

Sample Size and Non-response Information for NCHS Surveys Linked to Medicare Data by survey and age¹: Unweighted Data

	Total Person Sample	Sample Ineligible for Linking ²	Sample Eligible for Linking	Sample Linked to CMS Enrollment Database (EDB)	Link Rate for Total Sample (%)	Link Rate for Eligible Sample	Number of Respondents with Information on the Medicare Denominator File ^{3,4}
NHIS 1994	116,179	21,647	94,532	20,102	17.3%	21.3%	17,639
< 65 years	95,009	17,855	77,154	3,980	4.2%	5.2%	1,900
65+ years	21,170	3,792	17,378	16,122	76.2%	92.8%	15,739
NHIS 1995	102,467	21,039	81,428	15,758	15.4%	19.4%	13,788
< 65 years	85,874	17,829	68,045	3,342	3.9%	4.9%	1,631
65+ years	16,593	3,210	13,383	12,416	74.8%	92.8%	12,157
NHIS 1996	63,402	16,035	47,367	8,717	13.7%	18.4%	7,562
< 65 years	53,963	13,937	40,026	1,954	3.6%	4.9%	959
65+ years	9,439	2,098	7,341	6,763	71.6%	92.1%	6,603
NHIS 1997	103,477	33,125	70,352	12,380	12.0%	17.6%	10,658
< 65 years	88,819	28,620	60,199	2,871	3.2%	4.8%	1,396
65+ years	14,653	4,504	10,149	9,505	64.9%	93.7%	9,262
NHIS 1998	98,785	37,913	60,872	9,766	9.9%	16.0%	8,360
< 65 years	85,281	32,467	52,814	2,321	2.7%	4.4%	1,143
65+ years	13,504	5,446	8,058	7,445	55.1%	92.4%	7,217
LSOA II⁵	9,447	1,923	7,524	7,235	76.6%	96.2%	7,114
NHEFS⁶	14,407	959	13,448	9,028	62.7%	67.1%	5,577
< 65 years	4,050	227	3,823	858	21.2%	22.4%	265
65+ years	10,357	732	9,625	8,170	78.9%	84.9%	5,312
NHANES II⁷	9,252	2	9,250	6,004	64.9%	64.9%	4,309
< 65 years	2,123	0	2,123	229	10.8%	10.8%	141
65+ years	7,129	2	7,127	5,775	81.0%	81.0%	4,168
NHANES III	33,994	970	33,024	8,281	24.4%	25.1%	7,484
< 65 years	26,456	826	25,630	1,194	4.5%	4.7%	608
65+ years	7,538	144	7,394	7,087	94.0%	95.8%	6,876

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

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

³Not all persons linked to the EDB will have Medicare claims information.

⁴Linkages to the Denominator file could be in any or multiple years from 1991-2000.

⁵All persons in LSOA II are older than 65 years.

⁶NHEFS = NHANES I Epidemiologic Follow Up Study.

⁷Only the NHANES II participants who were aged 30 years and older and who agreed to a physical examination are included.

Selected characteristics of 1994 NHIS participants linked to Medicare by eligibility¹ and link² status: Unweighted

	Total	Ineligible	Eligible Population		< 65 years ³			65+ years ³		
			Linked	Not linked	Ineligible	Linked	Not linked	Ineligible	Linked	Not linked
Overall	116,179	21,647	20,102	74,430	17,855	3,980	73,174	3,792	16,122	1,256
Sex										
Male	55,364	10,255	8,939	36,170	8,692	1,994	35,661	1,563	6,945	509
Female	60,815	11,392	11,163	38,260	9,163	1,986	37,513	2,229	9,177	747
Race/ethnicity										
NH White	83,522	15,167	16,386	51,969	12,076	3,012	51,206	3,091	13,374	763
NH Black	16,156	3,607	2,302	10,247	3,128	618	9,990	479	1,684	257
NH Other	4,790	906	440	3,444	831	114	3,337	75	326	107
Hispanic	11,711	1,967	974	8,770	1,820	236	8,641	147	738	129
Education⁴										
< HS	14,664	2,322	6,688	5,654	1,215	962	5,158	1,107	5,726	496
HS	26,804	5,109	7,359	14,339	3,658	1,570	13,965	1,451	5,786	374
More than HS/Coll.	30,953	6,190	5,654	19,109	5,091	1,237	18,838	1,099	4,417	271
Unknown	1,230	396	240	594	261	47	479	135	193	115
Family Income										
< \$10,000	10,903	1,148	2,622	7,133	909	500	6,955	239	2,122	178
\$10-24,999	25,818	3,245	6,554	16,019	2,475	1,074	15,754	770	5,480	265
\$25-49,999	33,670	4,813	5,056	23,801	4,274	1,140	23,576	539	3,916	225
\$50,000+	25,766	4,471	2,663	18,632	4,099	777	18,489	372	1,886	143
Unknown	20,022	7,970	3,207	8,845	6,098	489	8,400	1,872	2,718	445
Health Status										
Excellent	43,095	8,250	3,590	31,255	7,590	745	31,078	660	2,845	177
Very Good	32,622	6,289	4,510	21,823	5,336	766	21,583	953	3,744	240
Good	27,281	4,905	6,355	16,021	3,676	1,174	15,633	1,229	5,181	388
Fair	8,743	1,429	3,561	3,753	794	766	3,488	635	2,795	265
Poor	3,486	545	1,968	973	262	502	796	283	1,466	177
Unknown	952	229	118	605	197	27	596	32	91	9
Region										
Northeast	23,228	4,414	4,299	14,515	3,613	799	14,217	801	3,503	298
Midwest	29,149	5,395	5,194	18,560	4,419	980	18,312	976	4,210	248
South	38,048	6,468	6,906	24,674	5,262	1,491	24,206	1,206	5,420	468
West	25,754	5,370	3,703	16,681	4,561	710	16,439	809	2,994	242

