

Supplementary Materials

Web Table 1. Chronic diseases and conditions included and excluded from the multimorbidity weighted index in the pooled Nurses' Health Study, Nurses' Health Study II, and Health Professionals Follow-up Study cohorts from 1992-2008.

	Included	Excluded
Voluntarily reported acute conditions		Appendicitis, acute endocarditis, acute myocarditis, acute nephritis, aorta iliac obstruction, aseptic meningitis, acute pericarditis, bacterial endocarditis, bowel obstruction, bursitis, cellulitis, epididymitis, gangrene, Helicobacter pylori infection, hemolytic uremic syndrome, herpes zoster, intestinal obstruction, kidney infection, meningitis, orchitis, pericarditis, perforation of small intestine, phlebitis, prostate infection, prostatitis, pyloric ulcer, thrombophlebitis, thyrotoxicosis, thyroiditis, trypanosomiasis, vaginal infection, ventricular fibrillation, vulvar infection, yeast infection
Voluntarily reported chronic conditions with prevalence <0.1%		Abnormal pap, acid reflux, acoustic neuroma, Addison's disease, amputation, adenomyosis, adenomyosis leiomyoma, aplastic anemia, asymmetric septal hypertrophy, adrenal gland tumor, agranulocytosis, amputation, aorta iliac obstruction, aortic femoral bypass, arterial embolism, arterial occlusion, arteriosclerosis, atherosclerosis, arteriosclerotic heart disease, atrial flutter, Barlow's syndrome, Bartter's disease, basilar vertebral ischemia, benign tumors (adrenal gland, adrenal medulla, bladder, bowel, brain, chest, eye, gall bladder, kidney, liver, neck, nerve, ovarian, parathyroid gland, parotid, pelvic, pituitary gland, prostate, salivary gland, schwannoma, testicle, thyroid, unspecified, uterine), bladder polyp, blocked femoral artery, blood clot, breast augmentation, breast implants, Bright's disease, bone marrow dysplasia, bowel adhesions, bowel resection, bowel volvulus, Bowen's disease, brachial neuritis, bradycardia, bronchial asthma, bulbar palsy, bundle branch block, calcification of aorta, carcinoid syndrome, cardiac arrhythmia, cardiac enlargement, cardiac hypertrophy, cardiac insufficiency, cardiomyopathy, carotid artery blockage, carotid artery disease, carotid bruit, carotid dissection, carotid lesion, carotid stenosis, celiac disease, central vein occlusion, cerebral aneurysm, cerebral ischemia, cervical disc, cervical dysplasia, cervical laminectomy, cervical polyp, Charcot-Marie Tooth, chronic endocarditis, chronic Epstein-Barr virus, chronic functional bowel syndrome, chronic ischemic heart disease, coarctation of aorta, colectomy, Colles fracture, colon resection, colostomy, conduction heart attack, congenital heart disease, congenital pulmonary stenosis, corneal transplant, coronary artery spasm, coronary insufficiency, coronary stenosis, Cushing's syndrome, cystadenoma, cystic ovary, degenerative disc

