

**All Approved and Funded Ancillary Studies
(As of 3/20/18)**

Anc #	Title		WHI PI	Status	Case Controls	Study Dates	Approved Proposals and Published Manuscripts
608	Metabolomics, bacterial translocation and risk of liver cancer	McGlynn	N	Approved	General population Cancer of Liver:256 Controls:256 *238 participants from AS296 (119 liver cancer cases and 119 controls); 137 new cases and 137 controls (all new cases and controls)	02/01/18- 02/01/19	
606	Phthalate metabolites and risk of hip fracture	Reeves	N	Approved	General population Fracture - Hip:438 Controls:1314 *438 adjudicated and self-reported hip fracture cases occurring after AV3; 1314 controls	09/01/18- 08/31/23	
604	Using machine-learning approach to develop a circulating miRNA-based classifier for breast cancer	Chen	N	Approved	General population Breast Cancer - Invasive:600 Controls:600	07/01/18- 06/30/23	
603	PREcision Disease preventIon via somatiC muTagenesis enumeratION (PREDICTION)	Bielas	N	Approved	OS Pancreatic Cancer:75 Colorectal Cancer:75 Ovarian Cancer:75 Cancer of Lung:75 Cancer of Bladder:75 Breast Cancer - Invasive:75 Controls:450	07/01/18- 06/30/23	
602	The 1940 census data linkage to measure the early life environment	Rehkopf	N	Approved	General population	06/01/18- 06/30/23	
601	Obesity-related metabolomic phenotypes and breast cancer risk	Tobias	N	Approved	OS Breast Cancer - Invasive:500 Controls:500 *500 incident adjudicated invasive breast cancer cases and 500 controls, with date of diagnosis occurring >1 year after Year 3 blood draw	07/01/18- 06/30/22	
599	Vaccine targeting Th2 to inflamed adipocytes to reduce breast cancer risk related to obesity	Disis	N	Approved	General population Breast Cancer - Invasive:348 Controls:348 *non-hormone users	12/01/17- 12/31/21	
598	Vitamin D and the structure and function of the neurosensory retina	Millen	Y	Approved	General population	12/01/18- 11/30/22	

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597	Metabolomic profiles and liver cancer risk; a nested case-control study in the Women's Health Initiative	Hsing	N	Approved	General population Cancer of Liver:220 Controls:440	02/01/19- 01/31/23	
596	This is my story? Participant comment on what is going well through the aging process	Tinker	Y	Approved	General population	10/01/17- 09/30/18	
592	Inflammation and breast cancer risk and mortality	Smith-Warner	N	Approved	General population	06/01/18- 05/31/22	
591	Genomic characterization of lung cancer in female never-smokers	Berger	N	Funded	General population Cancer of Lung:150 *LILAC ppts	02/01/18- 01/31/29	
590	A case-cohort study evaluating FBN1 genotype, plasma levels of asprosin, and the development of type 2 diabetes among postmenopausal women	Liu	Y	Approved	OS Type 2 Diabetes:3691 Controls:3691 *7,382 participants (3,691 incident diabetes; 3,691controls)	07/01/18- 06/30/21	
589	WHISPER: Falls and Fractures	Cauley	Y	Approved	General population	07/01/18- 06/30/23	
588	Novel bacterial oncoprotein AvrA: mechanistic and epidemiologic studies	Kato	N	Approved	General population Colorectal Cancer:500 Controls:500 *Cases from LILAC, controls from WHI extension study	09/01/18- 08/31/23	
587	Dicarbonyl stress, advanced glycation endproducts and risk of pancreatic cancer	Jiao	Y	Approved	General population	12/01/18- 11/30/23	
586	Identification and validation of tumor-associated autoantibodies as markers for early detection of ovarian cancer	Kaaks	N	Approved	General population Ovarian Cancer:227 Controls:454	01/01/18- 12/31/22	
584	Epigenetic age as a marker of reproductive age and modifier of cancer risk among postmenopausal women	Binder	N	Approved	General population Breast Cancer:200 Controls:200 *Sample requested from: 400 participants; a) 300 with prior estradiol measurements (179 invasive breast cancer cases; 121 controls); b) 100 with prior estradiol measurements (21 invasive breast cancer cases; 79 controls).	05/01/18- 04/30/21	
582	Role of the gut microbiome in age-related macular degeneration: A pilot study for mail-based stool collection in aging women	Millen	Y	Approved	General population	12/01/16- 08/31/17	

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581	Risk and survival of endometrial cancer molecular subtypes	Chen	Y	Approved	General population Endometrial Cancer:339 Controls:2034 *LILAC cases	12/01/18- 11/30/22	
576	Whole genome sequence analysis of ischemic stroke in the Women's Health Initiative	Reiner	Y	Funded	General population Controls:1359 *With WGS data from TOPMed (AS564)	04/05/17- 01/31/21	
575	Arsenic metabolic efficiency and risk of diabetes and cardiovascular disease	Pollitt	N	Approved	General population CHD:720 Stroke:560 Controls:800 *800 cases of diabetes, 560 cases of stroke, 720 cases of CHD and 800 controls	09/01/17- 08/31/21	
574	27-Hydroxycholesterol and Breast Cancer Risk in the Women's Health Initiative Hormone Therapy Trial	Simon	Y	Approved	HT Breast Cancer - Invasive:618 Controls:618*Cohort is HRT. 618 invasive breast cancer cases that occurred within 8 years after enrollment in HT/ 618 controls	07/01/18- 06/30/20	
573	Adipose tissue depots, cancer risk and mortality in postmenopausal women	Bea	N	Approved	General population	04/01/17- 03/31/21	
572	COSMOS Cognition: The effect of dietary flavanols on cognition	Brickman	N	Funded	General population	04/01/16- 01/31/20	
569	Validation of pre-diagnostic biomarkers of pancreatic cancer	Cheema	N	Approved	General population Pancreatic Cancer:900 Colorectal Cancer:150 Controls:900 *colorectal cancer cases = disease controls	07/01/18- 06/30/23	
567	Relationship of physical activity and the prevalence of the C9ORF72 gene mutation in ALS cases within the WHI cohort	Talbott	N	Approved	General population	04/01/17- 03/31/19	
566	Large-scale common variant analysis of atherosclerotic cardiovascular disease outcomes in the Women's Health Initiative	Assimes	Y	Approved	General population CHD:10330 Controls:9670 *Cases: ASCVD including definite CHD death, probably CHD death, myocardial infarction, definite silent myocardial infarction, coronary revascularization, peripheral arterial disease, carotid artery disease, transient ischemic attack, and ischemic stroke.	10/01/16- 09/30/21	

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565	Development of diagnostic biomarkers for the early detection and risk of breast cancer	Shields	N	Approved	OS Breast Cancer:904 Controls:1000 *Cases: n=300 primary invasive Luminal A (ER+ or PR+, HER2-) breast cancer cases; n=50 unknown type; n=235 Luminal B (ER+ or PR+ and HER2+); n=94 HER2 expressing (ER-/PR-/HER2+) and n=225 Triple Negative (ER-/PR-/HER2-)	09/01/17-08/31/20	
564	Trans-Omics for Precision Medicine (TOPMed) - Sample Processing	Kooperberg	Y	Analysis	General population VTE:1100 Ischemic Stroke:4000 Hemorrhagic Stroke:900 Controls:5100	01/01/16-09/30/16	3121, 3122, 3123, 3124, 3125, 3126, 3127, 3128, 3129, 3130, 3131, 3132, 3133, 3210, 3211, 3212, 3213, 3214, 3215, 3216, 3277, 3278, 3279, 3280, 3281, 3282, 3283, 3284, 3285, 3286, 3287, 3288, 3289, 3290, 3291, 3292, 3293, 3437, 3438, 3439, 3440, 3441, 3442, 3443, 3444, 3445, 3540, 3541, 3542, 3543, 3544, 3545, 3546, 3547, 3548, 3549
562	Sex steroid hormones in women and development of primary liver cancer	McGlynn	N	Analysis	General population Cancer of Liver:116 Controls:243 *Cases and controls are all AS296 participants with sufficient sample. OS: 90 liver cancer cases and 165 controls; CT: 26 liver cancer cases and 78 controls.	09/08/16-12/08/16	3419
560	Serum and urine metabolite profiles of diet measured by weighed food	Moore	N	Funded	General population Controls:153 *153 NPAAS-FS participants	07/29/16-07/28/18	3238
559	Vitamin D and the incidence and progression of age-related macular degeneration	Millen	Y	Approved	OS Controls:897 *897 CAREDS 2 participants	04/01/17-03/31/21	
558	Endocrine disrupting chemicals, estrogenic phytochemicals, and risk of cardiovascular disease in White and Black postmenopausal women	Liu	Y	Approved	General population CHD:662 Controls:662	07/01/16-06/30/20	

