

NHGRI Office of Population Genomics Cohort Study Summary Table (see Notes below)

Study	Total No. Subjects	No. Females	Age at Entry	Year Initiated	US Race/ethnicity	Primary Disease Endpoint	Traits/Env Exp					Stored Samples (1000s)					
							No. Physical Exams	Anthropometry	Diet	Physical Activity	Socioeconomic Stat	Medications	Serum/Plasma	Blood DNA	Buccal DNA	Urine	Other
<b>United States</b>																	
Adventist Health Study II	125,000	?	30+	2002	~45% Black	cancer			X	X	X	X		0	0		
Agricultural Health Study	89,658	5,673	20+	1993-1997	97% White	cancer	0	X	X	X	X				35		
Atherosclerosis Risk in Communities (ARIC)	15,787	8,704	45-64	1987	27% Black	CHD	4	X	X	X	X	X		16			
Black Women's Health Study	64,500	64,500	21-69	1995	100% Black	cancer, gen		X	X	X	X	X			25		
California Teachers' Cohort	133,000	133,000	30+	1995	87% White	cancer		X	X	X	X	X		0	0		
Cancer Prevention Study (CPS) II	183,000	97,000	50-74	1992-1993	N/A	cancer		X	X	X	X			39	70		
Cardiovascular Health Study (CHS)	5,888	3,393	65-100	1989-1990	16% Black	CHD, stroke		X	X	X	X	X		5			
CLUE I and II, Washington County	21,465	11,009	18+	1974, 1989	98% White	cancer		X	X			X		22			
Coronary Artery Risk Development in Young Adults (CARDIA)	5,115	2,801	18-30	1985-1986	52% Black	CHD		X	X	X	X	X					
Education and Research Toward Health (EARTH)	20,000	10,000		2002-2004	100% Amer Ind/Alaska Nat	cancer, CVD, diabetes		X	X	X	X	X					
Framingham Cohort	5,209	2,873	28-62	1948-1950	99% White	CHD, stroke		X	X	X	X	X		0.7			
Framingham Offspring	5,124	2,646	20-74	1971-1973	99% White	CHD, stroke		X	X	X	X	X		4			
Framingham Third Generation	4,095	1,820	20-60	2002-2005	98% White	CHD, stroke		X	X	X	X	X		4			
Genetics of Diabetes and Obesity Study	6,060	4,380	18-45	2000-2004	18% Black	diabetes		X	X	X							
Growing Up Today Study	16,882	9,039	9-14	1996	96% White	obesity		X	X	X							
Health Professionals' Follow-Up Study	51,529	0	40-75	1986	97% White	cancer, CVD		X	X	X	X	X		18	15		
Honolulu Heart Program	8,006	0	46-68	1965-1968	Ameri	CHD, stroke	4	X	X	X	X	X					
Iowa Women's Health Study	41,836	41,836	55-69	1986	99% White	mortality	0	X	X	X	X	s	0	0.5	0	0	tumor
Jackson Heart Study	5,500	3,090	35-84	2000-2004	100% Black	CHD, stroke		X	X	X	X	X					
Leisure World Study	13,979	8,877	65+	1981	97% White	cancer, CHD		X	X	X	X	X		0.5			
Mayo Clinic Mammography Study	21,208	21,208	35+	2003-2006	94% White	breast cancer		X		X	X	X	13	13			
Multiethnic Cohort Study (MEC)	215,000	107,500	45-75	1993-1996	Asian, Latino, Black, Nat Haw	cancer			X					80			
Multi-Ethnic Study of Atherosclerosis (MESA)	6,749	3,584	45-84	2000-2002	28% Black; 22% Hisp; 12% Asian	CHD, stroke	4	X	X	X	X	X		1			
NHANES I Epidemiologic Follow-up Study (NHEFS)	16,405	8,596	25-74	1971-1975	15% Black	multiple		X	X	X	X	X					
National Health and Nutrition Examination Survey (NHANES) III	33,994		2mos+	1988-1994	30% Black, 30% Mex-Amer	cross-sectional		X	X	X	X	X		7			
New York University Women's Health Study	14,275	14,275	35-65	1985-1986	11% Black, 6% Latino	cancer		X	X	X	X	X		14			
NIH-AARP Diet and Health Study	567,169	227,021	50-69	1995-1996	7% minorities	cancer											
Nurses' Health Study	121,700	121,700	30-55	1976	97% White	cancer, CVD	0	X	X	X	X	X		33			
Nurses' Health Study II	116,000	116,000	25-42	1989	?	cancer	0		X	X		X		30			toenail
Physicians' Health Study I and II	19,200	0	40-84	1982; 1997	92% White	cancer, CVD		X	X	X	X	X		20			

