

Online Table 1: Phenotypes Evaluated for Association using Population-based Analysis (GEE)

Group	Category	Trait Label	Name	GEE Link
Aging	BoneAging	BUA	Bone Ultrasound attenuation measured by QUS, multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001754">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001754</a>
Aging	BoneAging	deltaOSSR	Bone age by osseographic scoring system, multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001788">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001788</a>
Aging	BoneAging	deltaOSSrf	Bone age by osseographic scoring system (Women), multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001790">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001790</a>
Aging	BoneAging	deltaOSSrm	Bone age by osseographic scoring system (Men, multivariable adjusted)	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001792">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001792</a>
Aging	BoneAging	FNBMd	Femoral Neck BMD measured by DXA, multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001756">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001756</a>
Aging	BoneAging	FNBMdf	Femoral Neck BMD measured by DXA (Women), multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001794">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001794</a>
Aging	BoneAging	FNBMdm	Femoral Neck BMD measured by DXA (Men), multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001796">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001796</a>
Aging	BoneAging	ITAvgBR1rf	Hip geometry (IT BucklingRatio, Women), multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001798">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001798</a>
Aging	BoneAging	ITAvgBR1rm	Hip geometry (IT BucklingRatio, Men), multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001800">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001800</a>
Aging	BoneAging	ITAvgBRrf	Hip geometry (IT BucklingRatio, Women), age- adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001802">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001802</a>
Aging	BoneAging	ITAvgBRrm	Hip geometry (IT BucklingRatio, Men), age- adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001804">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001804</a>
Aging	BoneAging	LSBMD	Lumbar Spine BMD measured by DXA, multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001758">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001758</a>
Aging	BoneAging	LSBMDf	Spine Neck BMD measured by DXA (Women), multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001818">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001818</a>
Aging	BoneAging	LSBMDm	Spine Neck BMD measured by DXA (Men), multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001820">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001820</a>
Aging	BoneAging	NeckCSMI	Hip geometry by DXA (Neck Moment of Inertia), age- and sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001760">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001760</a>
Aging	BoneAging	NeckCSMI1	Hip geometry by DXA (Neck Moment of Inertia), multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001762">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001762</a>
Aging	BoneAging	NeckLeng	Hip geometry by DXA (Neck Length), age- and sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001764">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001764</a>
Aging	BoneAging	NeckLeng1	Hip geometry by DXA (Neck Length), multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001766">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001766</a>
Aging	BoneAging	NeckLengf	Hip geometry (Neck Length, Women), multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001822">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001822</a>
Aging	BoneAging	NeckLengm	Hip geometry (Neck Length, Men), multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001824">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001824</a>
Aging	BoneAging	NeckW	Hip geometry by DXA (Neck Width), age- and sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001768">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001768</a>
Aging	BoneAging	NeckW1	Hip geometry by DXA (Neck Width), multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001770">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001770</a>
Aging	BoneAging	NeckW1rf	Hip geometry (Neck Width, Women), multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001826">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001826</a>
Aging	BoneAging	NeckW1rm	Hip geometry (Neck Width, Men), multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001828">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001828</a>
Aging	BoneAging	NeckWrf	Hip geometry (Neck Width, Women), age-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001830">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001830</a>
Aging	BoneAging	NeckWrm	Hip geometry (Neck Width, Men), age-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001832">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001832</a>
Aging	BoneAging	NeckZ	Hip geometry by DXA (Neck Section Modulus), age- and sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001772">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001772</a>
Aging	BoneAging	NeckZ1	Hip geometry by DXA (Neck Section Modulus), multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001774">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001774</a>
Aging	BoneAging	NeckZ1rf	Hip geometry (Neck Section Modulus, Women), multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001834">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001834</a>
Aging	BoneAging	NeckZ1rm	Hip geometry (Neck Section Modulus, Men), multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001836">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001836</a>
Aging	BoneAging	NeckZrf	Hip geometry (Neck Section Modulus, Women), age-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001838">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001838</a>
Aging	BoneAging	NeckZrm	Hip geometry (Neck Section Modulus, Men), age-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001840">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001840</a>
Aging	BoneAging	NNAvgBR1rf	Hip geometry (NN BucklingRatio, Women), multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001842">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001842</a>
Aging	BoneAging	NNAvgBR1rm	Hip geometry (NN BucklingRatio, Men), multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001844">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001844</a>
Aging	BoneAging	NNAvgBRrf	Hip geometry (NN BucklingRatio, Women), age-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001846">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001846</a>
Aging	BoneAging	NNAvgBRrm	Hip geometry (NN BucklingRatio, Men), age-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001848">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001848</a>
Aging	BoneAging	NNCSMI1rf	Hip geometry (Neck CSMI, Women), multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001850">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001850</a>
Aging	BoneAging	NNCSMI1rm	Hip geometry (Neck CSMI, Men), multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001852">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001852</a>
Aging	BoneAging	NNCSMIrf	Hip geometry (Neck CSMI, Women), age-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001854">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001854</a>
Aging	BoneAging	NNCSMIrm	Hip geometry (Neck CSMI, Men), age-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001856">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001856</a>
Aging	BoneAging	NSA	Hip geometry by DXA (Neck-Shaft Angle), age- and sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001776">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001776</a>
Aging	BoneAging	NSA1	Hip geometry by DXA (Neck-Shaft Angle), multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001778">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001778</a>
Aging	BoneAging	NSAf	Hip geometry (Neck-Shaft Angle, Women), multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001858">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001858</a>
Aging	BoneAging	NSAm	Hip geometry (Neck-Shaft Angle, Men), multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001860">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001860</a>
Aging	BoneAging	ShaftAvgBR1rf	Hip geometry (Shaft BucklingRatio, Women), multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001862">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001862</a>
Aging	BoneAging	ShaftAvgBR1rm	Hip geometry (Shaft BucklingRatio, Men), multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001864">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001864</a>
Aging	BoneAging	ShaftAvgBRrf	Hip geometry (Shaft BucklingRatio, Women), age-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001866">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001866</a>
Aging	BoneAging	ShaftAvgBRrm	Hip geometry (Shaft BucklingRatio, Men), age-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001868">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001868</a>
Aging	BoneAging	ShaftCSMI1r	Hip geometry (Shaft CSMI), multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001870">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001870</a>
Aging	BoneAging	ShaftCSMI1rf	Hip geometry (Shaft CSMI, Women), multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001872">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001872</a>
Aging	BoneAging	ShaftCSMI1rm	Hip geometry (Shaft CSMI, Men), multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001874">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001874</a>
Aging	BoneAging	ShaftW	Hip geometry by DXA (Shaft Width), age- and sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001876">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001876</a>
Aging	BoneAging	ShaftW1	Hip geometry by DXA (Shaft Width), multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001782">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001782</a>
Aging	BoneAging	ShaftW1f	Hip geometry (Shaft Width, Women), multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001876">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001876</a>
Aging	BoneAging	ShaftW1m	Hip geometry (Shaft Width, Men), multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001878">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001878</a>

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Aging	BoneAging	ShaftWf	Hip geometry (Shaft Width, Women), age-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001880">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001880</a>
Aging	BoneAging	ShaftWm	Hip geometry (Shaft Width, Men), age-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001882">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001882</a>
Aging	BoneAging	ShaftZ1R	Hip geometry (Shaft Section Modulus), multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001884">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001884</a>
Aging	BoneAging	ShaftZ1rf	Hip geometry (Shaft Section Modulus, Women), multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001886">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001886</a>
Aging	BoneAging	ShaftZ1rm	Hip geometry (Shaft Section Modulus, Men), multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001888">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001888</a>
Aging	BoneAging	SOS	Bone Ultrasound speed measured by QUS, multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001784">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001784</a>
Aging	BoneAging	TRBMD	Trochanter BMD measured by DXA, multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001786">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001786</a>
Aging	BoneAging	TRBMDf	Troch Neck BMD measured by DXA (Women), multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001890">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001890</a>
Aging	BoneAging	TRBMDm	Troch Neck BMD measured by DXA (Men), multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001892">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001892</a>
Aging	BrainMRI	AFBV	Frontal lobe to intracranial volume ratio, multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001894">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001894</a>
Aging	BrainMRI	AHPV	Hippocampal to intracranial volume ratio, multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001896">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001896</a>
Aging	BrainMRI	AHPVapoe1	Hippocampal to intracranial volume ratio, multivariable with APOE	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001930">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001930</a>
Aging	BrainMRI	AHPVr	Hippocampal to total cerebral volume ratio, multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001898">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001898</a>
Aging	BrainMRI	AHPVrapoe1	Hippocampal to total cerebral volume ratio, multivariable with APOE	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001932">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001932</a>
Aging	BrainMRI	ALLV	Log lateral ventricular to intracranial volume ratio, multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001900">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001900</a>
Aging	BrainMRI	ALTHBV	Log temporal horn to intracranial volume ratio, multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001902">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001902</a>
Aging	BrainMRI	ALWMHIVapoe1	Log white matter hyperintensity to cranial ratio, multivariable with APOE	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001934">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001934</a>
Aging	BrainMRI	AOBV	Occipital lobe to intracranial volume ratio, multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001904">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001904</a>
Aging	BrainMRI	APBV	Parietal lobe to intracranial volume ratio, multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001906">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001906</a>
Aging	BrainMRI	ATBV	Temporal lobe to intracranial volume ratio, multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001908">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001908</a>
Aging	BrainMRI	ATCBV	Total cerebral brain to intracranial volume ratio, multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001910">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001910</a>
Aging	BrainMRI	ATCBVapoe1	Total cerebral brain to intracranial volume ratio, multivariable with APOE	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001936">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001936</a>
Aging	BrainMRI	CFBV	Frontal lobe to intracranial volume ratio, age and sex adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001912">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001912</a>
Aging	BrainMRI	CHPV	Hippocampal to intracranial volume ratio, age and sex adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001914">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001914</a>
Aging	BrainMRI	CHPVr	Hippocampal to total cerebral volume ratio, age and sex adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001916">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001916</a>
Aging	BrainMRI	CLLV	Log lateral ventricular to intracranial volume ratio, age and sex adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001918">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001918</a>
Aging	BrainMRI	CLTHBV	Log temporal horn to intracranial volume ratio, age and sex adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001920">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001920</a>
Aging	BrainMRI	COBV	Occipital lobe to intracranial volume ratio, age and sex adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001922">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001922</a>
Aging	BrainMRI	CPBV	Parietal lobe to intracranial volume ratio, age and sex adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001924">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001924</a>
Aging	BrainMRI	CTBV	Temporal lobe to intracranial volume ratio, age and sex adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001926">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001926</a>
Aging	BrainMRI	CTCBV	Total cerebral brain to intracranial volume ratio, age and sex adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001928">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001928</a>
Aging	CognitiveFunction	F1	Visual memory composite score, multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001938">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001938</a>
Aging	CognitiveFunction	F2	Visuospatial memory & organization, multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001940">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001940</a>
Aging	CognitiveFunction	F3	Visual scanning & motor speed, multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001942">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001942</a>
Aging	CognitiveFunction	MMSE5MVX	MMSE score, offspring exam 5, multivariable- adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001950">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001950</a>
Aging	CognitiveFunction	MMSE5to7MVX	average MMSE score, offspring exams 5 & 7, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001952">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001952</a>
Aging	CognitiveFunction	MMSE5to7X	average MMSE score, offspring exam 5 & 7, age-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001954">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001954</a>
Aging	CognitiveFunction	MMSE5X	MMSE score, offspring exam 5, age-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001956">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001956</a>
Aging	CognitiveFunction	MMSE65MVX	MMSE score at age 65, offspring & cohort pooled, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001958">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001958</a>
Aging	CognitiveFunction	MMSE65X	MMSE score at age 65, offspring & cohort pooled, birth cohort-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001960">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001960</a>
Aging	CognitiveFunction	MMSE7MV	MMSE score, offspring exam 7, multivariable- adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha002837">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha002837</a>
Aging	CognitiveFunction	MMSE7X	MMSE score, offspring exam 7, age-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001962">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001962</a>
Aging	CognitiveFunction	Nam	Boston Naming Test score without cues, multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001944">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001944</a>
Aging	CognitiveFunction	Sim	Similarities raw score, multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001946">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001946</a>
Aging	CognitiveFunction	WRAT	Wide Range Achievement Test, multivariable adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001948">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001948</a>
Aging	Hearing	SPTA	Pure tone audiometry average over medium frequencies, age and sex adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001964">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001964</a>
Aging	Hearing	SPTAHI	Pure tone audiometry average over high frequencies, age and sex adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001966">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001966</a>
Aging	Hearing	SPTALO	Pure tone audiometry average over low frequencies, age and sex adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001968">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001968</a>
Aging	Morbidity-freesurvival	Morbidityfree65MVX	morbidity-free survival at age 65, offspring & cohort pooled, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001970">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001970</a>
Aging	Morbidity-freesurvival	Morbidityfree65X	morbidity-free survival at age 65, offspring & cohort pooled, birth cohort- adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001972">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001972</a>
Aging	PhysicalDisability	Handgrip727X	hand grip, offspring exam 7 & cohort exam 27	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001978">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001978</a>
Aging	PhysicalDisability	Handgrip7X	hand grip, offspring exam 7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001980">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001980</a>
Aging	PhysicalDisability	Walkingspeed727X	walking speed, offspring exam 7 & cohort exam 27	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001982">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001982</a>
Aging	PhysicalDisability	Walkingspeed7X	walking speed, offspring exam 7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001984">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001984</a>
Aging	ReproductiveTraits	MenoageMVX	age at natural menopause, adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001986">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001986</a>

Online Table 1: Phenotypes Evaluated for Association using Population-based Analysis (GEE)

