

1. Paper A. Supplementary Tables

1.1. Supplementary Table S1. Analytic frame derivation and case counts

Case counts per disease-by-sex pair with younger and older stratum splits at each disease's permutation-confirmed boundary.

Disease	Sex	Total_cases	Younger_cases	Older_cases	Included
Coronary heart disease	Male	574	36	538	Yes
Angina	Female	219	69	150	Yes
Fracture	Male	480	66	414	Yes
Hearing loss	Female	230	25	205	Yes
Insomnia	Male	1,683	513	1,170	Yes
Low HDL cholesterol	Female	3,767	2,006	1,761	Yes
Abdominal obesity	Male	4,345	1,086	3,259	Yes
Obesity	Male	3,541	1,126	2,415	Yes
Obesity	Female	4,687	2,764	1,923	Yes
Irritable bowel syndrome	Female	221	56	165	Yes
Insulin resistance	Female	1,883	600	1,283	Yes

1.2. Supplementary Table S2. Phenome-wide main-effect screen

Pooled testosterone odds ratio per 1 SD across all analysable disease-by-sex pairs, adjusted for age, year, and BMI (BMI omitted for obesity/abdominal obesity outcomes). BH-corrected q-values shown.

disease_var	sex	n_cases	OR_CI	p_fmt	q_fmt
dx_abdominal_obesity	Male	4,327	0.37 (0.33-0.41)	<1e-15	<1e-15
dx_obesity	Male	3,541	0.37 (0.33-0.41)	<1e-15	<1e-15
dx_high_trig	Male	968	0.55 (0.46-0.65)	2.54e-11	8.81e-10
dx_low_hdl	Male	2,645	0.67 (0.58-0.77)	4.42e-08	1.15e-06
dx_hba1c_high	Male	4,080	0.79 (0.72-0.87)	8.30e-07	1.73e-05
dx_insulin_resistant	Male	1,850	0.68 (0.58-0.79)	1.47e-06	2.55e-05
dx_highchol	Male	3,690	0.81 (0.74-0.88)	1.71e-06	2.55e-05
dx_smoker	Male	2,204	1.16 (1.08-1.25)	5.05e-05	6.57e-04
dx_hba1c_diab	Male	1,321	0.73 (0.62-0.85)	5.69e-05	6.58e-04

disease_var	sex	n_cases	OR_CI	p_fmt	q_fmt
dx_cancer_prostate	Male	325	0.61 (0.47-0.80)	3.33e-04	3.47e-03
dx_hba1c_high	Female	4,212	0.82 (0.72-0.92)	1.17e-03	1.11e-02
dx_cancer_uterine	Female	84	0.21 (0.08-0.55)	1.36e-03	1.18e-02
dx_cancer	Female	1,150	0.80 (0.70-0.92)	2.02e-03	1.62e-02
dx_diabetes	Female	1,351	0.75 (0.62-0.90)	2.33e-03	1.66e-02
dx_cancer_ovarian	Female	51	0.14 (0.04-0.50)	2.40e-03	1.66e-02
dx_bronchitis	Female	547	0.77 (0.64-0.92)	3.76e-03	2.45e-02
dx_diabetes	Male	1,410	0.82 (0.71-0.94)	4.11e-03	2.51e-02
dx_glucose_diabetes	Female	419	0.62 (0.45-0.87)	5.34e-03	3.08e-02
dx_cancer_melanoma	Female	79	0.53 (0.34-0.84)	6.48e-03	3.55e-02
dx_menopause	Female	38	0.15 (0.04-0.60)	7.52e-03	3.91e-02
dx_hba1c_diab	Female	1,162	0.75 (0.60-0.93)	9.64e-03	4.47e-02
dx_heartfailure	Female	324	0.65 (0.47-0.90)	9.80e-03	4.47e-02
dx_eating_disorder	Female	96	3.83 (1.38-10.60)	9.88e-03	4.47e-02
dx_low_hdl	Female	3,722	0.87 (0.78-0.98)	1.71e-02	7.42e-02
dx_cancer_bladder	Female	22	1.19 (1.02-1.39)	2.49e-02	1.04e-01
dx_insulin_resistant	Female	1,863	0.86 (0.75-0.98)	2.72e-02	1.09e-01
dx_smoker	Female	1,605	1.06 (1.00-1.11)	3.61e-02	1.39e-01
dx_kidney	Male	333	0.78 (0.61-0.99)	4.00e-02	1.44e-01
dx_ibs	Male	166	0.73 (0.55-0.99)	4.14e-02	1.44e-01
dx_gout	Male	438	0.78 (0.62-0.99)	4.16e-02	1.44e-01
dx_cancer_skin_nonmel	Female	187	0.74 (0.55-0.99)	4.54e-02	1.52e-01
dx_anaemia	Male	181	0.73 (0.53-1.00)	4.71e-02	1.53e-01
dx_bph	Male	1,599	1.10 (1.00-1.21)	4.97e-02	1.57e-01
dx_cancer_bladder	Male	45	0.63 (0.39-1.02)	6.14e-02	1.88e-01
dx_obesity	Female	4,687	1.04 (1.00-1.10)	6.98e-02	2.06e-01
dx_cancer_cervical	Female	119	0.60 (0.34-1.05)	7.12e-02	2.06e-01
dx_cancer_colon	Male	54	0.72 (0.49-1.04)	8.06e-02	2.26e-01
dx_chd	Male	554	0.88 (0.75-1.03)	1.04e-01	2.80e-01

disease_var	sex	n_cases	OR_CI	p_fmt	q_fmt
dx_kidney_stones	Female	666	0.90 (0.78-1.02)	1.05e-01	2.80e-01
dx_copd	Female	157	0.68 (0.42-1.09)	1.09e-01	2.84e-01
dx_ibs	Female	217	0.72 (0.48-1.08)	1.13e-01	2.86e-01
dx_abdominal_obesity	Female	7,369	1.06 (0.98-1.14)	1.20e-01	2.97e-01
dx_highchol	Female	3,789	0.93 (0.84-1.02)	1.34e-01	3.23e-01
dx_gout	Female	212	0.72 (0.47-1.11)	1.40e-01	3.31e-01
dx_vitd_deficiency	Female	149	1.07 (0.97-1.17)	1.70e-01	3.86e-01
dx_cancer_lung	Male	31	0.56 (0.25-1.28)	1.71e-01	3.86e-01
dx_heartfailure	Male	382	0.88 (0.73-1.06)	1.79e-01	3.97e-01
dx_heartattack	Female	291	0.81 (0.59-1.11)	1.84e-01	3.98e-01
dx_kidney	Female	386	1.06 (0.97-1.15)	1.87e-01	3.98e-01
dx_cancer	Male	998	0.92 (0.81-1.05)	2.11e-01	4.38e-01
dx_kidney_stones	Male	760	0.92 (0.80-1.05)	2.22e-01	4.45e-01
dx_hypothyroid_lab	Male	24	0.66 (0.34-1.29)	2.23e-01	4.45e-01
dx_eating_disorder	Male	50	1.53 (0.77-3.03)	2.27e-01	4.45e-01
dx_arthritis	Male	2,237	1.06 (0.97-1.15)	2.32e-01	4.47e-01
dx_albuminuria	Female	1,307	1.04 (0.97-1.12)	2.43e-01	4.59e-01
dx_albuminuria	Male	1,206	0.93 (0.82-1.05)	2.55e-01	4.73e-01
dx_liver	Female	480	0.92 (0.79-1.07)	2.63e-01	4.80e-01
dx_glucose_diabetes	Male	551	0.87 (0.68-1.12)	2.71e-01	4.86e-01
dx_cancer_testicular	Male	21	1.23 (0.83-1.83)	3.06e-01	5.36e-01
dx_dementia_proxy	Male	262	0.89 (0.70-1.12)	3.09e-01	5.36e-01
dx_angina	Male	259	0.86 (0.63-1.16)	3.19e-01	5.45e-01
dx_psoriasis	Female	151	0.83 (0.57-1.20)	3.29e-01	5.47e-01
dx_ifg	Female	1,294	0.95 (0.86-1.05)	3.31e-01	5.47e-01
dx_hypertension	Male	3,611	0.96 (0.89-1.04)	3.53e-01	5.70e-01
dx_stroke	Male	375	1.07 (0.93-1.23)	3.60e-01	5.70e-01
dx_prediabetes	Female	932	1.03 (0.96-1.11)	3.62e-01	5.70e-01
dx_sleepapnea	Female	460	0.92 (0.76-1.11)	3.77e-01	5.85e-01