Notes:

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

²Linked refers to linkage to the Medicare Enrollment Database (EDB). Not all persons linked to the EDB will have Medicare Claims information.

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

⁴Education population is restricted to persons 25 years and older.

NHIS respondents, 65 years and older, linked to Medicare Master Enrollment Files by sociodemographic and health characteristics: NHIS years 1994

	1994		
	Match Sample ¹	Proportion Linked ²	SE
Overall	16,122		
Age³			
65-74 (referent)	6,991	0.744	0.007
75-84	5,924	0.783 ***	0.006
85+	3,207	0.781 ***	0.008
Sex			
Male (referent)	6,945	0.772	0.006
Female	9,177	0.759 **	0.005
Race/ethnicity			
NH White (referent)	13,374	0.770	0.006
NH Black	1,684	0.736 **	0.011
NH Other	326	0.718	0.030
Hispanic	738	0.761	0.016
US Born⁴			
Yes (referent)	14,925	0.770	0.005
No	1,197	0.711 ***	0.013
Marital Status			
Married (referent)	2,718	0.563 ***	0.010
Not married	13,404	0.829	0.005
Education			
< HS	9,959	0.760	0.006
HS (referent)	6,163	0.772	0.006
More than HS			
Unknown	5,726	0.789 ***	0.007
Family Income⁵	5,786	0.757	0.007
< \$10,000	4,417	0.756	0.007
\$10-\$24,999 (referent)	193	0.631 ***	0.025
\$25-\$49,999			
\$50,000 +	2,590	0.778	0.009
Reported Unknown Income	6,764	0.776	0.007
Yes	4,620	0.763	0.008
No (referent)	2,148	0.720 ***	0.011
Self Reported Health			
Excellent/Very Good/Good (referent)	11,770	---	---
Fair/Poor	4,261	---	---
Unknown	91	---	---
Activity Limitation			
Yes	5,945	0.786 ***	0.006
No (referent)	10,177	0.753	0.006
Private Health Insurance			
Yes (referent)	11,942	0.797	0.006
No	4,180	0.688 ***	0.008
Region			
South (referent)	5,415	---	---
Northeast	3,500	---	---
Midwest	4,214	---	---
West	2,993	---	---

Notes:

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

¹Matched sample refers to linkages with CMS Master Enrollment Database (EDB). Unweighted data.

²Adjusted proportions and the standard errors are based upon a logistic regression model predicting the probability of being linked. Analyses used the SUDAAN software, which accounts for survey design effects and weighted data.

³Age is assumed age at time of linkage, July 1, 2001

⁴US born includes the U.S. territories

⁵Family 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 Medicare by eligibility¹ and link² status: Unweighted

	Total	Eligible Population			< 65 years ³			65+ years ³		
		Ineligible	Linked	Not linked	Ineligible	Linked	Not linked	Ineligible	Linked	Not linked
Overall	102,467	21,039	15,758	65,670	17,829	3,342	64,703	3,210	12,416	967
Sex										
Male	48,809	9,984	7,065	31,760	8,630	1,679	31,367	1,354	5,386	393
Female	53,658	11,055	8,693	33,910	9,199	1,663	33,336	1,856	7,030	574
Race/ethnicity										
NH White	64,594	12,658	12,114	39,822	10,161	2,293	39,304	2,497	9,821	518
NH Black	13,323	3,495	1,665	8,163	3,147	520	7,995	348	1,145	168
NH Other	3,711	762	356	2,593	681	80	2,525	81	276	68
Hispanic	20,839	4,124	1,623	15,092	3,840	449	14,879	284	1,174	213
Education⁴										
< HS	13,560	2,233	5,448	5,879	1,299	941	5,450	934	4,507	429
HS	22,876	4,854	5,639	12,383	3,597	1,250	12,145	1,257	4,389	238
More than HS/Coll.	26,162	5,709	4,404	16,049	4,805	994	15,843	904	3,410	206
Unknown	1,060	364	146	550	249	36	456	115	110	94
Family Income										
< \$10,000	9,558	1,115	2,184	6,259	911	472	6,104	204	1,712	155
\$10-24,999	23,962	3,422	5,233	15,307	2,786	1,001	15,072	636	4,232	235
\$25-49,999	29,269	4,817	4,050	20,402	4,325	914	20,247	492	3,136	155
\$50,000+	22,944	4,426	2,230	16,288	4,094	622	16,170	332	1,608	118
Unknown	16,734	7,259	2,061	7,414	5,713	333	7,110	1,546	1,728	304
Health Status										
Excellent	36,442	7,626	2,638	26,178	7,092	558	26,052	534	2,080	126
Very Good	29,116	6,285	3,450	19,381	5,495	623	19,210	790	2,827	171
Good	24,830	4,993	4,888	14,949	3,928	910	14,639	1,065	3,978	310
Fair	7,868	1,364	3,049	3,455	830	699	3,255	534	2,350	200
Poor	3,021	474	1,620	927	230	528	785	244	1,092	142
Unknown	1,190	297	113	780	254	24	762	43	89	18
Region										
Northeast	19,818	4,548	3,131	12,139	3,824	615	11,923	724	2,516	216
Midwest	22,265	4,583	3,737	13,945	3,774	740	13,782	809	2,997	163
South	35,896	5,937	5,931	24,028	4,977	1,413	23,668	960	4,518	360
West	24,488	5,971	2,959	15,558	5,254	574	15,330	717	2,385	228