Group	Category	Trait Label	Name	GEE Link
Aging	ReproductiveTraits	MenoageX	age at natural menopause, crude	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001988">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001988</a>
Aging	Survival	DeathageMV	age at death, offspring & cohort pooled, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001990">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001990</a>
Aging	Survival	DeathageX	age at death, offspring & cohort pooled, adjusted for birth cohort	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001992">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001992</a>
Aging	Survival	DeathpastALEMV	death past average life expectancy, offspring & cohort pooled, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001994">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001994</a>
Aging	Survival	DeathpastALEX	death past average life expectancy, offspring & cohort pooled, birth cohort adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001996">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001996</a>
BloodPressure	Bloodpressure	DBP17AVGIMPAS	diastolic BP average age-sex-adjusted residual exams 1-7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001418">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001418</a>
BloodPressure	Bloodpressure	DBP17AVGIMPMV	diastolic BP average multivariable-adjusted residual exams 1-7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001420">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001420</a>
BloodPressure	Bloodpressure	DBP1IMPMEANAS	diastolic BP exam 1, age- sex- adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001422">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001422</a>
BloodPressure	Bloodpressure	DBP1IMPMEANMV	diastolic BP exam 1, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001424">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001424</a>
BloodPressure	Bloodpressure	DBP2IMPMEANAS	diastolic BP exam 2, age- sex- adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001426">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001426</a>
BloodPressure	Bloodpressure	DBP2IMPMEANMV	diastolic BP exam 2, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001428">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001428</a>
BloodPressure	Bloodpressure	DBP3IMPMEANAS	diastolic BP exam 3, age- sex- adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001430">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001430</a>
BloodPressure	Bloodpressure	DBP3IMPMEANMV	diastolic BP exam 3, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001432">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001432</a>
BloodPressure	Bloodpressure	DBP4IMPMEANAS	diastolic BP exam 4, age- sex- adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001434">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001434</a>
BloodPressure	Bloodpressure	DBP4IMPMEANMV	diastolic BP exam 4, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001436">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001436</a>
BloodPressure	Bloodpressure	DBP5IMPMEANAS	diastolic BP exam 5, age- sex- adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001438">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001438</a>
BloodPressure	Bloodpressure	DBP5IMPMEANMV	diastolic BP exam 5, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001440">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001440</a>
BloodPressure	Bloodpressure	DBP6IMPMEANAS	diastolic BP exam 6, age- sex- adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001442">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001442</a>
BloodPressure	Bloodpressure	DBP6IMPMEANMV	diastolic BP exam 6, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001444">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001444</a>
BloodPressure	Bloodpressure	DBP7IMPMEANAS	diastolic BP exam 7, age- sex- adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001446">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001446</a>
BloodPressure	Bloodpressure	DBP7IMPMEANMV	diastolic BP exam 7, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001448">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001448</a>
BloodPressure	Bloodpressure	PP17AVGIMPAS	pulse pressure average age-sex-adjusted residual exams 1-7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001450">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001450</a>
BloodPressure	Bloodpressure	PP17AVGIMPMV	pulse pressure average multivariable-adjusted residual exams 1-7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001452">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001452</a>
BloodPressure	Bloodpressure	PP1IMPMEANAS	pulse pressure exam 1, age- sex- adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001454">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001454</a>
BloodPressure	Bloodpressure	PP1IMPMEANMV	pulse pressure exam 1, multivariable- adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001456">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001456</a>
BloodPressure	Bloodpressure	PP2IMPMEANAS	pulse pressure exam 2, age- sex- adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001458">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001458</a>
BloodPressure	Bloodpressure	PP2IMPMEANMV	pulse pressure exam 2, multivariable- adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001460">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001460</a>
BloodPressure	Bloodpressure	PP3IMPMEANAS	pulse pressure exam 3, age- sex- adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001462">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001462</a>
BloodPressure	Bloodpressure	PP3IMPMEANMV	pulse pressure exam 3, multivariable- adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001464">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001464</a>
BloodPressure	Bloodpressure	PP4IMPMEANAS	pulse pressure exam 4, age- sex- adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001466">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001466</a>
BloodPressure	Bloodpressure	PP4IMPMEANMV	pulse pressure exam 4, multivariable- adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001468">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001468</a>
BloodPressure	Bloodpressure	PP5IMPMEANAS	pulse pressure exam 5, age- sex- adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001470">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001470</a>
BloodPressure	Bloodpressure	PP5IMPMEANMV	pulse pressure exam 5, multivariable- adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001472">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001472</a>
BloodPressure	Bloodpressure	PP6IMPMEANAS	pulse pressure exam 6, age- sex- adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001474">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001474</a>
BloodPressure	Bloodpressure	PP6IMPMEANMV	pulse pressure exam 6, multivariable- adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001476">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001476</a>
BloodPressure	Bloodpressure	PP7IMPMEANAS	pulse pressure exam 7, age- sex- adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001478">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001478</a>
BloodPressure	Bloodpressure	PP7IMPMEANMV	pulse pressure exam 7, multivariable- adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001480">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001480</a>
BloodPressure	Bloodpressure	SBP17AVGIMPAS	systolic BP average age-sex-adjusted residual exams 1-7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001482">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001482</a>
BloodPressure	Bloodpressure	SBP17AVGIMPMV	systolic BP average multivariable-adjusted residual exams 1-7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001484">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001484</a>
BloodPressure	Bloodpressure	SBP1IMPMEANAS	systolic BP exam 1, age- sex- adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001486">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001486</a>
BloodPressure	Bloodpressure	SBP1IMPMEANMV	systolic BP exam 1, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001488">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001488</a>
BloodPressure	Bloodpressure	SBP2IMPMEANAS	systolic BP exam 2, age- sex- adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001490">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001490</a>
BloodPressure	Bloodpressure	SBP2IMPMEANMV	systolic BP exam 2, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001492">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001492</a>
BloodPressure	Bloodpressure	SBP3IMPMEANAS	systolic BP exam 3, age- sex- adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001494">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001494</a>
BloodPressure	Bloodpressure	SBP3IMPMEANMV	systolic BP exam 3, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001496">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001496</a>
BloodPressure	Bloodpressure	SBP4IMPMEANAS	systolic BP exam 4, age- sex- adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001498">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001498</a>
BloodPressure	Bloodpressure	SBP4IMPMEANMV	systolic BP exam 4, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001500">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001500</a>
BloodPressure	Bloodpressure	SBP5IMPMEANAS	systolic BP exam 5, age- sex- adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001502">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001502</a>
BloodPressure	Bloodpressure	SBP5IMPMEANMV	systolic BP exam 5, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001504">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001504</a>
BloodPressure	Bloodpressure	SBP6IMPMEANAS	systolic BP exam 6, age- sex- adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001506">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001506</a>
BloodPressure	Bloodpressure	SBP6IMPMEANMV	systolic BP exam 6, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001508">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001508</a>
BloodPressure	Bloodpressure	SBP7IMPMEANAS	systolic BP exam 7, age- sex- adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001510">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001510</a>
BloodPressure	Bloodpressure	SBP7IMPMEANMV	systolic BP exam 7, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001512">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001512</a>
BloodPressure	echocardiography	AOR26AVGAS	M-mode Echo aortic root diastolic diameter, avg age-sex resid, exams 2,4,5,6	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001514">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001514</a>
BloodPressure	echocardiography	AOR26AVGMV	M-mode Echo aortic root diastolic diameter, avg multivar resid, exams 2,4,5,6	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001516">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001516</a>



Online Table 1: Phenotypes Evaluated for Association using Population-based Analysis (GEE)

Group	Category	Trait Label	Name	GEE Link
BloodPressure	echocardiography	LVM5MV	M-mode Echo LV mass, exam 5, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001628">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001628</a>
BloodPressure	echocardiography	LVM6AS	M-mode Echo LV mass, exam 6, age-sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001630">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001630</a>
BloodPressure	echocardiography	LVM6MV	M-mode Echo LV mass, exam 6, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001632">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001632</a>
BloodPressure	echocardiography	LVWT26AVGAS	M-mode Echo LV diastolic wall thickness, avg age-sex resid, exams 2,4,5,6	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001634">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001634</a>
BloodPressure	echocardiography	LVWT26AVGMV	M-mode Echo LV diastolic wall thickness, avg multivar resid, exams 2,4,5,6	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001636">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001636</a>
BloodPressure	echocardiography	LVWT2AS	M-mode Echo LV diastolic wall thickness, exam 2, age-sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001638">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001638</a>
BloodPressure	echocardiography	LVWT2MV	M-mode Echo LV diastolic wall thickness, exam 2, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001640">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001640</a>
BloodPressure	echocardiography	LVWT4AS	M-mode Echo LV diastolic wall thickness, exam 4, age-sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001642">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001642</a>
BloodPressure	echocardiography	LVWT4MV	M-mode Echo LV diastolic wall thickness, exam 4, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001644">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001644</a>
BloodPressure	echocardiography	LVWT5AS	M-mode Echo LV diastolic wall thickness, exam 5, age-sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001646">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001646</a>
BloodPressure	echocardiography	LVWT5MV	M-mode Echo LV diastolic wall thickness, exam 5, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001648">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001648</a>
BloodPressure	echocardiography	LVWT6AS	M-mode Echo LV diastolic wall thickness, exam 6, age-sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001650">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001650</a>
BloodPressure	echocardiography	LVWT6MV	M-mode Echo LV diastolic wall thickness, exam 6, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001652">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001652</a>
BloodPressure	Endothelialfunction	BASEFLOW7AS	Brachial artery Baseline flow velocity, exam 7, age-sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001654">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001654</a>
BloodPressure	Endothelialfunction	BASEFLOW7MV	Brachial artery Baseline flow velocity, exam 7, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001656">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001656</a>
BloodPressure	Endothelialfunction	BASELINEDIAMETERAS7	baseline brachial artery diameter, exam 7, age and sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001658">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001658</a>
BloodPressure	Endothelialfunction	BASELINEDIAMETERMV7	baseline brachial artery diameter, exam 7, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001660">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001660</a>
BloodPressure	Endothelialfunction	FMD7PCTAS	Brachial artery Flow mediated dilation, exam 7, age-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001662">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001662</a>
BloodPressure	Endothelialfunction	FMD7PCTMV	Brachial artery Flow mediated dilation, exam 7, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001664">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001664</a>
BloodPressure	Endothelialfunction	HYPERFLOW7AS	Brachial artery hyperemic flow velocity, exam 7, age-sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001666">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001666</a>
BloodPressure	Endothelialfunction	HYPERFLOW7MV	Brachial artery hyperemic flow velocity, exam 7, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001668">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001668</a>
BloodPressure	ExerciseTest	ETT2DBPREC3AS	Exercise recovery 3-min diastolic BP, exam 2, age-sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001670">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001670</a>
BloodPressure	ExerciseTest	ETT2DBPREC3MV	Exercise recovery 3-min diastolic BP, exam 2, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001672">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001672</a>
BloodPressure	ExerciseTest	ETT2DBPSTG2AS	Exercise Stage 2 diastolic BP, exam 2, age-sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001674">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001674</a>
BloodPressure	ExerciseTest	ETT2DBPSTG2MV	Exercise Stage 2 diastolic BP, exam 2, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001676">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001676</a>
BloodPressure	ExerciseTest	ETT2HRREC3AS	Exercise recovery 3-min heart rate, exam 2, age-sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001678">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001678</a>
BloodPressure	ExerciseTest	ETT2HRREC3MV	Exercise recovery 3-min heart rate, exam 2, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001680">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001680</a>
BloodPressure	ExerciseTest	ETT2HRSTG2AS	Exercise Stage 2 heart rate, exam 2, age-sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001682">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001682</a>
BloodPressure	ExerciseTest	ETT2HRSTG2MV	Exercise Stage 2 heart rate, exam 2, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001684">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001684</a>
BloodPressure	ExerciseTest	ETT2SBPREC3AS	Exercise recovery 3-min systolic BP, exam 2, age-sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001686">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001686</a>
BloodPressure	ExerciseTest	ETT2SBPREC3MV	Exercise recovery 3-min systolic BP, exam 2, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001688">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001688</a>
BloodPressure	ExerciseTest	ETT2SBPSTG2AS	Exercise Stage 2 systolic BP, exam 2, age-sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001690">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001690</a>
BloodPressure	ExerciseTest	ETT2SBPSTG2MV	Exercise Stage 2 systolic BP, exam 2, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001692">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001692</a>
BloodPressure	tonometry	AI7AS	augmentation index, exam 7, age-sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001694">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001694</a>
BloodPressure	tonometry	AI7MV	augmentation index, exam 7, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001696">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001696</a>
BloodPressure	tonometry	CBPWV7AS	carotid-brachial pulse wave velocity, exam 7, age-sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001698">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001698</a>
BloodPressure	tonometry	CBPWV7MV	carotid-brachial pulse wave velocity, exam 7, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001700">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001700</a>
BloodPressure	tonometry	CFPWV7AS	carotid-femoral pulse wave velocity, exam 7, age-sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001702">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001702</a>
BloodPressure	tonometry	CFPWV7MV	carotid-femoral pulse wave velocity, exam 7, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001704">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001704</a>
BloodPressure	tonometry	CPP7AS	central pulse pressure, exam 7, age-sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001706">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001706</a>
BloodPressure	tonometry	CPP7MV	central pulse pressure, exam 7, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001708">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001708</a>
BloodPressure	tonometry	CRPWV7AS	carotid-radial pulse wave velocity, exam 7, age-sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001710">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001710</a>
BloodPressure	tonometry	CRPWV7MV	carotid-radial pulse wave velocity, exam 7, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001712">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001712</a>
BloodPressure	tonometry	DBP7BRAOSCAS	Diastolic BP Brachial oscillometric, exam 7, age-sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001714">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001714</a>
BloodPressure	tonometry	DBP7BRAOSCMV	Diastolic BP Brachial oscillometric, exam 7, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001716">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001716</a>
BloodPressure	tonometry	FWDWAVE7AS	forward wave amplitude, exam 7, age-sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001718">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001718</a>
BloodPressure	tonometry	FWDWAVE7MV	forward wave amplitude, exam 7, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001720">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001720</a>
BloodPressure	tonometry	INVCFPWV7AS	LV ejection time, exam 7, age-sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001722">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001722</a>
BloodPressure	tonometry	INVCFPWV7MV	LV ejection time, exam 7, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001724">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001724</a>
BloodPressure	tonometry	MAP7AS	mean arterial pressure, exam 7, age-sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001726">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001726</a>
BloodPressure	tonometry	MAP7MV	mean arterial pressure, exam 7, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001728">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001728</a>
BloodPressure	tonometry	PERAMPAP7AS	Peripheral amplification apparent, exam 7, age-sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001730">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001730</a>
BloodPressure	tonometry	PERAMPAP7MV	Peripheral amplification apparent, exam 7, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001732">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001732</a>
BloodPressure	tonometry	PERAMPTRU7AS	Peripheral amplification true, exam 7, age-sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001734">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001734</a>
BloodPressure	tonometry	PERAMPTRU7MV	Peripheral amplification true, exam 7, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001736">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001736</a>

Online Table 1: Phenotypes Evaluated for Association using Population-based Analysis (GEE)

