

SUPPLEMENTAL MATERIAL

Table S1. Sensitivity Analysis among Chinese MESA Participants Not Taking Antihypertensive Medications for Significant SNPs.

rsID	SNP term			Interaction term			covariance	Joint <i>P</i>
	Beta	SE	<i>P</i>	Beta	SE	<i>P</i>		
<i>Systolic Blood Pressure</i>								
rs16882447	72.64	24.37	6.90E-03	-1.54	0.50	5.63E-03	-11.92	1.99E-02
<i>Pulse Pressure</i>								
rs958929	17.61	7.06	2.06E-02	-0.37	0.15	2.35E-02	-1.06	6.39E-02

Table S2. Significant variants associated with urinary potassium levels in the *RANBP3L* gene in GenSalt.

SNP	EA	EAF	RSq	CHR	Position (build 36)	functions	Gene	Beta	SE	<i>P</i>
rs884693	T	0.857	0.683	5	36337131	Intronic	<i>RANBP3L</i>	1.77	0.51	6.00E-04
rs10063851	G	0.868	0.656	5	36319756	Intronic	<i>RANBP3L</i>	1.74	0.52	9.00E-04
rs10071638	T	0.868	0.656	5	36319704	Intronic	<i>RANBP3L</i>	1.74	0.52	9.00E-04

EA=effect allele; EAF=effect allele frequency; SE=standard error

Figure S1. QQ Plots of SNP-Potassium Interaction Analysis Results for Systolic Blood Pressure (a), Diastolic Blood Pressure (b), Mean Arterial Pressure (c), and Pulse Pressure (d) Using 1 degree of freedom test.

