0.008
No (referent)	66,287	0.777	0.003
<b>Self Reported Health</b>			
Excellent/Very Good/Good (referent)	64,421	0.728	0.003
Fair/Poor	8,367	0.745 **	0.006
Unknown	704	0.693 *	0.017
<b>Activity Limitation</b>			
Yes	11,846	0.766 ***	0.005
No (referent)	61,646	0.724	0.003
<b>Health Insurance</b>			
Yes (referent)	59,299	0.754	0.003
No	10,211	0.718 ***	0.006
Unknown	3,982	0.540 ***	0.010
<b>Region</b>			
South (referent)	27,395	0.771	0.005
Northeast	13,745	0.698 ***	0.007
Midwest	16,592	0.732 ***	0.007
West	15,760	0.687 ***	0.007

**Notes:**

\*p<0.05; \*\*p<0.01; \*\*\*p<0.001

<sup>1</sup>Matched sample refers to linkages with SSA Numident file. Unweighted data.

<sup>2</sup>Adjusted proportions and their standard errors are based upon logistic regression model using the SUDAAN software package, which accounts for the complex survey design and weighted data.

<sup>3</sup>Age is assumed age at time of linkage, July 1, 2001.

<sup>4</sup>US born includes the U.S. territories.

<sup>5</sup>Family income includes imputed income for respondents reporting unknown income. 1994-1996 based upon a single imputation method.

**Selected characteristics of 1996 NHIS participants linked to Social Security data by eligibility<sup>1</sup> and link<sup>2</sup> status: Unweighted**

	Total	Eligible Population			< 65 years <sup>3</sup>			65+ years <sup>3</sup>		
		Ineligible	Linked	Not linked	Ineligible	Linked	Not linked	Ineligible	Linked	Not linked
<b>Overall</b>	63,402	16,035	42226	5,141	13,937	35,194	4,818	2,098	7,032	323
<b>Sex</b>										
Male	30,358	7,617	20,111	2,630	6,765	17,043	2,505	852	3,068	125
Female	33,044	8,418	22,115	2,511	7,172	18,165	2,313	1,246	3,950	198
<b>Race/ethnicity</b>										
NH White	39,443	9,289	28,239	1,915	7,729	22,784	1,737	1,560	5,455	178
NH Black	8,715	2,721	5,296	698	2,453	4,508	655	268	788	43
NH Other	2,119	610	1,259	250	575	1,140	220	35	119	30
Hispanic	13,125	3,415	7,432	2,278	3,180	6,776	2,206	235	656	72
<b>Education<sup>4</sup></b>										
< HS	8,353	1,755	5,790	808	1,066	3,207	683	689	2,583	125
HS	13,984	3,581	9,684	719	2,814	7,292	630	767	2,392	89
More than HS/Coll.	16,604	4,379	11,561	664	3,810	9,582	603	569	1,979	61
Unknown	765	321	216	228	248	152	180	73	64	48
<b>Family Income</b>										
< \$10,000	5,447	894	4,040	513	749	3,172	479	145	868	34
\$10-24,999	14,538	2,491	10,722	1,325	2,078	8,302	1,252	413	2,420	73
\$25-49,999	17,463	3,687	12,720	1,056	3,368	10,903	1,018	319	1,817	38
\$50,000+	15,137	3,468	10,867	802	3,241	9,956	757	227	911	45
Unknown	10,817	5,495	3,877	1,445	4,501	2,875	1,312	994	1,002	133
<b>Health Status</b>										
Excellent	22,720	5,793	15,119	1,808	5,438	13,939	1,759	355	1,180	49
Very Good	18,116	4,821	11,894	1,401	433	10,272	1,342	488	1,622	59
Good	15,237	3,765	10,068	1,404	3,073	7,836	1,299	692	2,232	105
Fair	4,899	1,082	3,503	314	690	2,168	254	392	1,335	60
Poor	1,697	327	1,271	99	185	680	56	142	591	43
Unknown	733	247	371	115	218	313	108	29	58	7
<b>Region</b>										
Northeast	12,500	3,318	8,109	1,073	2,829	6,624	977	489	1,485	96
Midwest	13,606	3,623	9,203	780	3,102	7,684	732	521	1,519	48
South	21,982	4,910	15,522	1,550	4,221	12,927	1,440	689	2,595	110
West	15,314	4,184	9,392	1,738	3,785	7,973	1,669	399	1,419	69

**Notes:**

<sup>1</sup>NHIS respondents are ineligible for linking if they refused to provide their SSN at the time of interview or have missing information on key identifiers.