Group	Category	Trait Label	Name	GEE Link
BloodPressure	tonometry	PP7BRAOSCAS	Pulse pressure Brachial oscillometric, exam 7, age-sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001738">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001738</a>
BloodPressure	tonometry	PP7BRAOSCMV	Pulse pressure Brachial oscillometric, exam 7, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001740">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001740</a>
BloodPressure	tonometry	REFWAVE7AS	reflected wave amplitude, exam 7, age-sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001742">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001742</a>
BloodPressure	tonometry	REFWAVE7MV	reflected wave amplitude, exam 7, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001744">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001744</a>
BloodPressure	tonometry	RWTT7AS	reflected wave transit time, exam 7, age-sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001746">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001746</a>
BloodPressure	tonometry	RWTT7MV	reflected wave transit time, exam 7, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001748">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001748</a>
BloodPressure	tonometry	SBP7BRAOSCAS	Systolic BP Brachial oscillometric, exam 7, age-sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001750">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001750</a>
BloodPressure	tonometry	SBP7BRAOSCMV	Systolic BP Brachial oscillometric, exam 7, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001752">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001752</a>
CVDMiscTraits	Cancer	ALLCANCER1	all cancer, adjusted for age & sex	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001332">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001332</a>
CVDMiscTraits	Cancer	ALLCANCER2	all cancer, fully adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001334">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001334</a>
CVDMiscTraits	Cancer	BREASTCANCER1	breast cancer (women only), age-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001336">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001336</a>
CVDMiscTraits	Cancer	BREASTCANCER2	breast cancer (women only), adjusted for age, parity, BMI at entry	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001338">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001338</a>
CVDMiscTraits	Cancer	PROSTATECANCER1	prostate cancer, adjusted for age at entry	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001340">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001340</a>
CVDMiscTraits	CVDbySOE	AllatheroCVD1D	Age- & sex- adjusted incident CHD, ABI, TIA, or IC	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001342">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001342</a>
CVDMiscTraits	CVDbySOE	AllatheroCVD2D	multivariable-adjusted incident CHD, ABI, TIA, or IC	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001344">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001344</a>
CVDMiscTraits	CVDbySOE	AllCHD1D	Age- & sex-adjusted incident MI, AP, CI, or CHD death	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001346">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001346</a>
CVDMiscTraits	CVDbySOE	AllCHD2D	multivariable-adjusted incident MI, AP, CI, or CHD death	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001348">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001348</a>
CVDMiscTraits	CVDbySOE	AllCHF1D	Age- & sex-adjusted incident heart failure (free of MI)	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001350">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001350</a>
CVDMiscTraits	CVDbySOE	AllCHF2D	multivariable-adjusted incident heart failure (free of MI)	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001352">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001352</a>
CVDMiscTraits	CVDbySOE	HardatheroCVD1D	Age- & sex-adjusted incident MI, CI, CHD death, or ABI	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001358">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001358</a>
CVDMiscTraits	CVDbySOE	HardatheroCVD2D	multivariable-adjusted incident MI, CI, CHD death, or ABI	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001360">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001360</a>
CVDMiscTraits	CVDbySOE	HardCHD1D	Age- & sex-adjusted incident MI, CI, or CHD death	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001362">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001362</a>
CVDMiscTraits	CVDbySOE	HardCHD2D	multivariable-adjusted incident MI, CI, or CHD death	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001364">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001364</a>
CVDMiscTraits	CVDbySOE	NoMICHF1D	Age- & sex-adjusted incident heart failure, censored at interval MI	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001366">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001366</a>
CVDMiscTraits	CVDbySOE	NoMICHF2D	multivariable-adjusted incident heart failure, censored at interval MI	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001368">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001368</a>
CVDMiscTraits	ECGtraits	PRAdjRRPOOL	Age & RR adjusted PR interval cohort ex 11 offspring ex 1	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001370">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001370</a>
CVDMiscTraits	ECGtraits	QTmen	Age & RR adjusted QT interval men cohort ex 11 offspring ex 1	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001372">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001372</a>
CVDMiscTraits	ECGtraits	QTPOOL	Age & RR adjusted QT interval men & women cohort ex 11 offspring ex 1	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001374">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001374</a>
CVDMiscTraits	ECGtraits	QTWOMEN	Age & RR adjusted QT interval women cohort ex 11 offspring ex 1	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001376">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001376</a>
CVDMiscTraits	ECGtraits	RRmen	Age adjusted RR interval men cohort ex 11 offspring ex 1	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001378">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001378</a>
CVDMiscTraits	ECGtraits	RRPOOL	Age adjusted RR interval men & women cohort ex 11 offspring ex 1	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001380">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001380</a>
CVDMiscTraits	ECGtraits	RRWOMEN	Age adjusted RR interval women cohort ex 11 offspring ex 1	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001382">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001382</a>
CVDMiscTraits	HRVtraits	HFHRV	Age & HR adjusted high freq power HRV exams 18 (cohort), 3 (offspring)	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001384">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001384</a>
CVDMiscTraits	HRVtraits	LFHFHRV	Age & HR adjusted low:high freq power HRV exams 18 (cohort), 3 (offspring)	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001386">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001386</a>
CVDMiscTraits	HRVtraits	LFHRV	Age & HR adjusted low frequency power HRV exams 18 (cohort), 3 (offspring)	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001388">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001388</a>
CVDMiscTraits	HRVtraits	PNN50HRV	Age & HR adjusted PNN50 HRV exams 18 (cohort), 3 (offspring)	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001390">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001390</a>
CVDMiscTraits	HRVtraits	SDNNHRV	Age & HR adjusted SDNN HRV exams 18 (cohort), 3 (offspring)	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001392">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001392</a>
CVDMiscTraits	HRVtraits	TOTPWHRV	Age & HR adjusted total power HRV exams 18 (cohort), 3 (offspring)	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001394">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001394</a>
CVDMiscTraits	HRVtraits	VLFHRV	Age & HR adjusted very low freq power HRV exams 18 (cohort), 3 (offspring)	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001396">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001396</a>
CVDMiscTraits	Otherclinicaltraits	ALCOHOL1	Age- & sex-adjusted drinks/day ex 1	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001398">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001398</a>
CVDMiscTraits	Otherclinicaltraits	ALCOHOL2	Age- & sex-adjusted drinks/day across all exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001400">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001400</a>
CVDMiscTraits	Otherclinicaltraits	ALCOHOL3	Age- & sex-adjusted max drinks/day at any exam	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001402">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001402</a>
CVDMiscTraits	Otherclinicaltraits	GALLBLADDER	Age- & sex-adjusted gallbladder disease	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001404">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001404</a>
CVDMiscTraits	Otherclinicaltraits	GOUT	Age-, sex- & BMI-adjusted gout	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001406">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001406</a>
CVDMiscTraits	Othervasctraits	ALLAF1	Age- & sex-adjusted incident atrial fibrillation	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001408">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001408</a>
CVDMiscTraits	Othervasctraits	ALLAF2	multivariable-adjusted incident atrial fibrillation	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001410">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001410</a>
CVDMiscTraits	Othervasctraits	VARICOSEVEINS	age- & sex-adjusted varicose veins, men and women	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001412">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001412</a>
CVDMiscTraits	Othervasctraits	VARICOSEVEINSF	age- & #childbirths-adjusted varicose veins in women	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001414">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001414</a>
CVDMiscTraits	Othervasctraits	VARICOSEVEINSM	age-adjusted varicose veins in men	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001416">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001416</a>
ITBiomarkers	Hematological	Hctavg12as	Hematocrit, averaged residuals of exam 1 & 2, age & sex	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000980">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000980</a>
ITBiomarkers	Hematological	Hctavg12mv	Hematocrit, averaged residuals of exam 1 & 2, multivariable	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000982">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000982</a>
ITBiomarkers	Hematological	Hctex1as	Hematocrit exam 1 age & sex	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000984">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000984</a>
ITBiomarkers	Hematological	Hctex1mv	Hematocrit exam 1 multivariable	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000986">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000986</a>
ITBiomarkers	Hematological	Hctex2as	Hematocrit exam 2 age & sex	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000988">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000988</a>
ITBiomarkers	Hematological	Hctex2mv	Hematocrit exam 2 multivariable	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000990">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000990</a>

Online Table 1: Phenotypes Evaluated for Association using Population-based Analysis (GEE)

Group	Category	Trait Label	Name	GEE Link
ITBiomarkers	Hematological	Hgbav12as	Hemoglobin, averaged residuals of exam 1 & 2, age & sex	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000992">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000992</a>
ITBiomarkers	Hematological	Hgbav12mv	Hemoglobin averaged residuals of exam 1 & 2, multivariable	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000994">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000994</a>
ITBiomarkers	Hematological	Hgbex1as	Hemoglobin exam 1 age & sex	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000996">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000996</a>
ITBiomarkers	Hematological	Hgbex1mv	Hemoglobin exam 1 multivariable	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000998">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000998</a>
ITBiomarkers	Hematological	Hgbex2as	Hemoglobin exam 2 age & sex	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001000">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001000</a>
ITBiomarkers	Hematological	Hgbex2mv	Hemoglobin exam 2 multivariable	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001002">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001002</a>
ITBiomarkers	Hematological	MCHCavg12as	Mean corpuscular hemoglobin concentration avg. residuals exam 1&2 age & sex	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001004">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001004</a>
ITBiomarkers	Hematological	MCHCavg12mv	Mean corpuscular hemoglobin concentration avg. residuals of exam 1&2 MV	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001006">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001006</a>
ITBiomarkers	Hematological	MCHCex1as	Mean corpuscular hemoglobin concentration exam 1 age & sex	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001008">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001008</a>
ITBiomarkers	Hematological	MCHCex1mv	Mean corpuscular hemoglobin concentration exam 1 multivariable	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001010">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001010</a>
ITBiomarkers	Hematological	MCHCex2as	Mean corpuscular hemoglobin concentration exam 2 age & sex	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001012">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001012</a>
ITBiomarkers	Hematological	MCHCex2mv	Mean corpuscular hemoglobin concentration exam 2 multivariable	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001014">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001014</a>
ITBiomarkers	Hematological	MCVavg12as	Mean corpuscular volume averaged residuals of exam 1 & 2, age & sex	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001016">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001016</a>
ITBiomarkers	Hematological	MCVavg12mv	Mean corpuscular volume averaged residuals of exam 1 and 2, multivariable	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001018">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001018</a>
ITBiomarkers	Hematological	MCVex1as	Mean corpuscular volume exam 1 age & sex	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001020">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001020</a>
ITBiomarkers	Hematological	MCVex1mv	Mean corpuscular volume multivariable	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001022">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001022</a>
ITBiomarkers	Hematological	MCVex2as	Mean corpuscular volume exam 2 age & sex	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001024">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001024</a>
ITBiomarkers	Hematological	MCVex2mv	Mean corpuscular volume multivariable exam 2	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001026">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001026</a>
ITBiomarkers	Hematological	RBCcavg12as	Red blood cell count averaged residuals of exam 1 & 2, age & sex	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001028">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001028</a>
ITBiomarkers	Hematological	RBCcavg12mv	Red blood cell count averaged residuals exam 1 & 2, multivariable	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001030">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001030</a>
ITBiomarkers	Hematological	RBCcex1as	Red blood cell count exam 1 age & sex	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001032">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001032</a>
ITBiomarkers	Hematological	RBCcex1mv	Red blood cell count exam 1 multivariable	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001034">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001034</a>
ITBiomarkers	Hematological	RBCcex2as	Red blood cell count exam 2 age & sex	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001036">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001036</a>
ITBiomarkers	Hematological	RBCcex2asWIN	Red blood cell count exam 2 age & sex, Winsorized	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001038">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001038</a>
ITBiomarkers	Hematological	RBCcex2mv	Red blood cell count exam 2 multivariable	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001040">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001040</a>
ITBiomarkers	Hematological	RBCcex2mvWIN	Red blood cell count exam 2 multivariable, Winsorized	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001042">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001042</a>
ITBiomarkers	Hematological	WBCavg12as	White blood cell count averaged residuals of exam 1 & 2, age & sex	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001044">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001044</a>
ITBiomarkers	Hematological	WBCavg12mv	White blood cell count, averaged residuals of exam 1 & 2, multivariable	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001046">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001046</a>
ITBiomarkers	Hematological	WBCex1as	White blood cell count exam 1 age & sex, log transformed	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001048">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001048</a>
ITBiomarkers	Hematological	WBCex1mv	White blood cell count exam 1 multivariable, log transformed	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001050">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001050</a>
ITBiomarkers	Hematological	WBCex2as	White blood cell count exam 2 age & sex	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001052">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001052</a>
ITBiomarkers	Hematological	WBCex2mv	White blood cell count exam 2 multivariable	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001054">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001054</a>
ITBiomarkers	Hemostatic	dDimerex5as	D dimer at exam 6 age & sex, log transformed	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001056">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001056</a>
ITBiomarkers	Hemostatic	dDimerex5mv	D dimer at exam 6 multivariable, log transformed	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001058">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001058</a>
ITBiomarkers	Hemostatic	FibrinogenAvg567as	Fibrinogen averaged residuals of exam 5, 6 & 7 age & sex, log transformed	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001060">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001060</a>
ITBiomarkers	Hemostatic	FibrinogenAvg567mv	Fibrinogen averaged residuals exam 5, 6 & 7 multivariable, log transformed	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001062">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001062</a>
ITBiomarkers	Hemostatic	Fibrinogenex5as	Fibrinogen at exam 5 age & sex, log transformed	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001064">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001064</a>
ITBiomarkers	Hemostatic	Fibrinogenex5mv	Fibrinogen at exam 5 multivariable, log transformed	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001066">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001066</a>
ITBiomarkers	Hemostatic	Fibrinogenex6as	Fibrinogen at exam 6 age & sex, log transformed	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001068">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001068</a>
ITBiomarkers	Hemostatic	Fibrinogenex6mv	Fibrinogen at exam 6 multivariable, log transformed	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001070">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001070</a>
ITBiomarkers	Hemostatic	Fibrinogenex7as	Fibrinogen at exam 7 age & sex, log transformed	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001072">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001072</a>
ITBiomarkers	Hemostatic	Fibrinogenex7mv	Fibrinogen at exam 7 multivariable, log transformed	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001074">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001074</a>
ITBiomarkers	Hemostatic	FVIIlex5as	Factor VII at exam 5 age & sex	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001076">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001076</a>
ITBiomarkers	Hemostatic	FVIIlex5mv	Factor VII at exam 5 multivariable	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001078">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001078</a>
ITBiomarkers	Hemostatic	PAI1ex56Avgas	Log plasminogen Activator 1 avg. residuals exam 5& 6 age & sex	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001080">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001080</a>
ITBiomarkers	Hemostatic	PAI1ex56Avgmv	Log plasminogen Activator 1 avg. residuals exam 5 & 6 multivariable	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001082">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001082</a>
ITBiomarkers	Hemostatic	PAI1ex5as	Plasminogen Activator 1 at exam 5 age & sex, log transformed	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001084">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001084</a>
ITBiomarkers	Hemostatic	PAI1ex5mv	Plasminogen Activator 1 at exam 5 multivariable, log transformed	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001086">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001086</a>
ITBiomarkers	Hemostatic	PAI1ex6as	Plasminogen Activator 1 at exam 6 age & sex, log transformed	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001088">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001088</a>
ITBiomarkers	Hemostatic	PAI1ex6mv	Plasminogen Activator 1 at exam 6 multivariable, log transformed	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001090">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001090</a>
ITBiomarkers	Hemostatic	PlateletAgADPex5as	Platelet Aggregation to ADP exam 5, age & sex, log transformed	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001092">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001092</a>
ITBiomarkers	Hemostatic	PlateletAgADPex5mv	Log ADP platelet aggregation, exam 5, multivariable	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001094">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001094</a>
ITBiomarkers	Hemostatic	PlateletAgCollex5as	Platelet Aggregation to collagen, exam 5, age & sex, log transformed	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001096">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001096</a>
ITBiomarkers	Hemostatic	PlateletAgCollex5mv	Platelet Aggregation to collagen, exam 5, multivariable, log transformed	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001098">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001098</a>
ITBiomarkers	Hemostatic	PlateletAgEpiex5as	Platelet Aggregation to Epinephrine at exam 5 age & sex, log transformed	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001100">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001100</a>

Online Table 1: Phenotypes Evaluated for Association using Population-based Analysis (GEE)