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556	The relationship of visceral adipose tissue to CV risk in older women and the modifying influence of subcutaneous fat and sarcopenia	Laddu	N	Approved	General population Controls:110 *110 WHI Stanford participants who previously participated in the OPACH calibration study or the Long Life Study	07/01/16-06/30/21	
555	Prospective studies of ocular, nutritional, and lifestyle factors reducing risk for cognitive impairment and decline in older women	Mares	Y	Approved	OS Controls:1805 *~1,805 CAREDS (AS105)	06/01/16-05/30/21	
554	The descriptive and etiologic epidemiology of abdominal adipose tissue depots in the WHI and cardio-metabolic risk	Odegaard	N	Funded	General population	06/15/17-04/30/21	3586
553	Collection and molecular characterization of recurrent and metastatic colorectal tumors	Peters	N	Funded	General population Colorectal Cancer	07/01/15-08/31/19	
552	Harmonized and pooled approaches in multiple cohorts to understand low concentration health impacts of air pollutants	Kaufman	N	Approved	General population	02/01/16-01/31/20	
551	Risk and penetrance of mutations from breast cancer testing panels in the general population	Kraft	N	Funded	General population Breast Cancer:5500 Controls:5500 *5,500 breast cancer cases and 5,500 matched controls (with preference toward those cases/controls used in M18)	09/25/14-08/31/19	
548	Women's Health Initiative sleep hypoxia effects on resilience (WHISPER)	Baker	N	Funded	General population Any Cancer	09/01/17-06/30/21	3532, 3533
547	Genetic and environmental influences on optic nerve cupping	Vajaranant	N	Approved	CT	04/16/16-04/30/18	
546	A prospective study of endogenous sex hormones, inflammatory markers, insulin and risk of hematopoietic malignancies	Hosgood	N	Approved	General population Lymphoma, Non Hodgkins:822 Multiple Myeloma:275 Controls:550	07/01/17-06/30/20	
545	Prospective identification of pre-leukemic clones in the peripheral blood of women with acute myeloid leukemia prior to the onset of overt disease	Desai	N	Funded	General population Other/Unknown Cancer:215 Controls:212 *215 cases of AML, 212 age-matched controls	12/01/15-11/30/19	3363
538	Genomic analysis of breast cancer genes in the WHI: creation of a public genomics resource	King	N	Funded	General population Controls:30000	08/01/15-06/30/21	3436

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537	A novel endogenous SERM and cholesterol metabolite, 27-hydroxysterol, and fracture risk in postmenopausal women	Lee	N	Analysis	General population Fracture - Hip:227 Fracture (general):200 Controls:400 *From BAA07/W9	03/01/15-08/31/15	2944
536	Targeted serum metabolites profiling in early detection of pancreatic cancer	Jiao	Y	Analysis	General population Pancreatic Cancer:48 Controls:48 *48 pancreatic cancer cases, 48 matched controls.	03/01/15-08/31/15	2926
534	Longitudinal study of DNA methylation as a mediator between age and cardiovascular risk	Conneely	N	Analysis	General population Controls:43 *43 AS315 participants who have previously had methylation analysis performed at two previous timepoints.	03/01/15-08/31/15	2684, 3188, 3189, 3190, 3307, 3314, 3339, 3381
531	Feasibility study to evaluate gut microbiome and CVD-related measures in older women	LaMonte	N	Analysis	OS	03/01/15-08/31/15	
525	Assessing sodium and potassium in 24-h and spot urines: feasibility of calibrating self-reported diet for use in WHI CVD association studies	Tinker	Y	Analysis	General population Controls:150 *All NPAAS-FS with both 24-hour urine and first void urine	03/01/15-08/31/15	2974
523	Feasibility study to evaluate haptoglobin phenotype and risk of CHD and stroke among older diabetic women	Donahue	N	Analysis	OS CHD:100 Stroke:100 Controls:200 *100 cases of CHD or coronary revasc AND diabetes; 100 cases cases of stroke AND diabetes; 100 diabetic cases w/o CHD, revasc, or stroke; 100 non-diabetic cases w/o the outcomes	03/01/15-08/31/15	
518	A pilot RNA-seq study among Long Life Study participants of the WHI	Assimes	Y	Analysis	General population Controls:100 *100 AA from LLS who have data from BA23 and BA25, and with no history of CVD and no incident CHD	03/01/15-08/31/15	2955, 2996
516	APOL1, sickle cell trait, and chronic kidney disease in aging women	Franceschini	N	Complete	General population Controls:6304 *6,304 African American (not in PAGE 2)	03/01/15-08/31/15	

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515	Molecular pathological epidemiology of colorectal cancer	Peters	N	Funded	General population Colorectal Cancer:1000 Controls:0 *FFPE DNA (extracted at Mayo) & germline DNA from ~450 LILAC CRC Cases (more cases, up to 1000, if/when available)	09/01/15-08/31/19	
514	WHISH-4-Muscle	Jackson	Y	Approved	General population	10/01/15-09/30/20	
511	WHI strong and healthy silent atrial fibrillation recording (WHISH-STAR)	Perez	N	Funded	General population 1402 Ppts@10 clinics	04/01/17-03/31/22	3521
510	WHISH-2- Prevent Heart Failure	Eaton	Y	Funded	General population	08/01/16-05/31/21	
509	Biomarkers of lung cancer risk	Johansson	N	Funded	General population Cancer of Lung:240 Controls:240 *480 ever smokers	04/01/17-03/31/22	3412, 3503, 3529
508	Prevalence and penetrance of breast cancer-associated mutations identified by multiple-gene sequencing	Kurian	N	Funded	General population Breast Cancer - Invasive:2500 Controls:2500	11/01/16-10/31/18	3562
507	Microbiome of subgingival dental plaque and tumor tissue in postmenopausal women with invasive cancer: an osteoperio ancillary study	Mai	N	Analysis	General population	10/01/14-12/31/15	
505	Validation of colon cancer early detection markers	Lampe	N	Funded	OS Colorectal Cancer:288 Controls:576 *Cases requested with colorectal cancer diagnosis with EDTA plasma specimen drawn up to 24 months prior.	05/04/16-03/31/21	
504	A pilot study of a novel qPCR-based measure of relative telomere length in the WHI	Assimes	Y	Funded	General population Controls:120	02/01/15-01/31/16	2774
498	Nutrition and physical activity assessment study (NPAAS) Competing renewal (NPAAS) Competing Renewal	Neuhouser	Y	Funded	General population Colorectal Cancer:181 Breast Cancer - Invasive:577 Controls:758 *758 WHI case/control pairs from BMD + 450 NPAAS (AS218) ppts + 153 NPAAS-FS (AS272)	01/01/16-12/31/19	1564, 1903, 2073, 2304, 2439, 2462, 2591, 2600, 2974, 3073, 3171, 3180, 3241
497	Cataract and age-related macular degeneration in a supplementation trial of a multivitamin and cocoa flavanol	Christen	N	Funded	General population	09/30/16-08/31/21	

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495	COSMOS-Mind	Espeland	N	Funded	General population	06/01/16-02/28/21	3553
493	Effects of cocoa flavanols on fractures and bone health	LeBoff	N	Approved	General population	07/01/17-06/30/22	
487	Cocoa flavanols and multivitamin for prevention of diabetes in men and women	Liu	Y	Approved	General population	04/01/17-03/31/21	
486	Effect of cocoa-flavanol supplementation on heart failure burden	Eaton	Y	Approved	General population	04/01/16-03/31/21	
482	Serologic inflammatory markers and esophageal adenocarcinoma risk	Cook	N	Analysis	General population Cancer of Esophagus:51 Controls:51	08/07/15-08/06/16	3273
481	Cardiovascular disease and aircraft noise exposure	Peters	N	Funded	General population	09/01/14-06/30/20	2685, 3396
479	Longitudinal Study of Melatonin, Cortisol and Risk of Colorectal Cancer	Jiao	Y	Approved	General population Colorectal Cancer:650 Controls:650 *From AS292 as well as newly selected	07/01/18-06/30/22	
476	APOL1, sickle cell trait and risk of chronic kidney disease in African Americans	Franceschini	N	Approved	General population Controls:13468 *13,468 African American with DNA available	09/01/16-08/31/20	2714, 2715, 2819, 2863, 2996
473	Examining the effectiveness of tobacco control policies on smoking behaviors and tobacco-related health outcomes among post-menopausal women: An analysis of the WHI	McCausland	N	Analysis	General population	02/01/14-06/30/14	2416, 2417
471	Macular pigment in aging and disease	Mares	Y	Funded	OS 980 Ppts@2 clinics Controls:464 *464 CAREDS (AS105)	06/01/15-05/31/20	
464	Classification of participants in the WHI by rural-urban residence	Simon	Y	Complete	General population	12/30/13-11/30/14	2097
461	Early detection of ovarian cancer through epigenetic factors in the WHI	Genkinger	N	Funded	General population Ovarian Cancer:610 Controls:610	03/07/16-02/28/21	3248
458	Phthalate metabolites and breast cancer risk in the Women's Health Initiative	Reeves	N	Funded	General population Breast Cancer - Invasive:500 Controls:1000 *from BMD sites	04/15/15-03/31/19	2889, 2890, 3003, 3134, 3470
455	Helicobacter pylori protein-specific antibodies and colorectal cancer risk	Epplein	N	Funded	OS Colorectal Cancer:807 Controls:807	05/01/15-04/30/19	3326, 3557
452	Glycemic control, quality of life and CVD in older diabetic women	Ma	N	Approved	OS	07/01/17-06/30/22	