		<p>disease, demyelinating disease, dermoid tumor, detached retina, diabetes insipidus, discectomy, duodenitis, dysplastic nevus syndrome, eczema, enchondroma, endometrial hyperplasia, endometrial polyp, endometriomas, endometriosis, endometritis, enlarged thyroid, epidural hematoma, esophageal ulcer, esophagitis, facial paralysis, fallopian fibroid, familial polyposis, fatty liver, femoral aneurysm, femoral popliteal bypass, fibrillating heart, fibromyositis, fibrositis, fibular fracture, fracture of leg, functional disorder of the intestine, gall bladder adenoma, gall bladder polyp, gastrectomy, gastric bypass, gastric reflux, gastroesophageal reflux disease, gastritis, gastrointestinal bleeding, Gaucher disease, genital prolapse, goiter, Guillain-Barre syndrome, human T-cell lymphotropic virus, heart block, heart irregularity, heart rhythm disorder, heart spasm, heart transplant, hemicolecotomy, hemochromatosis, hernia, herniated disc, hyperplasia, hyperparathyroidism, hypoadrenocortism, hypokalemia, hypodynamic heart, hypoparathyroidism, idiopathic hypertrophic subaortic stenosis, idiopathic thrombocytopenia, idiopathic thrombocytopenic purpura, inguinal hernia, koilocytosis of cervix, laminectomy, lateral sclerosis, left anterior descending stenosis, left bundle branch block, left ventricular failure, leukopenia, Lou Gehrig's disease, lumbar disc disease, meningioma, mesenteric artery infarction, microadenoma, motor neuron disease, muscular dystrophy, myasthenia gravis, myelodysplasia, myelofibrosis, myeloproliferative syndrome, myomectomy, myositis, myotonic dystrophy, myxedema, nephrectomy, neurofibroma, neuroma, nocturnal seizures, nodular thyroid, non-articular rheumatism, non-motor vehicle accident, non-toxic nodular goiter, non-toxic thyroid adenoma, non-articular rheumatism, obstructed kidney, other endocardiac structure disease, otosclerosis, ovarian cyst, ovarian polyp, pacemaker insertion, pancreas transplant, parathyroid disease, parotidectomy, paroxysmal atrial tachycardia, paroxysmal hemicranias, paroxysmal tachycardia, Passy-Muir valve, pemphigus, pericarditis, peripheral vascular disease, peripheral vascular surgery, pernicious anemia, pheochromocytoma, pituitary disease, pleomorphic adenoma, polyarteritis nodosa, polycythemia vera, polymyalgia rheumatic, polynephritis, polyneuritis, polyradiculitis, post-polio syndrome, premature ventricular contractions, progressive supranuclear palsy, pulmonary edema, pulmonary heart disease, pyloric ulcer, Raynaud's disease, Reiter's syndrome, renal artery occlusion, retinal detachment, retinal vein occlusion, ruptured disc, sarcoidosis, sarcoid of lungs,</p>
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		sick sinus syndrome, simple goiter, sinus re-entry tachycardia, sinus tachycardia, slipped disc, spinal fusion, spinal stenosis, subdural hematoma, supranuclear palsy, symptomatic heart disease, synovitis, tachycardia, temporal arteritis, Tetralogy of Fallot, toxic thyroid adenoma, thrombocytopenia purpura, thrombosis, thyroid cyst, thyroid papilloma, thyroidectomy, tibia fracture, tic douloureux, trigeminal neuralgia, toxic thyroid adenoma, tubular nephrosis, unspecified disorders of the heart, ureteral stenosis, ureteral stone, uterine adenomyosis, uterine cyst, uterine descensus, uterine dysplasia, uterine hyperplasia, uterine polyp, uterine prolapse, uveitis, vaginal enterocele, vaginal wall prolapse, valve implant, vascular surgery, vasculitis, venous insufficiency, ventral hernia, ventricular ectopy, ventricular hypertrophy, ventricular irritability, ventricular premature beats, vertebral fracture, volvulus, von Willebrand disease, Warthin tumor, Wolf Parkinson White
Voluntarily reported conditions that were combined	<ul style="list-style-type: none"> Chronic kidney disease (glomerulonephritis, kidney disease, kidney failure, kidney transplant, renal artery occlusion, renal artery stenosis, renal failure) Cirrhosis and liver transplant Hepatitis and hepatocellular disease Valvular heart disease (aortic insufficiency, aortic valve disease, aortic valve replacement, aortic valve stenosis, aortic and mitral valve disorder, mitral regurgitation, mitral stenosis, mitral valve disease, mitral valve replacement, pulmonary valve disease, tricuspid valve disease, valve implant) 	
Assessed conditions that were combined	<ul style="list-style-type: none"> Alzheimer disease and other dementias Inflammatory bowel disease (Crohn's disease, ulcerative colitis) Leukemia and lymphoma Venous thromboembolism (pulmonary embolism and deep venous thrombosis) 	
Combined conditions from both voluntary reporting and assessed in questionnaire	<ul style="list-style-type: none"> Connective tissue diseases (Sjogren disease, dermatomyositis, polymyositis, systemic lupus erythematosus) Seizure disorder and epilepsy 	<ul style="list-style-type: none"> Hyperthyroidism and Grave's disease
Conditions with positive coefficients		<ul style="list-style-type: none"> Basal cell carcinoma Benign breast disease Benign prostatic hypertrophy (BPH) Ectopic pregnancy Melanoma Prostate surgery for BPH

		<ul style="list-style-type: none"> • Squamous cell carcinoma • Solar actinic keratosis • Thyroid nodule • Wrist fracture
Conditions without sufficiently stable coefficients (standard error greater than estimate)		<ul style="list-style-type: none"> • Hyperthyroidism and Grave's disease • Mitral valve prolapse • Uterine fibroid
Conditions without sufficiently stable coefficients that could be estimated from the median of similar conditions	<ul style="list-style-type: none"> • Bladder cancer • Cirrhosis and liver transplant 	
Conditions without sufficiently stable coefficients included due to inclusion in other comorbidity indices	<ul style="list-style-type: none"> • Hepatitis and hepatocellular disease 	
Summary of voluntarily reported conditions included in multimorbidity weighted index	<ul style="list-style-type: none"> • AIDS • Cirrhosis and liver transplant • Hepatitis • Pancreatitis • Valvular heart disease 	

Web Table 2. Self-reported clinician-diagnosed diseases and conditions and adjusted association with the Short Form-36 physical functioning scale in the pooled Nurses' Health Study, Nurses' Health Study II, and Health Professionals Follow-up Study cohorts from 1992-2008.