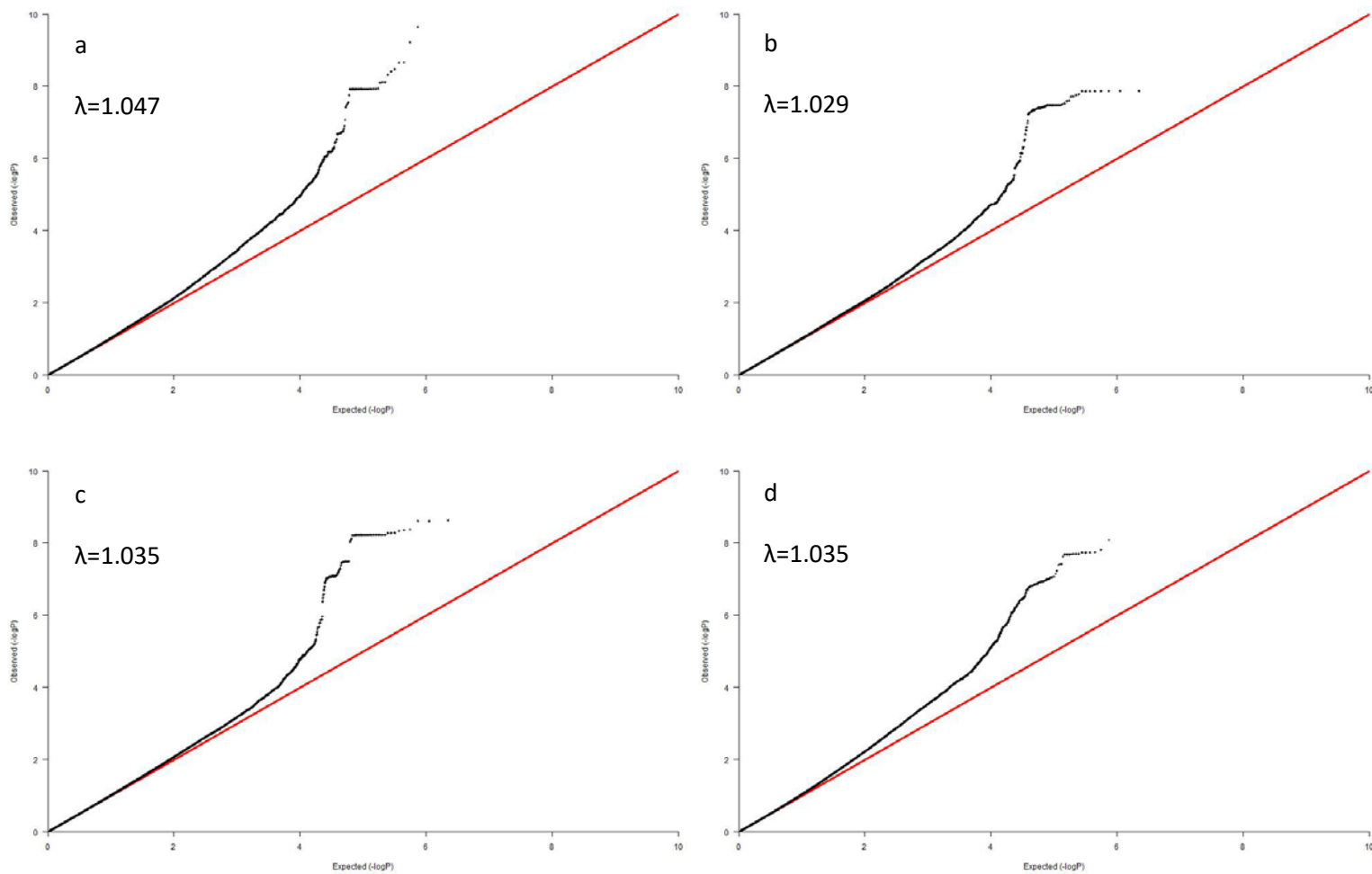


Figure S2. QQ Plots of SNP-Potassium Interaction Analysis Results for Systolic Blood Pressure (a), Diastolic Blood Pressure (b), Mean Arterial Pressure (c), and Pulse Pressure (d) Using 2 degree of freedom test.

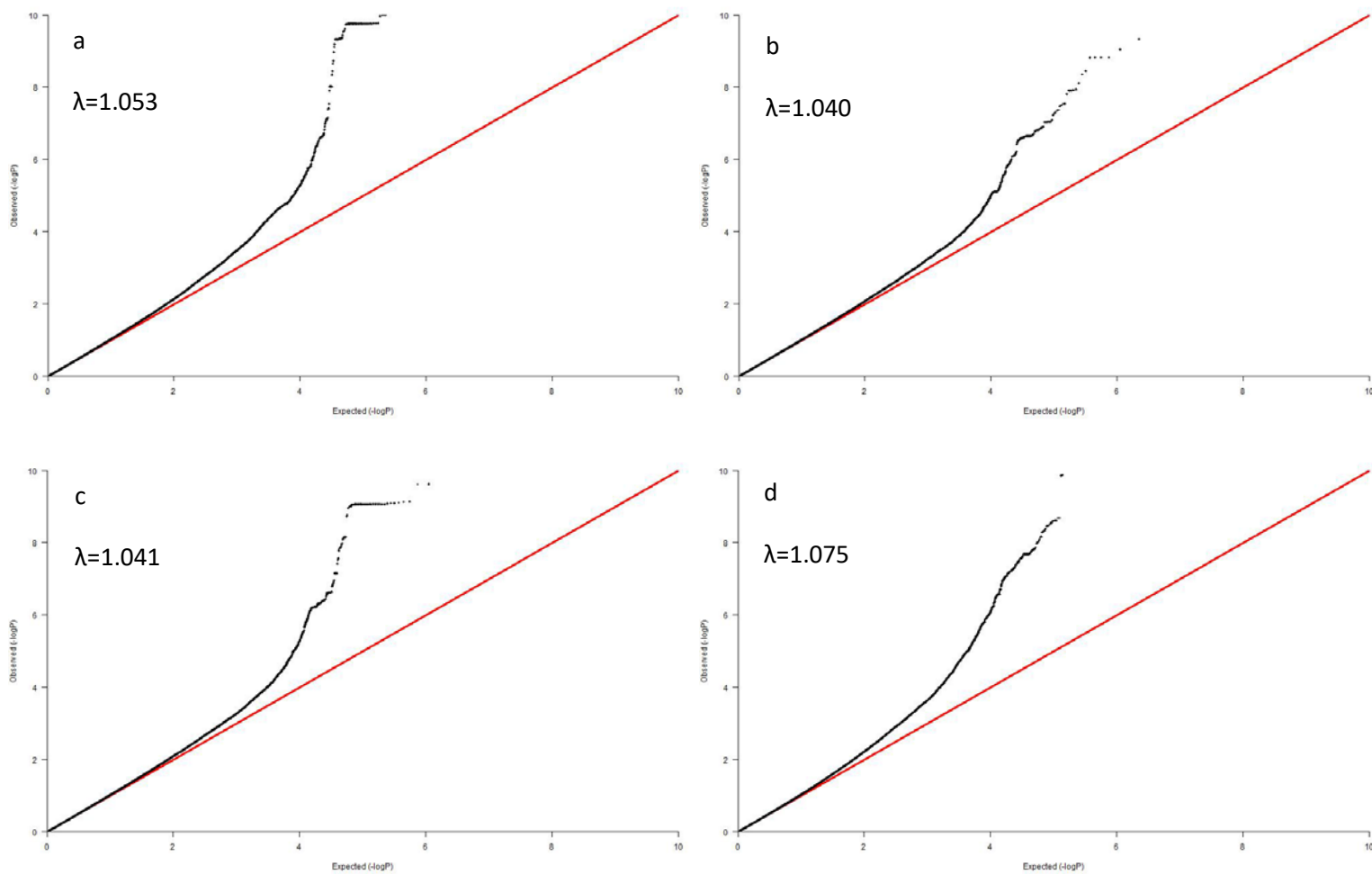


Figure S3. QQ Plots of Gene-based Analysis Results for Systolic Blood Pressure (a), Diastolic Blood Pressure (b), Mean Arterial Pressure (c), and Pulse Pressure (d) Using 1 degree of freedom test.