Notes:

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⁴Education population is restricted to persons 25 years and older.

NHIS respondents, 65 years and older, linked to Medicare Master Enrollment Files by sociodemographic and health characteristics: NHIS years 1995

	1995		
	Match Sample ¹	Proportion Linked ²	SE
Overall	12,416		
Age³			
65-74 (referent)	5,604	0.734	0.006
75-84	4,621	0.771 ***	0.007
85+	2,191	0.760 *	0.010
Sex			
Male (referent)	5,386	0.758	0.006
Female	7,030	0.747 *	0.006
Race/ethnicity			
NH White (referent)	9,821	0.758	0.005
NH Black	1,145	0.706 **	0.014
NH Other	276	0.734	0.024
Hispanic	1,174	0.738	0.014
US Born⁴			
Yes (referent)	11,184	0.758	0.005
No	1,232	0.694 ***	0.014
Marital Status			
Married (referent)	1,728	0.501 ***	0.012
Not married	10,688	0.821	0.005
Education			
< HS	7,624	0.746	0.006
HS (referent)	4,792	0.761	0.007
More than HS			
Unknown	4,507	0.772 **	0.007
Family Income⁵	4,389	0.745	0.007
< \$10,000	3,410	0.748	0.008
\$10-\$24,999 (referent)	110	0.588 ***	0.034
\$25-\$49,999			
\$50,000 +	2,036	0.767	0.010
Reported Unknown Income	5,041	0.758	0.007
Yes	3,548	0.753	0.008
No (referent)	1,791	0.719 **	0.012
Self Reported Health			
Excellent/Very Good/Good (referent)	8,885	---	---
Fair/Poor	3,442	---	---
Unknown	89	---	---
Activity Limitation			
Yes	4,627	0.780 ***	0.006
No (referent)	7,789	0.736	0.006
Private Health Insurance			
Yes (referent)	8,920	0.780	0.006
No	3,496	0.687 ***	0.009
Region			
South (referent)	4,518	0.775	0.008
Northeast	2,516	0.731 **	0.010
Midwest	2,997	0.745 *	0.010
West	2,385	0.741 **	0.010

Notes:

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

¹Matched sample refers to linkages with CMS Master Enrollment Database (EDB). Unweighted data.

²Adjusted proportions and the standard errors are based upon a logistic regression model predicting the probability of being linked. Analyses used the SUDAAN software, which accounts for survey design effects and weighted data.

³Age is assumed age at time of linkage, July 1, 2001

⁴US born includes the U.S. territories

⁵Family 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 Medicare by eligibility¹ and link² status: Unweighted