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Prostate, Lung, Colorectal, and Ovarian Cancer Screening Trial (PLCO)	154,942	78,237	55-74	1993	5% Black, 2% Hisp, 4% Asian	cancer		X	X	X	X			62	52		
Sisters Study	38,124	38,124	35-74	2003-2007	11% minorities	cancer			X	X	X			38		38	toenail
Southern Community Cohort Study	90,000	49,000	40-79	2001-	67% Black	cancer		X	X	X	X	X	40	40	40	23	
Strong Heart Study (SHS)	4,549	2,703	45-74	1989-1991	100% Amer Ind	CHD, stroke		X	X	X	X	X					
Vitamins and Lifestyle (VITAL) Cohort	77,624	40,307	50-76	2000-2002	92% White	cancer		X	X	X	X	X	0	0	54	0	0
Women's Health Initiative (WHI) Clinical Trials & Observational Study	161,808	161,808	50-79	1993-1998	82% White	CVD, cancers, fractures		X	X	X	X	X	160	160	0	10	0
Women's Health Study	39,876	39,876	45+	1991	95% White	cancer, CVD			X					28			

**Europe**

Alpha Tocopherol Beta Carotene Prevention Study (ATBC)	29,133 smokers	0	50-69	1985	(Finland)	cancer		X	X	X	X		X	21			
Avon Longitudinal Study of Parents and Children (ALSPAC)	14,451	moth & offspring	birth cohort	1991-1992	(UK)	varied		X	X		X		X		X	X	
Belgian Interuniversity Research on Nutrition and Health (BIRNH)	11,080	5,243	25-74	1980-1984	(Belgium)	CHD, stroke		X	X	X			X				
British Regional Heart Study (BRHS)	7,735	0	40-59	1978-1980	(UK)	CHD, stroke		X	X	X	X	X	X				
British United Provident Association (BUPA)	21,515	0	35-64	1975-1982	(UK)	CHD		X					X				
Consultation Bureau Project on CVD	~50,000	?	20-59	1974-1980	(Belgium)	CVD		X				X	X				
Copenhagen City Heart Study	14,223	?	20-93	1976-1978	(Denmark)	CVD		X		X	X		X				
deCODE	~110,000	?		1998-	(Iceland)	CVD, cancer							X		X		
European Prospective Investigation into Cancer and Nutrition (EPIC)	520,000	366,000	35-70	1992-2000	Germany, Greece, Italy, Netherlands, UK)	cancer		X	X	X	X		X	400	X	X	
Finnish Cancer Registry Study	20,387			1968-1975	(Finland)	cancer							X				
Finrisk Studies	31,279	15,518	25-64	1982, 1987, 1992, 1997	(Finland)	CVD		X	X	X							
(IPC)	19,386	7,263	40-69	1974-1977	(France)	CVD											
Israeli Ischemic Heart Disease Study	9,734	0	42+	1963	(Israel)	CHD, stroke							X				
Jerusalem Perinatal Study (offspring & parents)	92,408	?	birth cohort	1964-1976	(Israel)	cancer											
Latvian Genome Project	~60,000	?		2001-	(Latvia)												
Munster Heart Study (PROCAM) Study	30,908	10,212	35-65	1979-1995	(Germany)	CHD, stroke		X					X				
Norwegian National Health Screening	24,528	24,528			(Sweden)	cancer		X	X	X	X		X		X		
Hormones and Diet in the Etiology of Breast Tumors Study (ORDET)	38,564	19,166	35-54		(Norway)			X		X	X		X				
	10,786	10,786	35-69	1987-1992	(Italy)	cancer		X	X				X			X	

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Oslo Study	16,209	0	40-49	1972	(Norway)	CHD		X	X				X				
Paris Prospective Study	7,608	0	43-55	1967-1972	(France)	cancer, CHD		X					X				
Prospective Epidemiological Study of MI (PRIME)	9,758	0	50-59	1991-1994	(Ireland, France)	CHD, stroke		X	X	X			X				
Renfrew/Paisley	15,406	8,354	45-64	1972-1976	(Scotland)	CVD, cancer		X			X						
Scottish Heart Health Study	14,464	?	40-59	1984-1987	(Scotland)	CVD		X	X		X		X			X	
Social Insurance Institution's CHD Study	10,962	5,224	30-59		(Finland)	CHD, stroke		X					X				
Tromso Study	15,734	7,663	20-54	1974	(Norway)	CHD, stroke		X		X		X	X				
Varmland Study	96,808	48,732	< 75	1962-1965	(Sweden)	cancer, CHD							X				
Whitehall Study	18,403	0	40-64	1967-1970	(UK)			X			X	X	X				
Whitehall II	10,309	3,413	35-55	1985-1988	(UK)	CHD					X		X				