disease_var	sex	n_cases	OR_CI	p_fmt	q_fmt
dx_arthritis	Female	3,433	0.96 (0.87-1.05)	3.90e-01	5.96e-01
dx_insomnia	Female	2,395	0.97 (0.89-1.05)	4.10e-01	6.19e-01
dx_cancer_lung	Female	29	0.78 (0.39-1.56)	4.81e-01	7.15e-01
dx_asthma	Female	2,015	0.98 (0.92-1.04)	5.06e-01	7.41e-01
dx_cancer_melanoma	Male	89	0.91 (0.68-1.21)	5.19e-01	7.50e-01
dx_chd	Female	303	0.93 (0.73-1.18)	5.41e-01	7.70e-01
dx_asthma	Male	1,455	1.03 (0.94-1.12)	5.52e-01	7.75e-01
dx_insomnia	Male	1,661	1.03 (0.93-1.14)	5.84e-01	7.78e-01
dx_osteoporosis	Male	30	0.83 (0.41-1.66)	5.96e-01	7.78e-01
dx_bronchitis	Male	271	1.08 (0.82-1.42)	6.04e-01	7.78e-01
dx_depression	Female	967	0.98 (0.92-1.05)	6.05e-01	7.78e-01
dx_high_trig	Female	730	0.96 (0.80-1.14)	6.07e-01	7.78e-01
dx_fracture	Male	473	0.97 (0.84-1.11)	6.09e-01	7.78e-01
dx_psoriasis	Male	132	0.92 (0.65-1.29)	6.12e-01	7.78e-01
dx_sleepapnea	Male	488	1.05 (0.86-1.29)	6.19e-01	7.78e-01
dx_vitd_deficiency	Male	114	1.08 (0.80-1.45)	6.24e-01	7.78e-01
dx_angina	Female	214	0.94 (0.71-1.23)	6.28e-01	7.78e-01
dx_cancer_thyroid	Female	46	1.04 (0.86-1.26)	6.91e-01	8.46e-01
dx_heartattack	Male	524	1.03 (0.86-1.24)	7.13e-01	8.56e-01
dx_prediabetes	Male	652	0.97 (0.83-1.14)	7.17e-01	8.56e-01
dx_depression	Male	537	1.02 (0.91-1.14)	7.27e-01	8.56e-01
dx_hypertension	Female	3,949	0.99 (0.93-1.05)	7.32e-01	8.56e-01
dx_osteoporosis	Female	261	1.03 (0.84-1.27)	7.83e-01	9.04e-01
dx_hypothyroid_lab	Female	25	0.88 (0.33-2.37)	7.98e-01	9.07e-01
dx_stroke	Female	392	0.98 (0.84-1.14)	8.03e-01	9.07e-01
dx_hearing_loss	Male	286	1.03 (0.80-1.33)	8.16e-01	9.13e-01
dx_cancer_breast	Female	350	0.98 (0.85-1.14)	8.29e-01	9.17e-01
dx_cancer_skin_nonmel	Male	216	1.02 (0.86-1.21)	8.38e-01	9.18e-01
dx_cancer_colon	Female	66	0.97 (0.72-1.32)	8.61e-01	9.32e-01

disease_var	sex	n_cases	OR_CI	p_fmt	q_fmt
dx_dementia_proxy	Female	269	1.02 (0.78-1.34)	8.78e-01	9.41e-01
dx_fracture	Female	1,820	1.00 (0.94-1.08)	9.00e-01	9.55e-01
dx_copd	Male	178	1.01 (0.78-1.32)	9.20e-01	9.57e-01
dx_ifg	Male	1,647	1.01 (0.89-1.14)	9.27e-01	9.57e-01
dx_hearing_loss	Female	225	1.02 (0.62-1.69)	9.33e-01	9.57e-01
dx_cancer_kidney	Male	36	0.98 (0.62-1.56)	9.39e-01	9.57e-01
dx_liver	Male	464	1.00 (0.85-1.19)	9.63e-01	9.71e-01
dx_anaemia	Female	712	1.00 (0.87-1.15)	9.71e-01	9.71e-01

1.3. Supplementary Table S3. Sex-heterogeneity Wald test

One-df test on the exposure-by-sex interaction term in bilateral outcomes, with Benjamini-Hochberg q-values.

Disease	p_fmt	q_fmt
dx_obesity	<1e-15	<1e-15
dx_abdominal_obesity	<1e-15	<1e-15
dx_high_trig	3.90e-04	6.11e-03
dx_low_hdl	1.90e-03	2.23e-02
dx_smoker	3.30e-03	2.90e-02
dx_albuminuria	3.70e-03	2.90e-02
dx_insulin_resistant	4.50e-03	3.02e-02
dx_cancer_bladder	1.26e-02	7.38e-02
dx_anaemia	2.61e-02	1.36e-01
dx_bronchitis	4.23e-02	1.90e-01
dx_eating_disorder	4.45e-02	1.90e-01
dx_kidney	5.49e-02	2.04e-01
dx_highchol	5.63e-02	2.04e-01
dx_ifg	8.41e-02	2.82e-01
dx_asthma	1.05e-01	3.30e-01
dx_arthritis	1.14e-01	3.35e-01
dx_depression	1.36e-01	3.39e-01

Disease	p_fmt	q_fmt
dx_heartfailure	1.36e-01	3.39e-01
dx_cancer_skin_nonmel	1.37e-01	3.39e-01
dx_glucose_diabetes	1.48e-01	3.48e-01
dx_vitd_deficiency	1.70e-01	3.80e-01
dx_heartattack	2.04e-01	4.36e-01
dx_cancer_colon	3.05e-01	5.89e-01
dx_kidney_stones	3.05e-01	5.89e-01
dx_copd	3.20e-01	5.89e-01
dx_liver	3.26e-01	5.89e-01
dx_cancer_melanoma	3.46e-01	6.03e-01
dx_osteoporosis	3.94e-01	6.62e-01
dx_prediabetes	4.42e-01	7.16e-01
dx_cancer_lung	4.70e-01	7.23e-01
dx_angina	5.01e-01	7.23e-01
dx_chd	5.31e-01	7.23e-01
dx_diabetes	5.54e-01	7.23e-01
dx_cancer	5.58e-01	7.23e-01
dx_hypothyroid_lab	5.59e-01	7.23e-01
dx_psoriasis	5.74e-01	7.23e-01
dx_stroke	5.76e-01	7.23e-01
dx_dementia_proxy	5.84e-01	7.23e-01
dx_hypertension	6.18e-01	7.41e-01
dx_fracture	6.31e-01	7.41e-01
dx_gout	7.15e-01	8.12e-01
dx_insomnia	7.25e-01	8.12e-01
dx_hba1c_diab	8.14e-01	8.90e-01
dx_hba1c_high	8.40e-01	8.97e-01
dx_ibs	8.81e-01	9.20e-01
dx_sleepapnea	9.70e-01	9.78e-01

Disease	p_fmt	q_fmt
dx_hearing_loss	9.78e-01	9.78e-01

1.4. Supplementary Table S10. Adiposity sensitivity

Younger and older stratum coefficients under Base (age+year), BMI, and WHtR adjustment.