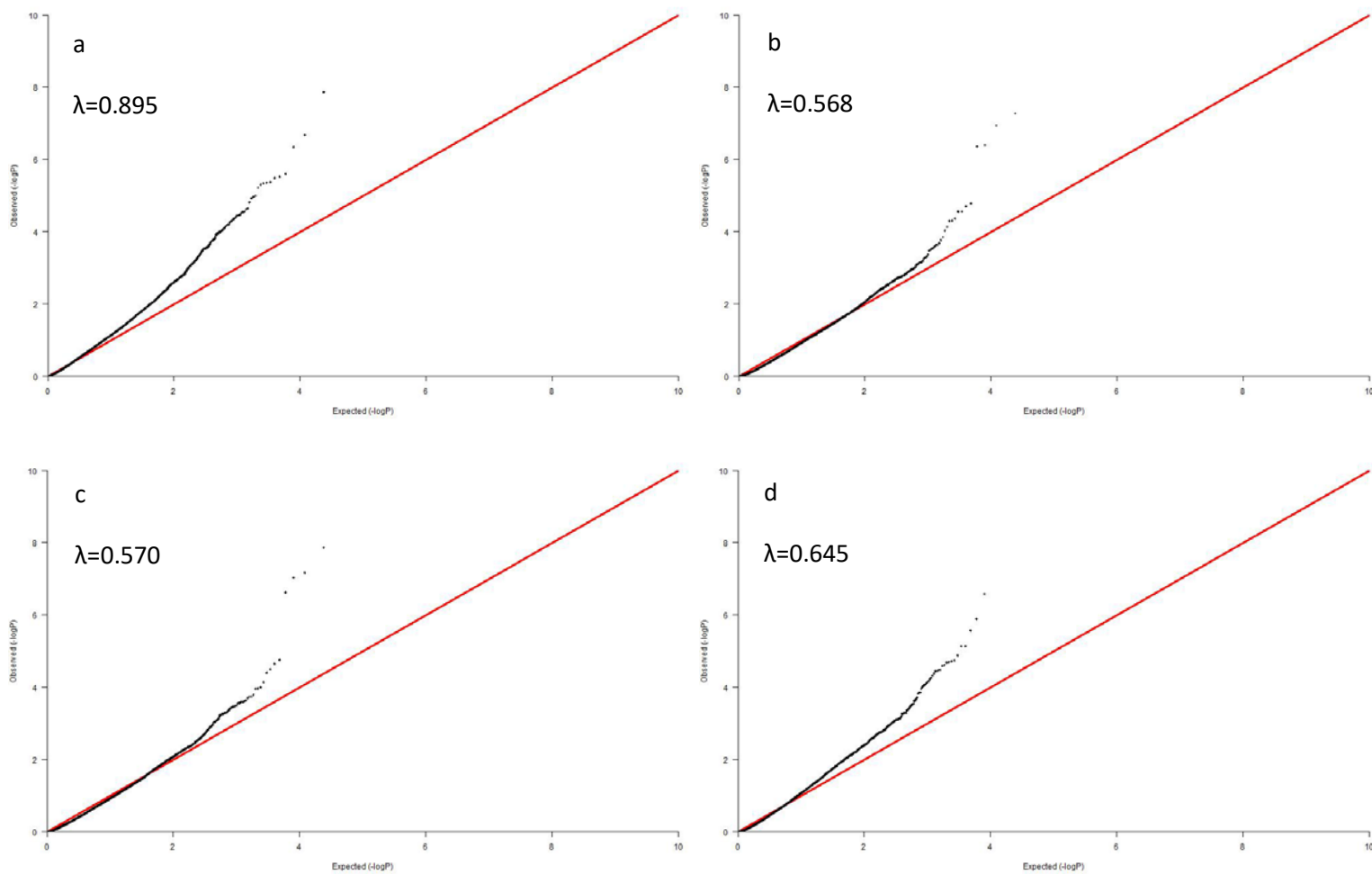


Figure S4. QQ Plots of Gene-based Analysis Results for Systolic Blood Pressure (a), Diastolic Blood Pressure (b), Mean Arterial Pressure (c), and Pulse Pressure (d) Using 2 degree of freedom test.