	Total	Ineligible	Eligible Population		< 65 years ³			65+ years ³		
			Linked	Not linked	Ineligible	Linked	Not linked	Ineligible	Linked	Not linked
Overall	63,402	16,035	8,717	38,650	13,937	1,954	38,072	2,098	6,763	578
Sex										
Male	30,358	7,617	3,935	18,806	6,765	970	18,578	852	2,965	228
Female	33,044	8,418	4,782	19,844	7,172	984	19,494	1,246	3,798	350
Race/ethnicity										
NH White	39,443	9,289	6,658	23,946	7,729	1,352	23,169	1,560	5,306	327
NH Black	8,715	2,721	1,046	4,948	2,453	301	4,862	268	745	86
NH Other	2,119	610	153	1,356	575	50	1,310	35	103	46
Hispanic	13,125	3,415	860	8,850	3,180	251	8,731	235	609	119
Education⁴										
< HS	8,353	1,755	2,982	3,616	1,066	523	3,367	689	2,459	249
HS	13,984	3,581	3,067	7,336	2,814	744	7,178	767	2,323	158
More than HS/Coll.	16,604	4,379	2,516	9,709	3,810	594	9,591	569	1,922	118
Unknown	765	321	95	349	248	36	296	73	59	53
Family Income										
< \$10,000	5,447	894	1,100	3,453	749	267	3,384	145	833	69
\$10-24,999	14,538	2,491	2,931	9,116	2,078	583	8,971	413	2,348	145
\$25-49,999	17,463	3,687	2,295	11,481	3,368	535	11,386	319	1,760	95
\$50,000+	15,137	3,468	1,232	10,437	3,241	360	10,353	227	872	84
Unknown	10,817	5,495	1,159	4,163	4,501	209	3,978	994	950	185
Health Status										
Excellent	22,720	5,793	1,442	15,485	5,438	301	15,397	355	1,141	88
Very Good	18,116	4,821	1,901	11,394	4,333	332	11,282	488	1,569	112
Good	15,237	3,765	2,737	8,735	3,073	586	8,549	692	2,151	186
Fair	4,899	1,082	1,724	2,093	690	437	1,985	392	1,287	108
Poor	1,697	327	840	530	185	283	453	142	557	77
Unknown	733	247	73	413	218	15	406	29	58	7
Region										
Northeast	12,500	3,318	1,782	7,400	2,829	345	7,526	489	1,437	144
Midwest	13,606	3,623	1,905	8,078	3,102	422	7,994	521	1,483	84
South	21,982	4,910	3,287	13,785	4,221	804	13,563	689	2,483	222
West	15,314	4,184	1,743	9,387	3,785	383	9,259	399	1,360	128

Notes:

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²Linked refers to linkage to the Medicare Enrollment Database (EDB). Not all persons linked to the EDB will have Medicare Claims information.

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

⁴Education population is restricted to persons 25 years and older.

NHIS respondents, 65 years and older, linked to Medicare Master Enrollment Files by sociodemographic and health characteristics: NHIS years 1996

	1996		
	Match Sample ¹	Proportion Linked ²	SE
Overall	6,763		
Age³			
65-74 (referent)	3137	0.699	0.010
75-84	2486	0.735 **	0.011
85+	1140	0.757 **	0.016
Sex			
Male (referent)	2965	0.734	0.009
Female	3798	0.713 **	0.009
Race/ethnicity			
NH White (referent)	5306	0.728	0.009
NH Black	745	0.693 *	0.017
NH Other	103	0.683	0.042
Hispanic	609	0.691	0.021
US Born⁴			
Yes (referent)	6116	0.731	0.009
No	647	0.634 ***	0.020
Marital Status			
Married (referent)	950	0.460 ***	0.018
Not married	5813	0.799	0.007
Education			
< HS	4119	0.727	0.010
HS (referent)	2644	0.714	0.010
More than HS			
Unknown	2459	0.731	0.011
Family Income⁵	2323	0.712	0.011
< \$10,000	1922	0.734	0.011
\$10-\$24,999 (referent)	59	0.555 ***	0.043
\$25-\$49,999			
\$50,000 +	1014	0.761	0.016
Reported Unknown Income	2771	0.736	0.011
Yes	1998	0.716	0.011
No (referent)	986	0.660 ***	0.017
Self Reported Health			
Excellent/Very Good/Good (referent)	4861	---	---
Fair/Poor	1844	---	---
Unknown	58	---	---
Activity Limitation			
Yes	2520	0.750 ***	0.011
No (referent)	4243	0.707	0.009
Private Health Insurance			
Yes (referent)	4828	0.747	0.009
No	1935	0.663 ***	0.013
Region			
South (referent)	2483	---	---
Northeast	1437	---	---
Midwest	1483	---	---
West	1360	---	---

Notes:

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

¹Matched sample refers to linkages with CMS Master Enrollment Database (EDB). Unweighted data.

²Adjusted proportions and the standard errors are based upon a logistic regression model predicting the probability of being linked.

Analyses used the SUDAAN software, which accounts for survey design effects and weighted data.

³Age is assumed age at time of linkage, July 1, 2001

⁴US born includes the U.S. territories

⁵Family 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 Medicare by eligibility¹ and link² status: Unweighted