disease_var	sex	model	younger	older	revers	models_t	models_rev	preserve	run_id	exposure	exposure	exposure	exposure	source
dx_angina	Female	M0	-0.4622	0.116	true	4	4	true	20260904	Total testost	totalt	Total testost	Sex stero	adiposity
dx_angina	Female	M_BMI	-0.5246	0.116	true	4	4	true	20260904	Total testost	totalt	Total testost	Sex stero	adiposity
dx_angina	Female	M_WH	-0.0469	0.390	true	4	4	true	20260904	Total testost	totalt	Total testost	Sex stero	adiposity
dx_angina	Female	M_WH	-0.4621	0.049	true	4	4	true	20260904	Total testost	totalt	Total testost	Sex stero	adiposity
dx_chd	Male	M0	0.1899	-0.32	true	4	4	true	20260904	Total testost	totalt	Total testost	Sex stero	adiposity
dx_chd	Male	M_BMI	0.2517	-0.22	true	4	4	true	20260904	Total testost	totalt	Total testost	Sex stero	adiposity
dx_chd	Male	M_WH	0.0428	-0.04	true	4	4	true	20260904	Total testost	totalt	Total testost	Sex stero	adiposity
dx_chd	Male	M_WH	0.2528	-0.19	true	4	4	true	20260904	Total testost	totalt	Total testost	Sex stero	adiposity
dx_fracture	Male	M0	-0.6077	-0.01	false	4	3	false	20260904	Total testost	totalt	Total testost	Sex stero	adiposity
dx_fracture	Male	M_BMI	-0.6798	0.057	true	4	3	false	20260904	Total testost	totalt	Total testost	Sex stero	adiposity
dx_fracture	Male	M_WH	-1.7870	0.153	true	4	3	false	20260904	Total testost	totalt	Total testost	Sex stero	adiposity
dx_fracture	Male	M_WH	-0.6427	0.071	true	4	3	false	20260904	Total testost	totalt	Total testost	Sex stero	adiposity
dx_hearing_loss	Female	M0	0.4063	-0.36	true	4	4	true	20260904	Total testost	totalt	Total testost	Sex stero	adiposity
dx_hearing_loss	Female	M_BMI	0.4073	-0.42	true	4	4	true	20260904	Total testost	totalt	Total testost	Sex stero	adiposity
dx_hearing_loss	Female	M_WH	0.5919	-0.59	true	4	4	true	20260904	Total testost	totalt	Total testost	Sex stero	adiposity
dx_hearing_loss	Female	M_WH	0.4172	-0.40	true	4	4	true	20260904	Total testost	totalt	Total testost	Sex stero	adiposity
dx_ibs	Female	M0	-1.0675	-0.01	false	4	1	false	20260904	Total testost	totalt	Total testost	Sex stero	adiposity
dx_ibs	Female	M_BMI	-1.2232	-0.02	false	4	1	false	20260904	Total testost	totalt	Total testost	Sex stero	adiposity
dx_ibs	Female	M_WH	-1.0758	0.02	true	4	1	false	20260904	Total testost	totalt	Total testost	Sex stero	adiposity
dx_ibs	Female	M_WH	-1.2260	-0.03	false	4	1	false	20260904	Total testost	totalt	Total testost	Sex stero	adiposity
dx_insonia	Male	M0	0.1345	-0.24	true	3	3	true	20260904	Total testost	totalt	Total testost	Sex stero	adiposity
dx_insonia	Male	M_BMI	0.2798	-0.11	true	3	3	true	20260904	Total testost	totalt	Total testost	Sex stero	adiposity
dx_insonia	Male	M_WH	0.2999	-0.10	true	3	3	true	20260904	Total testost	totalt	Total testost	Sex stero	adiposity
dx_insulin_resi	Female	M0	-0.0275	-0.29	false	3	0	false	20260904	Total testost	totalt	Total testost	Sex stero	adiposity

disease_var	sex	model	you	olde	reviewers	models_t	models_rev	preserve	run_id	exposure	exposure	exposure	exposure	source
dx_insulin_resi	Female	M_BMI	-0.0456	-0.036	false	3	0	false	20260904	Total testost	totalt	Total testost	Sex stero	adiposity
dx_insulin_resi	Female	M_WH	-0.0605	-0.035	false	3	0	false	20260904	Total testost	totalt	Total testost	Sex stero	adiposity
dx_low_hdl	Female	M0	-0.2420	0.043	true	4	3	false	20260904	Total testost	totalt	Total testost	Sex stero	adiposity
dx_low_hdl	Female	M_BMI	-0.3565	0.035	true	4	3	false	20260904	Total testost	totalt	Total testost	Sex stero	adiposity
dx_low_hdl	Female	M_WH	-0.0743	-0.002	false	4	3	false	20260904	Total testost	totalt	Total testost	Sex stero	adiposity
dx_low_hdl	Female	M_WH	-0.3378	0.044	true	4	3	false	20260904	Total testost	totalt	Total testost	Sex stero	adiposity
dx_anemia	Female	M0	0.0148	-0.070	true	4	3	false	20260904	Free testost	freet	Free testost	Sex stero	adiposity
dx_anemia	Female	M_BMI	0.0080	-0.088	true	4	3	false	20260904	Free testost	freet	Free testost	Sex stero	adiposity
dx_anemia	Female	M_WH	-0.2984	-0.067	false	4	3	false	20260904	Free testost	freet	Free testost	Sex stero	adiposity
dx_anemia	Female	M_WH	0.0153	-0.091	true	4	3	false	20260904	Free testost	freet	Free testost	Sex stero	adiposity
dx_bronchitis	Male	M0	0.1294	-1.034	true	3	3	true	20260904	Free testost	freet	Free testost	Sex stero	adiposity
dx_bronchitis	Male	M_BMI	0.1985	-1.004	true	3	3	true	20260904	Free testost	freet	Free testost	Sex stero	adiposity
dx_bronchitis	Male	M_WH	0.2429	-0.096	true	3	3	true	20260904	Free testost	freet	Free testost	Sex stero	adiposity
dx_fracture	Male	M0	-0.9291	0.029	true	4	4	true	20260904	Free testost	freet	Free testost	Sex stero	adiposity
dx_fracture	Male	M_BMI	-0.8412	0.060	true	4	4	true	20260904	Free testost	freet	Free testost	Sex stero	adiposity
dx_fracture	Male	M_WH	-1.0979	0.212	true	4	4	true	20260904	Free testost	freet	Free testost	Sex stero	adiposity
dx_fracture	Male	M_WH	-0.7768	0.052	true	4	4	true	20260904	Free testost	freet	Free testost	Sex stero	adiposity
dx_gout	Male	M0	0.6573	-0.065	true	3	3	true	20260904	Free testost	freet	Free testost	Sex stero	adiposity
dx_gout	Male	M_BMI	0.7561	-0.033	true	3	3	true	20260904	Free testost	freet	Free testost	Sex stero	adiposity
dx_gout	Male	M_WH	0.8057	-0.032	true	3	3	true	20260904	Free testost	freet	Free testost	Sex stero	adiposity
dx_ifg	Male	M0	0.0228	1.057	false	3	0	false	20260904	Free testost	freet	Free testost	Sex stero	adiposity
dx_ifg	Male	M_BMI	0.2085	1.122	false	3	0	false	20260904	Free testost	freet	Free testost	Sex stero	adiposity
dx_ifg	Male	M_WH	0.2173	1.139	false	3	0	false	20260904	Free testost	freet	Free testost	Sex stero	adiposity
dx_kidney	Female	M0	-0.4194	0.215	true	4	4	true	20260904	Free testost	freet	Free testost	Sex stero	adiposity
dx_kidney	Female	M_BMI	-0.4578	0.168	true	4	4	true	20260904	Free testost	freet	Free testost	Sex stero	adiposity
dx_kidney	Female	M_WH	-0.2933	0.242	true	4	4	true	20260904	Free testost	freet	Free testost	Sex stero	adiposity
dx_kidney	Female	M_WH	-0.5279	0.258	true	4	4	true	20260904	Free testost	freet	Free testost	Sex stero	adiposity
dx_pre_diabete	Male	M0	-0.6558	0.023	true	4	3	false	20260904	Free testost	freet	Free testost	Sex stero	adiposity
dx_pre_diabete	Male	M_BMI	-0.3663	0.099	true	4	3	false	20260904	Free testost	freet	Free testost	Sex stero	adiposity