Condition	number	% ^a	Fixed weighted, n = 612,592			Nurses' Health Study, n = 299,003			Nurses' Health Study II, n = 251,222			Health Professionals Follow-up Study, n = 62,367		
			Coefficient ^b	Standard error	p-value	Coefficient ^b	Standard error	p-value	Coefficient ^b	Standard error	p-value	Coefficient ^b	Standard error	p-value
Other diagnosis	68626	11.3	-1.46	0.039	<0.0001	-1.71	0.059	<0.0001	-1.17	0.060	<0.0001	-1.56	0.107	<0.0001
Cardiovascular														
Angina	22905	3.8	-2.20	0.076	<0.0001	-2.23	0.096	<0.0001	-2.15	0.172	<0.0001	-1.09	0.148	<0.0001
Aortic aneurysm	1310	0.2	-1.96	0.230	<0.0001	-1.64	0.588	0.0053	N/A	N/A	N/A	-2.02	0.261	<0.0001
Atrial fibrillation	14463	2.7	-1.33	0.089	<0.0001	-1.43	0.101	<0.0001	N/A	N/A	N/A	-0.996	0.186	<0.0001
Automated Implantable Cardioverter Defibrillator (AICD)	136	0.03	-1.57	0.810	0.05	-1.57	0.809	0.053	N/A	N/A	N/A	N/A	N/A	N/A
Congestive heart failure	3442	0.6	-4.77	0.165	<0.0001	-4.61	0.189	<0.0001	N/A	N/A	N/A	-5.21	0.3333	<0.0001
Coronary artery bypass graft surgery	15923	3.0	-0.724	0.088	<0.0001	-0.853	0.119	<0.0001	-1.55	0.439	0.0004	-0.466	0.138	0.0007
High blood pressure	176855	29.1	-1.53	0.027	<0.0001	-1.48	0.038	<0.0001	-1.81	0.046	<0.0001	-1.03	0.074	<0.0001
Mitral valve prolapse	20789	3.5	-0.033	0.074	0.66	N/A	N/A	N/A	-0.033	0.074	0.66	N/A	N/A	N/A
Myocardial infarction	14424	2.4	-1.73	0.087	<0.0001	-1.90	0.124	<0.0001	-2.46	0.203	<0.0001	-1.07	0.152	<0.0001
Peripheral artery disease	6841	0.9	-3.25	0.111	<0.0001	-3.05	0.125	<0.0001	N/A	N/A	N/A	-3.99	0.238	<0.0001
Valvular heart disease ^c	3522	0.6	-0.416	0.127	0.001	-0.604	0.255	0.02	-0.513	0.157	0.001	0.606	0.387	0.12
Endocrine														
Diabetes	30610	5.0	-2.67	0.055	<0.0001	-3.04	0.074	<0.0001	-2.11	0.105	<0.0001	-2.40	0.129	<0.0001
Elevated cholesterol	233871	38.5	-0.343	0.025	<0.0001	-0.016	0.038	0.67	-0.838	0.037	<0.0001	0.618	0.082	<0.0001
Hyperthyroidism	3258	0.5	-0.149	0.099	0.13	-0.392	0.300	0.19	-0.062	0.116	0.59	N/A	N/A	N/A
Hypertriglyceridemia	18207	2.5	-0.692	0.091	<0.0001	N/A	N/A	N/A	N/A	N/A	N/A	-0.692	0.091	<0.0001
Hypothyroidism	19698	3.2	-0.808	0.055	<0.0001	N/A	N/A	N/A	-0.808	0.055	<0.0001	N/A	N/A	N/A
Thyroid nodule	5714	1.1	0.033	0.086	0.70	N/A	N/A	N/A	0.033	0.086	0.70	N/A	N/A	N/A
Gastrointestinal														
Barrett's esophagus	1260	0.3	-0.284	0.259	0.27	-0.877	0.375	0.019	N/A	N/A	N/A	0.253	0.357	0.48
Chronic hepatitis, hepatocellular	675	0.1	-0.293	0.256	0.25	-1.92	0.974	0.048	-0.323	0.287	0.26	0.711	0.696	0.31