**Asia**

Anzhenli	8,394	4,617	35-91	1991	(China)	CHD, stroke		X			X						
Beijing Steelworkers	9,987	1,997	15-86	1970	(China)	stroke											
Busselton Heart Study	6,948	3,614	17-95	1966-1978	(Australia)	CHD		X		X	X		X				
CCPCHC	34,770	17,385	35-79	1996	(China)	CHD, stroke		X		X	X		X				
Civil Service Nagoya	9,370	3,089	40-55	1991	(Japan)	stroke		X	X				X				
Fletcher Challenge	10,529	3,685	20-60	1992	(New Zealand)	CHD, stroke		X	X	X	X		X				
GuangZhou	13,210	7,001	35-59	1983	(China)	stroke		X					X				
Haimen City Cohort	83,885	?	25-64	1992-1993	(Japan)	cancer							X				
Japan Public Health Center Prospective Study I and II (JPHC)	130,420	71,698	40-59	1990, 1993	(Japan)	cancer, CVD		X	X	X	X		X		X		
Korean MIC	183,060	67,733	35-59	1990	(Korea)	CHD, stroke		X					X				
Korean Multicenter Cancer Cohort	35,692	?	35+	1993-	(Korea)	cancer							X				
Linxian Nutrition Intervention Trial	32,902	?	40-69	1985	(China)	cancer							X				
Melbourne Collaborative Cohort Study	19,799	17,674	35-69	1990-1994	(Australia)	cancer, CHD		X	X		X						
NZ Blood Donors	20,000	9,000	25-60	1997	(New Zealand)	CHD, stroke		X		X	X		X				
Perth	10,376	4,669	18-90	1979-1994	(Australia)	CHD, stroke		X			X		X				
Seven Cities China	37,665	19,209	35-80	1987	(China)	CHD, stroke		X			X						
Shanghai Cohort	18,244	0	45-64	1986-1989	Chinese	cancer		X	X		X		X		X		
Shanghai Factory	9,351	2,857	35-64	1986	(China)	CHD, stroke		X			X		X				
Shanghai Men's Health Study	60,000	0	40-70	2002-2004	(China)	cancer		X	X	X			X		X	X	
Shanghai Women's Health Study	75,049	75,049	40-70	1997-2000	(China)	cancer		X	X	X			X		X	X	
Shibata	5,631	4,505	40-89	1977	(Japan)	CHD, stroke		X					X				
Shirakawa	9,300	4,278	20-67	1974-1979	(Japan)	CHD, stroke		X					X				
Singapore Chinese Health Study	63,257	?	45-74	1993-1998	(China)	cancer							X				
Six Cohorts China	19,367	9,296	35-59	1982	(China)	CHD, stroke		X			X		X				

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Thailand CVD	8,558	4,878	35-75	1991	(Thailand)	stroke		X		X	X		X					
Tianjin Study	9,335	4,760	35-98	1984	(China)	CHD, stroke		X										
Two Townships (CVDFACTS)	6,316	3,411	Jan-93	1990	(Taiwan)	CHD, stroke		X		X	X		X					
Yunnan Gejiu	8,346	479	40-75	1992	miners)	cancer, stroke		X	X		X		X				X	

NHGRI Office of Population Genomics (Emily Harris, Teri Manolio, Erin Ramos, Jeff Struewing)  
Cohort Studies with >5000 subjects

Notes

Updated August 2007, from 5/19/04 table created by Teri Manolio.

Pls for all US studies contacted to obtain number of specimens and verify other items in the table. (approximately 1/2 responded)

No attempt has been made yet to contact foreign study Pls to obtain sample numbers.

No. of Physical Exams

Number of physical exams performed - this variable is very incomplete

Traits/Env Exp

Traits and environmental exposures (X indicates collected)

Stored Samples

Number of stored samples - focus was on blood/buccal DNA sources, other columns less complete

Subjects with both blood and buccal were included only once (when possible to discern)

Numbers not yet obtained for foreign studies - X indicates samples were collected and stored

Some collections are ongoing and numbers represent target sizes

Abbreviations;

CHD coronary heart disease  
CVD cardiovascular disease