

Supplementary Data 1: Descriptive characteristics of sample stratified by gender (men and women) and by regions (West, South and East)

Supplementary Data 2: Analysis of top SNPs variants in the combined analysis by regions (West, South and East)

Supplementary Data 3: Summary of SNPs with p-value $<10^{-4}$ in at least one of the analysis

Supplementary Data 4: Selected SNPs ($p < 1E-06$) for the sex-difference test

Supplementary Data 5: Summary of look-up from previously reported variants for cIMT

Supplementary Data 6: Summary of regions indicative of local replication from previously reported loci for cIMT

Supplementary Data 7: Look-up in Gwas Catalog for all SNPs with p-value $<10^{-4}$ in at least one of the analysis

Supplementary Data 8a: Functional annotation for selected SNPs associated ($p < 1E-05$) with cIMT in the combined analysis

Supplementary Data 8b: Functional annotation for selected SNPs associated ($p < 1E-05$) with cIMT in the Female analysis

Supplementary Data 8c: Functional annotation for selected SNPs associated ($p < 1E-05$) with cIMT in the Male analysis

Supplementary Data 9a: Genes implicated by positional, eQTL, or chromatin interaction mapping of SNPs associated with cIMT in the combined analysis

Supplementary Data 9b: Genes implicated by positional, eQTL, or chromatin interaction mapping of SNPs associated with cIMT in the Female analysis

Supplementary Data 9c: Genes implicated by positional, eQTL, or chromatin interaction mapping of SNPs associated with cIMT in the Male analysis

Supplementary Data 10a: Gene-sets with significant enrichment for genes associated with gene-smoking interaction for cIMT based on positional, eQTL, or chromatin interaction of suggestive SNPs ($p < 1E-05$) with cIMT in the combined analysis.

Supplementary Data 10b: Gene-sets with significant enrichment for genes associated with gene-smoking interaction for cIMT based on positional, eQTL, or chromatin interaction of suggestive SNPs ($p < 1E-05$) with cIMT in the female analysis.

Supplementary Data 10c: Gene-sets with significant enrichment for genes associated with gene-smoking interaction for cIMT based on positional, eQTL, or chromatin interaction of suggestive SNPs ($p < 1E-05$) with cIMT in the male analysis.

Supplementary Data 11: Post-hoc power calculations based on Gwas significant results