disease ^c														
Cirrhosis, liver transplant ^c	164	0.03	0.199	0.729	0.78	-0.053	0.937	0.95	1.06	1.62	0.51	0.090	1.66	0.96
Colon polyp	29766	4.9	-0.010	0.046	0.82	0.098	0.060	0.10	-0.540	0.102	<0.0001	0.206	0.101	0.04
Diverticulosis, diverticulitis	30481	4.2	-0.624	0.057	<0.0001	-0.650	0.066	<0.0001	N/A	N/A	N/A	-0.550	0.113	<0.0001
Gallstones	13482	2.2	-0.929	0.051	<0.0001	N/A	N/A	N/A	-1.04	0.062	<0.0001	-0.691	0.091	<0.0001
Hepatitis ^c	414	0.1	-0.147	0.240	0.54	-0.633	0.595	0.288	-0.148	0.272	0.59	1.15	0.973	0.23
Inflammatory bowel disease	7138	1.2	-1.07	0.107	<0.0001	-0.676	0.175	0.0001	-1.46	0.150	<0.0001	-0.619	0.309	0.04
Pancreatitis ^c	414	0.1	-0.675	0.336	0.04	0.399	0.561	0.477	-1.63	0.449	0.0003	1.20	1.19	0.32
Ulcer, peptic	18199	3.0	-1.08	0.064	<0.0001	-1.19	0.110	<0.0001	-1.03	0.086	<0.0001	-1.01	0.184	<0.0001
Hematologic														
Pernicious anemia	1337	0.3	-1.82	0.259	<0.0001	-1.67	0.289	<0.0001	N/A	N/A	N/A	-2.44	0.587	<0.0001
Venous thrombo-embolism (pulmonary embolus, deep venous thrombosis)	10472	1.7	-1.98	0.084	<0.0001	-2.79	0.180	<0.0001	-1.71	0.099	<0.0001	-2.12	0.289	<0.0001
Immunologic														
Acquired Immune Deficiency Syndrome (AIDS) ^c	31	0.01	-2.91	1.26	0.02 0.0210	-11.9	3.76	0.002	-1.63	1.53	0.29	-2.22	2.75	0.42
Integumentary														
Solar actinic keratosis	9288	1.3	0.774	0.097	<0.0001	N/A	N/A	N/A	N/A	N/A	N/A	0.774	0.097	<0.0001
Musculoskeletal														
Connective tissue disease	4373	0.7	-3.02	0.128	<0.0001	-2.33	0.180	<0.0001	-3.72	0.182	<0.0001	N/A	N/A	N/A
Gout	5314	2.5	-1.34	0.119	<0.0001	-3.50	0.293	<0.0001	-1.43	0.296	<0.0001	-0.808	0.144	<0.0001
Herniated disc	42734	7.1	-3.27	0.042	<0.0001	-3.01	0.086	<0.0001	-3.35	0.047	<0.0001	N/A	N/A	N/A
Hip fracture	5571	0.8	-3.56	0.122	<0.0001	-3.56	0.122	<0.0001	N/A	N/A	N/A	N/A	N/A	N/A
Hip replacement surgery	8191	1.1	-3.55	0.104	<0.0001	-3.55	0.104	<0.0001	N/A	N/A	N/A	-3.53	N/A	<0.0001
Knee replacement surgery	1943	0.3	-9.11	0.317	<0.0001	-9.11	0.317	<0.0001	N/A	N/A	N/A	N/A	N/A	N/A
Osteo-arthritis	149180	24.5	-3.52	0.030	<0.0001	-3.61	0.041	<0.0001	-3.68	0.049	<0.0001	-2.65	0.086	<0.0001
Osteoporosis	47879	6.6	-0.997	0.049	<0.0001	-0.971	0.050	<0.0001	N/A	N/A	N/A	-1.58	0.237	<0.0001
Rheumatoid arthritis	25811	4.2	-3.79	0.062	<0.0001	-3.74	0.081	<0.0001	-4.36	0.117	<0.0001	-2.76	0.171	<0.0001
Vertebral fracture	8338	1.1	-2.07	0.191	<0.0001	-2.066	0.191	<0.0001	N/A	N/A	N/A	N/A	N/A	N/A