Group	Category	Trait Label	Name	GEE Link
ITBiomarkers	Hemostatic	PlateletAgEpiex5mv	Platelet Aggregation to Epinephrine exam 5 multivariable, log transformed	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001102">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001102</a>
ITBiomarkers	Hemostatic	tPAex5as	tPA Antigen at exam 5 age & sex, log transformed	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001104">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001104</a>
ITBiomarkers	Hemostatic	tPAex5mv	tPA Antigen at exam 5 multivariable, log transformed	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001106">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001106</a>
ITBiomarkers	Hemostatic	Viscosityex5as	Viscosity I at exam 5 age & sex	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001108">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001108</a>
ITBiomarkers	Hemostatic	Viscosityex5mv	Viscosity I at exam 5 multivariable	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001110">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001110</a>
ITBiomarkers	Hemostatic	wVWex5as	von Willebrand Factor at exam 5 age & sex	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001112">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001112</a>
ITBiomarkers	Hemostatic	wVWex5mv	von Willebrand Factor at exam 5 multivariable	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001114">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001114</a>
ITBiomarkers	Inflammation	CD40Lplasmaex7as	CD40Ligand plasma exam 7, age- & sex-adjusted, log transformed	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001116">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001116</a>
ITBiomarkers	Inflammation	CD40Lplasmaex7mv	CD40Ligand plasma exam 7 multivariable-adjusted, log transformed	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001118">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001118</a>
ITBiomarkers	Inflammation	CD40Lserumex7as	CD40Ligand serum exam 7, age- & sex-adjusted, log transformed	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001120">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001120</a>
ITBiomarkers	Inflammation	CD40Lserumex7mv	CD40Ligand serum, exam 7 multivariable-adjusted, log transformed	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001122">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001122</a>
ITBiomarkers	Inflammation	CRPavg267asB	Log C-reactive protein average exam 2, 6 & 7 age- & sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001172">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001172</a>
ITBiomarkers	Inflammation	CRPavg267mvB	Log C-reactive protein average exam 2, 6 & 7, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001174">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001174</a>
ITBiomarkers	Inflammation	CRPex2asB	Log C-reactive protein exam 2, age- & sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001176">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001176</a>
ITBiomarkers	Inflammation	CRPex2mvB	Log C-reactive protein exam 2, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001178">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001178</a>
ITBiomarkers	Inflammation	CRPex5as	Log C-reactive protein Hemagen Assay exam 5, age- & sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001124">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001124</a>
ITBiomarkers	Inflammation	CRPex5mv	Log C-reactive protein Hemagen Assay exam 5, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001126">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001126</a>
ITBiomarkers	Inflammation	CRPex6as	Log C-reactive protein exam 6, age- & sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001128">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001128</a>
ITBiomarkers	Inflammation	CRPex6mv	Log C-reactive protein exam 6, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001130">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001130</a>
ITBiomarkers	Inflammation	CRPex7as	Log C-reactive protein exam 7, age- & sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001132">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001132</a>
ITBiomarkers	Inflammation	CRPex7mv	Log C-reactive protein exam 7, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001134">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001134</a>
ITBiomarkers	Inflammation	ICAM1ex7as	Log intercellular adhesion molecule-1 exam 7, age- & sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001136">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001136</a>
ITBiomarkers	Inflammation	ICAM1ex7mv	Log intercellular adhesion molecule-1 exam 7, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001138">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001138</a>
ITBiomarkers	Inflammation	IL6ex7as	Log interleukin 6 Exam 7, age- & sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001140">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001140</a>
ITBiomarkers	Inflammation	IL6ex7mv	Log interleukin 6 Exam 7, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001142">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001142</a>
ITBiomarkers	Inflammation	IsoCrUrinePex7as	Log urinary isoprostanes/creatinine exam 7, age- & sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001144">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001144</a>
ITBiomarkers	Inflammation	IsoCrUrinePex7mv	Log urinary isoprostanes/creatinine exam 7, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001146">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001146</a>
ITBiomarkers	Inflammation	MCP1ex7as	Log monocyte chemoattractant protein 1 exam 7, age- & sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001148">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001148</a>
ITBiomarkers	Inflammation	MCP1ex7mv	Log monocyte chemoattractant protein 1 exam 7, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001150">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001150</a>
ITBiomarkers	Inflammation	MPOex7as	Log myeloperoxidase exam 7, age- & sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001152">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001152</a>
ITBiomarkers	Inflammation	MPOex7mv	Log myeloperoxidase exam 7, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001154">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001154</a>
ITBiomarkers	Inflammation	OPGex7as	Log osteoprotegerin exam 7, age- & sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001156">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001156</a>
ITBiomarkers	Inflammation	OPGex7mv	Log osteoprotegerin exam 7, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001158">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001158</a>
ITBiomarkers	Inflammation	Pselectinex7as	Log P-selectin exam 7, age- & sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001160">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001160</a>
ITBiomarkers	Inflammation	Pselectinex7mv	Log P-selectin exam 7, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001162">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001162</a>
ITBiomarkers	Inflammation	TNFAex7as	Log tumor necrosis factor alpha exam 7, age- & sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001164">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001164</a>
ITBiomarkers	Inflammation	TNFAex7mv	Log tumor necrosis factor alpha exam 7, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001166">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001166</a>
ITBiomarkers	Inflammation	TNFR1lex7as	Log tumor necrosis factor receptor I exam 7, age- & sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001168">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001168</a>
ITBiomarkers	Inflammation	TNFR1lex7mv	Log tumor necrosis factor receptor I exam 7 multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001170">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001170</a>
ITBiomarkers	LFT	AlkPhosex2as	Log alkaline phosphatase exam 2 age- & sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001180">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001180</a>
ITBiomarkers	LFT	AlkPhosex2mv	Log alkaline phosphatase exam 2, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001182">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001182</a>
ITBiomarkers	LFT	ALTex2as	Log alanine transaminase exam 2, age- & sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001184">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001184</a>
ITBiomarkers	LFT	ALTex2mv	Log alanine transaminase exam 2; multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001186">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001186</a>
ITBiomarkers	LFT	ASTex2as	Log aspartate aminotransferase exam, age- & sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001188">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001188</a>
ITBiomarkers	LFT	ASTex2mv	Log aspartate aminotransferase exam 2 multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001190">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001190</a>
ITBiomarkers	LFT	Bilirubinex2as	Log bilirubin exam 2, age- & sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001192">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001192</a>
ITBiomarkers	LFT	Bilirubinex2mv	Log bilirubin exam 2 multivariable	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001194">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001194</a>
ITBiomarkers	LFT	GGTEx2as	Log gamma-glutamyl transferase exam 2, age- & sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001196">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001196</a>
ITBiomarkers	LFT	GGTEx2mv	Log Gamma-glutamyl transferase exam 2, Multivariable,adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001198">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001198</a>
ITBiomarkers	Neurohumoral	ANPex6as	Log atrial natriuretic peptide exam 6, age- & sex-adjusted Tobit-model	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001200">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001200</a>
ITBiomarkers	Neurohumoral	ANPex6mv	Log atrial natriuretic peptide exam 6, multivariable-adjusted Tobit model	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001202">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001202</a>
ITBiomarkers	Neurohumoral	BNPex6as	Log brain natriuretic peptide exam 6, age- & sex-adjusted Tobit model	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001204">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001204</a>
ITBiomarkers	Neurohumoral	BNPex6mv	Log brain natriuretic peptide exam 6, multivariable-adjusted Tobit model	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001206">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001206</a>
ITBiomarkers	Vitamins	VitD25OHex6or7as	25(OH)-D exam 6 or 7, age & sex adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001208">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001208</a>
ITBiomarkers	Vitamins	VitD25OHex6or7mv	25(OH)-D exam 6 or 7, multivariable-adjusted; covariates from vit D exam	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001210">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001210</a>



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Group	Category	Trait Label	Name	GEE Link
ITBiomarkers	Vitamins	VitKPhylloqex6or7as	Vit K exam 6 or 7, age & sex adjusted, log transformed, no warfarin	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001212">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001212</a>
ITBiomarkers	Vitamins	VitKPhylloqex6or7mv	Vit K exam 6 or 7, multivariable-adjusted, log transformed, no warfarin	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001214">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001214</a>
ITBiomarkers	Vitamins	VitKPucOCex6or7as	%ucOC, exam 6 or 7, age, sex adjust, log transformed; no warfarin	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001216">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001216</a>
ITBiomarkers	Vitamins	VitKPucOCex6or7mv	%ucOC, exam 6 or 7, multivariable, log-transformed, no warfarin use	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001218">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001218</a>
Metabolic	Adiposity	allbmi1602	adj bmi, offsp 2 & cohort 16 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000102">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000102</a>
Metabolic	Adiposity	allbmi1803	adj bmi, offsp 3 & cohort 18 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000104">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000104</a>
Metabolic	Adiposity	allbmi1x01	adj bmi, offsp 1 & cohort 10 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000106">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000106</a>
Metabolic	Adiposity	allbmi2004	adj bmi, offsp 4 & cohort 20 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000108">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000108</a>
Metabolic	Adiposity	allbmi2205	adj bmi, offsp 5 & cohort 22 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000110">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000110</a>
Metabolic	Adiposity	allbmi2406	adj bmi, offsp 6 & cohort 24 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000112">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000112</a>
Metabolic	Adiposity	allbmi2607	adj bmi, offsp 7 & cohort 26 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000114">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000114</a>
Metabolic	Adiposity	allchgmbi	adj bmi change, offsp 1-7 & cohort exams 10-26	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000116">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000116</a>
Metabolic	Adiposity	allchgwt	adj weight change, offsp 1-7 & cohort exams 10-26	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000118">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000118</a>
Metabolic	Adiposity	allhgt1602	adj height, offsp 2 & cohort 16 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000120">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000120</a>
Metabolic	Adiposity	allhgt1803	adj height, offsp 3 & cohort 18 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000122">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000122</a>
Metabolic	Adiposity	allhgt1x01	adj height, offsp 1 & cohort 10 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000124">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000124</a>
Metabolic	Adiposity	allhgt2004	adj height, offsp 4 & cohort 20 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000126">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000126</a>
Metabolic	Adiposity	allhgt2205	adj height, offsp 5 & cohort 22 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000128">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000128</a>
Metabolic	Adiposity	allhgt2406	adj height, offsp 6 & cohort 24 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000130">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000130</a>
Metabolic	Adiposity	allhgt2607	adj height, offsp 7 & cohort 26 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000132">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000132</a>
Metabolic	Adiposity	allmeanbmi	adj mean bmi, offsp 1-7 & cohort 10,16,18,20,22,24,26 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000134">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000134</a>
Metabolic	Adiposity	allmeanhgt	adj mean height, offsp 1-7 & cohort 10,16,18,20,22,24,26 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000136">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000136</a>
Metabolic	Adiposity	allmeanwgt	adj mean weight, offsp 1-7 & cohort 10,16,18,20,22,24,26 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000138">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000138</a>
Metabolic	Adiposity	allochgwt	adj waist change, offsp 4 to 7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000140">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000140</a>
Metabolic	Adiposity	allomeanwst	adj mean waist, offsp 4 to 7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000142">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000142</a>
Metabolic	Adiposity	allowst0007	adj waist, offsp 7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000144">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000144</a>
Metabolic	Adiposity	allrankbmi1602	rank adj bmi, offsp 2 & cohort 16 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000146">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000146</a>
Metabolic	Adiposity	allrankbmi1803	rank adj bmi, offsp 3 & cohort 18 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000148">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000148</a>
Metabolic	Adiposity	allrankbmi1x01	rank adj bmi, offsp 1 & cohort 10 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000150">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000150</a>
Metabolic	Adiposity	allrankbmi2004	rank adj bmi, offsp 4 & cohort 20 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000152">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000152</a>
Metabolic	Adiposity	allrankbmi2205	rank adj bmi, offsp 5 & cohort 22 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000154">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000154</a>
Metabolic	Adiposity	allrankbmi2406	rank adj bmi, offsp 6 & cohort 24 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000156">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000156</a>
Metabolic	Adiposity	allrankbmi2607	rank adj bmi, offsp 7 & cohort 26 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000158">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000158</a>
Metabolic	Adiposity	allrankchgmbi	rank adj bmi change, offsp 1-7 & cohort exams 10-26	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000160">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000160</a>
Metabolic	Adiposity	allrankchgwt	rank adj weight change, offsp 1-7 & cohort exams 10-26	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000162">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000162</a>
Metabolic	Adiposity	allrankmeanbmi	rank adj mean bmi, offsp 1-7 & cohort 10,16,18,20,22,24,26 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000164">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000164</a>
Metabolic	Adiposity	allrankmeanwgt	rank adj mean weight, offsp 1-7 & cohort 10,16,18,20,22,24,26 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000166">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000166</a>
Metabolic	Adiposity	allrankochgwt	rank adj waist change, offsp 4 to 7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000168">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000168</a>
Metabolic	Adiposity	allrankomeanwst	rank adj mean waist, offsp 4 to 7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000170">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000170</a>
Metabolic	Adiposity	allrankwgt1602	rank adj weight, offsp 2 & cohort 16 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000172">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000172</a>
Metabolic	Adiposity	allrankwgt1803	rank adj weight, offsp 3 & cohort 18 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000174">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000174</a>
Metabolic	Adiposity	allrankwgt1x01	rank adj weight, offsp 1 & cohort 10 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000176">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000176</a>
Metabolic	Adiposity	allrankwgt2004	rank adj weight, offsp 4 & cohort 20 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000178">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000178</a>
Metabolic	Adiposity	allrankwgt2205	rank adj weight, offsp 5 & cohort 22 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000180">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000180</a>
Metabolic	Adiposity	allrankwgt2406	rank adj weight, offsp 6 & cohort 24 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000182">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000182</a>
Metabolic	Adiposity	allrankwgt2607	rank adj weight, offsp 7 & cohort 26 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000184">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000184</a>
Metabolic	Adiposity	allrankwst2306	rank adj waist, offsp 6 & cohort exam 23	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000186">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000186</a>
Metabolic	Adiposity	allwgt1602	adj weight, offsp 2 & cohort 16 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000188">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000188</a>
Metabolic	Adiposity	allwgt1803	adj weight, offsp 3 & cohort 18 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000190">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000190</a>
Metabolic	Adiposity	allwgt1x01	adj weight, offsp 1 & cohort 10 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000192">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000192</a>
Metabolic	Adiposity	allwgt2004	adj weight, offsp 4 & cohort 20 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000194">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000194</a>
Metabolic	Adiposity	allwgt2205	adj weight, offsp 5 & cohort 22 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000196">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000196</a>
Metabolic	Adiposity	allwgt2406	adj weight, offsp 6 & cohort 24 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000198">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000198</a>
Metabolic	Adiposity	allwgt2607	adj weight, offsp 7 & cohort 26 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000200">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000200</a>
Metabolic	Adiposity	allwst2004	adj waist, offsp 4 & cohort 20 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000202">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000202</a>

Online Table 1: Phenotypes Evaluated for Association using Population-based Analysis (GEE)