<sup>2</sup>Linked refers to linkage to the Social Security Numident file. Not all persons linked to the Numident file will have Social Security benefit information.

<sup>3</sup>Age is the participant's assumed age at the time of the linkage (July 1, 2001).

<sup>4</sup>Education population includes only respondents aged 25 or older.

**NHIS respondents linked to Social Security Numident Master Enrollment Files by sociodemographic and health characteristics: NHIS years 1996**

	1996		
	Match Sample <sup>1</sup>	Proportion Linked <sup>2</sup>	SE
<b>Overall</b>	42,226		
<b>Age<sup>3</sup></b>			
< 25 (referent)	12,539	0.647	0.007
25-64	22,669	0.686 ***	0.007
65+	7,018	0.734 ***	0.008
<b>Sex</b>			
Male (referent)	20,111	0.682	0.006
Female	22,115	0.682	0.006
<b>Race/ethnicity</b>			
NH White (referent)	28,239	0.704	0.007
NH Black	5,296	0.610 ***	0.011
NH Other	1,259	0.683	0.020
Hispanic	7,432	0.616 ***	0.011
<b>US Born<sup>4</sup></b>			
Yes (referent)	38,079	0.693	0.006
No	4,147	0.577 ***	0.011
<b>Family Income<sup>5</sup></b>			
< \$10,000	4,677	0.731 **	0.010
\$10-\$24,999 (referent)	12,204	0.706	0.008
\$25-\$49,999	13,817	0.672 ***	0.007
\$50,000 +	11,528	0.655 ***	0.009
<b>Reported "unknown" income</b>			
Yes	3,877	0.397 ***	0.012
No (referent)	38,349	0.737	0.006
<b>Self Reported Health</b>			
Excellent/Very Good/Good (referent)	37,081	0.682	0.006
Fair/Poor	4,774	0.686	0.009
Unknown	371	0.624 *	0.023
<b>Activity Limitation</b>			
Yes	6,864	0.729 ***	0.009
No (referent)	35,362	0.674	0.006
<b>Health Insurance</b>			
Yes (referent)	35,117	0.697	0.006
No	6,169	0.675 **	0.009
Unknown	940	0.444 ***	0.020
<b>Region</b>			
South (referent)	15,522	0.705	0.011
Northeast	8,109	0.656 **	0.012
Midwest	9,203	0.676 *	0.011
West	9,392	0.674 *	0.011

**Notes:**

\*p<0.05; \*\*p<0.01; \*\*\*p<0.001

<sup>1</sup>Matched sample refers to linkages with SSA Numident file. Unweighted data.

<sup>2</sup>Adjusted proportions and their standard errors are based upon logistic regression model using the SUDAAN software package, which accounts for the complex survey design and weighted data.

<sup>3</sup>Age is assumed age at time of linkage, July 1, 2001.

<sup>4</sup>US born includes the U.S. territories.

<sup>5</sup>Family income includes imputed income for respondents reporting unknown income. 1994-1996 based upon a single imputation method.

**Selected characteristics of 1997 NHIS participants linked to Social Security data by eligibility<sup>1</sup> and link<sup>2</sup> status: Unweighted**