	Total	Eligible Population			< 65 years ³			65+ years ³		
		Ineligible	Eligible Population		Ineligible	Eligible Population		Ineligible	Eligible Population	
			Linked	Not linked		Linked	Not linked		Linked	Not linked
Overall	103,477	33,125	12,380	57,972	28,620	2,871	57,328	4,505	9,509	644
Sex										
Male	49,561	15,802	5,567	28,192	13,996	1,448	27,944	1,806	4,119	248
Female	53,906	17,323	6,813	29,780	14,625	1,427	29,384	2,698	5,386	396
Race/ethnicity										
NH White	62,857	19,012	9,449	34,396	15,639	1,938	34,045	3,373	7,511	351
NH Black	14,662	5,605	1,436	7,621	5,056	461	7,493	549	975	128
NH Other	4,084	1,544	262	2,278	1,409	84	2,237	135	178	41
Hispanic	21,874	6,964	1,233	13,677	6,517	392	13,553	447	841	124
Education⁴										
< HS	14,257	3,997	4,381	5,879	2,618	851	5,574	1,379	3,530	305
HS	19,251	6,287	3,837	9,127	4,851	916	8,955	1,436	2,921	172
More than HS/Coll.	29,765	9,458	3,976	16,331	8,120	1,013	16,199	1,338	2,963	132
Unknown	1,550	1,159	114	277	808	23	242	351	91	35
Family Income										
< \$10,000	8,093	1,594	1,638	4,861	1,378	437	4,759	216	1,201	102
\$10-24,999	17,926	3,492	3,527	10,907	2,903	658	10,756	589	2,869	151
\$25-49,999	23,876	5,496	2,856	15,524	5,014	704	15,412	482	2,152	112
\$50,000+	27,698	6,950	1,967	18,781	6,568	641	18,698	382	1,326	83
Unknown	25,884	15,593	2,392	7,899	12,758	435	7,703	2,835	1,957	196
Health Status										
Excellent	37,918	12,128	1,781	24,009	11,495	406	23,931	633	1,375	78
Very Good	30,900	10,402	2,877	17,621	9,267	519	17,501	1,135	2,358	120
Good	24,468	7,665	4,058	12,745	6,102	871	12,538	1,563	3,187	207
Fair	7,275	2,057	2,509	2,709	1,257	692	2,570	800	1,817	139
Poor	2,378	643	1,127	608	306	380	512	337	747	96
Unknown	538	230	28	280	194	7	276	36	21	4
Region										
Northeast	19,338	6,629	2,478	10,231	5,676	548	10,095	953	1,930	136
Midwest	22,525	6,784	2,907	12,834	5,734	633	12,718	1,050	2,274	116
South	36,812	10,778	4,696	21,338	9,240	1,164	21,064	1,538	3,532	274
West	24,802	8,934	2,299	13,569	7,971	530	13,451	963	1,769	118

Notes:

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

²Linked refers to linkage to the Medicare Enrollment Database (EDB). Not all persons linked to the EDB will have Medicare Claims information.

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

⁴Education population is restricted to persons 25 years and older.

NHIS respondents, 65 years and older, linked to Medicare Master Enrollment Files by sociodemographic and health characteristics: NHIS years 1997

	1997		
	Match Sample ¹	Proportion Linked ²	SE
Overall	9,505		
Age³			
65-74 (referent)	4,574	0.649	0.007
75-84	3,499	0.668 *	0.008
85+	1,432	0.659	0.012
Sex			
Male (referent)	4,119	0.668	0.007
Female	5,386	0.649 **	0.006
Race/ethnicity			
NH White (referent)	7,511	0.666	0.006
NH Black	975	0.612 ***	0.015
NH Other	178	0.579 **	0.034
Hispanic	841	0.619 *	0.018
US Born⁴			
Yes (referent)	8,510	0.663	0.006
No	995	0.604 ***	0.016
Marital Status			
Married (referent)	5,450	0.661	0.008
Not married	4,055	0.652	0.007
Education			
< HS	3,530	0.682 **	0.009
HS (referent)	2,921	0.648	0.008
More than HS	2,963	0.664	0.008
Unknown	91	0.390 ***	0.031
Family Income⁵			
< \$10,000	1,493	0.692	0.013
\$10-\$24,999 (referent)	3,636	0.669	0.009
\$25-\$49,999	2,700	0.647	0.010
\$50,000 +	1,676	0.625 **	0.013
Reported Unknown Income			
Yes	1,957	0.416	0.010
No (referent)	7,548	0.781 ***	0.006
Self Reported Health⁶			
Excellent/Very Good/Good (referent)	6,920	0.664	0.006
Fair/Poor	2,564	0.636 **	0.010
Unknown	21	0.720	0.065
Activity Limitation			
Yes	3,696	0.696 ***	0.008
No (referent)	5,809	0.636	0.007
Private Health Insurance			
Yes (referent)	6,654	0.680	0.007
No	2,851	0.601 ***	0.010
Region			
South (referent)	3,532	---	---
Northeast	1,930	---	---
Midwest	2,274	---	---
West	1,769	---	---

Notes:

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

¹Matched sample refers to linkages with CMS Master Enrollment Database (EDB). Unweighted data.

²Adjusted proportions and the standard errors are based upon a logistic regression model predicting the probability of being linked.

Analyses used the SUDAAN software, which accounts for survey design effects and weighted data.

