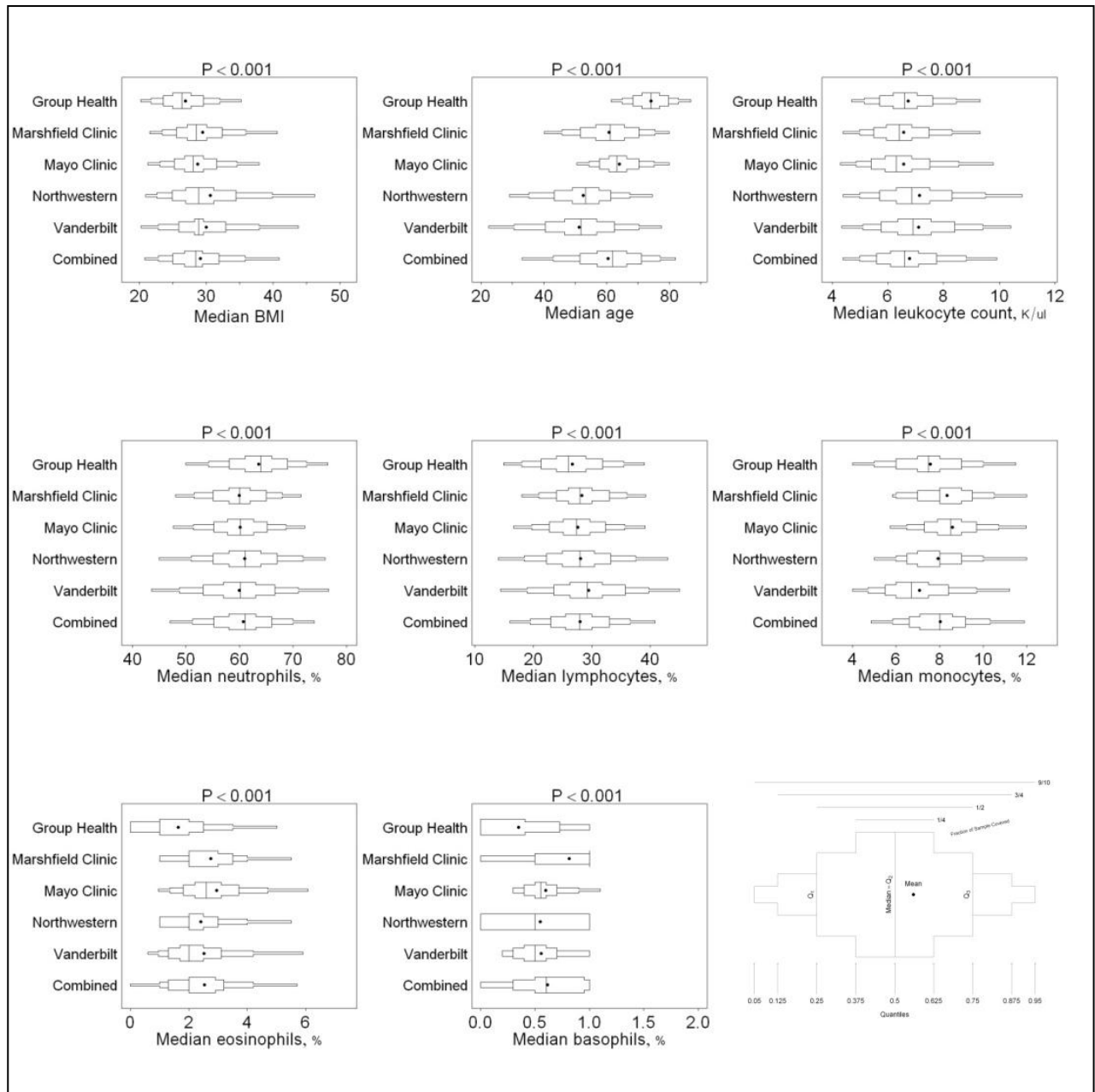
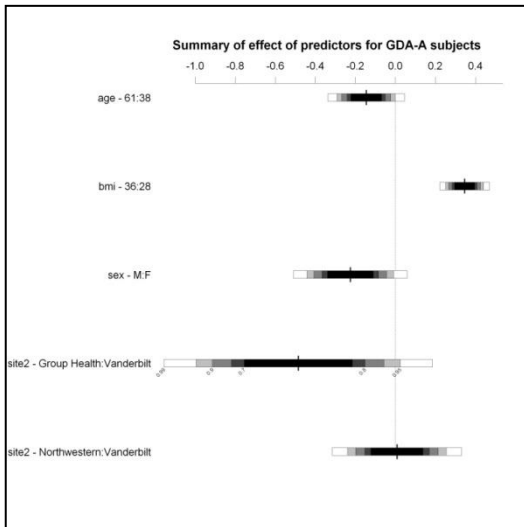