Group	Category	Trait Label	Name	GEE Link
Metabolic	Adiposity	allwst2205	adj waist, offsp 5 & cohort 22 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000204">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000204</a>
Metabolic	Adiposity	allwst2306	adj waist, offsp 6 & cohort exam 23	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000206">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000206</a>
Metabolic	Adiposity	fembmi1602	Female adj bmi, offsp 2 & cohort 16 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000208">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000208</a>
Metabolic	Adiposity	fembmi1803	Female adj bmi, offsp 3 & cohort 18 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000210">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000210</a>
Metabolic	Adiposity	fembmi1x01	Female adj bmi, offsp 1 & cohort 10 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000212">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000212</a>
Metabolic	Adiposity	fembmi2004	Female adj bmi, offsp 4 & cohort 20 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000214">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000214</a>
Metabolic	Adiposity	fembmi2205	Female adj bmi, offsp 5 & cohort 22 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000216">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000216</a>
Metabolic	Adiposity	fembmi2406	Female adj bmi, offsp 6 & cohort 24 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000218">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000218</a>
Metabolic	Adiposity	fembmi2607	Female adj bmi, offsp 7 & cohort 26 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000220">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000220</a>
Metabolic	Adiposity	femchgmbi	Female adj bmi change, offsp 1-7 & cohort exams 10-26	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000222">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000222</a>
Metabolic	Adiposity	femchgwgt	Female adj weight change, offsp 1-7 & cohort exams 10-26	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000224">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000224</a>
Metabolic	Adiposity	femhgt1602	Female adj height, offsp 2 & cohort 16 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000226">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000226</a>
Metabolic	Adiposity	femhgt1803	Female adj height, offsp 3 & cohort 18 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000228">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000228</a>
Metabolic	Adiposity	femhgt1x01	Female adj height, offsp 1 & cohort 10 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000230">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000230</a>
Metabolic	Adiposity	femhgt2004	Female adj height, offsp 4 & cohort 20 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000232">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000232</a>
Metabolic	Adiposity	femhgt2205	Female adj height, offsp 5 & cohort 22 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000234">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000234</a>
Metabolic	Adiposity	femhgt2406	Female adj height, offsp 6 & cohort 24 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000236">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000236</a>
Metabolic	Adiposity	femhgt2607	Female adj height, offsp 7 & cohort 26 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000238">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000238</a>
Metabolic	Adiposity	femmeanbmi	Female adj mean bmi, offsp 1-7 & cohort 10,16,18,20,22,24,26 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000240">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000240</a>
Metabolic	Adiposity	femmeanhgt	Female adj mean height, offsp 1-7 & cohort 10,16,18,20,22,24,26 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000242">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000242</a>
Metabolic	Adiposity	femmeanwgt	Female adj mean weight, offsp 1-7 & cohort 10,16,18,20,22,24,26 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000244">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000244</a>
Metabolic	Adiposity	femochgwst	Female adj waist change, offsp 4 to 7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000246">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000246</a>
Metabolic	Adiposity	femomeanwst	Female adj mean waist, offsp 4 to 7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000248">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000248</a>
Metabolic	Adiposity	femowst0007	Female adj waist, offsp 7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000250">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000250</a>
Metabolic	Adiposity	femrankbmi1602	Female rank adj bmi, offsp 2 & cohort 16 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000252">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000252</a>
Metabolic	Adiposity	femrankbmi1803	Female rank adj bmi, offsp 3 & cohort 18 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000254">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000254</a>
Metabolic	Adiposity	femrankbmi1x01	Female rank adj bmi, offsp 1 & cohort 10 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000256">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000256</a>
Metabolic	Adiposity	femrankbmi2004	Female rank adj bmi, offsp 4 & cohort 20 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000258">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000258</a>
Metabolic	Adiposity	femrankbmi2205	Female rank adj bmi, offsp 5 & cohort 22 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000260">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000260</a>
Metabolic	Adiposity	femrankbmi2406	Female rank adj bmi, offsp 6 & cohort 24 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000262">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000262</a>
Metabolic	Adiposity	femrankbmi2607	Female rank adj bmi, offsp 7 & cohort 26 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000264">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000264</a>
Metabolic	Adiposity	femrankchgwgt	Female rank adj weight change, offsp 1-7 & cohort exams 10-26	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000266">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000266</a>
Metabolic	Adiposity	femrankmeanbmi	Female rank adj mean bmi, offsp 1-7 & cohort 10,16,18,20,22,24,26 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000268">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000268</a>
Metabolic	Adiposity	femrankmeanwgt	Female rank adj mean weight, offsp 1-7 & cohort 10,16,18,20,22,24,26 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000270">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000270</a>
Metabolic	Adiposity	femrankomeanwst	Female rank adj mean waist, offsp 4 to 7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000272">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000272</a>
Metabolic	Adiposity	femrankwgt1602	Female rank adj weight, offsp 2 & cohort 16 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000274">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000274</a>
Metabolic	Adiposity	femrankwgt1803	Female rank adj weight, offsp 3 & cohort 18 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000276">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000276</a>
Metabolic	Adiposity	femrankwgt1x01	Female rank adj weight, offsp 1 & cohort 10 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000278">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000278</a>
Metabolic	Adiposity	femrankwgt2004	Female rank adj weight, offsp 4 & cohort 20 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000280">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000280</a>
Metabolic	Adiposity	femrankwgt2205	Female rank adj weight, offsp 5 & cohort 22 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000282">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000282</a>
Metabolic	Adiposity	femrankwgt2406	Female rank adj weight, offsp 6 & cohort 24 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000284">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000284</a>
Metabolic	Adiposity	femrankwgt2607	Female rank adj weight, offsp 7 & cohort 26 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000286">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000286</a>
Metabolic	Adiposity	femwgt1602	Female adj weight, offsp 2 & cohort 16 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000288">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000288</a>
Metabolic	Adiposity	femwgt1803	Female adj weight, offsp 3 & cohort 18 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000290">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000290</a>
Metabolic	Adiposity	femwgt1x01	Female adj weight, offsp 1 & cohort 10 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000292">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000292</a>
Metabolic	Adiposity	femwgt2004	Female adj weight, offsp 4 & cohort 20 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000294">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000294</a>
Metabolic	Adiposity	femwgt2205	Female adj weight, offsp 5 & cohort 22 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000296">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000296</a>
Metabolic	Adiposity	femwgt2406	Female adj weight, offsp 6 & cohort 24 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000298">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000298</a>
Metabolic	Adiposity	femwgt2607	Female adj weight, offsp 7 & cohort 26 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000300">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000300</a>
Metabolic	Adiposity	femwst2004	Female adj waist, offsp 4 & cohort 20 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000302">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000302</a>
Metabolic	Adiposity	femwst2205	Female adj waist, offsp 5 & cohort 22 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000304">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000304</a>
Metabolic	Adiposity	femwst2306	Female adj waist, offsp 6 & cohort exam 23	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000306">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000306</a>
Metabolic	Adiposity	malebmi1602	Male adj bmi, offsp 2 & cohort 16 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000308">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000308</a>
Metabolic	Adiposity	malebmi1803	Male adj bmi, offsp 3 & cohort 18 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000310">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000310</a>
Metabolic	Adiposity	malebmi1x01	Male adj bmi, offsp 1 & cohort 10 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000312">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000312</a>

Online Table 1: Phenotypes Evaluated for Association using Population-based Analysis (GEE)

Group	Category	Trait Label	Name	GEE Link
Metabolic	Adiposity	malebmi2004	Male adj bmi, offsp 4 & cohort 20 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000314">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000314</a>
Metabolic	Adiposity	malebmi2205	Male adj bmi, offsp 5 & cohort 22 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000316">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000316</a>
Metabolic	Adiposity	malebmi2406	Male adj bmi, offsp 6 & cohort 24 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000318">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000318</a>
Metabolic	Adiposity	malebmi2607	Male adj bmi, offsp 7 & cohort 26 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000320">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000320</a>
Metabolic	Adiposity	malechgbmi	Male adj bmi change, offsp 1-7 & cohort exams 10-26	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000322">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000322</a>
Metabolic	Adiposity	malechgwt	Male adj weight change, offsp 1-7 & cohort exams 10-26	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000324">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000324</a>
Metabolic	Adiposity	malehgt1602	Male adj height, offsp 2 & cohort 16 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000326">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000326</a>
Metabolic	Adiposity	malehgt1803	Male adj height, offsp 3 & cohort 18 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000328">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000328</a>
Metabolic	Adiposity	malehgt1x01	Male adj height, offsp 1 & cohort 10 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000330">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000330</a>
Metabolic	Adiposity	malehgt2004	Male adj height, offsp 4 & cohort 20 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000332">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000332</a>
Metabolic	Adiposity	malehgt2205	Male adj height, offsp 5 & cohort 22 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000334">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000334</a>
Metabolic	Adiposity	malehgt2406	Male adj height, offsp 6 & cohort 24 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000336">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000336</a>
Metabolic	Adiposity	malehgt2607	Male adj height, offsp 7 & cohort 26 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000338">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000338</a>
Metabolic	Adiposity	malemeanbmi	Male adj mean bmi, offsp 1-7 & cohort 10,16,18,20,22,24,26 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000340">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000340</a>
Metabolic	Adiposity	malemeanhgt	Male adj mean hgt, offsp 1-7 & cohort 10,16,18,20,22,24,26 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000342">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000342</a>
Metabolic	Adiposity	malemeanwgt	Male adj mean weight, offsp 1-7 & cohort 10,16,18,20,22,24,26 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000344">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000344</a>
Metabolic	Adiposity	maleochgwst	Male adj waist change, offsp 4 to 7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000346">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000346</a>
Metabolic	Adiposity	maleomeanwst	Male adj mean waist, offsp 4 to 7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000348">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000348</a>
Metabolic	Adiposity	maleowst0007	Male adj waist, offsp 7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000350">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000350</a>
Metabolic	Adiposity	malerankbmi1602	Male rank adj bmi, offsp 2 & cohort 16 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000352">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000352</a>
Metabolic	Adiposity	malerankbmi1803	Male rank adj bmi, offsp 3 & cohort 18 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000354">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000354</a>
Metabolic	Adiposity	malerankbmi2004	Male rank adj bmi, offsp 4 & cohort 20 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000356">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000356</a>
Metabolic	Adiposity	malerankbmi2205	Male rank adj bmi, offsp 5 & cohort 22 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000358">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000358</a>
Metabolic	Adiposity	malerankbmi2406	Male rank adj bmi, offsp 6 & cohort 24 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000360">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000360</a>
Metabolic	Adiposity	malerankbmi2607	Male rank adj bmi, offsp 7 & cohort 26 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000362">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000362</a>
Metabolic	Adiposity	malerankchgbmi	Male rank adj bmi change, offsp 1-7 & cohort exams 10-26	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000364">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000364</a>
Metabolic	Adiposity	malerankchgwt	Male rank adj weight change, offsp 1-7 & cohort exams 10-26	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000366">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000366</a>
Metabolic	Adiposity	malerankhgt2406	Male rank adj height, offsp 6 & cohort 24 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000368">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000368</a>
Metabolic	Adiposity	malerankochgwst	Male rank adj waist change, offsp 4 to 7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000370">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000370</a>
Metabolic	Adiposity	malerankwgt1602	Male rank adj weight, offsp 2 & cohort 16 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000372">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000372</a>
Metabolic	Adiposity	malerankwgt2004	Male rank adj weight, offsp 4 & cohort 20 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000374">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000374</a>
Metabolic	Adiposity	malerankwgt2205	Male rank adj weight, offsp 5 & cohort 22 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000376">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000376</a>
Metabolic	Adiposity	malerankwst2306	Male rank adj waist, offsp 6 & cohort exam 23	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000378">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000378</a>
Metabolic	Adiposity	malewgt1602	Male adj weight, offsp 2 & cohort 16 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000380">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000380</a>
Metabolic	Adiposity	malewgt1803	Male adj weight, offsp 3 & cohort 18 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000382">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000382</a>
Metabolic	Adiposity	malewgt1x01	Male adj weight, offsp 1 & cohort 10 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000384">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000384</a>
Metabolic	Adiposity	malewgt2004	Male adj weight, offsp 4 & cohort 20 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000386">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000386</a>
Metabolic	Adiposity	malewgt2205	Male adj weight, offsp 5 & cohort 22 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000388">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000388</a>
Metabolic	Adiposity	malewgt2406	Male adj weight, offsp 6 & cohort 24 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000390">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000390</a>
Metabolic	Adiposity	malewgt2607	Male adj weight, offsp 7 & cohort 26 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000392">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000392</a>
Metabolic	Adiposity	malewst2004	Male adj waist, offsp 4 & cohort 20 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000394">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000394</a>
Metabolic	Adiposity	malewst2205	Male adj waist, offsp 5 & cohort 22 exams	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000396">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000396</a>
Metabolic	Adiposity	malewst2306	Male adj waist, offsp 6 & cohort exam 23	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000398">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000398</a>
Metabolic	Adiposity	SATAS	SAT adj for age, age sqr, sex	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000400">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000400</a>
Metabolic	Adiposity	SATMV	SAT adj for age, age square, sex, meno status, smoking	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000402">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000402</a>
Metabolic	Adiposity	SDAS	Sagittal diameter adj for age, age square, sex	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000404">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000404</a>
Metabolic	Adiposity	SDMV	Sagittal diameter adj for age, age square, sex, meno status, smoking	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000406">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000406</a>
Metabolic	Adiposity	VATAS	VAT adj for age, age squared, sex	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000408">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000408</a>
Metabolic	Adiposity	VATMV	VAT adj for age, age squared, sex, meno status, smoking	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000410">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000410</a>
Metabolic	Adiposity	WCAS	Waist by CT adj for age, age squared, sex	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000412">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000412</a>
Metabolic	Adiposity	WCMV	Waist by CT adj for age, age squared, sex, meno status, smoking	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000414">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000414</a>
Metabolic	Glycemic	DiabSurv1sexage	Diabetes incidence to ex7, age-sex adjusted in FBAT, Cox model for GEE	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000416">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000416</a>
Metabolic	Glycemic	DiabSurv2sexagebmi	Diabetes incidence to ex7, age-sex-bmi adjusted in FBAT, Cox model for GEE	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000418">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000418</a>
Metabolic	Glycemic	res1ladipoq7o	Age-sex adjusted Adiponectin ex7 offspring	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000420">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000420</a>
Metabolic	Glycemic	res1flglu5o	Age-sex adjusted Fasting Plasma Glucose ex5 offspring	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000422">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000422</a>

Online Table 1: Phenotypes Evaluated for Association using Population-based Analysis (GEE)

Group	Category	Trait Label	Name	GEE Link
Metabolic	Glycemic	res1f1glu7o	Age-sex adjusted Fasting Plasma Glucose ex7 offspring	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000424">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000424</a>
Metabolic	Glycemic	res1f1fins5o	Age-sex adjusted Fasting Insulin ex5 offspring	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000426">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000426</a>
Metabolic	Glycemic	res1f1fins7o	Age-sex adjusted Fasting Insulin ex7 offspring	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000428">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000428</a>
Metabolic	Glycemic	res1l1gutt5o	Age-sex adjusted Insulin Sensitivity ex5 offspring	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000430">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000430</a>
Metabolic	Glycemic	res1lhba1c5o	Age-sex adjusted Fasting HbA1c ex5 offspring	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000432">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000432</a>
Metabolic	Glycemic	res1lhba1c7o	Age-sex adjusted HbA1c ex7 offspring	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000434">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000434</a>
Metabolic	Glycemic	res1lh1r5o	Age-sex adjusted HOMA-IR ex5 offspring	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000436">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000436</a>
Metabolic	Glycemic	res1lh1r7o	Age-sex adjusted HOMA-IR ex7 offspring	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000438">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000438</a>
Metabolic	Glycemic	res2l1mfglu17o	Age-sex adjusted Mean Plasma Glucose ex1-7 offspring	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000440">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000440</a>
Metabolic	Glycemic	res1l1retn7o	Age-sex adjusted Resistin ex7 offspring	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000442">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000442</a>
Metabolic	Glycemic	res2ladipoq7o	Multivariable adjusted Adiponectin ex7 offspring	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000444">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000444</a>
Metabolic	Glycemic	res2l1f1glu5o	Multivariable adjusted Fasting Plasma Glucose ex5 offspring	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000446">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000446</a>
Metabolic	Glycemic	res2l1f1glu7o	Multivariable adjusted Fasting Plasma Glucose ex7 offspring	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000448">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000448</a>
Metabolic	Glycemic	res2l1f1ins5o	Multivariable adjusted Fasting Insulin ex5 offspring	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000450">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000450</a>
Metabolic	Glycemic	res2l1f1ins7o	Multivariable adjusted Fasting Insulin ex7 offspring	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000452">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000452</a>
Metabolic	Glycemic	res2l1gutt5o	Multivariable adjusted Insulin Sensitivity ex5 offspring	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000454">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000454</a>
Metabolic	Glycemic	res2lhba1c5o	Multivariable adjusted Fasting HbA1c ex5 offspring	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000456">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000456</a>
Metabolic	Glycemic	res2lhba1c7o	Multivariable adjusted HbA1c ex7 offspring	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000458">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000458</a>
Metabolic	Glycemic	res2lh1r5o	Multivariable adjusted HOMA-IR ex5 offspring	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000460">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000460</a>
Metabolic	Glycemic	res2lh1r7o	Multivariable adjusted HOMA-IR ex7 offspring	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000462">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000462</a>
Metabolic	Glycemic	res2l1mfglu17o	Multivariable adjusted Mean Plasma Glucose exam1-7 offspring	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000464">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000464</a>
Metabolic	Glycemic	res2l1retn7o	Multivariable adjusted Resistin ex7 offspring	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000466">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000466</a>
Metabolic	Lipids	ApoA14a	Multivariable adj Plasma ApoA1 Level Offsp ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000468">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000468</a>
Metabolic	Lipids	ApoA14b	Age-sex adj Plasma ApoA1 Level Offsp ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000470">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000470</a>
Metabolic	Lipids	ApoB4a	Multivariable adj Plasma ApoB Level Offsp ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000472">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000472</a>
Metabolic	Lipids	ApoB4b	Age-sex adj Plasma ApoB Level Offsp ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000474">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000474</a>
Metabolic	Lipids	ApoC3a	Multivariable adj Plasma ApoCIII Level Offsp ex5	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000476">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000476</a>
Metabolic	Lipids	ApoC3b	Age-sex adj Plasma ApoCIII Level Offsp ex5	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000478">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000478</a>
Metabolic	Lipids	chol1a	Multivariable adj Chol Offsp ex1	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000480">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000480</a>
Metabolic	Lipids	chol1b	Age-sex adj Chol Offsp ex1	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000482">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000482</a>
Metabolic	Lipids	chol2b	Age-sex adj Chol Offsp ex2	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000484">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000484</a>
Metabolic	Lipids	chol3b	Age-sex adj Chol Offsp ex3	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000486">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000486</a>
Metabolic	Lipids	chol4b	Age-sex adj Chol Offsp ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000488">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000488</a>
Metabolic	Lipids	chol5b	Age-sex adj Chol Offsp ex5	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000490">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000490</a>
Metabolic	Lipids	chol6b	Age-sex adj Chol Offsp ex6	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000492">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000492</a>
Metabolic	Lipids	chol7b	Age-sex adj Chol Offsp ex7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000494">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000494</a>
Metabolic	Lipids	cholhdl1a	Multivariable adj Chol-HDL Ratio Offsp ex1	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000496">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000496</a>
Metabolic	Lipids	cholhdl1b	Age-sex adj Chol-HDL Ratio Offsp ex1	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000498">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000498</a>
Metabolic	Lipids	cholhdl2b	Age-sex adj Chol-HDL Ratio Offsp ex2	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000500">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000500</a>
Metabolic	Lipids	cholhdl3b	Age-sex adj Chol-HDL Ratio Offsp ex3	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000502">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000502</a>
Metabolic	Lipids	cholhdl4b	Age-sex adj Chol-HDL Ratio Offsp ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000504">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000504</a>
Metabolic	Lipids	cholhdl5b	Age-sex adj Chol-HDL Ratio Offsp ex5	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000506">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000506</a>
Metabolic	Lipids	cholhdl6b	Age-sex adj Chol-HDL Ratio Offsp ex6	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000508">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000508</a>
Metabolic	Lipids	cholhdl7b	Age-sex adj Chol-HDL Ratio Offsp ex7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000510">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000510</a>
Metabolic	Lipids	hdl1a	Multivariable adj HDL Offsp ex1	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000512">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000512</a>
Metabolic	Lipids	hdl1b	Age-sex adj HDL Offsp ex1	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000514">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000514</a>
Metabolic	Lipids	hdl24a	Multivariable adj HDL2 Offsp ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000516">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000516</a>
Metabolic	Lipids	hdl24b	Age-sex adj HDL2 Offsp ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000518">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000518</a>
Metabolic	Lipids	hdl25a	Multivariable adj HDL2 Offsp ex5	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000520">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000520</a>
Metabolic	Lipids	hdl25b	Age-sex adj HDL2 Offsp ex5	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000522">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000522</a>
Metabolic	Lipids	hdl2b	Age-sex adj HDL Offsp ex2	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000524">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000524</a>
Metabolic	Lipids	hdl34a	Multivariable adj HDL3 Offsp ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000526">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000526</a>
Metabolic	Lipids	hdl34b	Age-sex adj HDL3 Offsp ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000528">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000528</a>
Metabolic	Lipids	hdl35a	Multivariable adj HDL3 Offsp ex5	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000530">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000530</a>
Metabolic	Lipids	hdl35b	Age-sex adj HDL3 Offsp ex5	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000532">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000532</a>

