

Figure E1: ARDS develops by ICU day 1 in 80% of subjects who develop sepsis-associated ARDS

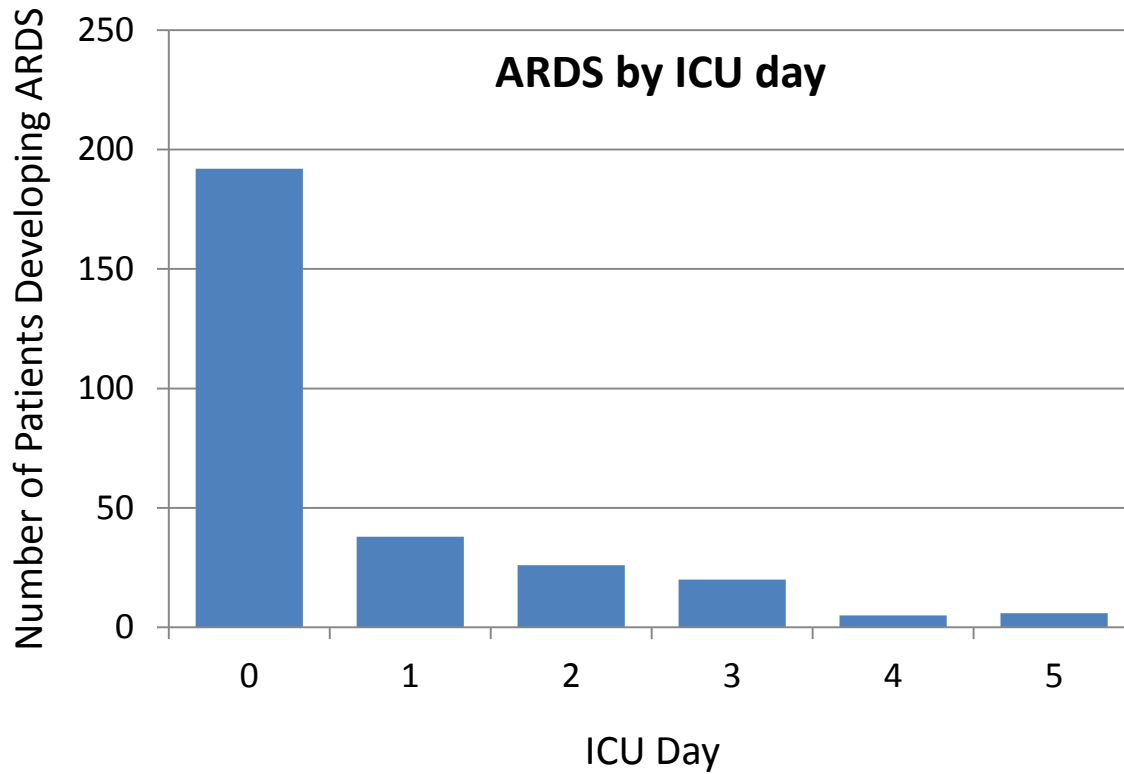
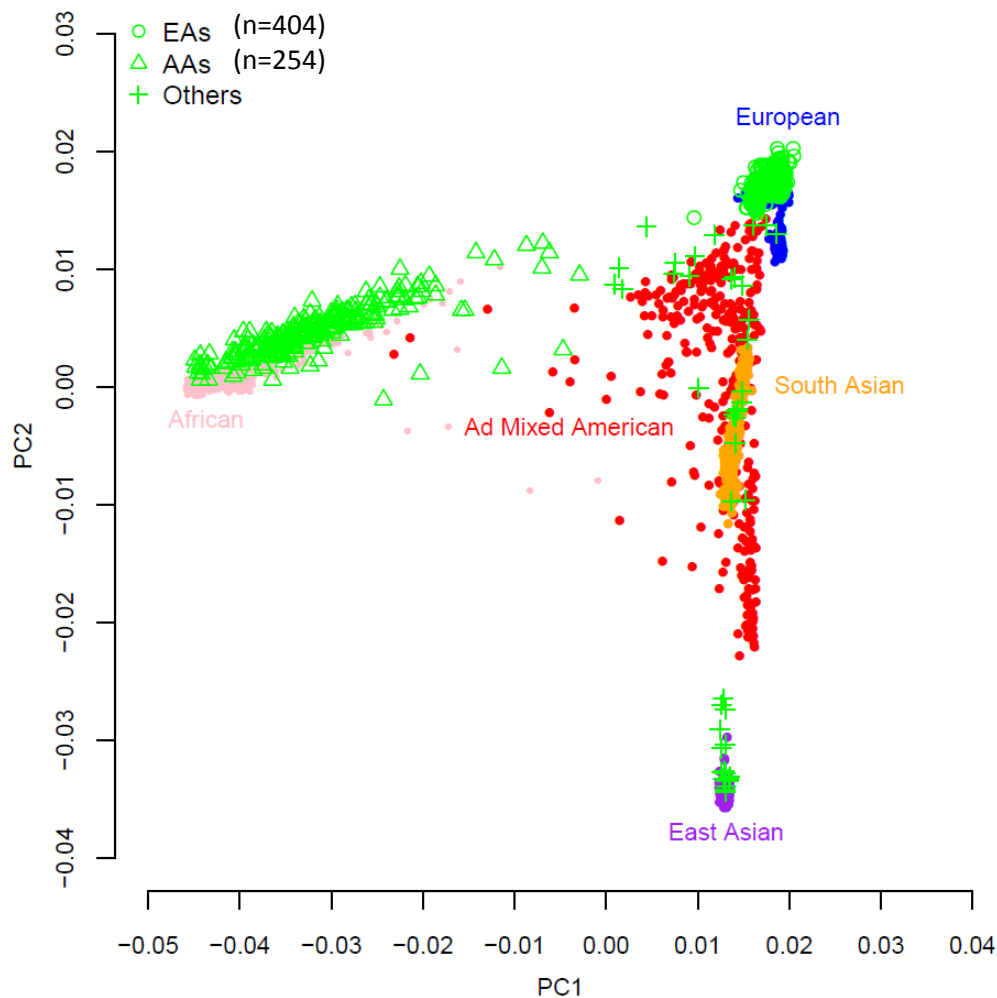