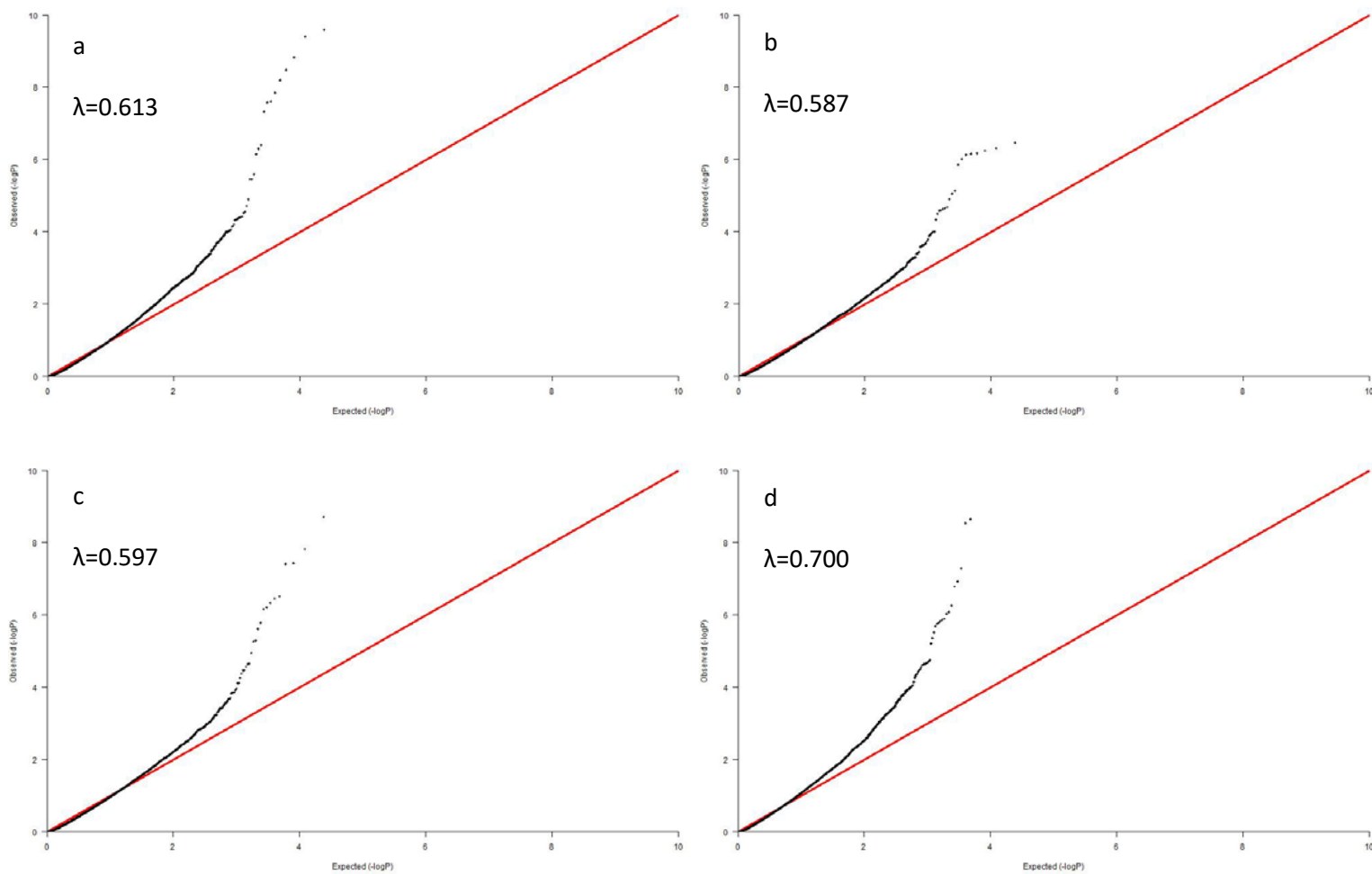


Figure S5. Manhattan Plots of SNP-Potassium Interaction Analysis Results for Systolic Blood Pressure Using 1 degree of freedom test (above) and 2 degree of freedom joint test (below).