Online Table 1: Phenotypes Evaluated for Association using Population-based Analysis (GEE)

Group	Category	Trait Label	Name	GEE Link
Metabolic	Lipids	hdl3b	Age-sex adj HDL Offsp ex3	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000534">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000534</a>
Metabolic	Lipids	hdl4b	Age-sex adj HDL Offsp ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000536">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000536</a>
Metabolic	Lipids	hdl5b	Age-sex adj HDL Offsp ex5	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000538">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000538</a>
Metabolic	Lipids	hdl6b	Age-sex adj HDL Offsp ex6	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000540">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000540</a>
Metabolic	Lipids	hdl7b	Age-sex adj HDL Offsp ex7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000542">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000542</a>
Metabolic	Lipids	HDLNMRint4a	Multivariable adj NMR HDL Int Offsp ex4 or TG > 400	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000544">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000544</a>
Metabolic	Lipids	HDLNMRint4b	Age-sex adj NMR HDL Int Offsp ex4 or TG > 400	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000546">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000546</a>
Metabolic	Lipids	HDLNMRlg4a	Multivariable adj NMR HDL Lg Offsp ex4 or TG > 400	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000548">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000548</a>
Metabolic	Lipids	HDLNMRlg4b	Age-sex adj NMR HDL Lg Offsp ex4 or TG > 400	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000550">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000550</a>
Metabolic	Lipids	HDLNMRsm4a	Multivariable adj NMR HDL Sm Offsp ex4 or TG > 400	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000552">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000552</a>
Metabolic	Lipids	HDLNMRsm4b	Age-sex adj NMR HDL Sm Offsp ex4 or TG > 400	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000554">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000554</a>
Metabolic	Lipids	HDLNMRsz4a	Multivariable adj NMR HDL Size Offsp ex4 or TG > 400	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000556">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000556</a>
Metabolic	Lipids	HDLNMRsz4b	Age-sex adj NMR HDL Size Offsp ex4 or TG > 400	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000558">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000558</a>
Metabolic	Lipids	IDLNMR4a	Multivariable adj NMR IDL Offsp ex4 or TG > 400	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000560">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000560</a>
Metabolic	Lipids	IDLNMR4b	Age-sex adj NMR IDL Offsp ex4 or TG > 400	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000562">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000562</a>
Metabolic	Lipids	ldl1a	Multivariable adj LDL Offsp ex1	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000564">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000564</a>
Metabolic	Lipids	ldl1b	Age-sex adj LDL Offsp ex1	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000566">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000566</a>
Metabolic	Lipids	ldl2b	Age-sex adj LDL Offsp ex2	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000568">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000568</a>
Metabolic	Lipids	ldl3b	Age-sex adj LDL Offsp ex3	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000570">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000570</a>
Metabolic	Lipids	ldl4b	Age-sex adj LDL Offsp ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000572">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000572</a>
Metabolic	Lipids	ldl5b	Age-sex adj LDL Offsp ex5	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000574">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000574</a>
Metabolic	Lipids	ldl6b	Age-sex adj LDL Offsp ex6	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000576">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000576</a>
Metabolic	Lipids	ldl7b	Age-sex adj LDL Offsp ex7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000578">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000578</a>
Metabolic	Lipids	LDLNMRlg4a	Multivariable adj NMR LDL Lg Offsp ex4 or TG > 400	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000580">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000580</a>
Metabolic	Lipids	LDLNMRlg4b	Age-sex adj NMR LDL Lg Offsp ex4 or TG > 400	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000582">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000582</a>
Metabolic	Lipids	LDLNMRsm4a	Multivariable adj NMR LDL Sm Offsp ex4 or TG > 400	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000584">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000584</a>
Metabolic	Lipids	LDLNMRsm4b	Age-sex adj NMR LDL Sm Offsp ex4 or TG > 400	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000586">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000586</a>
Metabolic	Lipids	LDLNMRsz4a	Multivariable adj NMR LDL Size Offsp ex4 or TG > 400	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000588">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000588</a>
Metabolic	Lipids	LDLNMRsz4b	Age-sex adj NMR LDL Size Offsp ex4 or TG > 400	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000590">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000590</a>
Metabolic	Lipids	lpa3a	Multivariable adj Lpa Offsp ex3	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000592">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000592</a>
Metabolic	Lipids	lpa3b	Age-sex adj Lpa Offsp ex3	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000594">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000594</a>
Metabolic	Lipids	meanchola	Multivariable adj NMR Chol Offsp ex1-7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000596">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000596</a>
Metabolic	Lipids	meancholb	Age-sex adj NMR Chol Offsp ex1-7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000598">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000598</a>
Metabolic	Lipids	meanhdla	Multivariable adj NMR HDL Offsp ex1-7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000600">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000600</a>
Metabolic	Lipids	meanhdlb	Age-sex adj NMR HDL Offsp ex1-7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000602">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000602</a>
Metabolic	Lipids	meanldla	Multivariable adj NMR Calc LDL Offsp ex1-7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000604">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000604</a>
Metabolic	Lipids	meanldlb	Age-sex adj NMR Calc LDL Offsp ex1-7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000606">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000606</a>
Metabolic	Lipids	meantga	Multivariable adj NMR (TG) Offsp ex1-7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000608">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000608</a>
Metabolic	Lipids	meantgb	Age-sex adj NMR (TG) Offsp ex1-7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000610">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000610</a>
Metabolic	Lipids	PlasmaApoEa	Multivariable adj Plasma ApoE Level Offsp ex5	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000612">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000612</a>
Metabolic	Lipids	PlasmaApoEb	Age-sex adj Plasma ApoE Level Offsp ex5	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000614">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000614</a>
Metabolic	Lipids	RLPChol4a	Multivariable adj Remnant LP Chol Offsp ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000924">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000924</a>
Metabolic	Lipids	RLPChol4b	Age-sex adj Remnant LP Chol Offsp ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000926">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000926</a>
Metabolic	Lipids	RLPTG4a	Remnant LP TG Offsp ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000618">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000618</a>
Metabolic	Lipids	RLPTG4b	Remnant LP Age-sex adj TG Offsp ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000616">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000616</a>
Metabolic	Lipids	tg1a	Multivariable adj TG Offsp ex1	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000620">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000620</a>
Metabolic	Lipids	tg1b	Age-sex adj TG Offsp ex1	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000622">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000622</a>
Metabolic	Lipids	tg2b	Age-sex adj TG Offsp ex2	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000624">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000624</a>
Metabolic	Lipids	tg3b	Age-sex adj TG Offsp ex3	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000626">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000626</a>
Metabolic	Lipids	tg4b	Age-sex adj TG Offsp ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000628">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000628</a>
Metabolic	Lipids	tg5b	Age-sex adj TG Offsp ex5	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000630">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000630</a>
Metabolic	Lipids	tg6b	Age-sex adj TG Offsp ex6	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000632">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000632</a>
Metabolic	Lipids	tg7b	Age-sex adj TG Offsp ex7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000634">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000634</a>
Metabolic	Lipids	tghdl1a	Multivariable adj TG-HDL Ratio Offsp ex1	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000668">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000668</a>
Metabolic	Lipids	tghdl1b	Age-sex adj TG-HDL Ratio Offsp ex1	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000914">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000914</a>

Online Table 1: Phenotypes Evaluated for Association using Population-based Analysis (GEE)

Group	Category	Trait Label	Name	GEE Link
Metabolic	Lipids	tghdl2b	Age-sex adj TG-HDL Ratio Offsp ex2	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000670">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000670</a>
Metabolic	Lipids	tghdl3b	Age-sex adj TG-HDL Ratio Offsp ex3	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000672">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000672</a>
Metabolic	Lipids	tghdl4b	Age-sex adj TG-HDL Ratio Offsp ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000674">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000674</a>
Metabolic	Lipids	tghdl5b	Age-sex adj TG-HDL Ratio Offsp ex5	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000676">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000676</a>
Metabolic	Lipids	tghdl6b	Age-sex adj TG-HDL Ratio Offsp ex6	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000678">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000678</a>
Metabolic	Lipids	tghdl7b	Age-sex adj TG-HDL Ratio Offsp ex7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000680">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000680</a>
Metabolic	Lipids	VLDLNMRI4a	Multivariable adj NMR VLDL Int Offsp ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000866">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000866</a>
Metabolic	Lipids	VLDLNMRI4b	Age-sex adj NMR VLDL Int Offsp ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000868">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000868</a>
Metabolic	Lipids	VLDLNMRIg4a	Multivariable adj NMR VLDL Lg Offsp ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000878">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000878</a>
Metabolic	Lipids	VLDLNMRIg4b	Age-sex adj NMR VLDL Lg Offsp ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000880">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000880</a>
Metabolic	Lipids	VLDLNMRSm4a	Multivariable adj NMR VLDL Sm Offsp ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000902">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000902</a>
Metabolic	Lipids	VLDLNMRSm4b	Age-sex adj NMR VLDL Sm Offsp ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000904">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000904</a>
Metabolic	Lipids	VLDLNMRSz4a	Multivariable adj NMR VLDL Size Offsp ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000890">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000890</a>
Metabolic	Lipids	VLDLNMRSz4b	Age-sex adj NMR VLDL Size Offsp ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000892">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000892</a>
Metabolic	Lipidsmen	menApoB4a	Multivariable adj Plasma ApoB Level Offsp men ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000916">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000916</a>
Metabolic	Lipidsmen	menApoB4b	Age-sex adj Plasma ApoB Level Offsp men ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000918">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000918</a>
Metabolic	Lipidsmen	menchol1a	Multivariable adj Chol Offsp men ex1	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000710">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000710</a>
Metabolic	Lipidsmen	menchol1b	Age-sex adj Chol Offsp men ex1	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000712">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000712</a>
Metabolic	Lipidsmen	menchol2b	Age-sex adj Chol Offsp men ex2	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000714">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000714</a>
Metabolic	Lipidsmen	menchol3b	Age-sex adj Chol Offsp men ex3	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000716">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000716</a>
Metabolic	Lipidsmen	menchol4b	Age-sex adj Chol Offsp men ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000718">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000718</a>
Metabolic	Lipidsmen	menchol5b	Age-sex adj Chol Offsp men ex5	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000720">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000720</a>
Metabolic	Lipidsmen	menchol6b	Age-sex adj Chol Offsp men ex6	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000722">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000722</a>
Metabolic	Lipidsmen	menchol7b	Age-sex adj Chol Offsp men ex7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000724">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000724</a>
Metabolic	Lipidsmen	menhdl1a	Multivariable adj HDL Offsp men ex1	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000742">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000742</a>
Metabolic	Lipidsmen	menhdl1b	Age-sex adj HDL Offsp men ex1	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000744">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000744</a>
Metabolic	Lipidsmen	menhdl2b	Age-sex adj HDL Offsp men ex2	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000746">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000746</a>
Metabolic	Lipidsmen	menhdl3b	Age-sex adj HDL Offsp men ex3	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000748">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000748</a>
Metabolic	Lipidsmen	menhdl4b	Age-sex adj HDL Offsp men ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000750">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000750</a>
Metabolic	Lipidsmen	menhdl5b	Age-sex adj HDL Offsp men ex5	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000752">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000752</a>
Metabolic	Lipidsmen	menhdl6b	Age-sex adj HDL Offsp men ex6	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000754">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000754</a>
Metabolic	Lipidsmen	menhdl7b	Age-sex adj HDL Offsp men ex7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000756">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000756</a>
Metabolic	Lipidsmen	menHDLNMRint4a	Multivariable adj NMR HDL Int Offsp men ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000810">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000810</a>
Metabolic	Lipidsmen	menHDLNMRint4b	Age-sex adj NMR HDL Int Offsp men ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000812">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000812</a>
Metabolic	Lipidsmen	menHDLNMRlg4a	Multivariable adj NMR HDL Lg Offsp men ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000818">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000818</a>
Metabolic	Lipidsmen	menHDLNMRlg4b	Age-sex adj NMR HDL Lg Offsp men ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000820">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000820</a>
Metabolic	Lipidsmen	menHDLNMRsm4a	Multivariable adj NMR HDL Sm Offsp men ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000834">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000834</a>
Metabolic	Lipidsmen	menHDLNMRsm4b	Age-sex adj NMR HDL Sm Offsp men ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000836">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000836</a>
Metabolic	Lipidsmen	menHDLNMRsz4a	Multivariable adj NMR HDL Size Offsp men ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000826">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000826</a>
Metabolic	Lipidsmen	menHDLNMRsz4b	Age-sex adj NMR HDL Size Offsp men ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000828">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000828</a>
Metabolic	Lipidsmen	menldl1a	Multivariable adj LDL Offsp men ex1	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000682">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000682</a>
Metabolic	Lipidsmen	menldl1b	Age-sex adj LDL Offsp men ex1	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000774">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000774</a>
Metabolic	Lipidsmen	menldl2b	Age-sex adj LDL Offsp men ex2	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000684">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000684</a>
Metabolic	Lipidsmen	menldl3b	Age-sex adj LDL Offsp men ex3	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000686">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000686</a>
Metabolic	Lipidsmen	menldl4b	Age-sex adj LDL Offsp men ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000688">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000688</a>
Metabolic	Lipidsmen	menldl5b	Age-sex adj LDL Offsp men ex5	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000690">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000690</a>
Metabolic	Lipidsmen	menldl6b	Age-sex adj LDL Offsp men ex6	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000692">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000692</a>
Metabolic	Lipidsmen	menldl7b	Age-sex adj LDL Offsp men ex7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000694">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000694</a>
Metabolic	Lipidsmen	menLDLNMRlg4a	Multivariable adj NMR LDL Lg Offsp men ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000842">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000842</a>
Metabolic	Lipidsmen	menLDLNMRlg4b	Age-sex adj NMR LDL Lg Offsp men ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000844">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000844</a>
Metabolic	Lipidsmen	menLDLNMRsm4a	Multivariable adj NMR LDL Sm Offsp men ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000858">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000858</a>
Metabolic	Lipidsmen	menLDLNMRsm4b	Age-sex adj NMR LDL Sm Offsp men ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000860">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000860</a>
Metabolic	Lipidsmen	menLDLNMRsz4a	Multivariable adj NMR LDL Size Offsp men ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000850">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000850</a>
Metabolic	Lipidsmen	menLDLNMRsz4b	Age-sex adj NMR LDL Size Offsp men ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000852">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000852</a>
Metabolic	Lipidsmen	menmeanchola	Multivariable adj Mean Chol Offsp men ex1-7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000794">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000794</a>