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450	Physical activity to improve cardiovascular health in women: a pragmatic trial (WHISH) DCC	Kooperberg	Y	Funded	General population 2158 Ppts@11 clinics	02/08/15- 02/01/20	
449	Validity of self-reported medication use compared with pharmacy records among a cohort of postmenopausal women	Drieling	N	Complete	General population 288 Ppts@CCC-RC	08/01/13- 12/31/15	2638
444	Feasibility of hemoglobin A1c measurement by mail for diabetic women in the WHI	Ma	N	Complete	General population Type 2 Diabetes:300	10/01/13- 09/30/14	
442	Lichens, polycyclic aromatic hydrocarbons, and cardiovascular disease risk factors	Donovan	N	Analysis	General population	10/01/13- 09/30/14	2731
440	Inflammation markers in breast tissue and body mass index and in breast cancer	Neuhouser	Y	Analysis	General population	03/01/14- 08/31/15	
439	Nutrition and physical activity interest survey	Tinker	Y	Complete	General population 500 Ppts@11 clinics	05/24/13- 08/31/13	
438	Hemostatic and inflammatory biomarkers as risk factors for hemorrhagic stroke	Greenland	Y	Complete	OS Hemorrhagic Stroke:75 Controls:75	02/01/14- 04/14/14	2520
429	The relationship between neighborhood walkability and health behaviors, body weight, health outcomes, and mortality risk in the WHI cohort	Seguin	N	Analysis	General population	09/01/13- 05/30/14	2378, 2576, 2734, 2908, 2909
427	(Pilot study II) Trial of a cocoa supplement and multivitamin for CVD and cancer prevention among WHI participants	Manson	Y	Complete	General population 577 Ppts@11 clinics	01/01/13- 05/31/13	
425	A pilot study of urinary bisphenol-A in the Women's Health Initiative	Luo	Y	Complete	General population	11/01/12- 09/30/13	2287
423	Validating multiple stable isotope measures of diet within the NPAAS Feeding Study (AS272)	O'Brien	N	Complete	General population Controls:153 *153 NPAAS-FS (AS272)	02/17/14- 01/31/17	3056, 3494
422	Cardiovascular biomarkers in WHI Native Americans	Kooperberg	Y	Complete	General population Controls:594 *PAGE Native Americans - 594 (same as pull M6-350)	04/01/13- 08/31/13	3202
417	Dietary metabolite profiling of nutrition and physical assessment	Raftery	N	Analysis	General population Controls:153 *153 NPAAS-FS	01/01/13- 08/31/13	3171

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416	Biomarkers of human age and longevity	Reis	N	Funded	General population Controls:350 *100 women with plasma from baseline and Long Life Study; 50 women with recently frozen plasma (not necessarily LLS); 100 short-lived and 100 long-lived women	10/01/12-09/30/13	
415	Assessing DNA methylation relationships in blood and tumor tissue	Malone	N	Analysis	General population Breast Cancer - Invasive:73 *73 participants from W47 BTTP with tumor specimen available	11/01/12-09/30/13	
414	Social networks and health among women in the WHI: A new area of inquiry	Cene	N	Analysis	General population	11/01/12-09/30/13	3177
413	Feasibility of sleep apnea assessment in WHI participants: Prelude to an ancillary study of sleep, CVD and cognitive impairment	Stone	N	Complete	General population Controls:56 *Participants selected from 100 WHIMS ppts	11/01/12-09/30/13	2853
411	Novel predictors of excess mortality in women with rheumatoid arthritis	Mackey	Y	Analysis	General population Controls:162 *162 BAA20 with anti-CCP+ RA participants who died during follow-up	11/01/12-09/30/13	2285
408	Validating the chronic condition warehouse (CCW) alzheimer's disease and related disorders of senile dementia identification algorithm in WHI-linked CMS data	Bensink	N	Complete	General population	11/01/12-09/30/13	
407	A feasibility study to assess the accuracy of self-reported glaucoma outcomes and participant interest in participating in ancillary glaucoma studies	Vajaranant	N	Complete	General population 200 Ppts@3 clinics	11/01/12-09/30/13	
405	Pharmacogenomics of risk factors for cardiac arrhythmias in global populations	Avery	N	Analysis	General population	11/01/12-09/30/13	2064, 2068, 2122
403	Systemic and breast-cancer specific autoimmunity in the WHI	Parks	N	Analysis	General population	11/01/12-09/30/13	2275, 3517
402	Prospective study of biomarkers and risk factors for ALS incidence and progression	Ascherio	N	Funded	General population Controls:363 *121 ALS cases and 242 controls	07/01/14-10/31/18	3147, 3482
400	Methylation profiling of early stage lung tumors in short and long-term survivors	Cote	N	Complete	General population	11/01/12-09/30/13	
398	Enhanced dietary assessment to evaluate post-trial cancer outcomes in the WHI dietary modification trial.	Tinker	Y	Complete	DM Breast Cancer:796 Ovarian Cancer:70 *4DFRs	01/01/13-08/31/13	1930

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397	Assessment of fibromyalgia and polysomatic distress in the WHI: Pilot study	Walitt	Y	Complete	General population	11/01/12-09/30/13	
391	Defining and timing of sudden arrhythmic death in WHI	Eaton	Y	Analysis	General population	11/01/12-09/30/13	2421
389	A pooled investigation of multiple myeloma risk in relation to circulating adiponectin levels	Hofmann	N	Analysis	General population Multiple Myeloma:200 Controls:400 *Participants will be the cases and controls from AS207	09/25/13-09/24/14	2420
386	Natural environment and cardiovascular incidence and mortality: The WHI	Donovan	N	Complete	General population	09/01/12-09/30/14	1964
385	WHI Strong & Healthy (WHISH) pilot/feasibility study (for AS360)	Stefanick	Y	Complete	CT	07/15/12-09/30/12	2136
383	Circulating vitamin D levels & risk of breast and colorectal cancer: a pooled analysis	Smith-Warner	N	Analysis	CaD Colorectal Cancer:29 Breast Cancer - NonInvasive:29 *From W24 and W15	02/01/13-06/30/13	
382	The oral microbiome and periodontitis: Longitudinal study in older women in the Buffalo osteoperio study	Wactawski-Wende	Y	Funded	OS Controls:600 *AS98 participants	08/01/14-07/31/19	2598, 2678, 3063, 3265
380	Women's driving and mobility study	Shumaker	Y	Analysis	HT Controls:4174 *WHIMS & WHIMS-Y participants are eligible	09/01/13-06/30/16	2991
378	Inflammatory pathway analysis and risk of colorectal cancer	Peters	N	Approved	General population Colorectal Cancer:1100 Controls:1100	07/01/15-06/30/19	
377	Health risks and benefits from calcium and vitamin D supplementations: analysis of WHI data	Prentice	Y	Complete	General population	01/01/12-12/31/12	
374	Biomarkers of HPV infection and risk of two increasing cancers	Schlecht	N	Funded	General population Oral Cancer Unspecified:61 Anus Cancer:85 Controls:350 *61 head and neck cancer cases; 85 anal cancer cases; 29 vaginal cancer cases; 350 controls 29 vaginal cancer cases, 61 head and neck cancer cases (=Oral cancer unspecified), 85 anal cancer cases, 350 controls	09/01/15-08/31/19	3515

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373	Understanding older smokers' unique challenges in quitting: prelude to a smoking cessation RCT in the WHI extension 2	Tindle	Y	Analysis	General population	05/01/12-09/30/12	2034
371	Continuity of care for acute myocardial infarction in the WHI	Kucharska-Newton	N	Funded	OS MI	07/01/14-06/30/16	1765, 1766, 1767
370	WHI cancer survivor cohort (LILAC)	Anderson	Y	Funded	General population 8357 Ppts@11 clinics Any Cancer	02/15/13-01/31/19	2277, 2350, 2353, 2364, 2498, 2720, 2780, 2796, 2930, 3050, 3066, 3178, 3248, 3392, 3397, 3413, 3449, 3455, 3488, 3508, 3560
362	Advanced glycation end-products and risk of pancreatic cancer	Jiao	Y	Analysis	General population Pancreatic Cancer:715 Controls:1429 *CT cases/controls from placebo group only	09/20/13-07/31/17	2574, 2788, 2821, 2839
360	Physical activity to improve cardiovascular health in women: a pragmatic trial (WHISH) CCC	Stefanick	Y	Analysis	General population 49340 Ppts@10 clinics	02/08/15-01/31/20	2136
355	Randomized trial of cocoa extract and multivitamins for CVD and cancer prevention	Manson	Y	Funded	General population Any Cancer	01/01/15-12/31/19	
352	(Pilot study) Trial of a cocoa supplement and multivitamin for CVD and cancer prevention among WHI participants	Manson	Y	Complete	General population 835 Ppts@11 clinics	10/31/11-04/30/12	
349	Exomic variants and their relation to complex traits in minorities of the WHI (PAGE II)	Kooperberg	Y	Funded	General population Controls:10600 *dbGaP-able OS and CT minority ppts; Whole Genome Sequencing: commercial use dbGaPable predominately native minorities.	09/01/13-05/31/17	
346	Serum, vitamin D, and risk of melanoma in WHI-OS	Tang	Y	Complete	OS Melanoma - Skin:718 Controls:718 *Whites only	07/01/12-06/30/13	1312
343	Cardiovascular disease biomarkers and mediation of hormone therapy effects	Prentice	Y	Complete	HT CHD:20 Stroke:22 Controls:42 *Cases and controls are from the W57 participants in the 6% subsample	08/01/11-07/31/14	2155