Wrist fracture	15165	2.1	0.173	0.088	0.04	0.173	0.088	0.04	N/A	N/A	N/A	N/A	N/A	N/A
Nervous														
Amyotrophic lateral sclerosis (ALS)	152	0.02	-7.45	0.759	<0.0001	-7.29	0.789	<0.0001	N/A	N/A	N/A	-9.42	2.79	0.0007
Dementia including Alzheimer disease	305	0.1	-6.10	0.440	<0.0001	-5.64	0.471	<0.0001	N/A	N/A	N/A	-9.23	1.23	<0.0001
Migraine	24990	4.2	-0.614	0.064	<0.0001	N/A	N/A	N/A	-0.614 (0.064)	0.064	<0.0001	N/A	N/A	N/A
Multiple sclerosis	3210	0.5	-10.6	0.155	<0.0001	-12.5	0.281	<0.0001	-9.60	0.189	<0.0001	-14.30	0.901	<0.0001
Parkinson Disease	1355	0.2	-8.82	0.263	<0.0001	-9.44	0.391	<0.0001	N/A	N/A	N/A	-8.31	0.357	<0.0001
Restless legs syndrome	5799	1.4	-2.23	0.111	<0.0001	N/A	N/A	N/A	-2.72	0.171	<0.0001	-1.87	0.147	<0.0001
Seizure disorder	2197	1.2	-0.841	0.160	<0.0001	-1.24	0.398	0.0018	-0.739	0.180	<0.0001	-1.21	0.763	0.11
Stroke	6863	1.1	-3.79	0.108	<0.0001	-4.46	0.159	<0.0001	-2.37	0.207	<0.0001	-3.98	0.239	<0.0001
Transient ischemic attack	10059	1.4	-1.24	0.097	<0.0001	-1.34	0.116	<0.0001	N/A	N/A	N/A	-1.03	0.175	<0.0001
Oncologic														
Basal cell carcinoma	37003	6.1	0.246	0.043	<0.0001	0.190	0.056	0.0007	0.357	0.094	0.0002	0.301	0.099	0.003
Bladder cancer	416	0.1	-0.279	0.453	0.54	N/A	N/A	N/A	N/A	N/A	N/A	-0.279	0.453	0.54
Breast cancer	18658	3.1	-0.886	0.070	<0.0001	-0.639	0.080	<0.0001	-1.70	0.145	<0.0001	N/A	N/A	N/A
Cervical cancer	3353	0.5	-0.723	0.231	0.002	-0.723	0.231	0.002	N/A	N/A	N/A	N/A	N/A	N/A
Colon cancer	4307	0.6	-1.18	0.146	<0.0001	-1.18	0.181	<0.0001	N/A	N/A	N/A	-1.18	0.247	<0.0001
Leukemia, lymphoma	854	0.2	-1.32	0.293	<0.0001	-0.329	0.746	0.6588	N/A	N/A	N/A	-1.47	0.318	<0.0001
Lung cancer	1147	0.2	-6.25	0.258	<0.0001	-6.25	0.258	<0.0001	N/A	N/A	N/A	N/A	N/A	N/A
Melanoma	4247	0.7	0.055	0.118	0.64	-0.020	0.167	0.90	0.003	0.233	0.99	0.268	0.239	0.26
Other cancer	11948	2.0	-1.76	0.078	<0.0001	-2.64	0.131	<0.0001	-1.20	0.114	<0.0001	-1.47	0.190	<0.0001
Ovarian cancer	1386	0.2	-1.87	0.274	<0.0001	-1.87	0.274	<0.0001	N/A	N/A	N/A	N/A	N/A	N/A
Prostate cancer	5061	8.1	-0.402	0.126	0.001	N/A	N/A	N/A	N/A	N/A	N/A	-0.402	0.126	0.001
Squamous cell carcinoma	15011	2.5	0.068	0.067	0.31	0.142	0.085	0.09	0.043	0.192	0.82	-0.085	0.129	0.51
Uterine cancer	4187	0.6	-0.753	0.164	0.02	-0.753	0.164	0.02	N/A	N/A	N/A	N/A	N/A	N/A
Ophthalmologic														
Cataract	59460	8.2	-0.288	0.037	<0.0001	-0.300	0.040	<0.0001	N/A	N/A	N/A	-0.221	0.096	0.02
Glaucoma	17059	2.3	-0.427	0.086	<0.0001	-0.469	0.102	<0.0001	N/A	N/A	N/A	-0.328	0.156	0.03
Macular degeneration	14193	2.0	-0.564	0.082	<0.0001	-0.570	0.094	<0.0001	N/A	N/A	N/A	-0.547	0.168	0.001
Oral														
Periodontal disease	32171	5.6	-0.164	0.063	0.009	0.380	0.130	0.003	N/A	N/A	N/A	-0.333	0.072	<0.0001
Psychiatric														
Alcohol abuse	3492	0.5	-1.37	0.196	<0.0001	-1.31	0.260	<0.0001	N/A	N/A	N/A	-1.46	0.297	<0.0001
Depression	53886	20.8	-1.29	0.042	<0.0001	-2.46	0.091	<0.0001	-0.934	0.049	<0.0001	-1.51	0.174	<0.0001