Online Table 1: Phenotypes Evaluated for Association using Population-based Analysis (GEE)

Group	Category	Trait Label	Name	GEE Link
Metabolic	Lipidsmen	menmeancholb	Age-sex adj Mean Chol Offsp men ex1-7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000796">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000796</a>
Metabolic	Lipidsmen	menmeanhdla	Multivariable adj Mean HDL Offsp men ex1-7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000802">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000802</a>
Metabolic	Lipidsmen	menmeanhdlb	Age-sex adj Mean HDL Offsp men ex1-7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000804">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000804</a>
Metabolic	Lipidsmen	menmeanldla	Multivariable adj Mean LDL Offsp men ex1-7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000786">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000786</a>
Metabolic	Lipidsmen	menmeanldlb	Age-sex adj Mean LDL Offsp men ex1-7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000788">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000788</a>
Metabolic	Lipidsmen	menmeantga	Multivariable adj Mean TG Offsp men ex1-7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000778">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000778</a>
Metabolic	Lipidsmen	menmeantgb	Age-sex adj Mean TG Offsp men ex1-7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000780">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000780</a>
Metabolic	Lipidsmen	mentg1a	Multivariable adj TG Offsp men ex1	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000636">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000636</a>
Metabolic	Lipidsmen	mentg1b	Age-sex adj TG Offsp men ex1	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000638">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000638</a>
Metabolic	Lipidsmen	mentg2b	Age-sex adj TG Offsp men ex2	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000640">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000640</a>
Metabolic	Lipidsmen	mentg3b	Age-sex adj TG Offsp men ex3	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000642">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000642</a>
Metabolic	Lipidsmen	mentg4b	Age-sex adj TG Offsp men ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000644">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000644</a>
Metabolic	Lipidsmen	mentg5b	Age-sex adj TG Offsp men ex5	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000646">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000646</a>
Metabolic	Lipidsmen	mentg6b	Age-sex adj TG Offsp men ex6	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000648">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000648</a>
Metabolic	Lipidsmen	mentg7b	Age-sex adj TG Offsp men ex7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000650">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000650</a>
Metabolic	Lipidsmen	menVLDLNMRIint4a	Multivariable adj NMR VLDL Int Offsp men ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000870">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000870</a>
Metabolic	Lipidsmen	menVLDLNMRIint4b	Age-sex adj NMR VLDL Int Offsp men ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000872">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000872</a>
Metabolic	Lipidsmen	menVLDLNMRIg4a	Multivariable adj NMR VLDL Lg Offsp men ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000882">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000882</a>
Metabolic	Lipidsmen	menVLDLNMRIg4b	Age-sex adj NMR VLDL Lg Offsp men ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000884">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000884</a>
Metabolic	Lipidsmen	menVLDLNMRIsm4a	Multivariable adj NMR VLDL Sm Offsp men ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000906">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000906</a>
Metabolic	Lipidsmen	menVLDLNMRIsm4b	Age-sex adj NMR VLDL Sm Offsp men ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000908">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000908</a>
Metabolic	Lipidsmen	menVLDLNMRIksz4a	Multivariable adj NMR VLDL Size Offsp men ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000894">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000894</a>
Metabolic	Lipidsmen	menVLDLNMRIksz4b	Age-sex adj NMR VLDL Size Offsp men ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000896">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000896</a>
Metabolic	Lipidswomen	womenApoB4a	Multivariable adj Plasma ApoB Level Offsp wom ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000920">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000920</a>
Metabolic	Lipidswomen	womenApoB4b	Age-sex adj Plasma ApoB Level Offsp wom ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000922">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000922</a>
Metabolic	Lipidswomen	womenchol1a	Multivariable adj Chol Offsp wom ex1	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000726">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000726</a>
Metabolic	Lipidswomen	womenchol1b	Age-sex adj Chol Offsp wom ex1	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000728">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000728</a>
Metabolic	Lipidswomen	womenchol2b	Age-sex adj Chol Offsp wom ex2	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000730">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000730</a>
Metabolic	Lipidswomen	womenchol3b	Age-sex adj Chol Offsp wom ex3	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000732">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000732</a>
Metabolic	Lipidswomen	womenchol4b	Age-sex adj Chol Offsp wom ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000734">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000734</a>
Metabolic	Lipidswomen	womenchol5b	Age-sex adj Chol Offsp wom ex5	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000736">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000736</a>
Metabolic	Lipidswomen	womenchol6b	Age-sex adj Chol Offsp wom ex6	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000738">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000738</a>
Metabolic	Lipidswomen	womenchol7b	Age-sex adj Chol Offsp wom ex7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000740">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000740</a>
Metabolic	Lipidswomen	womenhdl1a	Multivariable adj HDL Offsp wom ex1	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000758">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000758</a>
Metabolic	Lipidswomen	womenhdl1b	Age-sex adj HDL Offsp wom ex1	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000760">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000760</a>
Metabolic	Lipidswomen	womenhdl2b	Age-sex adj HDL Offsp wom ex2	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000762">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000762</a>
Metabolic	Lipidswomen	womenhdl3b	Age-sex adj HDL Offsp wom ex3	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000764">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000764</a>
Metabolic	Lipidswomen	womenhdl4b	Age-sex adj HDL Offsp wom ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000766">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000766</a>
Metabolic	Lipidswomen	womenhdl5b	Age-sex adj HDL Offsp wom ex5	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000768">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000768</a>
Metabolic	Lipidswomen	womenhdl6b	Age-sex adj HDL Offsp wom ex6	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000770">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000770</a>
Metabolic	Lipidswomen	womenhdl7b	Age-sex adj HDL Offsp wom ex7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000772">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000772</a>
Metabolic	Lipidswomen	womenHDLNMRIint4a	Multivariable adj NMR HDL Int Offsp wom ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000814">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000814</a>
Metabolic	Lipidswomen	womenHDLNMRIint4b	Age-sex adj NMR HDL Int Offsp wom ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000816">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000816</a>
Metabolic	Lipidswomen	womenHDLNMRIg4a	Multivariable adj NMR HDL Lg Offsp wom ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000822">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000822</a>
Metabolic	Lipidswomen	womenHDLNMRIg4b	Age-sex adj NMR HDL Lg Offsp wom ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000824">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000824</a>
Metabolic	Lipidswomen	womenHDLNMRIsm4a	Multivariable adj NMR HDL Sm Offsp wom ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000838">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000838</a>
Metabolic	Lipidswomen	womenHDLNMRIsm4b	Age-sex adj NMR HDL Sm Offsp wom ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000840">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000840</a>
Metabolic	Lipidswomen	womenHDLNMRIksz4a	Multivariable adj NMR HDL Size Offsp wom ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000832">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000832</a>
Metabolic	Lipidswomen	womenHDLNMRIksz4b	Age-sex adj NMR HDL Size Offsp wom ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000834">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000834</a>
Metabolic	Lipidswomen	womenldl1a	Multivariable adj LDL Offsp wom ex1	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000696">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000696</a>
Metabolic	Lipidswomen	womenldl1b	Age-sex adj LDL Offsp wom ex1	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000776">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000776</a>
Metabolic	Lipidswomen	womenldl2b	Age-sex adj LDL Offsp wom ex2	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000698">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000698</a>
Metabolic	Lipidswomen	womenldl3b	Age-sex adj LDL Offsp wom ex3	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000700">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000700</a>
Metabolic	Lipidswomen	womenldl4b	Age-sex adj LDL Offsp wom ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000702">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000702</a>
Metabolic	Lipidswomen	womenldl5b	Age-sex adj LDL Offsp wom ex5	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000704">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000704</a>

Online Table 1: Phenotypes Evaluated for Association using Population-based Analysis (GEE)

Group	Category	Trait Label	Name	GEE Link
Metabolic	Lipidswomen	womenldl6b	Age-sex adj LDL Offsp wom ex6	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000706">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000706</a>
Metabolic	Lipidswomen	womenldl7b	Age-sex adj LDL Offsp wom ex7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000708">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000708</a>
Metabolic	Lipidswomen	womenLDLNMRIg4a	Multivariable adj NMR LDL Lg Offsp wom ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000846">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000846</a>
Metabolic	Lipidswomen	womenLDLNMRIg4b	Age-sex adj NMR LDL Lg Offsp wom ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000848">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000848</a>
Metabolic	Lipidswomen	womenLDLNRsm4a	Multivariable adj NMR LDL Sm Offsp wom ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000862">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000862</a>
Metabolic	Lipidswomen	womenLDLNRsm4b	Age-sex adj NMR LDL Sm Offsp wom ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000864">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000864</a>
Metabolic	Lipidswomen	womenLDLNRsz4a	Multivariable adj NMR LDL Size Offsp wom ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000854">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000854</a>
Metabolic	Lipidswomen	womenLDLNRsz4b	Age-sex adj NMR LDL Size Offsp wom ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000856">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000856</a>
Metabolic	Lipidswomen	womenmeanhola	Multivariable adj Mean Chol Offsp wom ex1-7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000798">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000798</a>
Metabolic	Lipidswomen	womenmeancholb	Age-sex adj Mean Chol Offsp wom ex1-7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000800">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000800</a>
Metabolic	Lipidswomen	womenmeanhdla	Multivariable adj Mean HDL Offsp wom ex1-7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000806">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000806</a>
Metabolic	Lipidswomen	womenmeanhldb	Age-sex adj Mean HDL Offsp wom ex1-7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000808">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000808</a>
Metabolic	Lipidswomen	womenmeanldla	Multivariable adj Mean LDL Offsp wom ex1-7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000790">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000790</a>
Metabolic	Lipidswomen	womenmeanldlb	Age-sex adj Mean LDL Offsp wom ex1-7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000792">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000792</a>
Metabolic	Lipidswomen	womenmeantga	Multivariable adj Mean TG Offsp wom ex1-7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000782">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000782</a>
Metabolic	Lipidswomen	womenmeantgb	Age-sex adj Mean TG Offsp wom ex1-7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000784">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000784</a>
Metabolic	Lipidswomen	womentg1a	Multivariable adj TG Offsp wom ex1	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000652">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000652</a>
Metabolic	Lipidswomen	womentg1b	Age-sex adj TG Offsp wom ex1	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000654">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000654</a>
Metabolic	Lipidswomen	womentg2b	Age-sex adj TG Offsp wom ex2	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000656">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000656</a>
Metabolic	Lipidswomen	womentg3b	Age-sex adj TG Offsp wom ex3	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000658">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000658</a>
Metabolic	Lipidswomen	womentg4b	Age-sex adj TG Offsp wom ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000660">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000660</a>
Metabolic	Lipidswomen	womentg5b	Age-sex adj TG Offsp wom ex5	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000662">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000662</a>
Metabolic	Lipidswomen	womentg6b	Age-sex adj TG Offsp wom ex6	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000664">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000664</a>
Metabolic	Lipidswomen	womentg7b	Age-sex adj TG Offsp wom ex7	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000666">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000666</a>
Metabolic	Lipidswomen	womenVLDLNRint4a	Multivariable adj NMR VLDL Int Offsp wom ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000874">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000874</a>
Metabolic	Lipidswomen	womenVLDLNRint4b	Age-sex adj NMR VLDL Int Offsp wom ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000876">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000876</a>
Metabolic	Lipidswomen	womenVLDLNMRIg4a	Multivariable adj NMR VLDL Lg Offsp wom ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000886">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000886</a>
Metabolic	Lipidswomen	womenVLDLNMRIg4b	Age-sex adj NMR VLDL Lg Offsp wom ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000888">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000888</a>
Metabolic	Lipidswomen	womenVLDLNRsm4a	Multivariable adj NMR VLDL Sm Offsp wom ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000910">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000910</a>
Metabolic	Lipidswomen	womenVLDLNRsm4b	Age-sex NMR VLDL Sm Offsp wom ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000912">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000912</a>
Metabolic	Lipidswomen	womenVLDLNRsz4a	Multivariable adj NMR VLDL Size Offsp wom ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000898">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000898</a>
Metabolic	Lipidswomen	womenVLDLNRsz4b	Age-sex adj NMR VLDL Size Offsp wom ex4	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000900">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000900</a>
Pulmonary	Circadian	bedtime	usual weekday bedtime unadjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000006">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000006</a>
Pulmonary	Circadian	bedtimeresid	usual weekday bedtime adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000008">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000008</a>
Pulmonary	Circadian	sleepdur	usual weekday sleep duration unadjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000010">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000010</a>
Pulmonary	Circadian	sleepdurrenid	usual weekday sleep duration adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000012">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000012</a>
Pulmonary	longitudinal	fef2575long	rate of decline of FEF(25-75)	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000014">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000014</a>
Pulmonary	longitudinal	fef2575longsmoke10	rate of decline of FEF(25-75) in 10+ packyear smokers	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000016">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000016</a>
Pulmonary	longitudinal	feffvclong	rate of decline of FEF(25-75)/FVC	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000018">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000018</a>
Pulmonary	longitudinal	feffvclongsmoke10	rate of decline of FEF(25-75)/FVC in 10+ packyear smokers	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000020">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000020</a>
Pulmonary	longitudinal	fev1fvclong	rate of decline of FEV1/FVC	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000022">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000022</a>
Pulmonary	longitudinal	fev1fvclongsmoke10	rate of decline of FEV1/FVC in 10+ packyear smokers	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000024">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000024</a>
Pulmonary	longitudinal	fev1long	rate of decline of FEV1	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000026">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000026</a>
Pulmonary	longitudinal	fev1longsmoke10	rate of decline of FEV1 in 10+ packyear smokers	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000028">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000028</a>
Pulmonary	longitudinal	fvclong	rate of decline of FVC	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000030">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000030</a>
Pulmonary	longitudinal	fvclongsmoke10	rate of decline of FVC in 10+ packyear smokers	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000032">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000032</a>
Pulmonary	mean	genomefev1	mean FEV1 from 2 examinations	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000034">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000034</a>
Pulmonary	mean	genomefvc	mean FVC from 2 examinations	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000036">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000036</a>
Pulmonary	mean	generatio	mean FEV1/FVC from 2 examinations	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000038">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000038</a>
Pulmonary	ppcrosssectional	ppfefadj	percent predicted FEF(25-75) at latest exam	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000040">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000040</a>
Pulmonary	ppcrosssectional	ppfefadjsm10	percent predicted FEF(25-75) at latest exam in 10+ packyear smokers	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000042">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000042</a>
Pulmonary	ppcrosssectional	ppfefratadj	percent predicted FEF(25-75)/FVC at latest exam	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000044">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000044</a>
Pulmonary	ppcrosssectional	ppfefratadjsm10	percent predicted FEF(25-75)/FVC latest exam, 10+ packyear smokers	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000046">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000046</a>
Pulmonary	ppcrosssectional	ppfev1adj	percent predicted FEV1 at latest exam	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000048">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000048</a>
Pulmonary	ppcrosssectional	ppfev1adjsm10	percent predicted FEV1 at latest exam in 10+ packyear smokers	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000050">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000050</a>