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340	Evidence for establishing optimum protein intake in older adults (WHI-FI)	Beasley	N	Analysis	General population	02/01/12-01/31/14	2261, 2307, 2424, 2805,
337	Lymphocyte subpopulations and clonal expansions in older women: epidemiologic factors and relationship to health and aging during the WHI 2010-2015 extension	Edlefsen	Y	Analysis	CT Controls:600 *~600 Long Life Study participants [Flow Cytometry done on leftover whole blood from CBC]	03/01/12-02/28/14	2474, 2746
332	Utility of the AVIR score in predicting incident coronary heart disease in the WHI	Assimes	Y	Analysis	General population CHD:700 Controls:700 *case cohort design ~700 cases with incident CHD within 5 years of baseline/700 random controls	08/01/11-07/01/13	
327	Serum 25-hydroxyvitamin D and lung cancer risk in never-smoking, postmenopausal women	Neuhouser	Y	Analysis	General population Cancer of Lung:300 Controls:300	01/01/13-12/31/15	2294
325	Racial/ethnic differences in 25(OH)D and PTH levels and CVD among women	Song	N	Funded	OS CHD:2050 Controls:2800	08/01/13-04/30/18	2852
321	Gentoxic estrogen ratio: a novel estrogen biomarker and breast cancer risk	Reding	N	Analysis	General population Breast Cancer - Invasive:481 Controls:481 *age-matched controls	09/01/13-07/31/17	3266, 3267
316	Validation of promising breast cancer early detection biomarkers	Li	N	Analysis	OS Breast Cancer - Invasive:322 Controls:322 *blood within 17 months of dx; exclude cases from BA05	11/01/10-07/31/15	1448, 1782, 1813, 3044
315	Epigenetic mechanisms of PM-mediated CVD risk	Whitsel	Y	Funded	CT Controls:2200 *2,200 ppts from 6% CT subsample	08/06/12-04/30/17	1740, 2571, 2572, 2639, 2684, 2745, 2755, 2813, 2860, 2956, 3023, 3083, 3093, 3188, 3189, 3190, 3234, 3251, 3275, 3307, 3312, 3313, 3314, 3329, 3339, 3359, 3360, 3361, 3381, 3415, 3417, 3420, 3448, 3577
311	Global DNA methylation measured in prospectively collected blood samples and risk of bladder cancer among post-menopausal women	Bhatti	N	Funded	General population Cancer of Bladder:453 Controls:453 *Specifically papillary transitional cell bladder cancer	07/01/13-06/30/17	2895, 3023, 3234, 3275, 3339, 3361, 3381, 3420, 3559

Anc #	Title		WHI PI	Status	Case Controls	Study Dates	Approved Proposals and Published Manuscripts
308	Heavy metals and renal cell cancer risk (Pilot study)	Wilson	N	Complete	General population Cancer of Kidney:361 Controls:722	01/01/11-03/31/11	
304	Vitamin D status and periodontal disease	Millen	Y	Analysis	General population	05/05/10-04/30/12	1358, 1360, 1473, 1988, 2162, 2234, 2820, 3038
303	Saliva and serum inflammatory biomarkers in periodontitis: A study in older women	Wactawski-Wende	Y	Analysis	General population	09/22/09-08/31/11	1942
301	Expanded genome-wide association study of lymphoid malignancies and related disorders	Berndt	N	Analysis	General population Lymphoma, Non Hodgkins:1580 Lymphoma, Hodgkins:47 Multiple Myeloma:349 Controls:700 *Phase I: 1,365 (965 NHL cases/400 controls); Phase II: 1,311 (615 NHL cases, 349 MM cases, 47 HL cases, 300 controls)	09/15/10-09/19/17	1979, 1994, 2402, 2403, 2418, 2419, 2711, 2817, 3036, 3310, 3328, 3454, 3458
297	Associations of estrogens, estrogen metabolites, and androgens with risks of endometrial and ovarian cancers in a prospective case-cohort study	Trabert	N	Analysis	OS Endometrial Cancer:430 Ovarian Cancer:240 Controls:540	09/15/10-09/14/11	2389, 2390, 2762, 2763, 2764, 2765, 2766, 2947, 3053, 3366, 3367
296	Cohort consortium study of etiology of hepatocellular carcinoma in the United States	McGlynn	N	Analysis	General population Cancer of Liver:121 Controls:242	09/24/10-09/23/11	2238, 2242, 2251, 3330
294	Investigation of one-carbon metabolism pathway and lung cancer with the cohort consortium	Brennan	N	Analysis	General population Cancer of Lung:242 Controls:242	01/31/12-08/31/16	2026, 3040, 3217, 3319, 3320, 3484
292	Advanced glycation end products, the receptor, and colorectal cancer risk in WHI	Jiao	Y	Analysis	OS Colorectal Cancer:425 Controls:791 *From AS129	09/01/11-08/31/14	1901
290	Cadmium exposure and risk of breast cancer in the WHI	Newcomb	Y	Analysis	General population Breast Cancer - Invasive:508 Controls:1000	09/01/11-05/31/15	1412, 1629, 2107, 2128, 3158
289	Pooling validation studies with recovery biomarkers	Kipnis	N	Analysis	DM	11/01/10-10/31/14	2278, 2388, 2604, 2605, 2795, 3497
287	Metabolic syndrome, lifestyle factors and risk of periodontitis in older women	LaMonte	N	Analysis	OS	04/01/12-03/31/15	1870, 2179

Anc #	Title		WHI PI	Status	Case Controls	Study Dates	Approved Proposals and Published Manuscripts
286	OPACH: Objective physical activity and cardiovascular health in women aged 80 and older	LaCroix	Y	Analysis	General population 8564 Ppts@11 clinics	09/01/11- 04/30/17	2246, 2366, 2367, 2441, 2495, 2542, 2619, 2663, 2673, 2680, 2683, 2716, 2758, 2793, 2805, 2888, 2937, 2943, 2945, 2965, 2966, 2969, 3029, 3062, 3064, 3065, 3072, 3089, 3270, 3294, 3298, 3299, 3301, 3302, 3311, 3418, 3552, 3570
284	Obesity-related pathways and risk of benign proliferative breast disease	Rohan	Y	Complete	CT Benign Breast Disease:700 Controls:1400	10/01/12- 09/30/14	2125, 3202
282	Evaluation of serum markers for use in multi-stage ovarian cancer screening	Urban	Y	Complete	General population Ovarian Cancer:183 Controls:732	08/16/10- 08/31/16	381, 1504, 2975
275	Urinary levels of melatonin and risk of breast cancer	Sturgeon	N	Analysis	OS Breast Cancer - Invasive:260 Controls:519	08/01/10- 05/31/13	1443, 2690, 2971, 2972
272	WHI nutrition and physical activity assessment study (NPAAS) (Competitive Renewal)	Neuhouser	Y	Analysis	General population 154 Ppts@CCC-RC	07/01/10- 02/29/16	1273, 2278, 2304, 2388, 3238, 3241
271	Omega-3 and omega-6 fatty acids as a biomarker of hip fracture risk	Jackson	Y	Analysis	General population Fracture - Hip:400 Controls:400 *half BMD, half non-BMD	08/01/09- 07/31/10	1292, 1293, 2607
266	Serum levels of EGFR-signaling-network activators/inhibitor and risk of lung cancer	Ho	Y	Complete	General population Cancer of Lung:1384 Controls:1601 *1:2 matching for never smokers, 1:1 matching for former/current smokers; 321 CT control ppts; 500 cases from BA06	09/01/10- 08/31/15	1774, 2360, 2432, 2814, 3202
264	Modification of PM-mediated arrhythmogenesis in populations (MOPMAP)	Whitsel	Y	Analysis	General population Controls:3094 *5 geographical locations; ppts with ECG readings	08/01/10- 05/31/15	1009, 1157, 1160, 1174, 1199, 1299, 1633, 1740, 2078, 2466, 2467, 2468, 2510, 3020, 3059, 3083, 3086, 3222, 3227, 3342, 3580