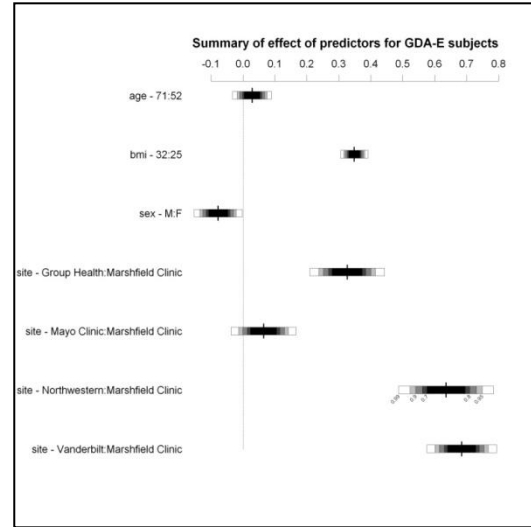
**Supplemental** Figure S1: Plots of eigenvectors 1 and 2 using PCA. Principal components analysis of 17,150 eMERGE subjects from all field centers, anchored by HapMap controls. Color-coding is according to self-identified or self-observed race.



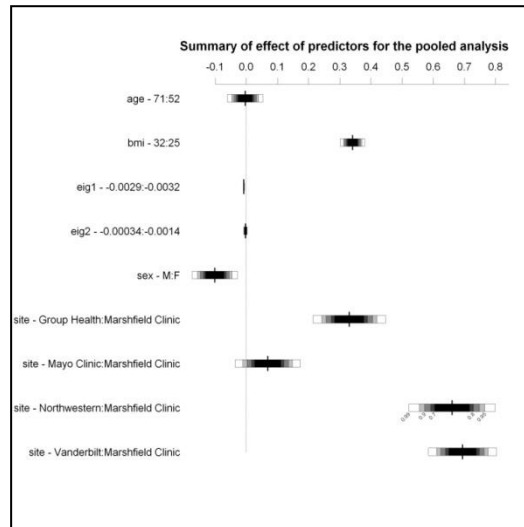
**Supplemental** Figure S2: Box-percentile plots of median age, median BMI, median leukocyte count and median differentials. The bottom right plot is an annotated example showing the layout of the box-percentile plots. P-values listed are from the Kruskal-Wallis test as listed in Table 2.