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dx_pre_diabete	Male	M_WH	-0.5974	-0.01	false	4	3	false	20260904	Free testost	freet	Free testost	Sex stero	adiposity
dx_pre_diabete	Male	M_WH	-0.3021	0.084	true	4	3	false	20260904	Free testost	freet	Free testost	Sex stero	adiposity
dx_angina	Female	M0	-2.0449	1.789	true	3	2	false	20260903	Estradiol	estra diol	Estradiol	Sex stero	adiposity
dx_angina	Female	M_BMI	-1.8881	1.795	true	3	2	false	20260903	Estradiol	estra diol	Estradiol	Sex stero	adiposity
dx_angina	Female	M_WH	-1.8061		false	3	2	false	20260903	Estradiol	estra diol	Estradiol	Sex stero	adiposity
dx_chd	Male	M0	0.3953	-0.03	true	4	3	false	20260903	Estradiol	estra diol	Estradiol	Sex stero	adiposity
dx_chd	Male	M_BMI	0.3833	-0.08	true	4	3	false	20260903	Estradiol	estra diol	Estradiol	Sex stero	adiposity
dx_chd	Male	M_WH	0.1033	0.137	false	4	3	false	20260903	Estradiol	estra diol	Estradiol	Sex stero	adiposity
dx_chd	Male	M_WH	0.3882	-0.04	true	4	3	false	20260903	Estradiol	estra diol	Estradiol	Sex stero	adiposity
dx_depression	Male	M0	-0.2886	0.211	true	4	4	true	20260903	Estradiol	estra diol	Estradiol	Sex stero	adiposity
dx_depression	Male	M_BMI	-0.3134	0.199	true	4	4	true	20260903	Estradiol	estra diol	Estradiol	Sex stero	adiposity
dx_depression	Male	M_WH	-0.3482	0.178	true	4	4	true	20260903	Estradiol	estra diol	Estradiol	Sex stero	adiposity
dx_depression	Male	M_WH	-0.3434	0.189	true	4	4	true	20260903	Estradiol	estra diol	Estradiol	Sex stero	adiposity
dx_hba1c_high	Female	M0	-0.1874	-1.05	false	4	0	false	20260903	Estradiol	estra diol	Estradiol	Sex stero	adiposity
dx_hba1c_high	Female	M_BMI	-0.1687	-0.98	false	4	0	false	20260903	Estradiol	estra diol	Estradiol	Sex stero	adiposity
dx_hba1c_high	Female	M_WH	-0.3251	-0.47	false	4	0	false	20260903	Estradiol	estra diol	Estradiol	Sex stero	adiposity
dx_hba1c_high	Female	M_WH	-0.1878	-0.85	false	4	0	false	20260903	Estradiol	estra diol	Estradiol	Sex stero	adiposity
dx_kidney	Female	M0	-1.3422	2.243	true	4	3	false	20260903	Estradiol	estra diol	Estradiol	Sex stero	adiposity
dx_kidney	Female	M_BMI	-1.5631	1.593	true	4	3	false	20260903	Estradiol	estra diol	Estradiol	Sex stero	adiposity
dx_kidney	Female	M_WH	-2.8431		false	4	3	false	20260903	Estradiol	estra diol	Estradiol	Sex stero	adiposity
dx_kidney	Female	M_WH	-1.5499	1.822	true	4	3	false	20260903	Estradiol	estra diol	Estradiol	Sex stero	adiposity
dx_anemia	Female	M0	-0.0168	0.289	true	4	3	false	20260904	SHBG	shbg	SHBG	Binding	adiposity
dx_anemia	Female	M_BMI	0.0076	0.453	false	4	3	false	20260904	SHBG	shbg	SHBG	Binding	adiposity
dx_anemia	Female	M_WH	-0.0097	0.387	true	4	3	false	20260904	SHBG	shbg	SHBG	Binding	adiposity
dx_anemia	Female	M_WH	-0.0067	0.502	true	4	3	false	20260904	SHBG	shbg	SHBG	Binding	adiposity
dx_arthritis	Male	M0	0.2527	-0.13	true	4	4	true	20260904	SHBG	shbg	SHBG	Binding	adiposity
dx_arthritis	Male	M_BMI	0.3638	-0.00	true	4	4	true	20260904	SHBG	shbg	SHBG	Binding	adiposity
dx_arthritis	Male	M_WH	0.7450	-0.09	true	4	4	true	20260904	SHBG	shbg	SHBG	Binding	adiposity
dx_arthritis	Male	M_WH	0.3913	-0.00	true	4	4	true	20260904	SHBG	shbg	SHBG	Binding	adiposity

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dx_depression	Female	M0	-0.1805	0.049	true	4	4	true	20260904	SHBG	shbg	SHBG	Bindinq	adiposity
dx_depression	Female	M_BMI	-0.1202	0.168	true	4	4	true	20260904	SHBG	shbg	SHBG	Bindinq	adiposity
dx_depression	Female	M_WH	-0.0626	0.237	true	4	4	true	20260904	SHBG	shbg	SHBG	Bindinq	adiposity
dx_depression	Female	M_WH	-0.1090	0.238	true	4	4	true	20260904	SHBG	shbg	SHBG	Bindinq	adiposity
dx_depression	Male	M0	0.3724	-0.023	true	4	4	true	20260904	SHBG	shbg	SHBG	Bindinq	adiposity
dx_depression	Male	M_BMI	0.4440	-0.019	true	4	4	true	20260904	SHBG	shbg	SHBG	Bindinq	adiposity
dx_depression	Male	M_WH	0.3276	-0.007	true	4	4	true	20260904	SHBG	shbg	SHBG	Bindinq	adiposity
dx_depression	Male	M_WH	0.5188	-0.013	true	4	4	true	20260904	SHBG	shbg	SHBG	Bindinq	adiposity
dx_diabetes	Female	M0	-0.0941	-0.098	false	4	2	false	20260904	SHBG	shbg	SHBG	Bindinq	adiposity
dx_diabetes	Female	M_BMI	0.0053	-0.065	true	4	2	false	20260904	SHBG	shbg	SHBG	Bindinq	adiposity
dx_diabetes	Female	M_WH	-1.0628	-0.074	false	4	2	false	20260904	SHBG	shbg	SHBG	Bindinq	adiposity
dx_diabetes	Female	M_WH	0.0285	-0.055	true	4	2	false	20260904	SHBG	shbg	SHBG	Bindinq	adiposity
dx_glucose_dia	Female	M0	-0.5548	-1.042	false	4	0	false	20260904	SHBG	shbg	SHBG	Bindinq	adiposity
dx_glucose_dia	Female	M_BMI	-0.1633	-1.020	false	4	0	false	20260904	SHBG	shbg	SHBG	Bindinq	adiposity
dx_glucose_dia	Female	M_WH	-0.7313	-1.010	false	4	0	false	20260904	SHBG	shbg	SHBG	Bindinq	adiposity
dx_glucose_dia	Female	M_WH	-0.1556	-1.010	false	4	0	false	20260904	SHBG	shbg	SHBG	Bindinq	adiposity
dx_hba1c_diab	Female	M0	-0.7090	-1.057	false	4	0	false	20260904	SHBG	shbg	SHBG	Bindinq	adiposity
dx_hba1c_diab	Female	M_BMI	-0.3483	-1.022	false	4	0	false	20260904	SHBG	shbg	SHBG	Bindinq	adiposity
dx_hba1c_diab	Female	M_WH	-0.6085	-1.006	false	4	0	false	20260904	SHBG	shbg	SHBG	Bindinq	adiposity
dx_hba1c_diab	Female	M_WH	-0.2586	-1.011	false	4	0	false	20260904	SHBG	shbg	SHBG	Bindinq	adiposity
dx_hba1c_high	Female	M0	-0.7485	-1.004	false	4	0	false	20260904	SHBG	shbg	SHBG	Bindinq	adiposity
dx_hba1c_high	Female	M_BMI	-0.4247	-0.083	false	4	0	false	20260904	SHBG	shbg	SHBG	Bindinq	adiposity
dx_hba1c_high	Female	M_WH	-0.6024	-0.090	false	4	0	false	20260904	SHBG	shbg	SHBG	Bindinq	adiposity
dx_hba1c_high	Female	M_WH	-0.4006	-0.076	false	4	0	false	20260904	SHBG	shbg	SHBG	Bindinq	adiposity
dx_hearing_loss	Female	M0	0.4207	-0.013	true	4	4	true	20260904	SHBG	shbg	SHBG	Bindinq	adiposity
dx_hearing_loss	Female	M_BMI	0.4225	-0.020	true	4	4	true	20260904	SHBG	shbg	SHBG	Bindinq	adiposity
dx_hearing_loss	Female	M_WH	0.6314	-0.016	true	4	4	true	20260904	SHBG	shbg	SHBG	Bindinq	adiposity
dx_hearing_loss	Female	M_WH	0.4377	-0.023	true	4	4	true	20260904	SHBG	shbg	SHBG	Bindinq	adiposity
dx_high_trig	Female	M0	0.2523	-1.006	true	4	4	true	20260904	SHBG	shbg	SHBG	Bindinq	adiposity