Anc #	Title		WHI PI	Status	Case Controls	Study Dates	Approved Proposals and Published Manuscripts
263	Gene-hormone therapy interaction and the risk of breast cancer	Sun	N	Funded	General population Breast Cancer - Invasive:2690 Controls:1800 *583 E+P and 307 E-alone cases for GWAS; 1800 OS case/control pairs for sequencing	03/01/11-02/28/15	1621
262	Women's Health Initiative memory study of younger women (WHIMS-Y)	Rapp	N	Analysis	HT 1374 Ppts@43 clinics	10/01/08-05/05/16	1613, 1887, 2043, 2779, 2891, 2969, 3373
257	Nutritional and genetic risk factors for age-related macular degeneration	Mares	Y	Analysis	OS Eye:361 Controls:1426 *PI has a list of participants from AS105-CAREDS	12/01/10-11/30/13	1574, 1615, 1634, 2252, 2547
254	Telomere and its biochemical and genetic regulators as predictors for clinical diabetes in women	Liu	Y	Complete	OS Type 2 Diabetes:1800 Controls:2620	06/01/09-05/31/12	1224, 1604, 1620, 1650, 1673, 1913, 2029, 2072, 3170, 3275, 3357, 3358, 3490, 3535
252	Environmental determinants of cognitive aging in WHIMS	Chen	N	Funded	HT Controls:10279 *WHIMS & WHIMS-Y participants	07/01/08-07/31/21	1426, 1914, 2249, 2345, 2349, 2431, 2478, 2549, 2557, 2865, 3369, 3370, 3371, 3511, 3514, 3532, 3533
251	Acute cardiovascular disease & air pollution in WHI-Phase I	Wellenius	N	Funded	General population	07/01/12-03/31/17	2369, 2370, 2685, 2760, 2835, 3081, 3396
250	Genetic contributions to cognitive decline in normal and pathological aging in older post-menopausal women and modification by hormone therapy	Driscoll	N	Analysis	HT Controls:7479 *Phase 1: 2,266 WHISCA; Phase 2: 719 WHIMS. Phase 3 not yet funded for remaining 4,500 WHIMS	03/01/09-09/03/10	1556, 1714, 1715, 2153, 2345, 2865
244	Women's Health Initiative memory study epidemiology of cognitive health (WHIMS-ECHO)	Rapp	N	Analysis	HT	10/01/07-11/03/21	1748, 1781, 2729, 2779, 2927, 2928, 2929, 2969, 3318, 3353, 3373
242	DNA repair, telomere length and cutaneous malignant melanoma risk	Han	N	Complete	OS Melanoma - Skin:259 Controls:259 *Malignant melanoma	05/01/08-04/30/11	1163
238	Biochemical predictors of type 2 diabetes mellitus in women	Liu	Y	Complete	OS Type 2 Diabetes:700 Controls:1400 *Only minorities from AS132	03/01/10-05/31/12	1452, 1620, 1650, 1673, 1764, 2029, 2072, 2142, 2360, 2447, 2742, 3170, 3275, 3357, 3358, 3372
236	Choline/betaine habitual intake and chronic disease endpoints	Siega-Riz	N	Complete	General population	10/01/07-09/01/08	1294, 1398

Anc #	Title		WHI PI	Status	Case Controls	Study Dates	Approved Proposals and Published Manuscripts
235	Pilot study to explore assoc between task performance on fMRI w/ cog functioning and vascular, genetic & inflam. risk factors in WHISCA ppt characterized by differing body weight & waist-hip ratios	Kerwin	N	Complete	CT	11/01/06-06/30/09	
233	WHIMS (AS39) extension (See AS244)	Shumaker	Y	Analysis	HT 3074 Ppts@32 clinics	12/13/03-07/31/08	2176, 2281, 2283, 2433, 2549, 3318, 3353, 3373
226	Ambient air pollution and sleep disturbance in postmenopausal women	Chen	N	Analysis	General population	09/01/07-08/31/12	670, 844

Anc #	Title		WHI PI	Status	Case Controls	Study Dates	Approved Proposals and Published Manuscripts
224	GWAS for nonsynonymous SNPs in colon cancer (GECCO)	Peters	N	Funded	General population Colon cancer:1309 Controls:1309 * Stage 1: GWAS 556 cases/69 controls, Caucasian only; Stage 2: GWAS 1309/1309 cases/controls; Stage 3: 7600 SNPs	07/02/07-08/31/19	962, 1059, 1060, 1557, 1566, 1567, 1568, 1569, 1570, 1571, 1572, 1582, 1689, 1690, 1691, 1692, 1693, 1694, 1695, 1718, 1719, 1720, 1721, 1722, 1723, 1724, 1725, 1726, 1727, 1768, 1769, 1770, 1771, 1797, 1798, 1799, 1800, 1806, 1827, 1828, 1844, 1909, 1918, 1919, 1920, 1921, 1931, 1967, 1968, 1969, 1997, 2035, 2036, 2037, 2042, 2056, 2057, 2058, 2059, 2061, 2082, 2093, 2109, 2137, 2164, 2165, 2166, 2167, 2169, 2170, 2171, 2172, 2173, 2176, 2253, 2254, 2255, 2256, 2257, 2258, 2266, 2267, 2268, 2269, 2270, 2295, 2296, 2297, 2298, 2299, 2300, 2310, 2324, 2327, 2336, 2372, 2373, 2374, 2375, 2376, 2408, 2425, 2429, 2430, 2433, 2449, 2450, 2451, 2452, 2453, 2454, 2481, 2486, 2492, 2494, 2509, 2510, 2525, 2529, 2531, 2535, 2537, 2538, 2539, 2540, 2545, 2563, 2564, 2565, 2566, 2567, 2602, 2633, 2699, 2700, 2701, 2710, 2767, 2768, 2769, 2770, 2788, 2790, 2815, 2854, 2871, 2872, 2873, 2874, 2875, 2876, 2877, 2878, 2879, 2894, 2900, 2920, 2938, 2941, 2957, 2958, 2959, 3009, 3010, 3011, 3012, 3013, 3014, 3015, 3016, 3017, 3018, 3019, 3020, 3025, 3026, 3027, 3052, 3059, 3086, 3111, 3112, 3113, 3114, 3141, 3175, 3176, 3201, 3218, 3223, 3274, 3296

Anc #	Title		WHI PI	Status	Case Controls	Study Dates	Approved Proposals and Published Manuscripts
223	Women's Health Initiative cancer survivor cohort: biological, psychosocial, and behavioral predictors of survival: pilot study	Paskett	Y	Analysis	General population 310 Ppts@Columbus	10/01/05-09/30/14	2276, 2277, 2617, 2752
220	Neighborhoods, women, and coronary heart disease: a prospective study	Bird	N	Complete	General population	07/01/07-04/30/12	703, 704, 726, 824, 854, 1088, 1093, 1096, 1149, 1159, 1464, 1696, 1803, 3532, 3533
219	Diet and eye health in the WHI: end of trial study: pilot study	Mares	Y	Complete	DM 400 Ppts@Madison	01/01/06-12/31/06	577
218	WHI nutrition and physical activity assessment study (NPAAS)	Neuhouser	Y	Analysis	OS 450 Ppts@9 clinics	07/12/06-06/30/10	1178, 1273, 1385, 1532, 2106, 2278, 2388, 2439, 3119, 3241, 3335
217	Validation of the self-report of rheumatoid arthritis and systemic lupus erythematosus: The Women's Health Initiative	Walitt	Y	Complete	CT	07/01/04-06/30/06	635
216	Decision-making about cancer screening among older women	Messina	Y	Analysis	General population 1300 Ppts@Stonybrook	07/01/06-06/30/09	
214	Prospective cohort collaborative in pancreatic cancer epidemiology and pathogenesis (AS146 extension)	Fuchs	N	Analysis	OS Pancreatic Cancer:209 Controls:418 *Assays done on those missing in AS146; Pilot: 40 AV3 samples from controls	09/01/07-08/31/15	930, 936, 1075, 1175, 1182, 1405, 1406, 1407, 1408, 1837, 1974, 2432, 2637, 2642
208	Pro and anti-inflammatory cytokines and colorectal cancer	Ho	Y	Complete	OS Colorectal Cancer:500 Controls:900 *same cases/controls as AS129	04/25/08-03/31/12	1612
207	IGF and multiple myeloma	Colditz	N	Analysis	General population Multiple Myeloma:197 Controls:394	08/01/07-05/31/11	1164, 1833, 2432
206	Genetic variation in selenoenzymes and colorectal cancer	Peters	N	Analysis	OS Colorectal Cancer:805 Controls:805 *Same cases/controls as AS195; controls include 100 Y3 samples	07/01/06-06/05/15	815, 828, 1026, 1557, 2211
197	Validity of self-reported diabetes mellitus in the Women's Health Initiative	Margolis	Y	Complete	CT738 Ppts@4 clinics	07/01/07-02/28/11	1100, 1217
196	Heart failure evaluation in post-menopausal women: the Women's Health Initiative study	Klein	N	Complete	HT	09/30/07-08/31/10	364, 935