³Age is assumed age at time of linkage, July 1, 2001

⁴US born includes the U.S. territories

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

⁶Self-reported health was only a statistically significant variable in 1997

Selected characteristics of 1998 NHIS participants linked to Medicare by eligibility¹ and link² status: Unweighted

	Total	Ineligible	Eligible Population		< 65 years ³			65+ years ³		
			Linked	Not linked	Eligible Population			Eligible Population		
					Ineligible	Linked	Not linked	Ineligible	Linked	Not linked
Overall	98,785	37,913	9,766	51,106	32,467	2,309	50,493	5,446	7,457	613
Sex										
Male	47,735	18,238	4,439	25,058	15,981	1,147	24,799	2,257	3,292	259
Female	51,050	19,675	5,327	26,048	16,486	1,174	25,694	3,189	4,153	354
Race/ethnicity										
NH White	59,999	22,767	7,357	29,875	18,558	1,580	29,547	4,209	5,777	328
NH Black	13,642	5,804	1,087	6,751	5,212	358	6,624	592	729	127
NH Other	3,895	1,626	245	2,024	1,462	50	1,989	164	195	35
Hispanic	21,249	7,716	1,077	12,456	7,235	333	12,333	481	744	123
Education⁴										
< HS	12,701	4,387	3,240	5,074	2,788	651	4,782	1,599	2,589	292
HS	18,325	7,152	3,099	8,074	5,419	737	7,926	1,733	2,362	148
More than HS/Coll.	28,836	10,830	3,261	14,745	9,231	840	14,613	1,599	2,421	132
Unknown	2,256	1,838	95	323	1,323	22	282	515	73	41
Family Income										
< \$10,000	6,323	1,438	1,198	3,687	1,164	312	3,596	274	886	91
\$10-24,999	15,189	3,798	2,615	8,776	2,992	503	8,645	806	2,112	131
\$25-49,999	21,180	5,830	2,315	13,035	5,280	603	12,945	550	1,712	90
\$50,000+	27,155	8,025	1,647	17,483	7,613	502	17,405	412	1,145	78
Unknown	28,938	18,822	1,991	8,125	15,418	401	7,902	3,404	1,590	223
Health Status										
Excellent	36,323	13,531	1,375	21,417	12,762	299	21,338	769	1,076	79
Very Good	29,997	11,990	2,220	15,787	10,659	400	15,677	1,331	1,820	110
Good	22,818	8,836	3,144	10,838	6,917	666	10,643	1,919	2,478	195
Fair	6,798	2,252	2,092	2,454	1,324	598	2,300	928	1,494	154
Poor	2,309	834	918	557	410	353	486	424	565	71
Unknown	540	470	17	53	395	5	49	75	12	4
Region										
Northeast	18,079	7,400	1,970	8,709	6,241	441	8,579	1,159	1,529	130
Midwest	21,347	7,966	2,148	11,233	6,694	522	11,122	1,272	1,626	111
South	35,029	12,135	3,720	19,174	10,284	947	18,917	1,851	2,773	257
West	24,330	10,412	1,928	11,990	9,248	411	11,875	1,164	1,517	115

Notes:

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

²Linked refers to linkage to the Medicare Enrollment Database (EDB). Not all persons linked to the EDB will have Medicare Claims information.

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

⁴Education population is restricted to persons 25 years and older.

NHIS respondents, 65 years and older, linked to Medicare Master Enrollment Files by sociodemographic and health characteristics: NHIS years 1998

	1998		
	Match Sample ¹	Proportion Linked ²	SE
Overall	7,445		
Age³			
65-74 (referent)	3,827	0.558	0.008
75-84	2,605	0.556	0.009
85+	1,013	0.544	0.014
Sex			
Male (referent)	3,292	0.564	0.007
Female	4,153	0.549 *	0.007
Race/ethnicity			
NH White (referent)	5,777	0.558	0.007
NH Black	729	0.524 *	0.016
NH Other	195	0.532	0.030
Hispanic	744	0.585	0.018
US Born⁴			
Yes (referent)	6,653	0.563	0.007
No	792	0.489 ***	0.017
Marital Status			
Married (referent)	4,343	0.555	0.009
Not married	3,102	0.557	0.008
Education			
< HS	2,589	0.567	0.010
HS (referent)	2,362	0.559	0.009
More than HS	2,421	0.572	0.010
Unknown	73	0.258 ***	0.027
Family Income⁵			
< \$10,000	1,120	0.574	0.015
\$10-\$24,999 (referent)	2,478	0.549	0.010
\$25-\$49,999	2,182	0.554	0.011
\$50,000 +	1,444	0.559	0.014
Reported Unknown Income			
Yes	1,590	0.323 ***	0.009
No (referent)	5,855	0.699	0.007
Self Reported Health			
Excellent/Very Good/Good (referent)	5,374	---	---
Fair/Poor	2,059	---	---
Unknown	12	---	---
Activity Limitation			
Yes	2,807	0.596 ***	0.009
No (referent)	4,638	0.535	0.008
Private Health Insurance			
Yes (referent)	5,028	0.572	0.007
No	2,417	0.520 ***	0.010
Region			
South (referent)	2,773	---	---
Northeast	1,529	---	---
Midwest	1,626	---	---
West	1,517	---	---

Notes:

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

¹Matched sample refers to linkages with CMS Master Enrollment Database (EDB). Unweighted data.