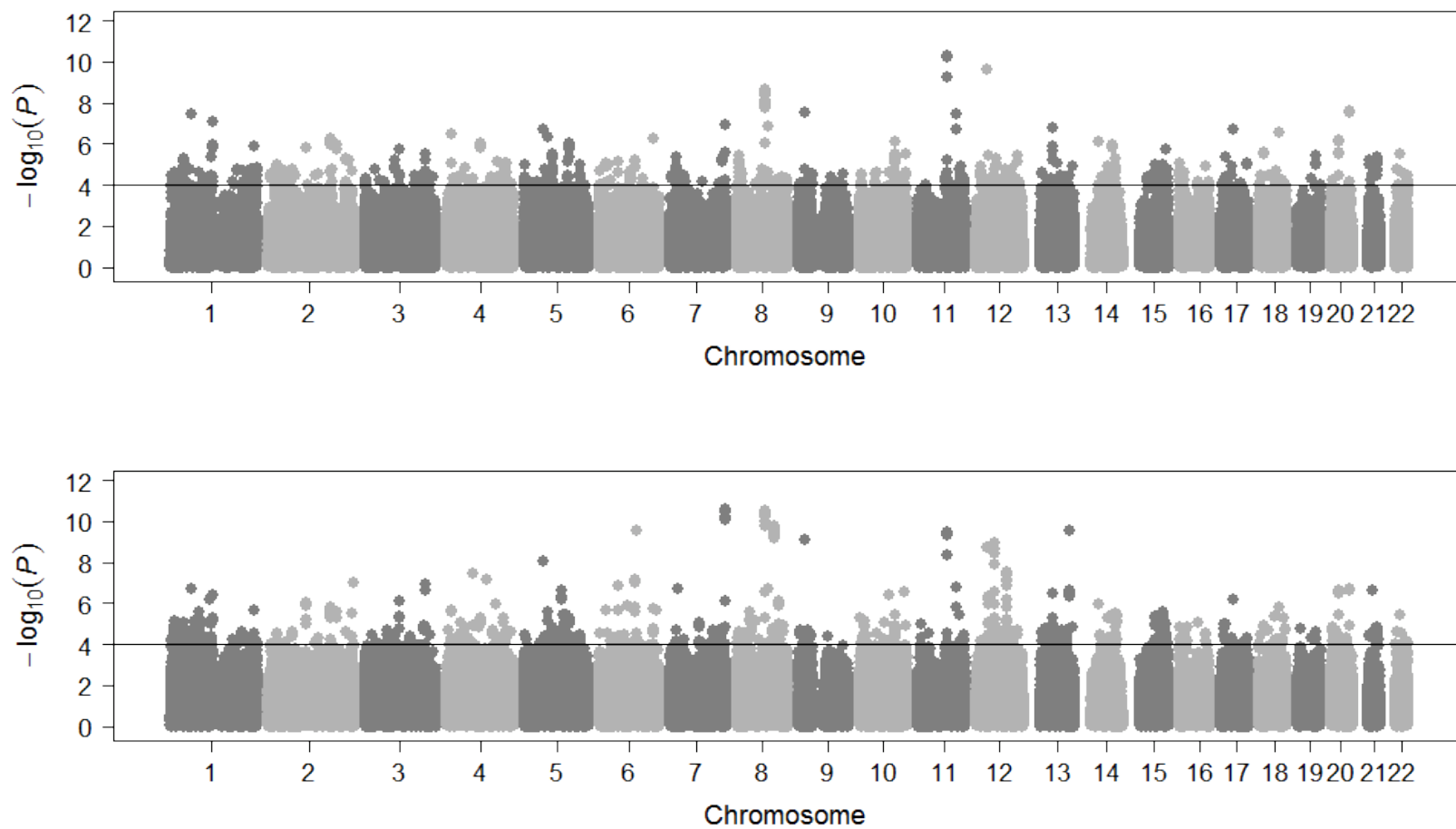


Figure S6. Manhattan Plots of SNP-Potassium Interaction Analysis Results for Diastolic Blood Pressure Using 1 degree of freedom test (above) and 2 degree of freedom joint test (below).

