Comparison of SAD variance among methods to adjust for population structure

Number of significant PC-wise SAD components in first 20 PCs

None GWAS sample PCs PCs of PCs nixed model WAS Target sample PCs Target Both set Linean LMM with PCs Target Both set Linean LMM with PCs Median across traits

Isotropic inflation

Non	e GW	AS sampl	e PCS Jet sampl Both	e PCS In sets of Line (L)	Salwixed	Model Mith GWAS Mple PCs
2.9	2.1	2.6	1.7	1.2	1.2	

0	1	0	0	0	0
4	1	4	2	5	2
1	2	1	2	0	0
1	0	0	2	0	1
0	0	0	0	1	0
0	0	0	0	0	0
3	3	3	3	2	2
1	2	3	4	4	2
0	1	0	0	1	0
1	1	0	2	4	5
0	1	1	3	0	1
0	1	0	2	0	0
6	7	6	8	8	8
2	2	2	2	1	1
5	0	2	0	5	0
6	5	6	6	7	7
1	1	1	0	0	0

Waist circumference
Hip circumference
Household income
Neuroticism score
Pack years of smoking
Years of schooling
Alcohol intake frequency
Overall health rating
Body mass index
Birth weight
Hand grip strength
Pulse rate
Hair color
Height
Diastolic blood pressure
Skin color
Forced vital capacity

1.74	8.93	1.71	1.72	1.02	1.02
1.46	4.17	1.62	1.46	1.12	1.05
4.53	3.90	4.32	4.27	3.98	3.05
3.35	3.69	2.38	2.92	2.54	2.75
2.96	3.44	5.48	3.50	2.68	2.52
2.91	3.41	3.32	3.12	3.13	7.89
4.59	3.00	2.12	2.02	1.34	1.32
1.82	2.19	2.24	2.25	1.44	1.56
6.95	2.14				
0.95	2.14	3.24	2.08	1.20	1.15
2.10	2.14	2.43	2.08	5.00	1.15
2.10	2.04	2.43	2.95	5.00	1.46
2.10	2.04 1.75	2.43 1.73	2.95 1.66	5.00	1.46 1.15
2.10 3.97 1.68	2.04 1.75 1.71	2.43 1.73 2.61	2.95 1.66 1.61	5.00 1.08 2.17	1.46 1.15 1.41
2.10 3.97 1.68 3.49	2.04 1.75 1.71 1.63	2.43 1.73 2.61 2.65	2.95 1.66 1.61 1.63	5.00 1.08 2.17 0.98	1.46 1.15 1.41 0.98
2.10 3.97 1.68 3.49 3.68	2.04 1.75 1.71 1.63 1.59	2.43 1.73 2.61 2.65 3.32	2.95 1.66 1.61 1.63 1.61	5.00 1.08 2.17 0.98 1.23	1.46 1.15 1.41 0.98 1.24