Anc #	Title		WHI PI	Status	Case Controls	Study Dates	Approved Proposals and Published Manuscripts
195	Candidate pathways in colorectal carcinogenesis: one-carbon metabolism and inflammation	Ulrich	N	Analysis	OS Colorectal Cancer:988 Controls:988 *Same cases/controls as AS206 where possible	05/01/08-01/31/14	530, 1181, 1226, 1227, 1377, 1561, 1652, 1654, 1734, 1735, 1951, 2062, 2138, 2211, 2214, 2325, 2396, 3275
192	Estrogen and progesterone-related genes and colorectal cancer risk	Zhang	Y	Complete	OS Colorectal Cancer:644 Controls:1288 *Requests 10% blind duplicates (96 pairs)	09/01/06-07/31/12	1126, 1507
191	Biomarkers and genetic factors related to sarcopenia in older women (includes AS199)	Chen	Y	Analysis	OS Sarcopenia:2800 *2800 for DNA, subset of 1400 for EDTA	09/15/07-06/30/15	1531, 1841, 1877, 1878, 2360, 2432, 2749
189	Biochemical and anthropometric heterogeneity among morbid obese women in the Women's Health Initiative observational study	Mackey	Y	Analysis	OS CHD:144 Controls:1172	05/01/06-04/30/11	698, 699, 1700, 2360, 3202
187	Serum fatty acids and incidence of ischemic stroke in women	He	N	Complete	OS Stroke:971 Controls:971 *shares cases and controls with AS126	04/01/08-03/31/12	944, 1493, 1873, 2607
183	Effects of hormone therapy on subclinical neurological pathology: WHIMS-MRI	Shumaker	Y	Analysis	HT E+P	07/01/04-06/30/11	542, 625, 626, 680, 683, 696, 727, 794, 883, 937, 979, 1047, 1058, 1115, 1150, 1267, 1414, 1426, 1498, 1518, 1525, 1526, 1631, 1786, 1787, 2001, 2428, 2544, 2582, 2836, 3085, 3258, 3369, 3370, 3371
181	Estradiol, cytokines, and bone turnover: effects on hip fracture	Cauley	Y	Complete	OS Fracture - Hip:400 Controls:400 *same as AS90	07/01/05-06/30/10	634, 681, 714, 878, 910
179	Frailty in WHI: drugs, inflammatory and genetic markers	LaCroix	Y	Complete	OS Frailty-disability:900 Controls:900	09/15/05-07/31/10	301, 302, 303, 662, 831, 2432
178	Mammographic density and invasive breast cancer	Pisano	N	Complete	CT 793 Ppts@34 clinics Breast Cancer	03/12/04-08/31/08	640
177	Relative risk differences between FFQs and food records	Subar	N	Complete	DM	09/30/03-09/30/04	

Anc #	Title		WHI PI	Status	Case Controls	Study Dates	Approved Proposals and Published Manuscripts
171	Analysis of heart rate variability from ultra-short records: the WHI study	Michael	Y	Complete	CT	01/01/03-06/01/03	
167	Sex hormones, risk factors, and risk of ER+ and ER- breast cancer	Cummings	Y	Complete	OS Breast Cancer:311 Controls:592	01/01/05-05/30/08	622, 1173, 1218, 2447, 3231
165	Subclinical thyroid dysfunction and risk of myocardial infarction and stroke	Lorenz	N	Complete	OS CHD:800 Stroke:591 Controls:3136	09/01/04-07/31/08	402, 403, 1836
163	Hormone use following the WHI E+P trial termination: a pilot study	Hays	Y	Complete	HT E+P	01/01/03-12/01/04	
160	An assessment of symptoms and symptom self-management for women abruptly stopping hormone replacement study pills	Valanis	Y	Complete	HT E+P	07/01/02-08/17/02	
153	Longitudinal changes in hip geometry and skeletal muscle	Chen	Y	Analysis	OS 47 Ppts@Tucson Fracture - Hip	08/15/03-06/30/10	340, 456, 487, 489, 547, 562, 566, 569, 633, 658, 687, 690, 888, 897, 960, 964, 1522
152	Growth factor genes and female breast, colorectal, and endometrial cancers	Ho	Y	Complete	OS Breast Cancer:900 Colorectal Cancer:500 Endometrial Cancer:300 Controls:900 *Same as AS129	08/01/03-07/31/08	559, 689, 1507, 2679, 3146
150	Effect of airborne particulate matter and other air pollutants on the incidence of cardiovascular events in the Women's Health Initiative observational study	Kaufman	N	Analysis	General population CHD:	05/01/02-12/31/12	363, 725, 1159, 1321, 3532, 3533
146	A prospective study of pancreatic cancer pathogenesis	Fuchs	N	Complete	OS Pancreatic Cancer:104 Controls:312	03/01/03-12/31/04	482, 483, 484, 576, 3202
141	Periodontal disease and subclinical cardiovascular disease in post-menopausal women	Dorn	N	Complete	OS	06/01/01-03/16/05	
140	Air pollution and electrocardiographic abnormalities (environmental epidemiology of arrhythmogenesis in WHI)	Whitsel	Y	Analysis	CT	09/01/03-05/31/10	388, 389, 415, 430, 528, 529, 608, 609, 710, 850, 854, 1159, 1232, 1464, 3685, 3396, 3532, 3533
139	Follow-up of healthy breast cancer survivors in the WHI observational study	Paskett	Y	Complete	OS	02/01/02-01/31/03	

Anc #	Title		WHI PI	Status	Case Controls	Study Dates	Approved Proposals and Published Manuscripts
137	Postmenopause CHD risk: platelet genes and hormone therapy	Bray	N	Complete	OS CHD:1060 Controls:2120	10/01/03-08/31/07	593
135	Natural history of pelvic organ prolapse in WHI women	Nygaard	N	Complete	HT	02/01/02-06/30/07	317, 323, 331, 495, 592
134	Serum estrogen hormone metabolites, hormone replacement therapy and the risk of breast cancer	Modugno	N	Complete	OS Breast Cancer:200 Controls:200	07/01/02-05/31/04	209
133	Biochemical and genetic predictors of incident hypertension in white and black women	Sesso	Y	Complete	OS Hypertension:800 Controls:800	08/01/04-07/31/10	654, 655, 2432
132	A prospective study of genetic and biochemical predictors of type 2 diabetes mellitus	Liu	Y	Complete	OS Type 2 Diabetes:1800 Controls:2500	08/01/02-07/31/10	369, 376, 486, 550, 554, 555, 572, 573, 582, 594, 660, 664, 668, 688, 719, 1024, 1050, 1148, 1738, 2072, 2432, 2742, 3170, 3202, 3357, 3358
130	Randomized controlled trial of fat reduction, calcium/Vitamin D supplementation, hormone replacement therapy, and risk of proliferative forms of benign breast disease	Rohan	Y	Complete	CT 3901 Ppts@49 clinics Benign Breast Disease Controls:0	07/01/01-07/31/08	508, 509, 544, 584, 585, 586, 587
129	Association of diabetes and insulin-like growth factor-I (IGF-I) with risks of colorectal, breast, and endometrial cancer	Strickler	N	Analysis	OS Breast Cancer:900 Colorectal Cancer:500 Endometrial Cancer:300 Controls:900 *same as AS152	01/15/02-04/30/11	459, 460, 461, 959, 1061, 1173, 1586, 1614, 1891, 1901, 2679, 2742, 3146
127	CHD risk perception study	Barnhart	N	Analysis	OS	05/15/02-04/30/07	659
126	Stroke risk factors and molecular markers in postmenopausal women	Smoller	Y	Analysis	OS Stroke:972 Controls:972	08/01/03-07/31/06	602, 603, 672, 829, 869, 872, 893, 944, 1061, 1223, 1738, 1869, 2112, 2432, 2635
124	Sociocultural influences on motivation for and maintenance of health-related dietary change among women	Namie	N	Complete	DM	06/01/00-12/01/00	
122	Feasibility study of computerized tailored dietary feedback	Glanz	N	Complete	DM	03/10/00-09/01/00	
121	Hyperinsulinemia and ovarian cancer	Modugno	N	Complete	OS Ovarian Cancer:225 Controls:225 *originally a subset of AS97	09/01/02-08/31/04	3202, 3163