Figure E2: Genetic ancestry determination by principal components analysis (a) and linkage disequilibrium structure in *ANGPT2* (b)

a) Genetic ancestry



b) Linkage disequilibrium blocks

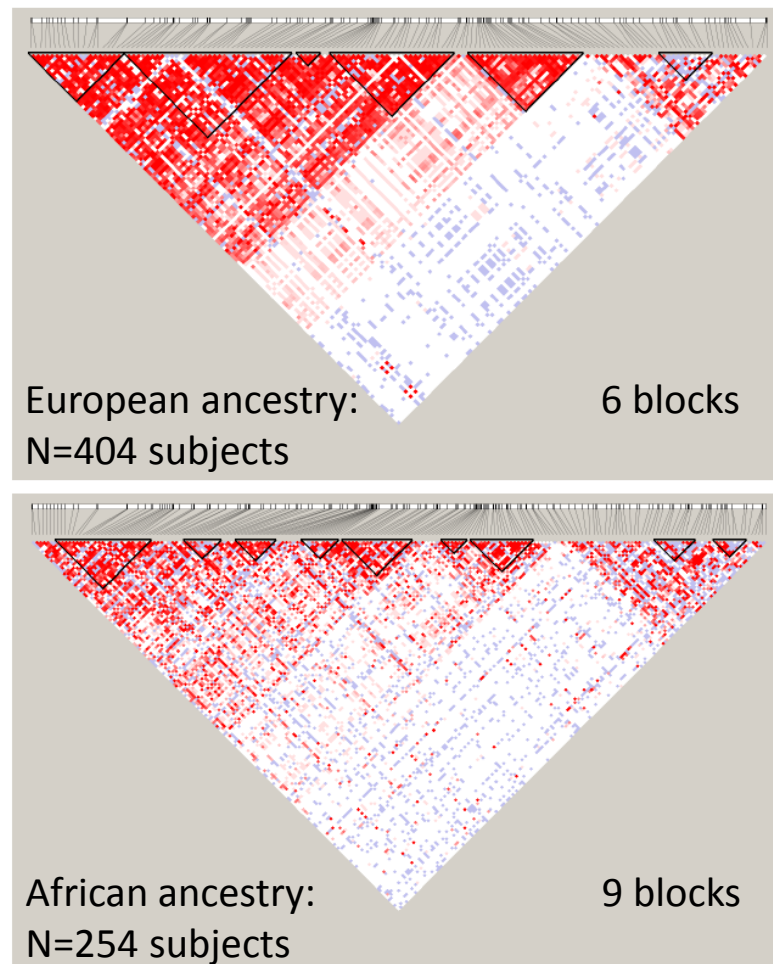


Figure E3: MESSI study population

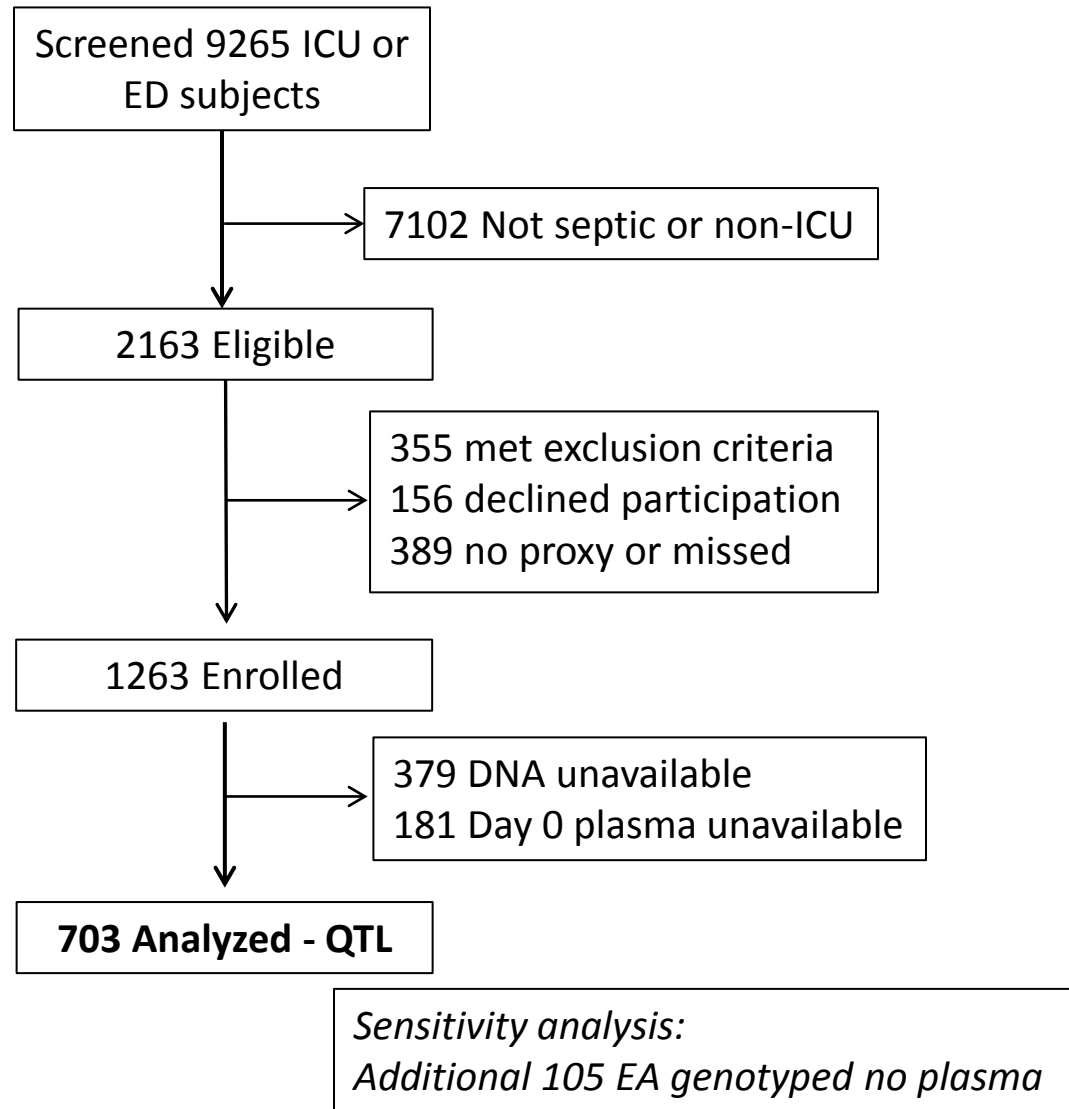
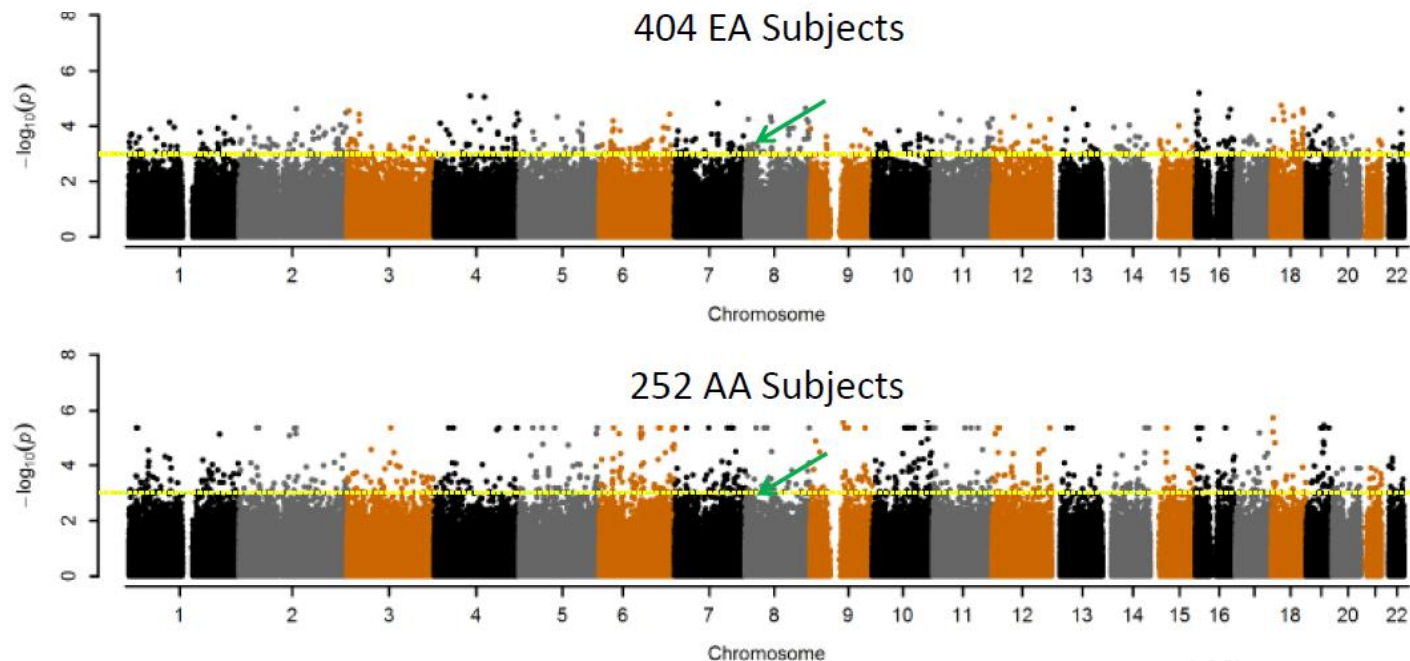
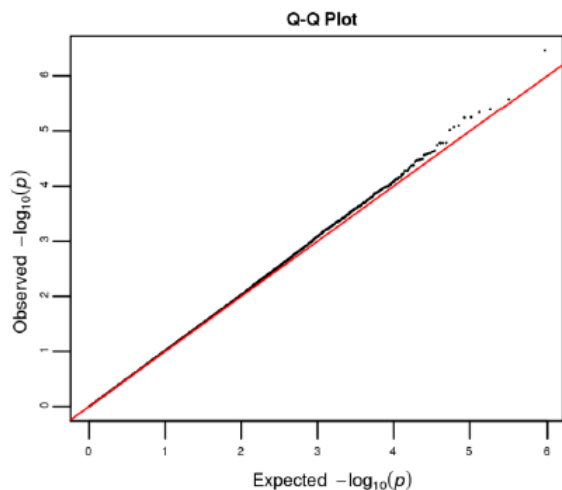