Pulmonary														
Asthma	54022	8.9	-1.62	0.040	<0.0001	-1.69	0.070	<0.0001	-1.78	0.053	<0.0001	-0.262	0.138	0.05
Chronic obstructive pulmonary disease (COPD)	15771	3.5	-4.32	0.078	<0.0001	-4.20	0.092	<0.0001	-4.30	0.248	<0.0001	-5.00	0.208	<0.0001
Renal														
Chronic kidney disease	722	0.1	-3.98	0.330	<0.0001	-3.86	0.512	<0.0001	N/A	N/A	N/A	-4.07	0.432	<0.0001
Interstitial cystitis	1964	0.4	-0.879	0.203	<0.0001	-0.849	0.268	0.001	-0.920	0.312	0.003	N/A	N/A	N/A
Kidney stones	19022	3.1	-0.291	0.054	<0.0001	-0.254	0.085	0.003	-0.393	0.084	<0.0001	-0.137	0.130	0.29
Reproductive														
Benign breast disease	133271	21.9	0.107	0.022	<0.0001	0.164	0.036	0.0002	0.071	0.028	0.012	N/A	N/A	N/A
Benign prostatic hyperplasia (BPH)	360	0.6	2.10	0.464	<0.0001	N/A	N/A	N/A	N/A	N/A	N/A	2.10	0.464	<0.0001
Ectopic pregnancy	2767	0.5	0.131	0.116	0.26	N/A	N/A	N/A	0.131	0.116	0.25	N/A	N/A	N/A
Endometriosis	16667	2.7	-0.142	0.051	0.006	N/A	N/A	N/A	-0.142	0.051	0.006	N/A	N/A	N/A
Erectile dysfunction	18436	4.7	-1.22	0.134	<0.0001	N/A	N/A	N/A	N/A	N/A	N/A	-1.22	0.134	<0.0001
Polycystic ovary syndrome	20722	3.4	-0.640	0.057	<0.0001	N/A	N/A	N/A	-0.640	0.057	<0.0001	N/A	N/A	N/A
Premenstrual syndrome	30237	5.0	-0.412	0.039	<0.0001	N/A	N/A	N/A	-0.412	0.038	<0.0001	N/A	N/A	N/A
Prostate surgery for benign prostatic hyperplasia	9477	15.2	0.834	0.187	<0.0001	N/A	N/A	N/A	N/A	N/A	N/A	0.834	0.187	<0.0001
Uterine fibroid	30340	5.0	-0.029	0.039	0.46	N/A	N/A	N/A	-0.029	0.039	0.46	N/A	N/A	N/A

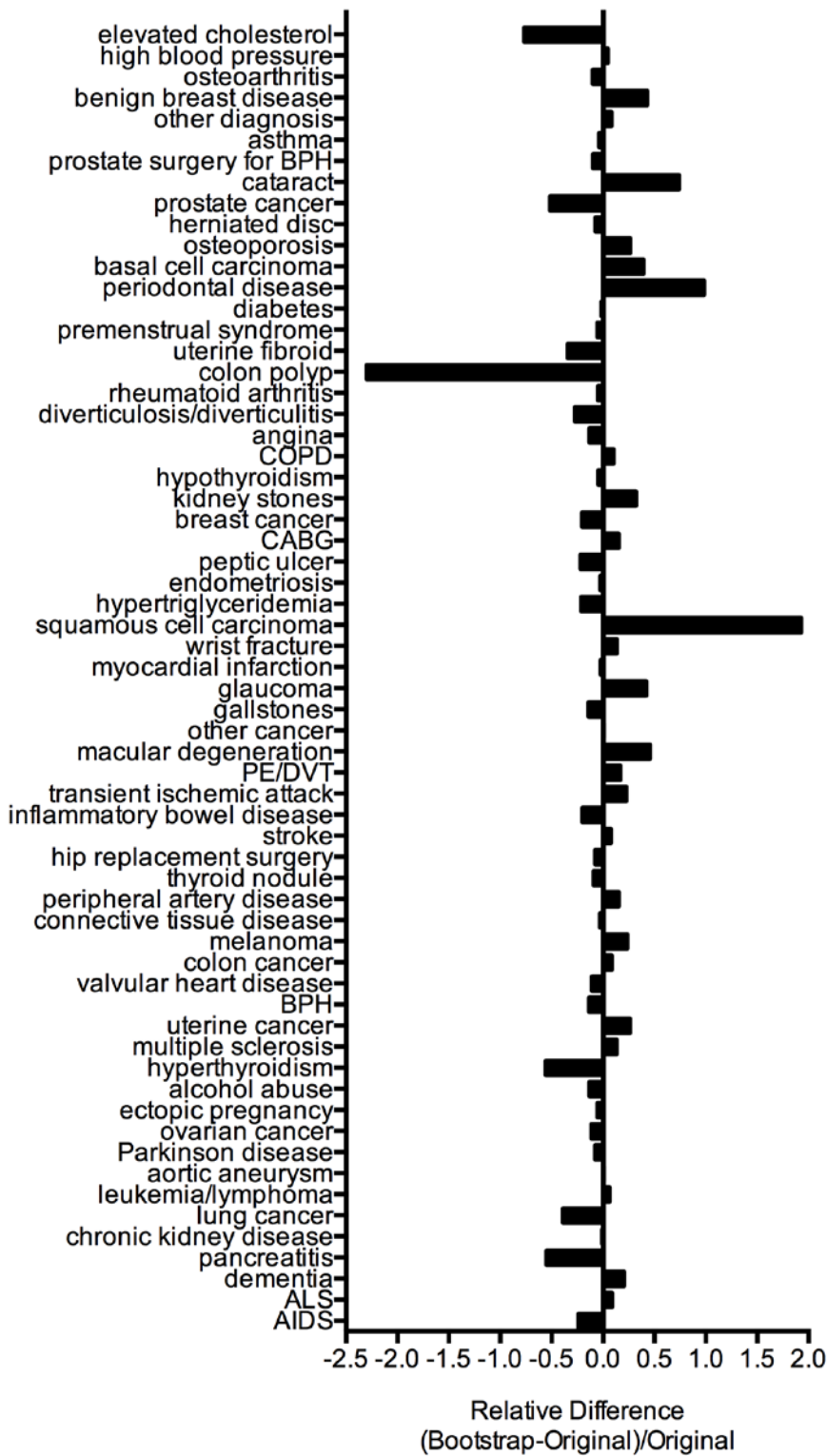
^a Percent prevalence of condition based on the sum of observations from all years and cohorts that each particular condition was assessed and not necessarily the overall sum of observations for all years and all cohorts, as in the case of core non-sex-specific conditions assessed in all years.

