



Specimen Assay Results

File Name
spec_results_ctos_inv.dat

Data as of Sep 11, 2019	Population CT+OS	Data Collected Baseline, Main, Ext1, Ext2	1 row per Specimen Test Result	Rows 3,208,562	File Created Sep 11, 2019
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This file contains results from WHI core and ancillary studies. These results are provided "as is". Some of these tests may have QA issues and often there may be significant normalization work required when combining results from multiple studies/labs/specimen types. See the data->Specimen result page at www.whi.org for a discussion of WHI specimen testing and QA procedures as well as summary result and QA statistics by test version and pull.

This document can be used to prepare or evaluate feasibility of ancillary study proposals and paper proposals, but is NOT intended for publication.

ID	WHI Participant Common ID	Col#1				
	<table border="0"> <tr> <td style="text-align: right;">N</td> <td style="text-align: right;">Missing</td> </tr> <tr> <td style="text-align: right;">3,208,562</td> <td style="text-align: right;">0</td> </tr> </table>	N	Missing	3,208,562	0	
N	Missing					
3,208,562	0					

PPTDRW	Participant Draw Number	Col#2				
	ID and PPTDRW identify a specimen draw.					
	<table border="0"> <tr> <td style="text-align: right;">N</td> <td style="text-align: right;">Missing</td> </tr> <tr> <td style="text-align: right;">3,208,562</td> <td style="text-align: right;">0</td> </tr> </table>	N	Missing	3,208,562	0	
N	Missing					
3,208,562	0					
	Usage Notes: Use ID and PPTDRW to merge with the specimen draws file (spec_draws) or the specimen results file (spec_results).					

TESTVERID	Test version ID	Col#3				
	Unique identifier of the test name and test version.					
	<table border="0"> <tr> <td style="text-align: right;">N</td> <td style="text-align: right;">Missing</td> </tr> <tr> <td style="text-align: right;">3,208,562</td> <td style="text-align: right;">0</td> </tr> </table>	N	Missing	3,208,562	0	
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STUDYID

Study ID

Col#4

Value	Description	N	%
83	Thrombotic, inflammatory and genetic markers for CHD	6,877	0.2
90	WHI sex hormone and genetic risk factors for hip fracture	10,583	0.3
97	Ovarian cancer serum markers	2,787	0.1
105	Carotenoids in age-related eye disease study (CAREDS)	49,702	1.5
110	Sex hormones and CHD	20,725	0.6
121	Hyperinsulinemia and ovarian cancer	2,190	0.1
126	Stroke risk factors and molecular markers	77,300	2.4
129	Diabetes+IGF-I in colorectal,breast,endometrial caner	15,196	0.5
132	Genetic and biochemical predictors of type 2 diabetes	30,137	0.9
133	Predictors of hypertension in white and black women	14,207	0.4
134	Estrone, HRT, and breast cancer	810	0.0
146	A prospective study of pancreatic cancer pathogenesis	6,404	0.2
165	Thyroid dysfunction and MI/stroke risk	5,378	0.2
167	Sex hormones and ER+/ER- breast cancer	6,221	0.2
179	Frailty in WHI: drugs, inflammatory and genetic markers	10,814	0.3
181	Hip fracture estradiol, cytokines, bone turnover	5,566	0.2
187	Serum fatty acids and incidence of ischemic stroke in women	56,115	1.7
189	Biochemical & anthropometric measures among obese	35,392	1.1
191	Biomarkers & genetic factors rel. to sarcopenia (with as199)	99,043	3.1
195	Candidate pathways in colorectal carcinogenesis	28,926	0.9
206	Selenium and colorectal cancer	1,701	0.1
207	IGF and multiple myeloma	4,085	0.1
208	Pro and anti-inflammatory cytokines and colorectal cancer	8,018	0.2
214	Prospective cohort in pancreatic cancer (AS146 extension)	9,723	0.3
238	Biochemical predictors of type 2 diabetes mellitus in women	9,702	0.3
242	DNA repaire, telomere length and melanoma	942	0.0
254	Liu/Telomere/diabetes	4,029	0.1
266	EGFR-signaling-network activators/inhibitor & lung ca	20,685	0.6
275	Urinary levels of melatonin and risk of breast cancer	1,557	0.0
282	Serum markers for multi-stage ovarian cancer screening	19,271	0.6
284	Obesity/Breast Disease	8,149	0.3
290	Cadmium Exposure and Risk of Breast Cancer	54,288	1.7
292	Advanced Glycation End Products,receptor and Colorectal Ca	2,058	0.1
294	Lung CA & one-carbon metabolis	21,291	0.7
296	Cohort study of etiology of hepatocellular carcinoma	2,160	0.1
297	Estrogens, estr. metabolites & androgens/endo & ovarian ca	59,273	1.8
321	Estrogen DNA adducts: estrogen biomarker and breast cancer	40,404	1.3
325	Ethnic Differences in 25(OH)D and PTH Levels and CVD	30,330	0.9
327	Vit D/Lung Ca/never smoking	6,509	0.2