Anc #	Title		WHI PI	Status	Case Controls	Study Dates	Approved Proposals and Published Manuscripts
118	Accuracy of food portion estimation among postmenopausal women	Coy	N	Complete	DM	12/01/99-04/01/00	
117	Risk factors for dry eye syndrome in postmenopausal women	Nichols	N	Complete	OS 217 Ppts@Columbus	02/01/01-04/30/12	
113	Some aspects of mediterranean diet in relation to risk of chronic diseases among postmenopausal women	Hakim	N	Complete	OS	08/01/99-07/31/02	
111	Glycemic index/glycemic load and blood lipids in the WHI	Shikany	Y	Complete	General population	07/01/03-06/30/05	172, 385, 463, 574
110	Sex steroid hormones and risk of coronary heart disease: a nested case control study	Rexrode	Y	Analysis	OS CHD:385 Controls:385 *79 matched cases-controls and 92 cases (but not controls) overlap with AS83.	09/01/00-07/31/05	266, 305, 1218, 1436, 2447, 2828, 3231, 3372
108	Gene-environment effects and colorectal cancer	Lin	N	Complete	OS Colorectal Cancer:50 Controls:150	04/01/03-07/31/07	507
105	Carotenoids in age-related eye disease study (CAREDS)	Mares	Y	Complete	OS 2007 Ppts@4 clinics Eye:1000 Controls:1000	06/01/00-08/31/10	307, 308, 371, 444, 452, 835, 903, 904, 915, 950, 1328, 1381, 2252
104	Tamoxifen prevention: Is it acceptable to women at risk?	Melnikow	N	Complete	OS	07/01/99-06/30/02	
103	Effects of hormone replacement therapy on cognitive aging (WHISCA)	Shumaker	Y	Complete	HT 2266 Ppts@15 clinics	04/01/99-06/30/10	216, 237, 325, 579, 598, 695, 899, 914, 980, 1038, 1121, 1229, 1259, 1267, 1415, 1746
102	Quality of life improvements and willingness to pay: an investigation of selective estrogen receptor modulators	Fouad	Y	Complete	OS	09/01/98-10/01/98	
100	Genetic, biochemical and behavioral determinants of obesity	Chang	N	Analysis	OS 797 Ppts@3 clinics	01/01/99-04/30/04	2060, 2237, 2264, 2379, 2801, 2904, 2985
99	Genetics of non-insulin dependent diabetes (GENNID)	Chlebowski	Y	Complete	General population	12/01/98-03/31/00	
98	Bone mineral density as a predictor for periodontitis	Wactawski-Wende	Y	Complete	OS 969 Ppts@Buffalo	04/01/02-03/30/07	271, 326, 527, 632, 652, 813, 928, 1162, 1641, 1912, 2100, 2162, 2179, 2234, 2598, 2678, 2820, 2530, 3265
97	Modeling serum markers for cost-effective ovarian cancer screening	Anderson	Y	Analysis	OS Ovarian Cancer:280 Controls:558	09/30/01-06/30/09	381, 1504, 2975

Anc #	Title		WHI PI	Status	Case Controls	Study Dates	Approved Proposals and Published Manuscripts
95	Work organization, psychological distress, and health among minority older women	Rodriguez	Y	Complete	OS	12/01/97-12/01/97	
93	The epidemiology of venous disease	Criqui	Y	Complete	OS	03/11/98-06/30/99	
90	WHI sex hormone and genetic risk factors for hip fracture	Cummings	Y	Complete	OS Fracture - Hip:400 Controls:400 *same as AS181	04/01/03-03/31/07	479, 481, 543, 563, 1218, 2447, 3372
86	A pilot study to determine the sensitivity of form 39 to impaired executive control function (ECF) as measured by the CLOX: an executive clock-drawing task	Polk	N	Complete	HT		
84	Cognitive change in women	Dunn	Y	Complete	General population 546 Ppts@2 clinics	09/01/01-02/28/10	421, 616, 940
83	Thrombotic, inflammatory and genetic markers for coronary heart disease in postmenopausal women: a WHI umbrella study	Ridker	N	Complete	OS CHD:650 Controls:650	09/01/99-08/31/03	128, 129, 2432, 2828, 3202
82	Extension of bone mineral density assessment in WHI Native American women	Chen	Y	Complete	OS	07/01/97-06/30/01	
78	Community strategy to retain women enrolled in research	Fouad	Y	Complete	CT	07/01/97-09/30/97	
76	Tailored messages to enhance adherence of older women to dietary programs for breast cancer control	Chlebowski	Y	Complete	DM	09/01/97-08/13/98	
75	Adherence to dietary modification in the WHI	Rosal	Y	Complete	DM	09/01/97-08/30/02	126
74	The effectiveness of individual versus group behavioral strategies to increase participants adherence	Wodarski	N	Complete	DM	07/01/97-09/30/97	
73	Psychosocial and cultural determinants of NIDDM in Latinas	Ritenbaugh	Y	Complete	OS	05/01/97-04/30/98	
70	The prevalence and prognostic importance of myocardial ischemia during daily life, and its relationship to migraine status: WHI	Sheps	Y	Complete	OS	09/01/97-08/31/00	171, 183
68	Coronary artery calcification detected with ultrafast CT as an indication of CAD in OS participants	Hsia	Y	Complete	OS 735 Ppts@2 clinics	01/01/97-12/31/05	
65	Benign breast disease	Rohan	Y	Complete	DM 101 Ppts@12 clinics	07/01/98-08/30/00	

Anc #	Title		WHI PI	Status	Case Controls	Study Dates	Approved Proposals and Published Manuscripts
63	Development and evaluation of eating style index	Haines	N	Complete	OS	10/01/96-06/30/99	
62	Prevention of age-related maculopathy in the WHI HRT CT: WHISE	Haan	Y	Complete	HT 4430 Ppts@21 clinics	01/01/99-01/01/07	250, 253, 819, 1150, 1843, 3085
61	Longitudinal assessment of memory functioning in the WHI clinical trial	Ober	N	Complete	HT	09/01/96-08/31/09	
60	Fat intake in husbands of WHI dietary arm participants	Shikany	Y	Complete	DM	12/01/96-12/01/96	
57	Hispanic women's advocacy and retention strategies	Ritenbaugh	Y	Complete	OS	09/01/96-08/31/98	
56	Behavioral and psychosocial predictors of dietary change in postmenopausal women	Pleuss	Y	Complete	DM	09/01/96-08/31/98	
50	Nutrition practice guidelines for maintaining low-fat dietary change in postmenopausal women	Burrows	Y	Complete	DM	10/01/96-09/30/97	
48	Prostate cancer survey of spouses of WHI screened women	Smoller	Y	Complete	General population	02/01/96-06/30/96	
47	Effect of diet intervention on motivation to make other health-related changes	Langer	Y	Complete	DM	05/01/96-04/30/97	
40	Ethnic and age differences in use of mammography	Smoller	Y	Complete	OS		
39	The effects of HRT on the development and progression of dementia (WHIMS)	Shumaker	Y	Complete	HT 7528 Ppts@48 clinics	06/01/96-05/31/05	60, 138, 173, 225, 226, 274, 276, 332, 336, 360, 370, 390, 397, 399, 427, 430, 546, 558, 595, 597, 639, 665, 670, 683, 727, 750, 883, 884, 919, 1038, 1042, 1053, 1095, 1121, 1149, 1150, 1156, 1260, 1267, 1295, 1354, 1384, 1426, 1558, 1911, 2074, 2075, 2174, 2181, 2183, 2208, 2219, 2281, 2283, 2461, 2463, 2549, 2729, 2850, 2851, 2869, 3005, 3051, 3085, 3232, 3300, 3318, 3353, 3369, 3370, 3371, 3373, 3411, 3467, 3536, 3565
36	HRT and changes in mammographic density	Hulka	Y	Complete	HT 857 Ppts@19 clinics Breast Cancer	01/31/98-12/31/02	285, 358, 694, 1447

Anc #	Title		WHI PI	Status	Case Controls	Study Dates	Approved Proposals and Published Manuscripts
34	Ethnic differences in hip bone geometry by DXA and QCT	Nelson	N	Complete	HT 311 Ppts@Detroit	12/01/96- 12/31/02	
33	The association of HRT with abdominal and total body fat in postmenopausal women	Mayo	N	Complete	OS	07/31/95- 03/31/96	
31	Eye care use	Kleinstei	N	Complete	OS		
25	Ankle-arm blood pressure index measurement	Masaki	Y	Complete	OS	02/01/96- 01/01/98	
24	Cross-ethnic comparisons of skeletal health of postmenopausal women in San Diego county	Schneider	N	Complete	OS	01/03/95- 01/02/97	
17	Domestic violence in older women	Mouton	Y	Complete	OS	10/25/94- 10/24/96	
15	The relationship between osteopenia and periodontitis	Wactawski-Wende	Y	Complete	OS 1468 Ppts@Buffalo	09/16/96- 09/15/01	553, 1809, 1810, 1811, 1846, 1849, 3253, 3265, 3295, 3534
14	High density lipoprotein metabolism	Going	Y	Complete	OS	07/01/94- 06/30/96	
13	Prevalence and correlates of lumbar spinal stenosis	Vogt	N	Complete	CT		
11	Validation and exploration of sleep and mood predictors	Kripke	N	Complete	OS	08/01/95- 07/31/99	43, 749, 1113, 1205, 1206, 1207, 1208, 1209, 1210, 1437
9	Oral bone loss	Jeffcoat	N	Complete	OS 450 Ppts@Birmingham	06/01/95- 11/30/04	72
5	Explanations for the development of fat distaste	Green	N	Complete	DM	04/01/95- 09/30/96	
M26	The colorectal cancer sequencing project (Phase II/III)/Whole exome sequencing for colorectal cancer (Phase I)	Peters	N	Funded	General population Colorectal Cancer:3000 Controls:2600 *Caucasians only	09/01/12- 08/31/19	1997, 2253, 2254, 2267, 2298, 2815, 2938, 2941, 3049
M25	GWAS of chronic periodontitis	Wactawski-Wende	Y	Analysis	OS	09/30/09- 09/29/11	