	Total	Eligible Population			< 65 years <sup>3</sup>			65+ years <sup>3</sup>		
		Ineligible	Eligible Population		Eligible Population			Eligible Population		
			Linked	Not linked	Ineligible	Linked	Not linked	Ineligible	Linked	Not linked
<b>Overall</b>	103,477	32,516	62,429	8,532	28,542	52,214	8,063	3,974	10,215	469
<b>Sex</b>										
Male	49,561	15,557	29,877	4,127	13,963	25,467	3,958	1,594	4,410	169
Female	53,906	16,969	32,552	4,405	14,580	26,751	4,105	2,379	5,801	300
<b>Race/ethnicity</b>										
NH White	62,857	18,541	41,035	3,281	15,607	32,997	3,018	2,934	8,038	263
NH Black	14,662	5,529	7,905	1,228	5,026	6,834	1,150	503	1,071	78
NH Other	4,084	1,533	2,133	418	1,407	1,940	383	126	193	35
Hispanic	21,874	6,913	11,356	3,605	6,503	10,447	3,512	410	909	93
<b>Education<sup>4</sup></b>										
< HS	14,257	3,774	9,077	1,406	2,591	5,276	1,176	1,183	3,801	230
HS	19,251	6,123	12,072	1,056	4,838	8,950	934	1,285	3,122	122
More than HS/Coll.	29,765	9,273	19,115	1,377	8,103	15,934	1,295	1,170	3,181	82
Unknown	1,550	1,139	284	127	804	177	92	335	107	35
<b>Family Income</b>										
< \$10,000	8,093	1,545	5,702	846	1,364	4,428	782	181	1,274	64
\$10-24,999	17,926	3,354	12,714	1,858	2,884	9,679	1,754	470	3,035	104
\$25-49,999	23,876	5,400	16,682	1,794	4,994	14,414	1,722	406	2,268	72
\$50,000+	27,698	6,878	18,974	1,846	6,562	17,553	1,792	316	1,421	54
Unknown	25,884	15,339	8,357	2,188	12,739	6,144	2,013	2,600	2,213	175
<b>Health Status</b>										
Excellent	37,918	12,038	22,660	3,220	11,477	21,182	3,173	561	1,478	47
Very Good	30,900	10,264	18,261	2,375	9,256	15,745	2,286	1,008	2,516	89
Good	24,468	7,474	14,756	2,238	6,084	11,360	2,067	1,390	3,396	171
Fair	7,275	1,935	4,900	440	1,240	2,922	357	695	1,978	83
Poor	2,378	579	1,647	152	292	826	80	287	821	72
Unknown	538	226	205	107	194	183	100	32	22	7
<b>Region</b>										
Northeast	19,338	6,508	11,454	1,376	5,667	9,382	1,270	841	2,072	106
Midwest	22,525	6,657	14,524	1,344	5,713	12,112	1,260	944	2,412	84
South	36,812	10,552	23,398	2,862	9,214	19,581	2,673	1,338	3,817	189
West	24,802	8,799	13,053	2,950	7,949	11,143	2,860	850	1,910	90

**Notes:**

<sup>1</sup>NHIS respondents are ineligible for linking if they refused to provide their SSN at the time of interview or have missing information on key identifiers.

<sup>2</sup>Linked refers to linkage to the Social Security Numident file. Not all persons linked to the Numident file will have Social Security benefit information.

<sup>3</sup>Age is the participant's assumed age at the time of the linkage (July 1, 2001).

<sup>4</sup>Education population includes only respondents aged 25 or older.

**NHIS respondents linked to Social Security Numident Master Enrollment Files by sociodemographic and health characteristics: NHIS years 1997**

	1997		
	Match Sample <sup>1</sup>	Proportion Linked <sup>2</sup>	SE
<b>Overall</b>	62,429		
<b>Age<sup>3</sup></b>			
< 25 (referent)	19,088	0.579	0.005
25-64	33,190	0.624 ***	0.004
65+	10,211	0.701 ***	0.005
<b>Sex</b>			
Male (referent)	29,877	0.623	0.004
Female	32,552	0.618 *	0.004
<b>Race/ethnicity</b>			
NH White (referent)	41,035	0.640	0.004
NH Black	7,905	0.549 ***	0.008
NH Other	2,133	0.615	0.014
Hispanic	11,356	0.582 ***	0.007
<b>US Born<sup>4</sup></b>			
Yes (referent)	55,328	0.631	0.004
No	7,101	0.538 ***	0.008
<b>Family Income<sup>5</sup></b>			
< \$10,000	7,113	0.660	0.008
\$10-\$24,999 (referent)	15,205	0.651	0.006
\$25-\$49,999	18,811	0.617 ***	0.005
\$50,000 +	21,300	0.596 ***	0.005
<b>Reported "unknown" income</b>			
Yes	8,357	0.331 ***	0.006
No (referent)	54,072	0.713	0.003
<b>Self Reported Health<sup>6</sup></b>			
Excellent/Very Good/Good (referent)	55,677	---	---
Fair/Poor	6,547	---	---
Unknown	205	---	---
<b>Activity Limitation</b>			
Yes	9,363	0.690 ***	0.006
No (referent)	53,066	0.612	0.004
<b>Health Insurance</b>			
Yes (referent)	52,414	0.627	0.004
No	9,577	0.597 ***	0.006
Unknown	438	0.484 ***	0.019
<b>Region</b>			
South (referent)	23,398	0.634	0.005
Northeast	11,454	0.621	0.007
Midwest	14,524	0.644	0.007
West	13,053	0.569 ***	0.007

**Notes:**

\*p<0.05; \*\*p<0.01; \*\*\*p<0.001

<sup>1</sup>Matched sample refers to linkages with SSA Numident file. Unweighted data.