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dx_high_tri	Female	M_BMI	0.2947	-0.93	true	4	4	true	20260904	SHBG	shbg	SHBG	Bindi_nq	adiposity
dx_high_tri	Female	M_WH	0.3361	-0.97	true	4	4	true	20260904	SHBG	shbg	SHBG	Bindi_nq	adiposity
dx_high_tri	Female	M_WH	0.2951	-0.89	true	4	4	true	20260904	SHBG	shbg	SHBG	Bindi_nq	adiposity
dx_ifg	Male	M0	-0.5241	0.126	true	4	4	true	20260904	SHBG	shbg	SHBG	Bindi_nq	adiposity
dx_ifg	Male	M_BMI	-0.4244	0.119	true	4	4	true	20260904	SHBG	shbg	SHBG	Bindi_nq	adiposity
dx_ifg	Male	M_WH	-0.5339	0.190	true	4	4	true	20260904	SHBG	shbg	SHBG	Bindi_nq	adiposity
dx_ifg	Male	M_WH	-0.4044	0.101	true	4	4	true	20260904	SHBG	shbg	SHBG	Bindi_nq	adiposity
dx_insonia	Female	M0	-0.0988	0.080	true	4	4	true	20260904	SHBG	shbg	SHBG	Bindi_nq	adiposity
dx_insonia	Female	M_BMI	-0.0712	0.181	true	4	4	true	20260904	SHBG	shbg	SHBG	Bindi_nq	adiposity
dx_insonia	Female	M_WH	-0.1220	0.112	true	4	4	true	20260904	SHBG	shbg	SHBG	Bindi_nq	adiposity
dx_insonia	Female	M_WH	-0.0800	0.206	true	4	4	true	20260904	SHBG	shbg	SHBG	Bindi_nq	adiposity
dx_insul_resi	Female	M0	-0.4134	-1.25	false	4	0	false	20260904	SHBG	shbg	SHBG	Bindi_nq	adiposity
dx_insul_resi	Female	M_BMI	-0.2348	-0.84	false	4	0	false	20260904	SHBG	shbg	SHBG	Bindi_nq	adiposity
dx_insul_resi	Female	M_WH	-0.6972	-1.26	false	4	0	false	20260904	SHBG	shbg	SHBG	Bindi_nq	adiposity
dx_insul_resi	Female	M_WH	-0.2969	-0.79	false	4	0	false	20260904	SHBG	shbg	SHBG	Bindi_nq	adiposity
dx_insul_resi	Male	M0	-1.9273	-0.53	false	4	0	false	20260904	SHBG	shbg	SHBG	Bindi_nq	adiposity
dx_insul_resi	Male	M_BMI	-1.2341	-0.14	false	4	0	false	20260904	SHBG	shbg	SHBG	Bindi_nq	adiposity
dx_insul_resi	Male	M_WH	-1.9389	-0.04	false	4	0	false	20260904	SHBG	shbg	SHBG	Bindi_nq	adiposity
dx_insul_resi	Male	M_WH	-1.1629	-0.19	false	4	0	false	20260904	SHBG	shbg	SHBG	Bindi_nq	adiposity
dx_kidney_ston	Male	M0	0.1253	-0.17	true	4	4	true	20260904	SHBG	shbg	SHBG	Bindi_nq	adiposity
dx_kidney_ston	Male	M_BMI	0.1917	-0.10	true	4	4	true	20260904	SHBG	shbg	SHBG	Bindi_nq	adiposity
dx_kidney_ston	Male	M_WH	0.5420	-0.29	true	4	4	true	20260904	SHBG	shbg	SHBG	Bindi_nq	adiposity
dx_kidney_ston	Male	M_WH	0.2648	-0.12	true	4	4	true	20260904	SHBG	shbg	SHBG	Bindi_nq	adiposity
dx_osteoporosi	Female	M0		0.388	false	4	0	false	20260904	SHBG	shbg	SHBG	Bindi_nq	adiposity
dx_osteoporosi	Female	M_BMI		0.372	false	4	0	false	20260904	SHBG	shbg	SHBG	Bindi_nq	adiposity
dx_osteoporosi	Female	M_WH		0.556	false	4	0	false	20260904	SHBG	shbg	SHBG	Bindi_nq	adiposity
dx_osteoporosi	Female	M_WH		0.443	false	4	0	false	20260904	SHBG	shbg	SHBG	Bindi_nq	adiposity
dx_pre_diabete	Female	M0	-0.2102	-0.83	false	4	0	false	20260904	SHBG	shbg	SHBG	Bindi_nq	adiposity
dx_pre_diabete	Female	M_BMI	-0.0882	-0.64	false	4	0	false	20260904	SHBG	shbg	SHBG	Bindi_nq	adiposity

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dx_pre_diabete	Female	M_WH	-0.1916	-1.02	false	4	0	false	20260904	SHBG	shbg	SHBG	Binding	adiposity
dx_pre_diabete	Female	M_WH	-0.1078	-0.68	false	4	0	false	20260904	SHBG	shbg	SHBG	Binding	adiposity
dx_sleepapnea	Female	M0	-0.5872	-0.13	false	3	2	false	20260904	SHBG	shbg	SHBG	Binding	adiposity
dx_sleepapnea	Female	M_BMI	-0.3665	0.083	true	3	2	false	20260904	SHBG	shbg	SHBG	Binding	adiposity
dx_sleepapnea	Female	M_WH	-0.3656	0.165	true	3	2	false	20260904	SHBG	shbg	SHBG	Binding	adiposity
dx_fracture	Female	M0	0.2162	-0.43	true	3	3	true	20260904	TSH	tsh	TSH	Thyroid	adiposity
dx_fracture	Female	M_BMI	0.1918	-0.44	true	3	3	true	20260904	TSH	tsh	TSH	Thyroid	adiposity
dx_fracture	Female	M_WH	0.1863	-0.44	true	3	3	true	20260904	TSH	tsh	TSH	Thyroid	adiposity
dx_high_trig	Female	M0	0.4999	-0.08	true	3	3	true	20260904	TSH	tsh	TSH	Thyroid	adiposity
dx_high_trig	Female	M_BMI	0.4494	-0.10	true	3	3	true	20260904	TSH	tsh	TSH	Thyroid	adiposity
dx_high_trig	Female	M_WH	0.4758	-0.10	true	3	3	true	20260904	TSH	tsh	TSH	Thyroid	adiposity
dx_high_chol	Female	M0	0.2344	-0.05	true	3	3	true	20260904	TSH	tsh	TSH	Thyroid	adiposity
dx_high_chol	Female	M_BMI	0.2160	-0.07	true	3	3	true	20260904	TSH	tsh	TSH	Thyroid	adiposity
dx_high_chol	Female	M_WH	0.2143	-0.06	true	3	3	true	20260904	TSH	tsh	TSH	Thyroid	adiposity
dx_pre_diabete	Female	M0	0.1761	-0.20	true	3	3	true	20260904	TSH	tsh	TSH	Thyroid	adiposity
dx_pre_diabete	Female	M_BMI	0.1300	-0.22	true	3	3	true	20260904	TSH	tsh	TSH	Thyroid	adiposity
dx_pre_diabete	Female	M_WH	0.1450	-0.18	true	3	3	true	20260904	TSH	tsh	TSH	Thyroid	adiposity
dx_sleepapnea	Female	M0	-0.1991	0.174	true	3	3	true	20260904	TSH	tsh	TSH	Thyroid	adiposity
dx_sleepapnea	Female	M_BMI	-0.2360	0.121	true	3	3	true	20260904	TSH	tsh	TSH	Thyroid	adiposity
dx_sleepapnea	Female	M_WH	-0.2326	0.135	true	3	3	true	20260904	TSH	tsh	TSH	Thyroid	adiposity
dx_chd	Male	M0		0.047	false	3	0	false	20260903	FreeT4	ft4	FreeT4	Thyroid	adiposity
dx_chd	Male	M_BMI		0.050	false	3	0	false	20260903	FreeT4	ft4	FreeT4	Thyroid	adiposity
dx_chd	Male	M_WH		0.040	false	3	0	false	20260903	FreeT4	ft4	FreeT4	Thyroid	adiposity
dx_fracture	Female	M0	0.0782	0.695	false	3	0	false	20260903	FreeT4	ft4	FreeT4	Thyroid	adiposity
dx_fracture	Female	M_BMI	0.0821	0.701	false	3	0	false	20260903	FreeT4	ft4	FreeT4	Thyroid	adiposity
dx_fracture	Female	M_WH	0.0896	0.716	false	3	0	false	20260903	FreeT4	ft4	FreeT4	Thyroid	adiposity
dx_gout	Female	M0	-1.1223	0.017	true	3	3	true	20260903	FreeT4	ft4	FreeT4	Thyroid	adiposity
dx_gout	Female	M_BMI	-1.1393	0.019	true	3	3	true	20260903	FreeT4	ft4	FreeT4	Thyroid	adiposity
dx_gout	Female	M_WH	-1.1175	0.045	true	3	3	true	20260903	FreeT4	ft4	FreeT4	Thyroid	adiposity