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332	AVIIR score in predicting incident CHD	19,187	0.6
346	Serum, vitamin D, and risk of melanoma in WHI-OS	3,236	0.1
362	Glycation/obesity/pancreatic C	7,396	0.2
383	VitD/BR and Colorectal Ca	58	0.0
389	Multiple myeloma/adipo levels	1,182	0.0
403	Systemic and breast-cancer specific autoimmunity in the WHI	839	0.0
411	Excess mortality in women with rheumatoid arthritis	7,752	0.2
422	Cardiovascular biomarkers in WHI Native Americans	4,684	0.1
425	A Pilot Study of Urinary Bisphenol-A in WHI	890	0.0
482	Esophageal adenocarcinoma	5,468	0.2
523	haptoglobin phenotype/risk of CHD/Stroke	400	0.0
537	Endogenouts SERM, cholesterol metabolite, 27HC, fracture	11,445	0.4
562	Sex steroid hormones; primary liver cancer	1,083	0.0
BA10	Adipokines and risk of obesity-related disease	27,238	0.8
BA11	Physical activity, obesity, inflammation and CHD	49,360	1.5
BA12	HRT, estrogen metabolism and breast cancer or hip fracture	8,447	0.3
BA13	B-cell stimulation markers and non-Hodgkins lymphoma	20,564	0.6
BA18	Followup studies of genetically determined risk factors	3,723	0.1
BA20	Arthritis, inflammation, thrombogenesis and CVD/mortality	159,465	5.0
BA21	Understanding the role of sex hormones in colorectal cancer	10,524	0.3
BA22	Predictive modeling for CVD in a multiethnic cohort in women	39,798	1.2
BA25	Leukocyte Telomere Dynamics	5,201	0.2
BA6	Inflamation genes, diet, medication, and cancer	7,862	0.2
BA7	Estradiol/estrogen and CHD, fx, stroke, VTE, cog imp.	14,239	0.4
BA8	Predictive value of nutrient biomarkers for CHD death	12,176	0.4
BA9	Biochemical antecedents of fracture in minority women	38,142	1.2
M11	NCI - Upper GI cancer GWAS and telomere length	2,640	0.1
W1	CT 6% Subsample, Clinic CBCs, QC Pools	1,275,669	39.8
W10	Biological markers of the effect of HT on breast cancer	23,316	0.7
W11	CVD biomarkers - Phase II: strokes after Feb. 2001	8,689	0.3
W14	CVD biomarkers - Phase I: additional asays	18,632	0.6
W15	Vit D and colorectal cancer or fractures in CaD trial	3,635	0.1
W18	HT Hormone Pretest	2,877	0.1
W2	OS-measurement precision study (OS-MPS)	38,990	1.2
W22	Vitamin D levels in 6% blood subsample of CaD	1,198	0.0
W24	Vitamin D and breast cancer in CaD trial	2,161	0.1
W27	NPAAS lab work	5,330	0.2
W39	27-hydroxycholesterol in CVD biomarkers (W-6)	1,163	0.0
W45	Proteomic Colon Cancer Study	1,840	0.1
W5	Endogenous sex hormones in DM trial	7,257	0.2
W54	CVD Biomarkers for 2010-2015 (SHARe cohort only)	95,262	3.0
W57	HT Proteomics on B2M and IGFBP4	1,217	0.0
W58	CVD, diabetes, and renal biomarkers in the EA HT Cohort	80,772	2.5



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W6	HT CVD Biomarkers: study of CHD, Stroke and VTE - Phase I	116,930	3.6
W64	Long Life Study (LLS)	250,542	7.8
W66	Long Life Study-Phase III Biomarkers and GWAS	11,845	0.4
W8	Nutritional biomarkers study (NBS)	3,924	0.1
W9	Sex hormones and fractures	5,766	0.2

TESTVAL	Test Result Value	Col#5				
	<table border="0"> <tr> <td>N</td> <td>Missing</td> </tr> <tr> <td>3,208,562</td> <td>0</td> </tr> </table>	N	Missing	3,208,562	0	
N	Missing					
3,208,562	0					

TESTDY	Test Days Since Draw	Col#6												
	Number of days from date of specimen draw to when the specimen was sent to the lab for testing.													
	<table border="0"> <tr> <td>N</td> <td>Missing</td> <td>Min</td> <td>Max</td> <td>Mean</td> <td>Std Dev</td> </tr> <tr> <td>3,202,484</td> <td>6,078</td> <td>1</td> <td>8574</td> <td>4,158.003</td> <td>2,176.863</td> </tr> </table>	N	Missing	Min	Max	Mean	Std Dev	3,202,484	6,078	1	8574	4,158.003	2,176.863	
N	Missing	Min	Max	Mean	Std Dev									
3,202,484	6,078	1	8574	4,158.003	2,176.863									

PULLID	Study pull id	Col#7				
	The id of the study pull responsible for the test result. Pull ids are in the form xxx-yyy where xxx is the study id.					
	<table border="0"> <tr> <td>N</td> <td>Missing</td> </tr> <tr> <td>3,208,562</td> <td>0</td> </tr> </table>	N	Missing	3,208,562	0	
N	Missing					
3,208,562	0					
	Usage Notes: A "pull" is a set of vials pulled from the repository and shipped to one or more lab(s). A study will often have several pulls even if they only use a single lab. Multiple pulls are created to control workload and to limit the damage in case of shipping errors. Summary statistics for assays by pull can be found at www.whi.org in the specimen results page of the WHI data section.					