<sup>2</sup>Adjusted proportions and their standard errors are based upon logistic regression model using the SUDAAN software package, which accounts for the complex survey design and weighted data.

<sup>3</sup>Age is assumed age at time of linkage, July 1, 2001.

<sup>4</sup>US born includes the U.S. territories.

<sup>5</sup>Family income includes imputed income for respondents reporting unknown income. 1997-1998 based upon multiple imputation method.

<sup>6</sup>Self-reported health was not a statistically significant variable in 1997.

**Selected characteristics of 1998 NHIS participants linked to Social Security data by eligibility<sup>1</sup> and link<sup>2</sup> status: Unweighted**

	Total	Eligible Population				< 65 years <sup>3</sup>			65+ years <sup>3</sup>		
		Ineligible	Eligible Population		Eligible Population			Eligible Population			
			Linked	Not linked	Ineligible	Linked	Not linked	Ineligible	Linked	Not linked	
<b>Overall</b>	98,785	37,205	53,397	8,183	32,360	45,215	7,694	4,845	8,182	489	
<b>Sex</b>											
Male	47,735	17,955	25,821	3,959	15,932	22,223	3,772	2,023	3,598	187	
Female	51,050	19,250	27,576	4,224	16,428	23,004	3,922	2,822	4,572	302	
<b>Race/ethnicity</b>											
NH White	59,999	22,231	34,599	3,169	18,504	28,290	2,891	3,727	6,309	278	
NH Black	13,642	5,717	6,647	1,278	5,189	5,816	1,189	528	831	89	
NH Other	3,895	1,603	1,882	410	1,455	1,660	386	148	222	24	
Hispanic	21,249	7,654	10,269	3,326	7,212	9,461	3,228	442	808	98	
<b>Education<sup>4</sup></b>											
< HS	12,701	4,160	7,227	1,314	2,756	4,379	1,086	1,404	2,848	228	
HS	18,325	6,933	10,296	1,096	5,395	7,701	986	1,538	2,595	110	
More than HS/Coll.	28,836	10,619	16,785	1,432	9,210	14,151	1,323	1,409	2,634	109	
Unknown	2,256	1,814	263	179	1,320	170	137	494	93	42	
<b>Family Income</b>											
< \$10,000	6,323	1,377	4,211	735	1,147	3,253	672	230	958	63	
\$10-24,999	15,189	3,643	9,889	1,657	2,963	7,625	1,552	680	2,264	105	
\$25-49,999	21,180	5,735	13,775	1,670	5,268	11,948	1,612	467	1,827	58	
\$50,000+	27,155	7,951	17,472	1,732	7,604	16,237	1,679	347	1,235	53	
Unknown	28,938	18,499	8,050	2,389	15,378	6,164	2,179	3,121	1,886	210	
<b>Health Status</b>											
Excellent	36,323	13,422	19,794	3,107	12,746	18,623	3,030	676	1,171	77	
Very Good	29,997	11,843	15,739	2,415	10,641	13,772	2,323	1,202	1,967	92	
Good	22,818	8,614	12,180	2,024	6,895	9,454	1,877	1,719	2,726	147	
Fair	6,798	2,100	4,217	481	1,292	2,566	364	808	1,651	117	
Poor	2,309	757	1,424	128	391	783	75	366	641	53	
Unknown	540	469	43	28	395	29	25	74	14	3	
<b>Region</b>											
Northeast	18,079	7,252	9,552	1,275	6,221	7,880	1,160	1,031	1,672	115	
Midwest	21,347	7,828	12,202	1,317	6,679	10,434	1,225	1,149	1,768	92	
South	35,029	11,882	20,101	3,046	10,239	17,040	2,869	1,643	3,061	177	
West	24,330	10,243	11,542	2,545	9,221	9,873	2,440	1,022	1,669	105	

**Notes:**

<sup>1</sup>NHIS respondents are ineligible for linking if they refused to provide their SSN at the time of interview or have missing information on key identifiers.

<sup>2</sup>Linked refers to linkage to the Social Security Numident file. Not all persons linked to the Numident file will have Social Security benefit information.