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dx_liver	Male	M0	0.3382	-0.12	true	3	3	true	20260903	FreeT4	ft4	FreeT4	Thyroid	adiposity
dx_liver	Male	M_BMI	0.3058	-0.29	true	3	3	true	20260903	FreeT4	ft4	FreeT4	Thyroid	adiposity
dx_liver	Male	M_WH	0.3314	-0.30	true	3	3	true	20260903	FreeT4	ft4	FreeT4	Thyroid	adiposity
dx_chd	Male	M0		0.047	false	3	0	false	20260903	FreeT4	ft4	FreeT4	Thyroid	adiposity
dx_chd	Male	M_BMI		0.050	false	3	0	false	20260903	FreeT4	ft4	FreeT4	Thyroid	adiposity
dx_chd	Male	M_WH		0.040	false	3	0	false	20260903	FreeT4	ft4	FreeT4	Thyroid	adiposity
dx_fracture	Female	M0	0.0782	0.695	false	3	0	false	20260903	FreeT4	ft4	FreeT4	Thyroid	adiposity
dx_fracture	Female	M_BMI	0.0821	0.701	false	3	0	false	20260903	FreeT4	ft4	FreeT4	Thyroid	adiposity
dx_fracture	Female	M_WH	0.0896	0.716	false	3	0	false	20260903	FreeT4	ft4	FreeT4	Thyroid	adiposity
dx_gout	Female	M0	-1.1223	0.017	true	3	3	true	20260903	FreeT4	ft4	FreeT4	Thyroid	adiposity
dx_gout	Female	M_BMI	-1.1393	0.019	true	3	3	true	20260903	FreeT4	ft4	FreeT4	Thyroid	adiposity
dx_gout	Female	M_WH	-1.1175	0.045	true	3	3	true	20260903	FreeT4	ft4	FreeT4	Thyroid	adiposity
dx_liver	Male	M0	0.3382	-0.12	true	3	3	true	20260903	FreeT4	ft4	FreeT4	Thyroid	adiposity
dx_liver	Male	M_BMI	0.3058	-0.29	true	3	3	true	20260903	FreeT4	ft4	FreeT4	Thyroid	adiposity
dx_liver	Male	M_WH	0.3314	-0.30	true	3	3	true	20260903	FreeT4	ft4	FreeT4	Thyroid	adiposity
dx_chd	Male	M0		0.047	false	3	0	false	20260903	FreeT4	ft4	FreeT4	Thyroid	adiposity
dx_chd	Male	M_BMI		0.050	false	3	0	false	20260903	FreeT4	ft4	FreeT4	Thyroid	adiposity
dx_chd	Male	M_WH		0.040	false	3	0	false	20260903	FreeT4	ft4	FreeT4	Thyroid	adiposity
dx_fracture	Female	M0	0.0782	0.695	false	3	0	false	20260903	FreeT4	ft4	FreeT4	Thyroid	adiposity
dx_fracture	Female	M_BMI	0.0821	0.701	false	3	0	false	20260903	FreeT4	ft4	FreeT4	Thyroid	adiposity
dx_fracture	Female	M_WH	0.0896	0.716	false	3	0	false	20260903	FreeT4	ft4	FreeT4	Thyroid	adiposity
dx_gout	Female	M0	-1.1223	0.017	true	3	3	true	20260903	FreeT4	ft4	FreeT4	Thyroid	adiposity
dx_gout	Female	M_BMI	-1.1393	0.019	true	3	3	true	20260903	FreeT4	ft4	FreeT4	Thyroid	adiposity
dx_gout	Female	M_WH	-1.1175	0.045	true	3	3	true	20260903	FreeT4	ft4	FreeT4	Thyroid	adiposity
dx_liver	Male	M0	0.3382	-0.12	true	3	3	true	20260903	FreeT4	ft4	FreeT4	Thyroid	adiposity
dx_liver	Male	M_BMI	0.3058	-0.29	true	3	3	true	20260903	FreeT4	ft4	FreeT4	Thyroid	adiposity
dx_liver	Male	M_WH	0.3314	-0.30	true	3	3	true	20260903	FreeT4	ft4	FreeT4	Thyroid	adiposity
dx_albuminuria	Female	M0	0.0956	-0.30	true	3	3	true	20260904	FreeT3	ft3	FreeT3	Thyroid	adiposity
dx_albuminuria	Female	M_BMI	0.0961	-0.28	true	3	3	true	20260904	FreeT3	ft3	FreeT3	Thyroid	adiposity

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dx_albuminuria	Female	M_WH	0.0 945	-0.25	true	3	3	true	2026 0904	Free T3	ft3	Free T3	Thyroid	adiposity
dx_anemia	Female	M0	0.0 376	-0.70	true	3	3	true	2026 0904	Free T3	ft3	Free T3	Thyroid	adiposity
dx_anemia	Female	M_BMI	0.0 358	-0.68	true	3	3	true	2026 0904	Free T3	ft3	Free T3	Thyroid	adiposity
dx_anemia	Female	M_WH	0.0 342	-0.73	true	3	3	true	2026 0904	Free T3	ft3	Free T3	Thyroid	adiposity
dx_asthma	Male	M0	0.0 507	-0.32	true	3	3	true	2026 0904	Free T3	ft3	Free T3	Thyroid	adiposity
dx_asthma	Male	M_BMI	0.0 373	-0.35	true	3	3	true	2026 0904	Free T3	ft3	Free T3	Thyroid	adiposity
dx_asthma	Male	M_WH	0.0 121	-0.36	true	3	3	true	2026 0904	Free T3	ft3	Free T3	Thyroid	adiposity
dx_heartrfailure	Female	M0	0.0 915	-1.09	true	3	3	true	2026 0904	Free T3	ft3	Free T3	Thyroid	adiposity
dx_heartrfailure	Female	M_BMI	0.0 965	-1.07	true	3	3	true	2026 0904	Free T3	ft3	Free T3	Thyroid	adiposity
dx_heartrfailure	Female	M_WH	0.0 926	-1.14	true	3	3	true	2026 0904	Free T3	ft3	Free T3	Thyroid	adiposity
dx_hypothyroid	Male	M0	-0.5 436	0.872	true	3	3	true	2026 0904	Free T3	ft3	Free T3	Thyroid	adiposity
dx_hypothyroid	Male	M_BMI	-0.4 961	0.942	true	3	3	true	2026 0904	Free T3	ft3	Free T3	Thyroid	adiposity
dx_hypothyroid	Male	M_WH	-0.4 617	0.889	true	3	3	true	2026 0904	Free T3	ft3	Free T3	Thyroid	adiposity
dx_hypothyroid	Male	M0	0.1 760	-0.50	true	3	3	true	2026 0904	Free T3	ft3	Free T3	Thyroid	adiposity
dx_hypothyroid	Male	M_BMI	0.1 589	-0.48	true	3	3	true	2026 0904	Free T3	ft3	Free T3	Thyroid	adiposity
dx_hypothyroid	Male	M_WH	0.0 980	-0.49	true	3	3	true	2026 0904	Free T3	ft3	Free T3	Thyroid	adiposity
dx_ifg	Female	M0	0.0 577	0.671	false	3	0	false	2026 0904	Free T3	ft3	Free T3	Thyroid	adiposity
dx_ifg	Female	M_BMI	0.0 490	0.626	false	3	0	false	2026 0904	Free T3	ft3	Free T3	Thyroid	adiposity
dx_ifg	Female	M_WH	0.0 456	0.645	false	3	0	false	2026 0904	Free T3	ft3	Free T3	Thyroid	adiposity
dx_albuminuria	Male	M0	0.6 716	0.036	false	4	0	false	2026 0904	LH	lh	LH	Gonadotr	adiposity
dx_albuminuria	Male	M_BMI	0.6 684	0.058	false	4	0	false	2026 0904	LH	lh	LH	Gonadotr	adiposity
dx_albuminuria	Male	M_WH	0.6 962	0.076	false	4	0	false	2026 0904	LH	lh	LH	Gonadotr	adiposity
dx_albuminuria	Male	M_WH	0.6 940	0.084	false	4	0	false	2026 0904	LH	lh	LH	Gonadotr	adiposity
dx_diabetes	Female	M0	-0.3 144	-0.62	false	4	0	false	2026 0904	LH	lh	LH	Gonadotr	adiposity
dx_diabetes	Female	M_BMI	-0.1 827	-0.42	false	4	0	false	2026 0904	LH	lh	LH	Gonadotr	adiposity
dx_diabetes	Female	M_WH	-0.1 570	-0.58	false	4	0	false	2026 0904	LH	lh	LH	Gonadotr	adiposity
dx_diabetes	Female	M_WH	-0.0 452	-0.39	false	4	0	false	2026 0904	LH	lh	LH	Gonadotr	adiposity
dx_diabetes	Male	M0	0.5 847	0.201	false	4	0	false	2026 0904	LH	lh	LH	Gonadotr	adiposity
dx_diabetes	Male	M_BMI	0.6 101	0.224	false	4	0	false	2026 0904	LH	lh	LH	Gonadotr	adiposity