**a.**

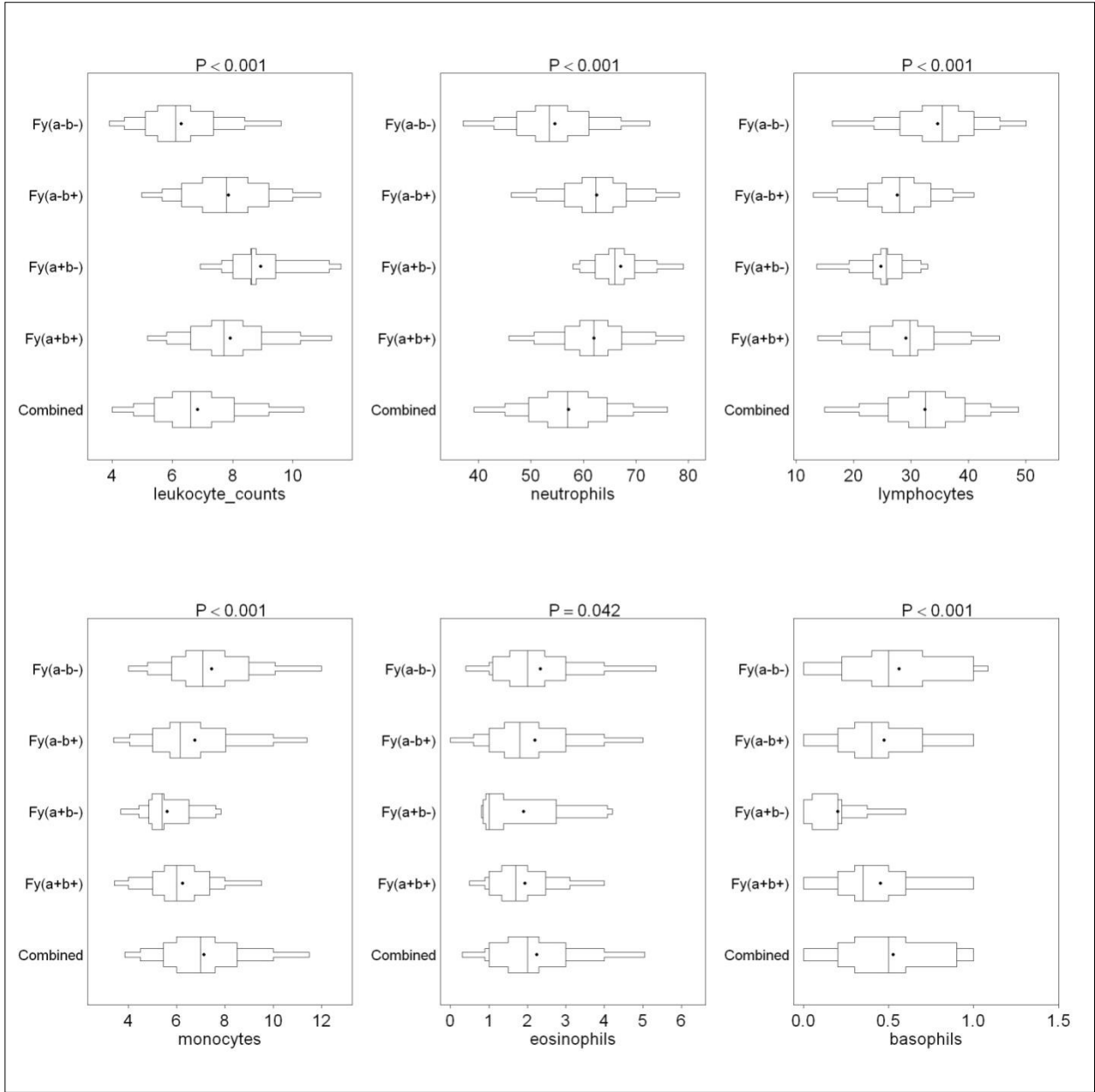


**b.**



**c.**

**Supplemental** Figure S3: Summary of effects of predictors on WBC in the (a.) AA, (b.) EE and (c.) pooled models. Continuous variables are compared using default ranges (interquartile).



**Supplemental** Figure S4: Box-percentile plots of median leukocyte count and median differentials by Duffy phenotype (Fya+b+, Fya+b-, Fya-b+, Fya-b-) in the subjects of African ancestry. The bottom right plot in Figure 1 is an annotated example showing the layout of the box-percentile plots. P-values listed are from the Kruskal-Wallis test.

Supplemental Table 1: Summary of effects of loci that reached genome-wide significance for the pooled analyses by study site.

	Group Health		Marshfield		Mayo		Northwestern		Vanderbilt		
	$\beta$	p-value	$\beta$	p-value	$\beta$	p-value	$\beta$	p-value	$\beta$	p-value	
<b>1q21, DARC</b>											
	0.0	6.30E-	-	8.37E-	-			2.27E-			
rs12075	2	01	0.06	02	0.0	7	9.42E-02	0.10	01	0.10	5.69E-02
<b>17q21.1, GSDMA</b>											
	0.0	3.50E-		5.06E-	0.1			1.27E-			
rs3894194	4	01	0.09	03	1	1.06E-02	0.19	02	0.12	7.70E-03	
	0.0	2.48E-		3.36E-	0.2			1.68E-			
rs3859192	9	02	0.10	03	0	3.37E-06	0.18	02	0.13	4.06E-03	
<b>17q21.1, PSMD3</b>											
	0.1	5.27E-		1.64E-	0.1			1.81E-			
rs4065321	4	04	0.10	03	5	7.60E-04	0.19	02	0.15	3.95E-04	
<b>17q21.1, MED24</b>											
	-				-						
	0.1	9.49E-	-	8.41E-	0.1			1.29E-			
rs9916158	1	03	0.13	05	8	4.58E-05	-0.13	01	-0.09	6.79E-02	