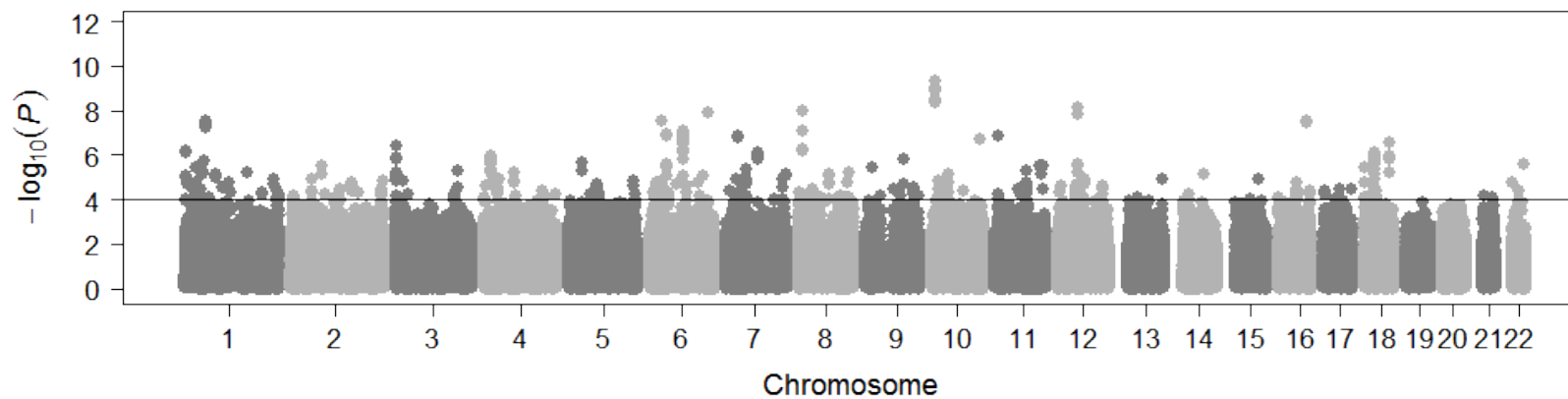
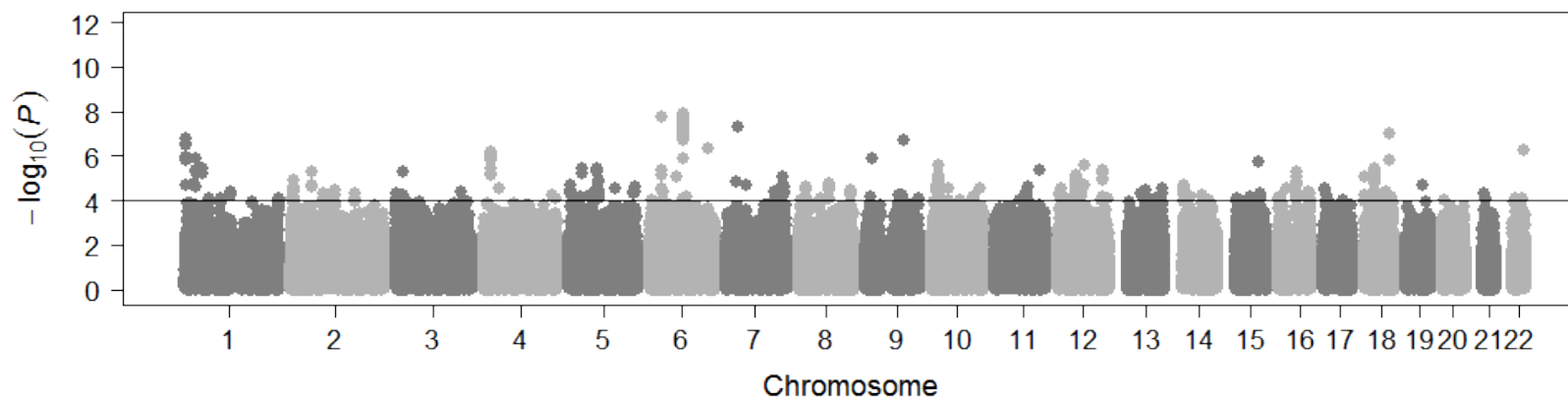


Figure S7. Manhattan Plots of SNP-Potassium Interaction Analysis Results for Mean Arterial Pressure Using 1 degree of freedom test (above) and 2 degree of freedom joint test (below).

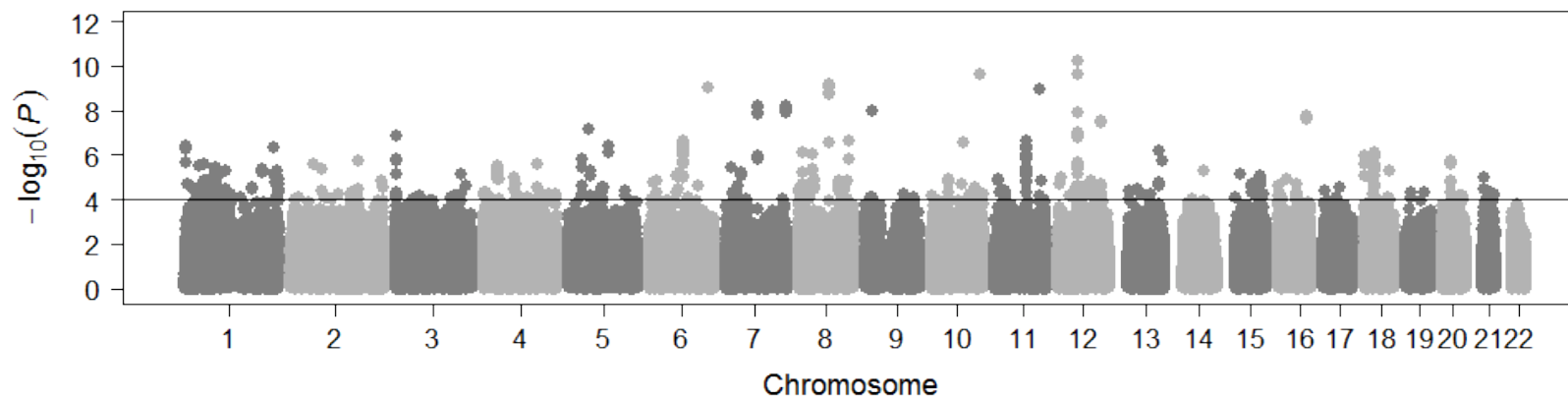
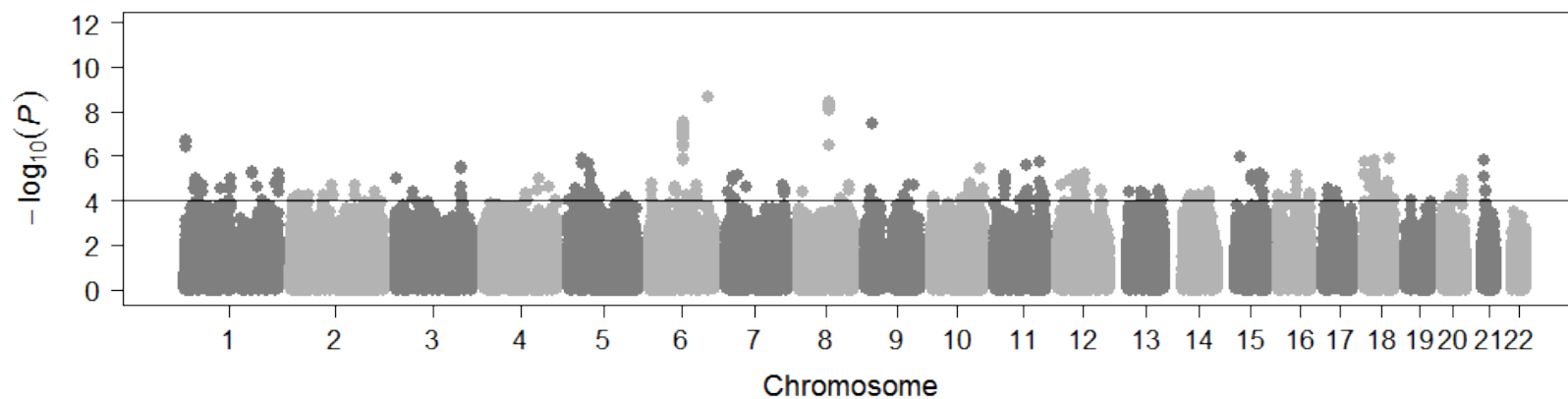