<sup>3</sup>Age is the participant's assumed age at the time of the linkage (July 1, 2001).

<sup>4</sup>Education population includes only respondents aged 25 or older.

**NHIS respondents linked to Social Security Numident Master Enrollment Files by sociodemographic and health characteristics: NHIS years 1998**

	1998		
	Match Sample <sup>1</sup>	Proportion Linked <sup>2</sup>	SE
<b>Overall</b>	53,397		
<b>Age<sup>3</sup></b>			
< 25 (referent)	17,025	0.520	0.005
25-64	28,202	0.557 ***	0.004
65+	8,170	0.615 ***	0.006
<b>Sex</b>			
Male (referent)	25,821	0.553	0.004
Female	27,576	0.553	0.004
<b>Race/ethnicity</b>			
NH White (referent)	34,599	0.563	0.005
NH Black	6,647	0.497 ***	0.009
NH Other	1,882	0.568	0.014
Hispanic	10,269	0.546	0.008
<b>US Born<sup>4</sup></b>			
Yes (referent)	47,325	0.565	0.004
No	6,072	0.460 ***	0.008
<b>Family Income<sup>5</sup></b>			
< \$10,000	5,600	0.594 *	0.009
\$10-\$24,999 (referent)	12,041	0.568	0.007
\$25-\$49,999	15,819	0.549 *	0.006
\$50,000 +	19,936	0.539 **	0.006
<b>Reported "unknown" income</b>			
Yes	8,050	0.284 ***	0.006
No (referent)	45,347	0.658	0.004
<b>Self Reported Health</b>			
Excellent/Very Good/Good (referent)	47,713	0.551	0.004
Fair/Poor	5,641	0.578 ***	0.008
Unknown	43	0.318 ***	0.042
<b>Activity Limitation</b>			
Yes	7,618	0.608 ***	0.007
No (referent)	45,779	0.546	0.004
<b>Health Insurance</b>			
Yes (referent)	45,402	0.559	0.004
No	7,836	0.526 ***	0.007
Unknown	159	0.354 ***	0.028
<b>Region</b>			
South (referent)	20,101	0.562	0.007
Northeast	9,552	0.562	0.007
Midwest	12,202	0.569	0.008
West	11,542	0.508 ***	0.007

**Notes:**

\*p<0.05; \*\*p<0.01; \*\*\*p<0.001

<sup>1</sup>Matched sample refers to linkages with SSA Numident file. Unweighted data.

<sup>2</sup>Adjusted proportions and their standard errors are based upon logistic regression model using the SUDAAN software package, which accounts for the complex survey design and weighted data.

<sup>3</sup>Age is assumed age at time of linkage, July 1, 2001.

<sup>4</sup>US born includes the U.S. territories.

<sup>5</sup>Family income includes imputed income for respondents reporting unknown income. 1997-1998 based upon multiple imputation method.

**Selected characteristics of LSOA2 participants linked to Social Security data by eligibility<sup>1</sup> and link<sup>2</sup> status: Unweighted**

	Total	Ineligible	<u>Eligible Population<sup>3</sup></u>	
			Linked	Not linked
<b>Overall</b>	9,447	1,809	7,452	186
<b>Sex</b>				
Male	3,744	693	2,984	67
Female	5,703	1,116	4,468	119
<b>Race/ethnicity</b>				
NH White	7,754	1,467	6,175	112
NH Black	979	199	743	37
NH Other	262	48	195	19
Hispanic	452	95	339	18
<b>Education</b>				
< HS	3,792	790	2,915	87
HS	3,152	597	2,510	45
More than HS/Coll.	2,310	377	1,900	33
Unknown	193	45	127	21
<b>Family Income</b>				
< \$10,000	1,433	247	1,162	24
\$10-24,999	3,303	604	2,658	41
\$25-49,999	1,711	261	1,436	14
\$50,000+	703	114	581	8
Unknown	2,297	583	1,615	99
<b>Health Status</b>				
Excellent	1,338	259	1,053	26
Very Good	2,145	440	1,671	34
Good	3,242	627	2,555	60
Fair	1,826	344	1,443	39
Poor	841	126	692	23
Unknown	55	13	38	4
<b>Region</b>				
Northeast	2,118	462	1,611	45
Midwest	2,505	459	2,003	43
South	3,051	562	2,431	58
West	1,773	326	1,407	40

**Notes:**

<sup>1</sup>LSOA2 respondents are ineligible for linking if they refused to provide their SSN at the time of interview or have missing information on key identifiers.