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dx_diabetes	Male	M_WH	0.6946	0.263	false	4	0	false	20260904	LH	lh	LH	Gonadotr	adiposity
dx_diabetes	Male	M_WH	0.6111	0.263	false	4	0	false	20260904	LH	lh	LH	Gonadotr	adiposity
dx_fracture	Female	M0	0.3955	-0.09	true	4	4	true	20260904	LH	lh	LH	Gonadotr	adiposity
dx_fracture	Female	M_BMI	0.4048	-0.05	true	4	4	true	20260904	LH	lh	LH	Gonadotr	adiposity
dx_fracture	Female	M_WH	0.4480	-0.10	true	4	4	true	20260904	LH	lh	LH	Gonadotr	adiposity
dx_fracture	Female	M_WH	0.4319	-0.07	true	4	4	true	20260904	LH	lh	LH	Gonadotr	adiposity
dx_hba1c_high	Female	M0	-0.1805	-0.43	false	4	0	false	20260904	LH	lh	LH	Gonadotr	adiposity
dx_hba1c_high	Female	M_BMI	-0.0735	-0.30	false	4	0	false	20260904	LH	lh	LH	Gonadotr	adiposity
dx_hba1c_high	Female	M_WH	-0.1269	-0.41	false	4	0	false	20260904	LH	lh	LH	Gonadotr	adiposity
dx_hba1c_high	Female	M_WH	-0.0502	-0.28	false	4	0	false	20260904	LH	lh	LH	Gonadotr	adiposity
dx_liver	Male	M0	0.7206	0.094	false	4	0	false	20260904	LH	lh	LH	Gonadotr	adiposity
dx_liver	Male	M_BMI	0.7207	0.115	false	4	0	false	20260904	LH	lh	LH	Gonadotr	adiposity
dx_liver	Male	M_WH	0.7031	0.080	false	4	0	false	20260904	LH	lh	LH	Gonadotr	adiposity
dx_liver	Male	M_WH	0.7261	0.095	false	4	0	false	20260904	LH	lh	LH	Gonadotr	adiposity
dx_chd	Female	M0		-0.12	false	4	0	false	20260904	FSH	fsh	FSH	Gonadotr	adiposity
dx_chd	Female	M_BMI		0.022	false	4	0	false	20260904	FSH	fsh	FSH	Gonadotr	adiposity
dx_chd	Female	M_WH		-0.16	false	4	0	false	20260904	FSH	fsh	FSH	Gonadotr	adiposity
dx_chd	Female	M_WH		0.015	false	4	0	false	20260904	FSH	fsh	FSH	Gonadotr	adiposity
dx_diabetes	Male	M0	1.2284	0.137	false	4	0	false	20260904	FSH	fsh	FSH	Gonadotr	adiposity
dx_diabetes	Male	M_BMI	1.4144	0.157	false	4	0	false	20260904	FSH	fsh	FSH	Gonadotr	adiposity
dx_diabetes	Male	M_WH	1.5492	0.182	false	4	0	false	20260904	FSH	fsh	FSH	Gonadotr	adiposity
dx_diabetes	Male	M_WH	1.4947	0.178	false	4	0	false	20260904	FSH	fsh	FSH	Gonadotr	adiposity
dx_hba1c_diab	Female	M0	-0.5395	-1.04	false	4	0	false	20260904	FSH	fsh	FSH	Gonadotr	adiposity
dx_hba1c_diab	Female	M_BMI	-0.3071	-0.74	false	4	0	false	20260904	FSH	fsh	FSH	Gonadotr	adiposity
dx_hba1c_diab	Female	M_WH	-0.3283	-1.01	false	4	0	false	20260904	FSH	fsh	FSH	Gonadotr	adiposity
dx_hba1c_diab	Female	M_WH	-0.1534	-0.65	false	4	0	false	20260904	FSH	fsh	FSH	Gonadotr	adiposity
dx_hba1c_diab	Male	M0	1.4025	0.072	false	4	0	false	20260904	FSH	fsh	FSH	Gonadotr	adiposity
dx_hba1c_diab	Male	M_BMI	1.4849	0.111	false	4	0	false	20260904	FSH	fsh	FSH	Gonadotr	adiposity
dx_hba1c_diab	Male	M_WH	1.6628	0.123	false	4	0	false	20260904	FSH	fsh	FSH	Gonadotr	adiposity

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dx_hba1c_diab	Male	M_WH	1.5955	0.125	false	4	0	false	20260904	FSH	fsh	FSH	Gonadotr	adiposity
dx_hearing_loss	Male	M0		0.092	false	4	0	false	20260904	FSH	fsh	FSH	Gonadotr	adiposity
dx_hearing_loss	Male	M_BMI		0.102	false	4	0	false	20260904	FSH	fsh	FSH	Gonadotr	adiposity
dx_hearing_loss	Male	M_WH		0.060	false	4	0	false	20260904	FSH	fsh	FSH	Gonadotr	adiposity
dx_hearing_loss	Male	M_WH		0.095	false	4	0	false	20260904	FSH	fsh	FSH	Gonadotr	adiposity
dx_hypertensi	Male	M0	0.8726	-0.00	true	4	1	false	20260904	FSH	fsh	FSH	Gonadotr	adiposity
dx_hypertensi	Male	M_BMI	1.0221	0.022	false	4	1	false	20260904	FSH	fsh	FSH	Gonadotr	adiposity
dx_hypertensi	Male	M_WH	0.8399	0.014	false	4	1	false	20260904	FSH	fsh	FSH	Gonadotr	adiposity
dx_hypertensi	Male	M_WH	0.8994	0.021	false	4	1	false	20260904	FSH	fsh	FSH	Gonadotr	adiposity
dx_asthma	Female	M0	-0.0645	-2.11	false	4	0	false	20260903	Progesteron	prog	Progesteron	Reproductive	adiposity
dx_asthma	Female	M_BMI	-0.0563	-1.99	false	4	0	false	20260903	Progesteron	prog	Progesteron	Reproductive	adiposity
dx_asthma	Female	M_WH	-0.0695	-1.90	false	4	0	false	20260903	Progesteron	prog	Progesteron	Reproductive	adiposity
dx_asthma	Female	M_WH	-0.0685	-1.85	false	4	0	false	20260903	Progesteron	prog	Progesteron	Reproductive	adiposity
dx_hba1c_diab	Male	M0	-3.3945	-1.08	false	4	0	false	20260903	Progesteron	prog	Progesteron	Reproductive	adiposity
dx_hba1c_diab	Male	M_BMI	-2.8514	-0.87	false	4	0	false	20260903	Progesteron	prog	Progesteron	Reproductive	adiposity
dx_hba1c_diab	Male	M_WH	-2.4499	-0.99	false	4	0	false	20260903	Progesteron	prog	Progesteron	Reproductive	adiposity
dx_hba1c_diab	Male	M_WH	-2.5908	-0.83	false	4	0	false	20260903	Progesteron	prog	Progesteron	Reproductive	adiposity
dx_hearing_loss	Male	M0		-0.07	false	4	0	false	20260903	Progesteron	prog	Progesteron	Reproductive	adiposity
dx_hearing_loss	Male	M_BMI		-0.09	false	4	0	false	20260903	Progesteron	prog	Progesteron	Reproductive	adiposity
dx_hearing_loss	Male	M_WH		-0.04	false	4	0	false	20260903	Progesteron	prog	Progesteron	Reproductive	adiposity
dx_hearing_loss	Male	M_WH		-0.06	false	4	0	false	20260903	Progesteron	prog	Progesteron	Reproductive	adiposity
dx_highchol	Female	M0	-0.0069	-0.62	false	4	1	false	20260903	Progesteron	prog	Progesteron	Reproductive	adiposity
dx_highchol	Female	M_BMI	0.0024	-0.57	true	4	1	false	20260903	Progesteron	prog	Progesteron	Reproductive	adiposity
dx_highchol	Female	M_WH	-0.0525	-0.67	false	4	1	false	20260903	Progesteron	prog	Progesteron	Reproductive	adiposity
dx_highchol	Female	M_WH	-0.0448	-0.69	false	4	1	false	20260903	Progesteron	prog	Progesteron	Reproductive	adiposity
dx_arthritis	Male	M0	-0.0163	-0.40	false	4	3	false	20260904	Androstene	a4	Androstene	Reproductive	adiposity
dx_arthritis	Male	M_BMI	0.0264	-0.39	true	4	3	false	20260904	Androstene	a4	Androstene	Reproductive	adiposity
dx_arthritis	Male	M_WH	0.0161	-0.36	true	4	3	false	20260904	Androstene	a4	Androstene	Reproductive	adiposity
dx_arthritis	Male	M_WH	0.0201	-0.35	true	4	3	false	20260904	Androstene	a4	Androstene	Reproductive	adiposity