^b Adjusted for age, sex, cohort, and all other chronic diseases and conditions

^c Diseases and conditions not specifically ascertained in the questionnaire but self-reported by participants

Abbreviations: n, number; N/A, not applicable (sex-specific conditions) or not available (condition not assessed in the cohort)

Web Figure 1. Relative difference between coefficient of mean bootstrapped resamplings and original coefficient for the core set of conditions available in all years in at least one cohort among the Nurses' Health Study, Nurses' Health Study II, and Health Professionals Follow-up Study cohorts between 1992-2008.



Abbreviations: AIDS, acquired immune deficiency syndrome; ALS, amyotrophic lateral sclerosis; BPH, benign prostatic hyperplasia; DVT, deep venous thrombosis; CABG, coronary artery bypass graft surgery; COPD, chronic obstructive pulmonary disease; PE, pulmonary embolus.

Web Table 3. Adjusted estimates of the Short Form-36 physical functioning scale based on the mean of 100 bootstrapped resamplings for conditions assessed in all years in at least one of the Nurses' Health Study, Nurses' Health Study II, or Health Professionals Follow-up Study cohorts between 1992-2008.

Condition	Number	% ^a	Coefficient ^b from mean bootstrapped resamplings, <i>n</i> = 612,592,000	Standard error	Original coefficient ^b , <i>n</i> = 612,592	Standard error	Relative difference (Bootstrap- Original)/Origin al	Absolute difference (Bootstrap- Original)
Elevated cholesterol	233871	38.5	-0.080	0.003	-0.343	0.025	-0.767	0.263
High blood pressure	176855	29.1	-1.60	0.002	-1.53	0.027	0.046	-0.07
Osteoarthritis	149180	24.5	-3.17	0.007	-3.52	0.030	-0.099	0.35
Benign breast disease	133271	21.9	0.153	0.004	0.107	0.022	0.423	0.046
Other diagnosis	68626	11.3	-1.58	0.004	-1.46	0.039	0.082	-0.12
Asthma	54022	8.9	-1.56	0.004	-1.62	0.040	-0.037	0.06
Prostate surgery for benign prostatic hypertrophy	9477	15.2	0.754	0.021	0.834	0.187	-0.096	-0.08
Cataract	59460	8.2	-0.500	0.009	-0.288	0.037	0.736	-0.212
Prostate cancer	5061	8.1	-0.195	0.012	-0.402	0.126	-0.515	0.207
Herniated disc	42734	7.1	-3.04	0.352	-3.27	0.042	-0.070	0.23
Osteoporosis	47879	6.6	-1.26	0.007	-0.997	0.049	0.264	-0.263
Basal cell carcinoma	37003	6.1	0.343	0.006	0.246	0.043	0.394	0.097
Periodontal disease	32171	5.6	-0.325	0.006	-0.164	0.063	0.982	-0.161
Diabetes	30610	5.0	-2.63	0.013	-2.67	0.055	-0.015	0.04
Premenstrual syndrome	30237	5.0	-0.390	0.083	-0.412	0.039	-0.053	0.022
Uterine fibroid	30340	5.0	-0.019	0.043	-0.029	0.039	-0.345	0.01
Colon polyp	29766	4.9	0.013	0.006	-0.010	0.046	-2.30	0.023
Rheumatoid arthritis	25811	4.2	-3.61	0.006	-3.79	0.062	-0.047	0.18
Diverticulosis, diverticulitis	30481	4.2	-0.453	0.014	-0.624	0.057	-0.274	0.171
Angina	22905	3.8	-1.91	0.008	-2.20	0.076	-0.132	0.29
Chronic obstructive pulmonary disease	15771	3.5	-4.76	0.012	-4.32	0.078	0.102	-0.44
Hypothyroidism	19698	3.2	-0.773	0.057	-0.808	0.055	-0.043	0.035
Kidney stones	19022	3.1	-0.384	0.008	-0.291	0.054	0.319	-0.093
Breast cancer	18658	3.1	-0.707	0.008	-0.886	0.070	-0.202	0.179
Coronary artery bypass graft surgery (CABG)	15923	3.0	-0.834	0.011	-0.724	0.088	0.152	-0.11
Ulcer, peptic	18199	3.0	-0.843	0.018	-1.08	0.064	-0.219	0.237
Endometriosis	16667	2.7	-0.116	0.060	-0.142	0.051	-0.026	0.026
Hypertriglyceridemia	18207	2.5	-0.546	0.011	-0.692	0.091	-0.210	0.146
Squamous cell carcinoma	15011	2.5	0.199	0.007	0.068	0.067	1.93	0.131
Wrist fracture	15165	2.1	0.196	0.008	0.173	0.088	0.133	0.023
Myocardial infarction	14424	2.4	-1.69	0.009	-1.73	0.087	-0.023	0.04
Glaucoma	17059	2.3	-0.606	0.007	-0.427	0.086	0.419	-0.179
Gallstones	13482	2.2	-0.801	0.018	-0.929	0.051	-0.138	0.128
Other cancer	11948	2.0	-1.77	0.011	-1.76	0.078	0.005	-0.01
Macular degeneration	14193	2.0	-0.822	0.009	-0.564	0.082	0.457	-0.258
Venous thromboembolism (pulmonary embolus, deep venous thrombosis)	10472	1.7	-2.31	0.012	-1.98	0.084	0.167	-0.33
Transient ischemic attack	10059	1.4	-1.52	0.011	-1.24	0.097	0.226	-0.28
Inflammatory bowel disease	7138	1.2	-0.857	0.011	-1.07	0.107	-0.199	0.213