<sup>2</sup>Linked refers to linkage to the Social Security Numident file. Not all persons linked to the Numident file will have Social Security benefit information.

<sup>3</sup>All participant's assumed age at the time of the linkage (July 1, 2001) is  $\geq 65$ .

**Selected characteristics of NHEFS participants linked to Social Security data by eligibility<sup>1</sup> and link<sup>2</sup> status: Unweighted**

	Total	Ineligible	Eligible Population		< 65 years <sup>3</sup>			65+ years <sup>3</sup>		
			Linked	Not linked	Ineligible	Linked	Not linked	Ineligible	Linked	Not linked
<b>Overall</b>	14,407	864	12,811	732	227	3,652	171	637	9,159	561
<b>Sex</b>										
Male	5,810	360	5,119	331	85	1,164	51	275	3,955	280
Female	8,597	504	7,692	401	142	2,488	120	362	5,204	281
<b>Race/ethnicity<sup>4</sup></b>										
White	12,053	689	10,901	463	181	3,090	126	508	7,811	337
Black	2,195	161	1,778	256	43	506	40	118	1,272	216
Other	159	14	132	13	3	56	5	11	76	8
<b>Education</b>										
< HS	6,618	458	5,687	473	75	889	74	383	4,798	399
HS	4,420	214	4,059	147	76	1,528	53	138	2,531	94
More than HS/Coll.	3,264	183	2,980	101	75	1,220	42	108	1,760	59
Unknown	105	9	85	11	1	15	2	8	70	9
<b>Family Income<sup>5</sup></b>										
< \$10,000	8,139	476	7,102	561	97	1,668	116	379	5,434	445
\$10-24,999	5,098	299	4,687	112	117	1,745	42	182	2,942	70
\$25,000+	623	31	577	15	6	140	5	25	437	10
Unknown	547	58	445	44	7	99	8	51	346	36
<b>Health Status<sup>6</sup></b>										
Excellent	2,106	55	2,045	6	28	977	1	27	1,068	5
Very Good	2,727	100	2,621	6	34	987	0	66	1,634	6
Good	2,966	111	2,839	16	22	697	2	89	2,142	14
Fair	1,645	99	1,537	9	15	244	0	84	1,293	9
Poor	688	31	651	6	5	76	0	26	575	6
Unknown	2,088	13	1,776	299	3	96	13	10	1,680	286
<b>Region</b>										
Northeast	3,234	221	2,836	177	53	819	49	168	2,017	128
Midwest	3,493	211	3,158	124	53	979	38	158	2,179	86
South	3,833	207	3,403	223	55	892	27	152	2,511	196
West	3,847	225	3,414	208	66	962	57	159	2,452	151

**Notes:**

<sup>1</sup>NHEFS respondents are ineligible for linking if they refused to provide their SSN at the time of interview or have missing information on key identifiers.

<sup>2</sup>Linked refers to linkage to the Social Security Numident file. Not all persons linked to the Numident file will have Social Security benefit information.

<sup>3</sup>Age is the participant's assumed age at the time of the linkage (July 1, 2001).

<sup>4</sup>NHEFS respondents were only asked to define themselves by race. The interview did not have relevant Ethnicity data.

<sup>5</sup>Family income was topcoded at \$25,000 or greater on the NHEFS.

<sup>6</sup>Health status was only asked of individuals in first wave of the NHANES 1 follow-up in 1982 (n=12,220).

**Selected characteristics of NHANES III participants linked to Social Security data by eligibility<sup>1</sup> and link<sup>2</sup> status: Unweighted**