Anc #	Title		WHI PI	Status	Case Controls	Study Dates	Approved Proposals and Published Manuscripts
M24	WHI Sequencing Project (WHISP)	Jackson	Y	Analysis	General population MI:161 Type 2 Diabetes:165 Stroke:770 Controls:1865 *Phase I: BMI/T2D, early MI. Phase II: Stroke, Hypertension, Deeply Phenotyped Reference Group (DPR); Phase III: extra BMI and Stroke; Replication: 8950 samples (stroke+controls 3000; EOMI+Controls 5000; BP hi/lo 950)	09/30/09-03/31/13	1458, 1501, 1543, 1544, 1545, 1546, 1547, 1548, 1549, 1550, 1551, 1679, 1680, 1681, 1682, 1709, 1736, 1802, 1818, 1819, 1820, 1821, 1822, 1823, 1824, 1825, 1826, 1829, 1848, 1863, 1875, 1919, 1920, 1921, 1924, 1938, 1954, 1958, 1996, 2011, 2016, 2020, 2021, 2027, 2031, 2035, 2036, 2037, 2042, 2050, 2066, 2103, 2109, 2119, 2160, 2161, 2176, 2177, 2191, 2192, 2213, 2236, 2243, 2286, 2289, 2300, 2310, 2332, 2339, 2398, 2425, 2481, 2486, 2509, 2518, 2529, 2531, 2595, 2611, 2618, 2629, 2633, 2643, 2808, 2856, 2894, 2900, 2906, 2920, 2957, 2958, 2959, 2979, 2980, 3052, 3086, 3088, 3218, 3296, 3424
M18	Breast cancer post GWAS	Hunter	N	Analysis	General population Breast Cancer:5766 Controls:5437 *Caucasians from W21, BA2, and M6	07/01/10-06/30/15	2045, 2046, 2047, 2725, 2757, 3054, 3055
M16	International Stroke Genetics Consortium	Smoller	Y	Analysis	OS Stroke:844 *dbGaP eligible cases from AS126	07/01/11-06/30/13	1864, 1865, 1866, 1867, 1868, 1869, 2112, 2641, 3355

Anc #	Title		WHI PI	Status	Case Controls	Study Dates	Approved Proposals and Published Manuscripts
M13	GWAS of hormone treatment and CVD and metabolic outcomes in WHI GWAS of hormone treatment and CVD and metabolic outcomes in WHI GWAS of hormone treatment and CVD and metabolic outcomes in WHI	Reiner	Y	Complete	HT/OS CHD:520 Type 2 Diabetes:1080 Stroke:351VTE:313 Controls:2805 *Controls #s include 174 case/control pairs with multiple outcomes, 200 SHARe ppts	09/25/09-07/31/14	986, 1122, 1219, 1342, 1362, 1483, 1486, 1545, 1559, 1630, 1651, 1675, 1740, 1777, 1778, 1890, 1894, 1919, 1920, 1921, 1927, 1995, 2018, 2024, 2035, 2036, 2037, 2064, 2093, 2101, 2109, 2177, 2192, 2260, 2300, 2310, 2321, 2408, 2425, 2433, 2481, 2486, 2506, 2509, 2510, 2524, 2529, 2531, 2570, 2633, 2653, 2788, 2806, 2894, 2900, 2920, 2942, 3006, 3008, 3020, 3052, 3059, 3083, 3086, 3103, 3195, 3205, 3218, 3219, 3222, 3227, 3296, 3324, 3337, 3342, 3407, 3467, 3501, 3502, 3520, 3576, 3580, 3587
M12	Use of urinary sugars biomarker to assess measurement error structure of self-reported intake in NPAAS	Kipnis	N	Analysis	DM Controls:450 *450 NPAAS ppts	06/21/10-03/31/11	1273, 2176, 2462
M11	NCI - Upper GI cancer GWAS and telomere length evaluation (includes M10)	Taylor	N	Analysis	General population Cancer of Esophagus:28 Cancer of Stomach:145 Controls:346 *Esophagus cancer have only GWAS	09/15/10-09/14/11	1628, 3186
M9	NCI GWAS in renal cell carcinoma (RCC): expansion of a primary scan	Purdue	N	Analysis	General population Cancer of Kidney:299 Controls:298 *Non-Hispanic caucasians; 20 dbGaP ineligible ppts for Taqman only.	09/15/09-09/14/10	2631, 3327
M8	NCI GWAS in bladder cancer	Chanock	N	Analysis	General population Cancer of Bladder:420 Controls:420 *All non-hispanic Caucasians; 28 non-dbGaP cases only for Taqman	09/15/09-09/30/12	2154, 2189, 2811, 3045, 3047, 3048

Anc #	Title		WHI PI	Status	Case Controls	Study Dates	Approved Proposals and Published Manuscripts
M6	Population architecture using genomics and epidemiology (PAGE)	Kooperberg	Y	Analysis	General population Colorectal Cancer:1436 Endometrial Cancer:1103 CHD:4274Type 2 Diabetes:4000 Stroke:3455 Ovarian Cancer:703 Cancer of Lung:1751 Melanoma - Skin:1102 Lymphoma, Non Hodgkins:843 Breast Cancer - Invasive:1961 Controls:16000 *~20,000 ppts (cases & controls) every year for 4 years (new set of outcomes each year)	07/28/08-05/31/14	1072, 1073, 1170, 1171, 1172, 1192, 1194, 1221, 1235, 1236, 1237, 1238, 1239, 1240, 1241, 1242, 1243, 1244, 1245, 1246, 1247, 1248, 1250, 1345, 1346, 1347, 1348, 1349, 1350, 1351, 1352, 1353, 1380, 1423, 1439, 1440, 1441, 1491, 1589, 1590, 1606, 1610, 1642, 1645, 1648, 1674, 1689, 1759, 1788, 1807, 1832, 1862, 1871, 1879, 1885, 1922, 1923, 1982, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2015, 2051, 2076, 2077, 2133, 2135, 2141, 2151, 2175, 2192, 2233, 2265, 2279, 2284, 2288, 2329, 2433, 2465, 2519, 2708, 2726, 2727, 2775, 2823, 2864, 2905, 3094, 3095, 3096, 3097, 3098, 3099, 3107, 3110, 3142, 3143, 3154, 3162, 3172, 3182, 3183, 3191, 3207, 3230, 3257, 3305, 3364, 3391, 3587

Anc #	Title		WHI PI	Status	Case Controls	Study Dates	Approved Proposals and Published Manuscripts
M5	SHARe (SNP Health Association Resource) GWAS			Complete	General population Controls:12007 *Blacks, Hispanics who signed Supplemental Consent	01/01/08-12/31/09	981, 984, 985, 986, 987, 988, 989, 990, 991, 993, 994, 995, 996, 998, 999, 1001, 1002, 1003, 1006, 1007, 1008, 1009, 1010, 1013, 1015, 1016, 1018, 1019, 1020, 1024, 1050, 1089, 1092, 1108, 1112, 1119, 1122, 1145, 1157, 1160, 1167, 1174, 1176, 1180, 1199, 1200, 1204, 1219, 1256, 1258, 1268, 1286, 1299, 1313, 1314, 1316, 1356, 1370, 1401, 1416, 1423, 1453, 1459, 1469, 1478, 1486, 1505, 1520, 1552, 1559, 1633, 1637, 1638, 1639, 1678, 1728, 1740, 1778, 1784, 1856, 1872, 1881, 1893, 1925, 1926, 1927, 1954, 2024, 2025, 2035, 2036, 2037, 2064, 2069, 2071, 2177, 2192, 2205, 2243, 2244, 2321, 2362, 2401, 2437, 2466, 2468, 2502, 2510, 2583, 2624, 2653, 2687, 2705, 2738, 2761, 2788, 2797, 2806, 2839, 2840, 2921, 2942, 2979, 2980, 3035, 3039, 3059, 3083, 3102, 3103, 3144, 3151, 3195, 3197, 3205, 3219, 3227, 3342, 3386, 3407, 3467, 3501, 3502, 3506, 3520, 3576, 3587

Anc #	Title		WHI PI	Status	Case Controls	Study Dates	Approved Proposals and Published Manuscripts
M4	Whole genome scan for pancreatic cancer risk in the pancreatic cancer cohort consortium (PANSCAN)	Stolzenberg-Solomon	N	Analysis	General population Pancreatic Cancer:283 Controls:283	09/01/06-09/30/12	875, 930, 931, 932, 933, 934, 936, 1075, 1085, 1201, 1266, 1276, 1530, 1588, 1663, 1808, 1955, 2039, 2040, 2154, 2189, 2195, 2365, 2525, 2579, 2580, 2788, 2810, 2834, 2854, 2913, 2914, 2915, 3058, 3206, 3331, 3332, 3388
M3	NCI Cancer Genetic Markers of Susceptibility (CGEMS) Initiative: Replication Phase	Chanock	N	Complete	OS Breast Cancer:2956 Controls:2956 *Caucasians only	09/10/08-08/31/10	874, 906, 907, 1104, 1109, 1814
M1	Diet and lifestyle factors reducing risk for age-related eye disease (AS105 extension)	Mares	Y	Analysis	OS	09/01/07-08/31/10	1328