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dx_asthma	Female	M0	0.0957	-0.37	true	4	4	true	20260904	Androstene	a4	Androstene	Reproductive	adiposity
dx_asthma	Female	M_BMI	0.1009	-0.43	true	4	4	true	20260904	Androstene	a4	Androstene	Reproductive	adiposity
dx_asthma	Female	M_WH	0.1159	-0.49	true	4	4	true	20260904	Androstene	a4	Androstene	Reproductive	adiposity
dx_asthma	Female	M_WH	0.1184	-0.49	true	4	4	true	20260904	Androstene	a4	Androstene	Reproductive	adiposity
dx_hearing_loss	Female	M0		-0.62	false	4	0	false	20260904	Androstene	a4	Androstene	Reproductive	adiposity
dx_hearing_loss	Female	M_BMI		-0.64	false	4	0	false	20260904	Androstene	a4	Androstene	Reproductive	adiposity
dx_hearing_loss	Female	M_WH		-0.64	false	4	0	false	20260904	Androstene	a4	Androstene	Reproductive	adiposity
dx_hearing_loss	Female	M_WH		-0.61	false	4	0	false	20260904	Androstene	a4	Androstene	Reproductive	adiposity
dx_stroke	Male	M0		0.171	false	4	0	false	20260904	Androstene	a4	Androstene	Reproductive	adiposity
dx_stroke	Male	M_BMI		0.158	false	4	0	false	20260904	Androstene	a4	Androstene	Reproductive	adiposity
dx_stroke	Male	M_WH		0.107	false	4	0	false	20260904	Androstene	a4	Androstene	Reproductive	adiposity
dx_stroke	Male	M_WH		0.117	false	4	0	false	20260904	Androstene	a4	Androstene	Reproductive	adiposity
dx_arthritis	Male	M0	0.3018	0.057	false	4	0	false	20260904	Vitamin D	vitd	Vitamin D	Metabolic	adiposity
dx_arthritis	Male	M_BMI	0.3535	0.108	false	4	0	false	20260904	Vitamin D	vitd	Vitamin D	Metabolic	adiposity
dx_arthritis	Male	M_WH	0.4115	0.147	false	4	0	false	20260904	Vitamin D	vitd	Vitamin D	Metabolic	adiposity
dx_arthritis	Male	M_WH	0.3523	0.114	false	4	0	false	20260904	Vitamin D	vitd	Vitamin D	Metabolic	adiposity
dx_diabetes	Female	M0	-0.2614	-0.28	false	4	0	false	20260904	Vitamin D	vitd	Vitamin D	Metabolic	adiposity
dx_diabetes	Female	M_BMI	-0.0530	-0.17	false	4	0	false	20260904	Vitamin D	vitd	Vitamin D	Metabolic	adiposity
dx_diabetes	Female	M_WH	-0.1683	-0.29	false	4	0	false	20260904	Vitamin D	vitd	Vitamin D	Metabolic	adiposity
dx_diabetes	Female	M_WH	-0.0254	-0.14	false	4	0	false	20260904	Vitamin D	vitd	Vitamin D	Metabolic	adiposity
dx_hbA1c_high	Female	M0	-0.5617	-0.26	false	4	0	false	20260904	Vitamin D	vitd	Vitamin D	Metabolic	adiposity
dx_hbA1c_high	Female	M_BMI	-0.3510	-0.16	false	4	0	false	20260904	Vitamin D	vitd	Vitamin D	Metabolic	adiposity
dx_hbA1c_high	Female	M_WH	-0.4880	-0.25	false	4	0	false	20260904	Vitamin D	vitd	Vitamin D	Metabolic	adiposity
dx_hbA1c_high	Female	M_WH	-0.3559	-0.15	false	4	0	false	20260904	Vitamin D	vitd	Vitamin D	Metabolic	adiposity
dx_hbA1c_high	Male	M0	-0.3769	-0.12	false	4	1	false	20260904	Vitamin D	vitd	Vitamin D	Metabolic	adiposity
dx_hbA1c_high	Male	M_BMI	-0.3093	-0.09	false	4	1	false	20260904	Vitamin D	vitd	Vitamin D	Metabolic	adiposity
dx_hbA1c_high	Male	M_WH	-0.2567	0.009	true	4	1	false	20260904	Vitamin D	vitd	Vitamin D	Metabolic	adiposity
dx_hbA1c_high	Male	M_WH	-0.3009	-0.08	false	4	1	false	20260904	Vitamin D	vitd	Vitamin D	Metabolic	adiposity
dx_high_trig	Female	M0	0.0263	-0.10	true	4	4	true	20260904	Vitamin D	vitd	Vitamin D	Metabolic	adiposity

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dx_high_tri	Female	M_BMI	0.1929	-0.03	true	4	4	true	20260904	Vitamin D	vitd	Vitamin D	Metabolic	adiposity
dx_high_tri	Female	M_WH	0.3571	-0.02	true	4	4	true	20260904	Vitamin D	vitd	Vitamin D	Metabolic	adiposity
dx_high_tri	Female	M_WH	0.2682	-0.00	true	4	4	true	20260904	Vitamin D	vitd	Vitamin D	Metabolic	adiposity
dx_ifg	Female	M0	-0.4047	-0.09	false	4	0	false	20260904	Vitamin D	vitd	Vitamin D	Metabolic	adiposity
dx_ifg	Female	M_BMI	-0.2703	-0.04	false	4	0	false	20260904	Vitamin D	vitd	Vitamin D	Metabolic	adiposity
dx_ifg	Female	M_WH	-0.2304	-0.02	false	4	0	false	20260904	Vitamin D	vitd	Vitamin D	Metabolic	adiposity
dx_ifg	Female	M_WH	-0.2682	-0.03	false	4	0	false	20260904	Vitamin D	vitd	Vitamin D	Metabolic	adiposity
dx_insulin_resi	Female	M0	-0.5711	-0.24	false	4	0	false	20260904	Vitamin D	vitd	Vitamin D	Metabolic	adiposity
dx_insulin_resi	Female	M_BMI	-0.3038	-0.09	false	4	0	false	20260904	Vitamin D	vitd	Vitamin D	Metabolic	adiposity
dx_insulin_resi	Female	M_WH	-0.5811	-0.10	false	4	0	false	20260904	Vitamin D	vitd	Vitamin D	Metabolic	adiposity
dx_insulin_resi	Female	M_WH	-0.3105	-0.07	false	4	0	false	20260904	Vitamin D	vitd	Vitamin D	Metabolic	adiposity
dx_kidney_ston	Female	M0	0.1451	-0.01	true	4	2	false	20260904	Vitamin D	vitd	Vitamin D	Metabolic	adiposity
dx_kidney_ston	Female	M_BMI	0.1925	0.045	false	4	2	false	20260904	Vitamin D	vitd	Vitamin D	Metabolic	adiposity
dx_kidney_ston	Female	M_WH	0.0333	-0.06	true	4	2	false	20260904	Vitamin D	vitd	Vitamin D	Metabolic	adiposity
dx_kidney_ston	Female	M_WH	0.2046	0.049	false	4	2	false	20260904	Vitamin D	vitd	Vitamin D	Metabolic	adiposity
dx_kidney_ston	Male	M0	0.1295	-0.04	true	4	3	false	20260904	Vitamin D	vitd	Vitamin D	Metabolic	adiposity
dx_kidney_ston	Male	M_BMI	0.1680	-0.02	true	4	3	false	20260904	Vitamin D	vitd	Vitamin D	Metabolic	adiposity
dx_kidney_ston	Male	M_WH	0.3304	0.011	false	4	3	false	20260904	Vitamin D	vitd	Vitamin D	Metabolic	adiposity
dx_kidney_ston	Male	M_WH	0.1889	-0.02	true	4	3	false	20260904	Vitamin D	vitd	Vitamin D	Metabolic	adiposity
dx_psooriasis	Female	M0	0.2893	-0.06	true	3	2	false	20260904	Vitamin D	vitd	Vitamin D	Metabolic	adiposity
dx_psooriasis	Female	M_BMI	0.2834	-0.00	true	3	2	false	20260904	Vitamin D	vitd	Vitamin D	Metabolic	adiposity
dx_psooriasis	Female	M_WH	0.2961	0.028	false	3	2	false	20260904	Vitamin D	vitd	Vitamin D	Metabolic	adiposity