

Sister Study Noncancerous Conditions by Type and Timing: Data Release 10.1¹

Condition	Baseline	Unknown Timing ²	Incident
	N (%)	N (%)	N (%)
Cardiovascular and Cerebrovascular ³			
Heart attack	621 (1.2)	232 (0.5)	1002 (2.0)
Heart failure	349 (0.7)	196 (0.4)	922 (1.8)
Angina	1,317 (2.6)	638 (1.3)	742 (1.5)
Stroke	394 (0.8)	151 (0.3)	1,298 (2.6)
Transient ischemic attack/ mini-stroke	938 (1.8)	659 (1.3)	1,405 (2.8)
Respiratory			
Asthma ⁴	7,179 (14.1)	1,608 (3.2)	1,907 (3.7)
Chronic obstructive pulmonary disease (COPD)	4,756 (9.3)	2,413 (4.7)	1,417 (2.8)
Chronic bronchitis	3,834 (7.5)	1,860 (3.7)	514 (1.0)
Emphysema	213 (0.4)	170 (0.3)	277 (0.5)
Chronic bronchitis and emphysema	522 (1.0)	95 (0.2)	58 (0.1)
COPD, unspecified	187 (0.4)	288 (0.6)	568 (1.1)
Tuberculosis ⁵	391 (0.8)	1 (<0.1)	17 (<0.1)
Metabolic			
Diabetes ⁶	3,039 (6.0)	954 (1.9)	3,743 (7.4)
Hypertension ⁷	14,332 (28.2)	2,348 (4.6)	9,094 (17.9)
High cholesterol ^{8,9}	17,088 (33.6)	17 (<0.1)	6,208 (12.2)
Thyroid Disease ¹⁰			
Hyperthyroidism ¹¹	2,446 (4.8)	0 (0.0)	1,242 (2.4)
Hypothyroidism ¹²	9,146 (18.0)	0 (0.0)	5,053 (9.9)
Non-toxic goiter/nodules ¹³	3,858 (7.6)	0 (0.0)	4,131 (8.1)
Other/unknown ¹⁴	305 (0.6)	0 (0.0)	398 (0.8)
Digestive			
Colon or rectum polyps/ benign neoplasms	8,626 (17.0)	5,395 (10.6)	8,224 (16.2)
Inflammatory bowel disease (IBD)	1,016 (2.0)	640 (1.3)	453 (0.9)
Crohn's disease	141 (0.3)	67 (0.1)	79 (0.2)
Ulcerative colitis	730 (1.4)	552 (1.1)	337 (0.7)
Crohn's disease and ulcerative colitis	144 (0.3)	17 (<0.1)	25 (<0.1)
IBD, unspecified	1 (<0.1)	4 (<0.1)	12 (<0.1)
Bone Disease			
Osteoporosis ¹⁵	526 (1.0)	2,472 (4.9)	3,727 (7.3)
Osteopenia ¹⁵	7,034 (13.8)	2,985 (5.9)	5,751 (11.3)
Osteoporosis or osteopenia ¹⁵	4,062 (8.0)	672 (1.3)	951 (1.9)
Reproductive ¹⁶			
Endometriosis ¹⁷	7,818 (15.4)	0 (0.0)	1,255 (2.5)
Uterine fibroids ¹⁸	16,472 (32.4)	0 (0.0)	3,733 (7.3)
Polycystic ovary syndrome (PCOS)	1,310 (2.6)	2,007 (3.9)	246 (0.5)
Other			
Cataracts	3,458 (6.8)	4,037 (7.9)	13,386 (26.3)
Depression ¹⁹	10,931 (21.5)	5,596 (11.0)	2,729 (5.4)
Parkinson's disease (PD) ²⁰	39 (0.1)	58 (0.1)	316 (0.6)
Gout	458 (0.9)	690 (1.4)	862 (1.7)

- ¹ Data release 10.1 includes events from follow-up phases that closed on or before 10/12/2020, excluding all data from participants who have withdrawn their data from the study (n=4).
- ² Unknown if diagnosis at or prior to baseline vs. post-baseline (i.e. incident case)
- ³ Other reported conditions that have not systematically been asked about include other acute ischemic heart disease (baseline: n=6, unknown timing: n=33, incident: n=248), chronic ischemic heart disease (baseline: n=12, unknown timing: n=139, incident: n=617), and transient global amnesia (baseline: n=1, unknown timing: n=2, incident: n=34).
- ⁴ Includes those who reported asthma symptoms at baseline (unknown timing: n=238, incident: n=28).
- ⁵ Asked directly only at baseline. Unknown timing and incident diagnoses are from: help desk reports, open-ended responses on follow-ups [i.e. responses to “Any other health conditions? (Please specify)”], and from National Death Index (NDI) Plus / death certificate reports.
- ⁶ Includes reports of borderline or Type 2 Diabetes (baseline: n=1, incident: n=4) and reports of borderline or non-specific diabetes (baseline: n=179, unknown timing: n=109, incident: n=409).
- ⁷ Includes reports of hypertension that are possibly borderline (baseline: n=111, incident: n=12).
- ⁸ Asked directly only at baseline and then not until the fourth detailed follow-up questionnaire. Additional incident diagnoses are from help desk reports and open-ended questions on follow-ups [i.e. responses to “Any other health conditions? (Please specify)”]
- ⁹ Includes reports of borderline or high cholesterol (baseline: n=4, unknown timing: n=3, incident: n=335).
- ¹⁰ Participants may have reported more than one type of thyroid condition. Reports of thyroid disease after thyroid cancer diagnoses are not included.
- ¹¹ Hyperthyroidism was originally reported as unknown timing for n=709; reports were imputed as baseline for n=375 and as incident for n=334.
- ¹² Hypothyroidism was reported as unknown timing for n=1,794; reports were imputed as baseline for n=768 and as incident for n=1026.
- ¹³ Non-toxic goiter/thyroid nodules was reported as unknown timing for n=1,519; reports were imputed as baseline for n=239 and as incident for n=1,280.
- ¹⁴ Other/unknown thyroid disease was reported as unknown timing for n=181; reports were imputed as baseline for n=8 and as incident for n=173.
- ¹⁵ At baseline, participants were asked about “osteoporosis or osteopenia”. For all follow-ups, osteoporosis and osteopenia are asked separately. For many participants, these diagnoses could not be separated and are classified as “osteoporosis or osteopenia”.
- ¹⁶ Other reported condition that has not systematically been asked about includes adenomyosis (baseline: n=6 and incident: n=27). Adenomyosis was originally reported as unknown timing for n=3; reports were imputed as baseline for n = 3
- ¹⁷ Endometriosis diagnosis was originally reported as unknown timing for n=1,794; reports were imputed as baseline for n=964 and as incident for n=830.
- ¹⁸ Uterine fibroids diagnosis was originally reported as unknown timing for n=3,339; reports were imputed as baseline for n=1,408 and as incident for n=1,931.
- ¹⁹ Depression questions were asked differently in baseline versus follow-ups. Baseline question: Has a doctor or physician ever told you that you have clinical depression? Follow-up question: Has a doctor or physician ever told you that you have depression?
- ²⁰ PD numbers have not been updated using the recent PD adjudication algorithm (developed as part of the PD validation sub-study). Algorithm includes medical documentation & separate PD questionnaire collected as part of this validation sub-study, and/or other participant-collected data for those who did not complete this sub-study.