	Total	Ineligible	Eligible Population		< 65 years <sup>3</sup>			65+ years <sup>3</sup>		
			Linked	Not linked	Ineligible	Linked	Not linked	Ineligible	Linked	Not linked
<b>Overall</b>	33,994	970	31,466	1,558	826	24,173	1,457	144	7,293	101
<b>Sex</b>										
Male	16,295	476	15,048	771	415	11,568	733	61	3,480	38
Female	17,699	494	16,418	787	411	12,605	724	83	3,813	63
<b>Race/ethnicity</b>										
NH White	13,085	338	12,560	187	259	8,212	154	79	4,348	33
NH Black	9,627	314	9,004	309	276	7,550	286	38	1,454	23
NH Other	586	15	537	34	13	462	29	2	75	5
Hispanic	10,696	303	9,365	1,028	278	7,949	988	25	1,416	40
<b>Education<sup>4</sup></b>										
< HS	7,114	135	6,683	296	54	2,673	221	81	4,010	75
HS	4,884	87	4,743	54	64	3,006	45	23	1,737	9
More than HS/Coll.	4,698	113	4,520	65	84	3,059	56	29	1,461	9
Unknown	188	13	160	15	2	75	7	11	85	8
<b>Family Income</b>										
< \$10,000	6,449	137	5,972	340	112	4,255	315	25	1,717	25
\$10-24,999	11,439	246	10,609	584	221	7,979	546	25	2,630	38
\$25-49,999	8,520	212	8,040	268	199	6,649	259	13	1,391	9
\$50,000+	4,171	127	3,966	78	118	3,319	72	9	647	6
Unknown	3,415	248	2,879	288	176	1,971	265	72	908	23
<b>Health Status</b>										
Excellent	8,500	296	7,908	296	283	7,150	292	13	758	4
Very Good	8,415	249	7,856	310	227	6,438	292	22	1,418	18
Good	10,941	264	10,103	574	222	7,644	539	42	2,459	35
Fair	4,992	142	4,514	336	88	2,613	313	54	1,901	23
Poor	1,131	18	1,071	42	6	325	21	12	746	21
Unknown	15	1	14	0	0	3	0	1	11	0
<b>Region</b>										
Northeast	4,638	197	4,257	184	163	2,962	167	34	1,295	17
Midwest	6,430	193	6,008	229	173	4,515	216	20	1,493	13
South	14,384	263	13,676	445	205	10,599	402	58	3,077	43
West	8,542	317	7,525	700	285	6,097	672	32	1,428	28

**Notes:**

<sup>1</sup>NHANES III respondents are ineligible for linking if they refused to provide their SSN at the time of interview or have missing information on key identifiers.

<sup>2</sup>Linked refers to linkage to the Social Security Numident file. Not all persons linked to the Numident file will have Social Security benefit information.

<sup>3</sup>Age is the participant's assumed age at the time of the linkage (July 1, 2001).

<sup>4</sup>Education population includes only respondents aged 25 or older.

**Selected characteristics of NNHS<sup>1</sup> participants linked to Social Security data by eligibility<sup>2</sup> and link<sup>3</sup> status: Unweighted**

	Total	Ineligible	Eligible Population		< 65 years <sup>4</sup>			65+ years <sup>4</sup>		
			Linked	Not linked	Ineligible	Linked	Not linked	Ineligible	Linked	Not linked
<b>Overall</b>	11,170	627	9,841	702	22	359	35	605	9,482	667
<b>Sex</b>										
Male	3,575	180	3,181	214	13	211	21	167	2,970	193
Female	7,595	447	6,660	488	9	148	14	438	6,512	474
<b>Race/ethnicity</b>										
NH White	4,645	262	4,126	257	11	133	15	251	3993	242
NH Black	358	20	319	19	2	20	1	18	299	18
NH Other	6014	336	5260	418	8	197	19	328	5063	399
Hispanic	153	9	136	8	1	9	0	8	127	8
<b>Health Status<sup>5</sup></b>										
Excellent	124	14	98	12	2	17	3	12	81	9
Good	1,800	100	1,609	91	5	87	6	95	1,522	85
Fair	2,279	129	2,017	133	4	37	5	125	1,980	128
Poor	848	44	768	36	3	19	0	41	749	36
Unknown	144	7	123	14	0	6	2	7	117	12
<b>Region</b>										
Northeast	2,437	122	2,134	181	10	62	8	112	2,072	173
Midwest	3,744	159	3,353	232		124	7	159	3,229	225
South	3,363	258	2,933	172	5	91	5	253	2,842	167
West	1,626	88	1,421	117	7	82	15	81	1,339	102

**Notes:**

<sup>1</sup>Participants of the NNHS were not asked questions regarding educational attainment or family income.

<sup>2</sup>NNHS respondents are ineligible for linking if they refused to provide their SSN at the time of interview or have missing information on key identifiers.

<sup>3</sup>Linked refers to linkage to the Social Security Numident file. Not all persons linked to the Numident file will have Social Security benefit information.

<sup>4</sup>Age is the participant's assumed age at the time of the linkage (July 1, 2001).

<sup>5</sup>Health Status was only collected for participants of the Current Resident Section of the NNHS.