Figure S8. Manhattan Plots of SNP-Potassium Interaction Analysis Results for Pulse Pressure Using 1 degree of freedom test (above) and 2 degree of freedom joint test (below).

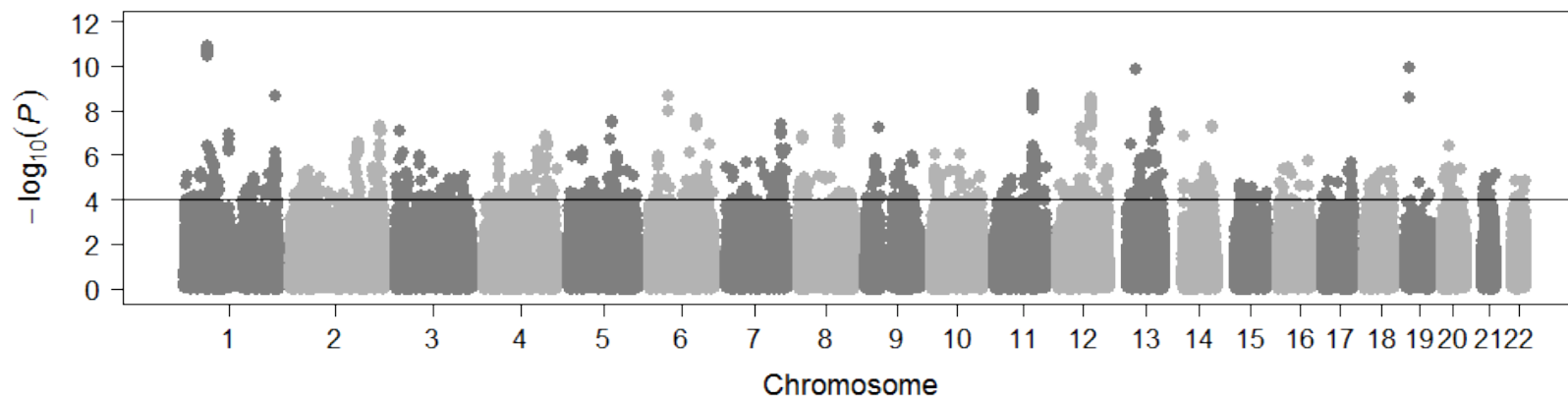
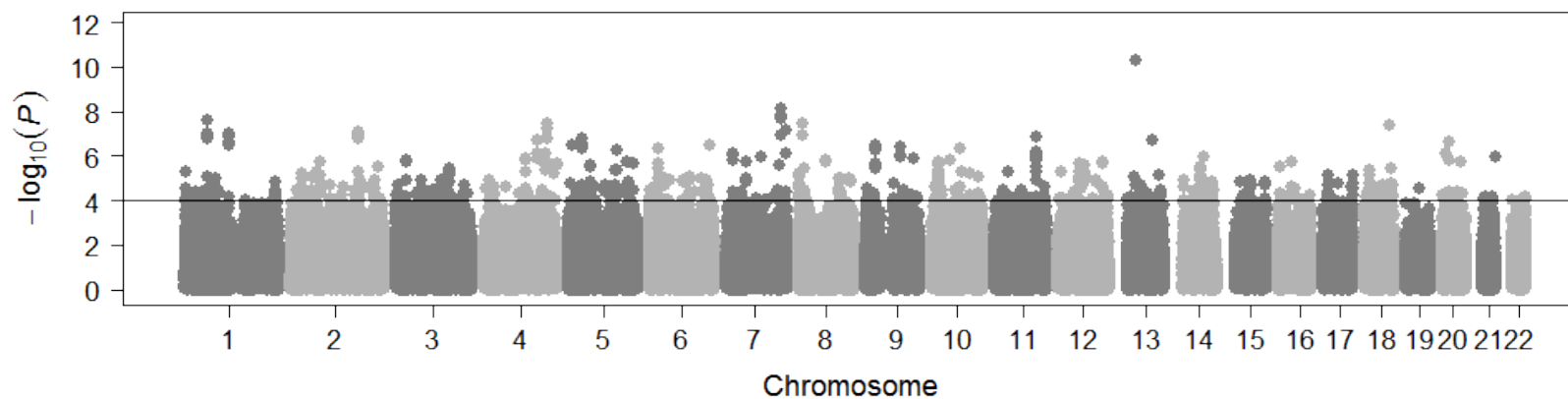