²Adjusted proportions and the standard errors are based upon a logistic regression model predicting the probability of being linked. Analyses used the SUDAAN software, which accounts for survey design effects and weighted data.

³Age is assumed age at time of linkage, July 1, 2001

⁴US born includes the U.S. territories

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

Selected characteristics of LSOA2 participants linked to Medicare by eligibility¹ and link² status: Unweighted

	Total	Ineligible	<u>Eligible Population³</u>	
			Linked	Not linked
Overall	9,447	1,923	7,235	289
Sex				
Male	3,744	723	2,910	111
Female	5,703	1,200	4,325	178
Race/ethnicity				
NH White	7,754	1,556	6,021	177
NH Black	979	208	718	53
NH Other	262	55	175	32
Hispanic	452	104	321	27
Education				
< HS	3,792	832	2,838	122
HS	3,152	640	2,443	69
More than HS/Coll.	2,310	405	1,834	71
Unknown	193	46	120	27
Family Income				
< \$10,000	1,433	258	1,132	43
\$10-24,999	3,303	631	2,609	63
\$25-49,999	1,711	288	1,393	30
\$50,000+	703	126	555	22
Unknown	2,297	620	1,546	131
Health Status				
Excellent	1,338	279	1,024	35
Very Good	2,145	465	1,619	61
Good	3,242	669	2,486	87
Fair	1,826	366	1,394	66
Poor	841	131	675	35
Unknown	55	13	37	5
Region				
Northeast	2,118	501	1,553	64
Midwest	2,505	478	1,958	69
South	3,051	597	2,358	96
West	1,773	347	1,366	60

Notes:

¹LSOAI respondents are ineligible for linking if they refused to provide their SSN or Medicare number at the time of interview or have missing information on key identifiers.

²Linked refers to linkage to the Medicare Enrollment Database (EDB). Not all persons linked to the EDB will have Medicare Claims information.

³All participant's assumed age at the time of the linkage (July 1, 2001) was 65 years and older.

Selected characteristics of NHEFS participants linked to Medicare by eligibility¹ and link² status: Unweighted

	Total	Ineligible	Eligible Population		< 65 years ³			65+ years ³		
			Linked	Not linked	Ineligible	Linked	Not linked	Ineligible	Linked	Not linked
Overall	14,407	959	9,028	4,420	227	858	2,965	732	8,170	1,455
Sex										
Male	5,810	379	3,750	1,681	85	269	946	294	3,481	735
Female	8,597	580	5,278	2,739	142	589	2,019	438	4,689	720
Race/ethnicity⁴										
White	12,053	765	7,769	3,519	181	716	2,500	584	7,053	1,019
Black	2,195	179	1,183	833	43	132	414	136	1,051	419
Other	159	15	76	68	3	10	51	12	66	17
Education										
< HS	6,618	497	4,502	1,619	75	262	701	422	4,240	918
HS	4,420	250	2,644	1,526	76	364	1,217	174	2,280	309
More than HS/Coll.	3,264	203	1,823	1,238	75	230	1,032	128	1,593	206
Unknown	105	9	59	37	1	2	15	8	57	22
Family Income⁵										
< \$10,000	8,139	514	5,246	2,379	97	403	1,381	417	4,843	998
\$10-24,999	5,098	340	3,021	1,737	117	394	1,393	223	2,627	344
\$25,000+	623	40	428	155	6	31	114	34	397	41
Unknown	547	65	333	149	7	30	77	58	303	72
Health Status⁶										
Excellent	2,106	62	1,220	824	28	208	770	34	1,012	54
Very Good	2,727	130	1,771	826	34	226	761	96	1,545	65
Good	2,966	140	2,250	576	22	214	485	118	2,036	91
Fair	1,645	118	1,303	224	15	95	149	103	1,208	75
Poor	688	33	575	80	5	34	42	28	541	38
Unknown	2,088	13	1,402	673	3	17	92	10	1,385	581
Region										
Northeast	3,234	243	1,969	1,022	53	169	699	190	1,800	323
Midwest	3,493	239	2,181	1,073	53	229	788	186	1,952	285
South	3,833	223	2,480	1,130	55	242	677	168	2,238	453
West	3,847	254	2,398	1,195	66	218	801	188	2,180	394

Notes:

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

²Linked refers to linkage to the Medicare Enrollment Database (EDB). Not all persons linked to the EDB will have Medicare Claims information.