Online Table 1: Phenotypes Evaluated for Association using Population-based Analysis (GEE)

Group	Category	Trait Label	Name	GEE Link
Pulmonary	ppcrosssectional	ppfvcadj	percent predicted FVC at latest exam	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000052">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000052</a>
Pulmonary	ppcrosssectional	ppfvcadjsm10	percent predicted FVC at latest exam in 10+ packyear smokers	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000054">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000054</a>
Pulmonary	ppcrosssectional	ppratioadj	percent predicted FEV1/FVC at latest exam	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000056">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000056</a>
Pulmonary	ppcrosssectional	ppratioadjsm10	percent predicted FEV1/FVC at latest exam in 10+ packyear smokers	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000058">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000058</a>
Pulmonary	rcrosssectional	rfevadaj	residual from predicted FEF(25-75) at latest exam	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000060">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000060</a>
Pulmonary	rcrosssectional	rfevadajsm10	residual from predicted FEF(25-75) at latest exam in 10+ packyear smokers	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000062">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000062</a>
Pulmonary	rcrosssectional	rfefratadj	residual from predicted FEF(25-75)/FVC at latest exam	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000064">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000064</a>
Pulmonary	rcrosssectional	rfefratadjsm10	residual from predicted FEF(25-75)/FVC latest exam in 10+ packyear smokers	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000066">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000066</a>
Pulmonary	rcrosssectional	rfev1adj	residual from predicted FEV1 at latest exam	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000068">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000068</a>
Pulmonary	rcrosssectional	rfev1adjsm10	residual from predicted FEV1 at latest exam in 10+ packyear smokers	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000070">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000070</a>
Pulmonary	rcrosssectional	rvcadj	residual from predicted FVC at latest exam	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000072">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000072</a>
Pulmonary	rcrosssectional	rvcadjsm10	residual from predicted FVC at latest exam in 10+ packyear smokers	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000074">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000074</a>
Pulmonary	rcrosssectional	rratioadj	residual from predicted FEV1/FVC at latest exam	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000076">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000076</a>
Pulmonary	rcrosssectional	rratioadjsm10	residual from predicted FEV1/FVC at latest exam in 10+ packyear smokers	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000078">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000078</a>
Pulmonary	SDB	rdiresid	apnea-hypopnea index with 4% desaturation adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000080">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000080</a>
Pulmonary	singleexam	ppfev1single	percent predicted FEV1, exam: offspring 6, cohort 17	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000082">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000082</a>
Pulmonary	singleexam	ppfvcsingle	percent predicted FVC, exam: offspring 6, cohort 17	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000084">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000084</a>
Pulmonary	singleexam	ppratiosingle	percent predicted FEV1/FVC, exam: offspring 6, cohort 17	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000086">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000086</a>
Pulmonary	singleexam	rfev1single	residual from predicted FEV1, exam: offspring 6, cohort 17	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000088">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000088</a>
Pulmonary	singleexam	rfvcsingle	residual from predicted FVC, exam: offspring 6, cohort 17	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000090">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000090</a>
Pulmonary	singleexam	rvcratiosingle	residual from predicted FEV1/FVC, exam: offspring 6, cohort 17	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000092">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000092</a>
Pulmonary	Sleepiness	ess	Epworth Sleepiness Scale, unadjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000094">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000094</a>
Pulmonary	Sleepiness	essresid1	Epworth Sleepiness Scale, adjusted A	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000096">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000096</a>
Pulmonary	Sleepiness	essresid2	Epworth Sleepiness Scale, adjusted B	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000098">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000098</a>
Pulmonary	Sleepiness	essresid3	Epworth Sleepiness Scale, adjusted C	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000100">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000100</a>
RENALENDO	ENDO	DHEASAS3	DHEAS adjusted for age and sex	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001220">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001220</a>
RENALENDO	ENDO	DHEASMV3	DHEAS MV adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001222">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001222</a>
RENALENDO	ENDO	FSHAS3	FSH in men or post meno women no hormones, age-sex adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001224">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001224</a>
RENALENDO	ENDO	FSHMV3	FSH in men or post meno women no hormones, MV adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001226">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001226</a>
RENALENDO	ENDO	LHAS3	LH in men or post-meno women no hormones, age-sex adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001228">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001228</a>
RENALENDO	ENDO	LHMV3	LH in men or post-meno women no hormones, MV adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001230">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001230</a>
RENALENDO	ENDO	TSHLNAS3	TSH from ex3 log transformed, age-sex adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001232">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001232</a>
RENALENDO	ENDO	TSHLNAS4	TSH from ex4 log transformed, age-sex adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001234">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001234</a>
RENALENDO	ENDO	TSHLNMV3	TSH ex3 log transformed, MV adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001236">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001236</a>
RENALENDO	ENDO	TSHLNMV4	TSH ex4 log transformed, MV adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001238">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001238</a>
RENALENDO	ENDO	TSHMEAN34LNAS	Mean TSH log transformed, mean of ex3 and ex4, age sex adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001240">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001240</a>
RENALENDO	ENDO	TSHMEAN34LNMV	Mean TSH ex3 and 4, MV adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001242">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001242</a>
RENALENDO	RENAL	CALCIUMAS2	Calcium, ex2, age-sex adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001244">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001244</a>
RENALENDO	RENAL	CALCIUMMV2	Calcium, ex2, age-sex-creatinine adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001246">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001246</a>
RENALENDO	RENAL	CHNGSCR27ASWIN	Change in creatinine ex2 to 7, age-sex adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001248">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001248</a>
RENALENDO	RENAL	CHNGSCR27MVWIN	Change in creatinine ex2 to 7, MV adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001250">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001250</a>
RENALENDO	RENAL	CKDAS7	CKD ex 7, age-sex adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001252">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001252</a>
RENALENDO	RENAL	CKDMV7	CKD ex 7, MV adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001254">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001254</a>
RENALENDO	RENAL	CYSCAS7	Cystatin C, ex 7, age-sex adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001328">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001328</a>
RENALENDO	RENAL	CYSCMV7	Cystatin C, ex 7, MV adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001330">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001330</a>
RENALENDO	RENAL	GFRAS5	GFR ex 5, age-sex adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001256">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001256</a>
RENALENDO	RENAL	GFRAS6	GFR ex 6, age-sex adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001258">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001258</a>
RENALENDO	RENAL	GFRAS7	GFR ex 7, age-sex adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001260">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001260</a>
RENALENDO	RENAL	GFRASWIN2	GFR ex2, winsorized, age-sex adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001262">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001262</a>
RENALENDO	RENAL	GFRMV5	GFR ex5, MV adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001264">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001264</a>
RENALENDO	RENAL	GFRMV6	GFR ex6, MV adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001266">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001266</a>
RENALENDO	RENAL	GFRMV7	GFR ex7, MV adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001268">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001268</a>
RENALENDO	RENAL	GFRMVWIN2	GFR ex2, winsorized, MV adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001270">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001270</a>
RENALENDO	RENAL	MeanGFRAS2567WIN	Mean GFR ex 2,5,6,7 age-sex adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001272">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001272</a>
RENALENDO	RENAL	MeanGFRMV2567WIN	Mean GFR ex 2,5,6,7,MV adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001274">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001274</a>

Online Table 1: Phenotypes Evaluated for Association using Population-based Analysis (GEE)

Group	Category	Trait Label	Name	GEE Link
RENALEND	RENAL	MeanSCR2567LNASWIN	Mean creatinine ex 2,5,6,7 age-sex adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001276">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001276</a>
RENALEND	RENAL	MeanSCR2567LNMVWIN	Mean creatinine ex 2,5,6,7, MV adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001278">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001278</a>
RENALEND	RENAL	MeanURICACID12AS	Mean uric acid, ex 1 and 2, age-sex adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001280">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001280</a>
RENALEND	RENAL	MeanURICACID12MV	Mean uric acid, ex 1 and 2, MV adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001282">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001282</a>
RENALEND	RENAL	PHOSAS2	Phos, ex 2, age-sex adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001284">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001284</a>
RENALEND	RENAL	PHOSMV2	Phos, ex 2, MV adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001286">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001286</a>
RENALEND	RENAL	SCRLNAS5	Creatinine, ex5, age-sex adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001288">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001288</a>
RENALEND	RENAL	SCRLNAS6	Creatinine, ex6, age-sex adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001290">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001290</a>
RENALEND	RENAL	SCRLNASWIN2	Creatinine ex2, log transformed and winsorized, age-sex adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001292">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001292</a>
RENALEND	RENAL	SCRLNASWIN7	Creatinine ex7, log transformed and winsorized, age-sex adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001294">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001294</a>
RENALEND	RENAL	SCRLNMV5	GFR ex 5 uncalibrated creatinine, MV adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001296">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001296</a>
RENALEND	RENAL	SCRLNMV6	GFR ex 6 uncalibrated creatinine, MV adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001298">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001298</a>
RENALEND	RENAL	SCRLNMVWIN2	Creatinine ex 2 log transformed winsorized MV adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001300">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001300</a>
RENALEND	RENAL	SCRLNMVWIN7	Creatinine ex 7 uncalibrated MV adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001302">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001302</a>
RENALEND	RENAL	UAEGE30HTNAS6	UAE of at least 30 in enriched hypertensive sample, age-sex adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001304">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001304</a>
RENALEND	RENAL	UAEGE30HTNMV6	UAE of at least 30 in enriched hypertensive sample, age-sex adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001306">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001306</a>
RENALEND	RENAL	UAE LNAS6	Log-transformed UAE, age-sex adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001308">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001308</a>
RENALEND	RENAL	UAE LNHTNAS6	Log-transformed UAE in HTN enriched sample, age-sex adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001310">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001310</a>
RENALEND	RENAL	UAE LNHTNMV6	Log-transformed UAE in HTN enriched sample, MV adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001312">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001312</a>
RENALEND	RENAL	UAE LN MV6	Log-transformed UAE, MV adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001314">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001314</a>
RENALEND	RENAL	UNALNASWIN6	Urinary sodium, age-sex adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001316">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001316</a>
RENALEND	RENAL	UNALNMVWIN6	Urinary sodium, MV adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001318">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001318</a>
RENALEND	RENAL	URICACIDAS1	Uric acid, ex 1, age-sex adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001320">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001320</a>
RENALEND	RENAL	URICACIDAS2	Uric acid, ex 2, age-sex adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001322">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001322</a>
RENALEND	RENAL	URICACIDMV1	Uric acid, ex1, MV adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001324">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001324</a>
RENALEND	RENAL	URICACIDMV2	Uric acid, ex2, MV adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001326">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha001326</a>
SubclinCVD	Ankle-brachialindex	RANKLEBI6	Ankle-brachial index, cycle 6, age and sex-djusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000928">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000928</a>
SubclinCVD	Ankle-brachialindex	RANKLEBI6MV	Ankle-brachial index, cycle 6, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000930">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000930</a>
SubclinCVD	Ankle-brachialindex	RANKLEBI7	Ankle-brachial index, cycle 7, age- and sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000932">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000932</a>
SubclinCVD	Ankle-brachialindex	RANKLEBI7MV	Ankle-brachial index, cycle 7, multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000934">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000934</a>
SubclinCVD	BrainMRI	BMRILWMHVC	Log white matter hyperintensity to intracranial volume ratio, age and sex	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000936">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000936</a>
SubclinCVD	BrainMRI	BMRILWMHVMV	Log white matter hyperintensity to intracranial volume ratio, multivariable	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000938">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000938</a>
SubclinCVD	BrainMRI	BMRIZLWMHVC	Z-score log white matter hyperintensity volume ratio, sex adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000940">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000940</a>
SubclinCVD	BrainMRI	BMRIZLWMHVMV	Z-score log white matter hyperintensity volume ratio, multivariable	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000942">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000942</a>
SubclinCVD	Carotid	RNKCAROTBULBAS6	Carotid bulb IMT mean max, cycle 6, log transformed age and sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000944">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000944</a>
SubclinCVD	Carotid	RNKCAROTBULBMV6	Carotid bulb IMT mean max, cycle 6, log transformed multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000946">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000946</a>
SubclinCVD	Carotid	RNKCAROTCCAMAXAS6	Common carotid IMT mean max, cycle 6, log transformed age and sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000948">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000948</a>
SubclinCVD	Carotid	RNKCAROTCCAMAXMV6	Common carotid IMT mean max, cycle 6, log transformed multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000950">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000950</a>
SubclinCVD	Carotid	RNKCAROTCCAMEANAS6	Common carotid IMT mean mean, cycle 6, log transformed age and sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000952">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000952</a>
SubclinCVD	Carotid	RNKCAROTCCAMEANMV6	Common carotid IMT mean mean, cycle 6, log transformed multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000954">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000954</a>
SubclinCVD	Carotid	RNKCAROTICAMAXAS6	Internal carotid IMT mean max, cycle 6, log transformed age and sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000956">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000956</a>
SubclinCVD	Carotid	RNKCAROTICAMAXMV6	Internal carotid IMT mean max, cycle 6, log transformed multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000958">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000958</a>
SubclinCVD	Carotid	RNKCAROTICAMEANAS6	Internal carotid IMT mean mean, cycle 6, log transformed age and sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000960">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000960</a>
SubclinCVD	Carotid	RNKCAROTICAMEANMV6	Internal carotid IMT mean mean, cycle 6, log transformed multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000962">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000962</a>
SubclinCVD	Carotid	RNKCAROTSTENAS6	Maximum Carotid Stenosis, cycle 6, age and sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000964">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000964</a>
SubclinCVD	Carotid	RNKCAROTSTENMV6	Maximum Carotid Stenosis, cycle 6 multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000966">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000966</a>
SubclinCVD	CT	RESMDCTAACAS7	Mean Agatston AAC score, MDCT ~cycle 7, log transform, age and sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000968">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000968</a>
SubclinCVD	CT	RESMDCTAACMV7	Mean Agatston AAC score, MDCT ~cycle 7, log transform multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000970">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000970</a>
SubclinCVD	CT	RESMDCTCACAS7	Mean Agatston CAC score, MDCT ~cycle 7, log transform age and sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000972">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000972</a>
SubclinCVD	CT	RESMDCTCACMAXAS7	Max Agatston CAC score, MDCT ~cycle 7, log transform age and sex-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000974">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000974</a>
SubclinCVD	CT	RESMDCTCACMAXMV7	Max Agatston CAC score, MDCT ~cycle 7, log transform multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000976">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000976</a>
SubclinCVD	CT	RESMDCTCACMV7	Mean Agatston CAC score, MDCT ~cycle 7, log transform multivariable-adjusted	<a href="http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000978">http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/analysis.cgi?id=pha000978</a>