Figure E4: Association between *ANGPT2* locus (Chromosome 8p23.1) and plasma ANG2 varies between European and African ancestry subjects. The *ANGPT2* locus is shown the green arrows.

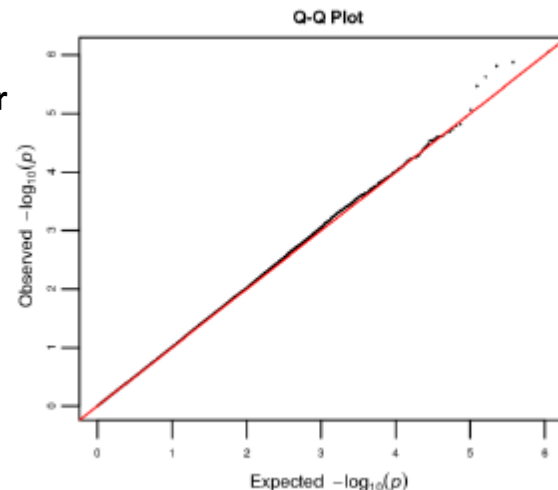
A. ANG2 QTL Analysis



B. Genomic inflation factor (λ) in EA: 1.021

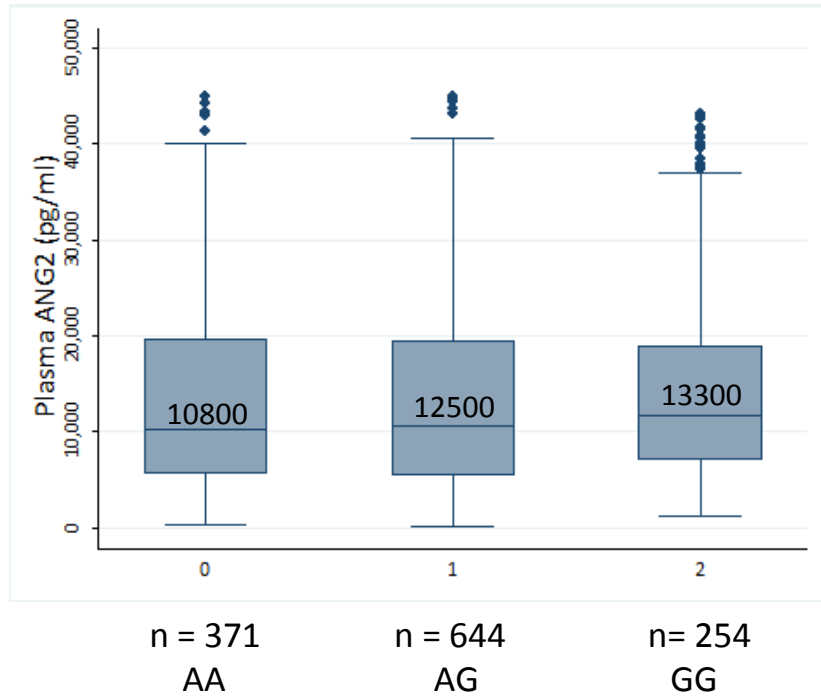


C. Genomic inflation factor (λ) in AA: 1.020



E5a

rs2442608
p = 0.006



E5b

rs2515466
p < 0.001

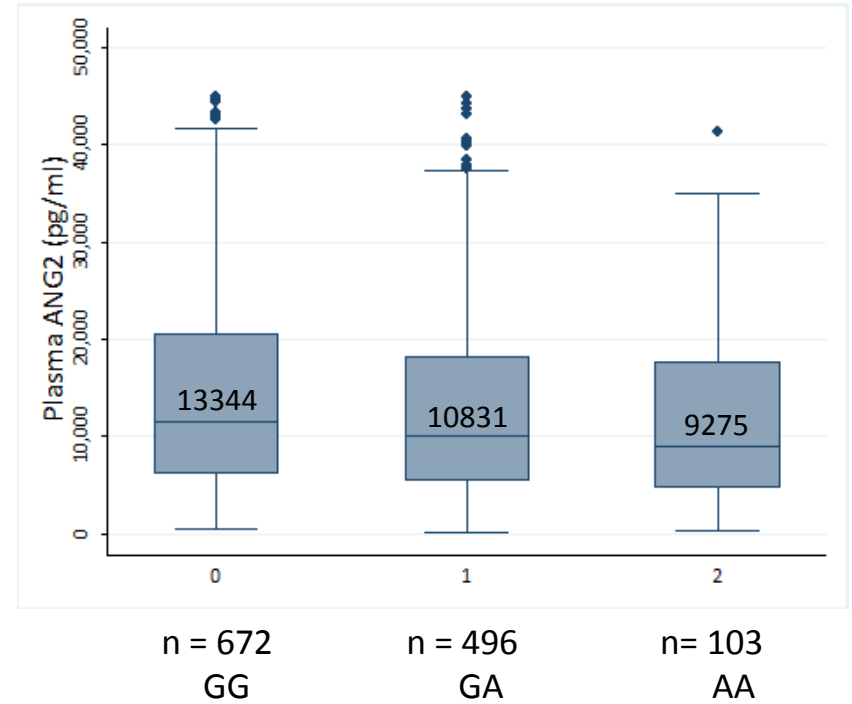


Figure E5: Plasma ANG2 concentration associations with 2 *ANGPT2* SNPs, rs2442608 (a) and rs2515466 (b). Median, interquartile range, and 95% confidence intervals are shown for all subjects included in the meta-analysis. Linear regression was used to test the association of each SNP with plasma ANG2 assuming an additive model.