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

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

⁵Family income was topcoded at \$25,000 or greater on the NHEFS

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

Selected characteristics of NHANES II participants linked to Medicare by eligibility¹ and link² status: Unweighted

	Total	Ineligible	Eligible Population		< 65 years ³			65+ years ³		
			Linked	Not linked	Ineligible	Linked	Not linked	Ineligible	Linked	Not linked
Overall	9,252	2	6,004	3,246	0	229	1,894	2	5,775	1,352
Sex										
Male	4,349	0	2,874	1,475	0	126	870	0	2,748	605
Female	4,903	2	3,130	1,771	0	103	1,024	2	3,027	747
Race/ethnicity⁴										
NH White	7,727	2	5,165	2,560	0	180	1,554	2	4,985	1,006
NH Black	983	0	546	437	0	27	203	0	519	234
NH Other	131	0	77	54	0	1	30	0	76	24
Hispanic	411	0	216	195	0	21	107	0	195	88
Education										
< HS	4,123	2	2,973	1,148	0	102	457	2	2,871	691
HS	2,784	0	1,705	1,079	0	80	699	0	1,625	380
More than HS/Coll.	2,251	0	1,263	988	0	44	729	0	1,219	259
Unknown	94	0	63	31	0	3	9	0	60	22
Family Income⁵										
< \$10,000	3,784	2	2,758	1,024	0	82	442	2	2,676	582
\$10-24,999	3,904	0	2,302	1,602	0	116	1,067	0	2,186	535
\$25,000+	1,181	0	691	490	0	27	334	0	664	156
Unknown	383	0	253	130	0	4	51	0	249	79
Health Status										
Excellent	1,763	0	919	844	0	42	647	0	877	197
Very Good	2,057	0	1,226	831	0	49	575	0	1,177	256
Good	2,774	1	1,846	927	0	78	504	1	1,768	423
Fair	1,785	1	1,342	442	0	44	137	1	1,298	305
Poor	854	0	659	195	0	16	29	0	643	166
Unknown	19	0	12	7	0	0	2	0	12	5
Region										
Northeast	2,124	2	1,362	760	0	54	440	2	1,308	320
Midwest	2,376	0	1,573	803	0	57	518	0	1,516	285
South	2,526	0	1,601	925	0	69	493	0	1,532	432
West	2,226	0	1,468	758	0	49	443	0	1,419	315

Notes:

¹NHANES II respondents are ineligible for linking if they refused to provide their SSN or Medicare number at the time of interview or have missing information on key identifiers.

²Linked refers to linkage to the Medicare Enrollment Database (EDB). Not all persons linked to the EDB will have Medicare Claims information.

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

⁴The Race/Ethnicity of the respondent was marked by observation. If the appropriate category could not be marked by observation, then race was asked.

⁵Family income was topcoded at \$25,000 or greater on NHANES II

Selected characteristics of NHANES III participants linked to Medicare by eligibility¹ and link² status: Unweighted

	Total	Ineligible	Eligible Population		< 65 years ³			65+ years ³		
			Linked	Not linked	Ineligible	Linked	Not linked	Ineligible	Linked	Not linked
Overall	33,994	970	8,281	24,743	826	1,194	24,436	144	7,087	307
Sex										
Male	16,295	476	3,994	11,825	415	606	11,695	61	3,388	130
Female	17,699	494	4,287	12,918	411	588	12,741	83	3,699	177
Race/ethnicity										
NH White	13,085	338	4,752	7,995	259	474	7,892	79	4,278	103
NH Black	9,627	314	1,814	7,499	276	423	7,413	38	1,391	86
NH Other	586	15	85	486	13	17	474	2	68	12
Hispanic	10,696	303	1,630	8,763	278	280	8,657	25	1,350	106
Education⁴										
< HS	7,114	135	4,342	2,637	54	451	2,443	81	3,891	194
HS	4,884	87	2,077	2,720	64	387	2,664	23	1,690	56
More than HS/Coll.	4,698	113	1,667	2,918	84	243	2,872	29	1,424	46
Unknown	188	13	94	81	2	12	70	11	82	11
Family Income										
< \$10,000	6,449	137	1,882	4,430	112	223	4,347	25	1,659	83
\$10-24,999	11,439	246	2,980	8,213	221	412	8,113	25	2,568	100
\$25-49,999	8,520	212	1,655	6,653	199	304	6,604	13	1,351	49
\$50,000+	4,171	127	790	3,254	118	155	3,236	9	635	18
Unknown	3,415	248	974	2,193	176	100	2,136	72	874	57
Health Status										
Excellent	8,500	296	874	7,330	283	134	7,308	13	740	22
Very Good	8,415	249	1,615	6,551	227	226	6,504	22	1,389	47
Good	10,941	264	2,831	7,846	222	440	7,743	42	2,391	103
Fair	4,992	142	2,119	2,731	88	288	2,638	54	1,831	93
Poor	1,131	18	831	282	6	106	240	12	725	42
Unknown	15	1	11	3	0	0	3	1	11	0
Region										
Northeast	4,638	197	1,442	2,999	163	180	2,949	34	1,262	50
Midwest	6,430	193	1,673	4,564	173	206	4,525	20	1,467	39
South	14,384	263	3,550	10,571	205	558	10,443	58	2,992	128
West	8,542	317	1,616	6,609	285	250	6,519	32	1,366	90

Notes:

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

²Linked refers to linkage to the Medicare Enrollment Database (EDB). Not all persons linked to the EDB will have Medicare Claims information.

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

⁴Education population includes only respondents aged 25 or older