Stroke	6863	1.1	-4.08	0.014	-3.79	0.108	0.076	-0.29
Hip replacement surgery	8191	1.1	-3.29	0.026	-3.55	0.104	-0.073	0.26
Thyroid nodule	5714	1.1	0.030	0.090	0.033	0.086	-0.091	-0.003
Peripheral artery disease	6841	0.9	-3.74	0.017	-3.25	0.111	0.151	-0.49
Connective tissue disease	4373	0.7	-2.93	0.018	-3.02	0.128	-0.030	0.09
Melanoma	4247	0.7	0.068	0.013	0.055	0.118	0.236	0.013
Colon cancer	4307	0.6	-1.28	0.016	-1.18	0.146	0.085	-0.1
Valvular heart disease ^c	3522	0.6	-0.372	0.014	-0.416	0.127	-0.105	0.044
Benign prostatic hyperplasia	360	0.6	1.82	0.046	2.10	0.464	-0.133	-0.28
Uterine cancer	4187	0.6	-0.949	0.015	-0.753	0.164	0.260	-0.196
Multiple sclerosis	3210	0.5	-12.0	0.030	-10.6	0.155	0.132	-1.40
Hyperthyroidism	3258	0.5	-0.066	0.125	-0.149	0.099	-0.557	0.083
Alcohol abuse	3492	0.5	-1.19	0.035	-1.37	0.196	-0.131	0.18
Ectopic pregnancy	2767	0.5	0.124	0.130	0.131	0.116	-0.053	-0.007
Ovarian cancer	1386	0.2	-1.66	0.031	-1.87	0.274	-0.112	0.21
Parkinson disease	1355	0.2	-8.18	0.062	-8.82	0.263	-0.072	0.64
Aortic aneurysm	1310	0.2	-1.97	0.035	-1.96	0.230	0.005	-0.01
Leukemia, lymphoma	854	0.2	-1.40	0.036	-1.32	0.293	0.061	-0.08
Lung cancer	1147	0.2	-5.86	0.032	-6.25	0.258	-0.39	0.39
Chronic kidney disease	722	0.1	-3.96	0.069	-3.98	0.330	-0.005	0.02
Pancreatitis ^c	414	0.1	-0.305	0.044	-0.675	0.336	-0.548	0.37
Dementia including Alzheimer disease	305	0.1	-7.35	0.067	-6.10	0.440	0.204	-1.25
Amyotrophic lateral sclerosis (ALS)	152	0.02	-8.10	0.120	-7.45	0.759	0.087	-0.65
Acquired Immune Deficiency Syndrome (AIDS) ^c	31	0.1	-2.22	0.199	-2.91	1.26	-0.237	0.69

^a Percent prevalence of condition based on the sum of observations from all years and cohorts that each particular condition was assessed and not necessarily the overall sum of observations for all years and all cohorts, as in the case of core non-sex-specific conditions assessed in all years.

^b Adjusted for age, sex, cohort and all other chronic diseases and conditions.

^c Diseases and conditions not specifically ascertained in the questionnaire but self-reported by participants.