Figure S9. Correlations between imputed dosage for rs16882447 and systolic blood pressure stratified by median level of urine potassium in GenSalt.

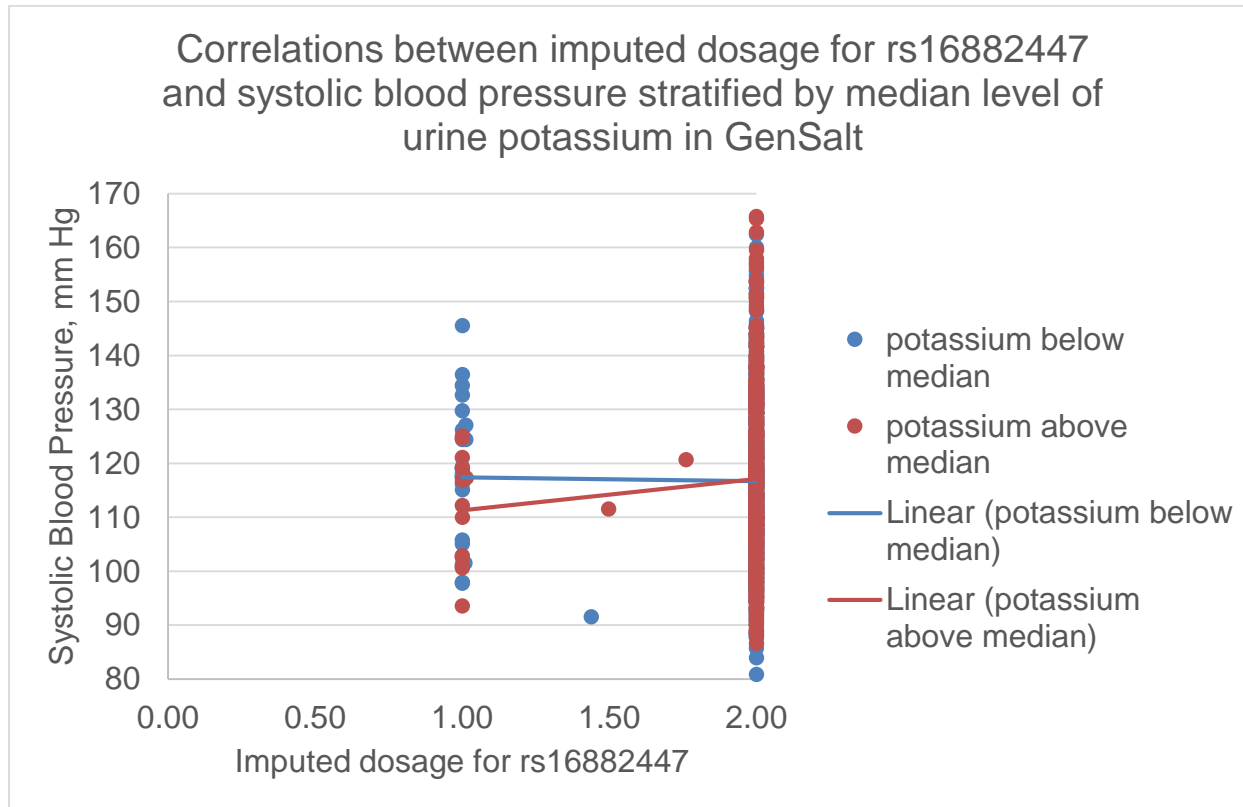


Figure S10. Correlations between imputed dosage for rs16882447 and systolic blood pressure stratified by median level of urine potassium in MESA.

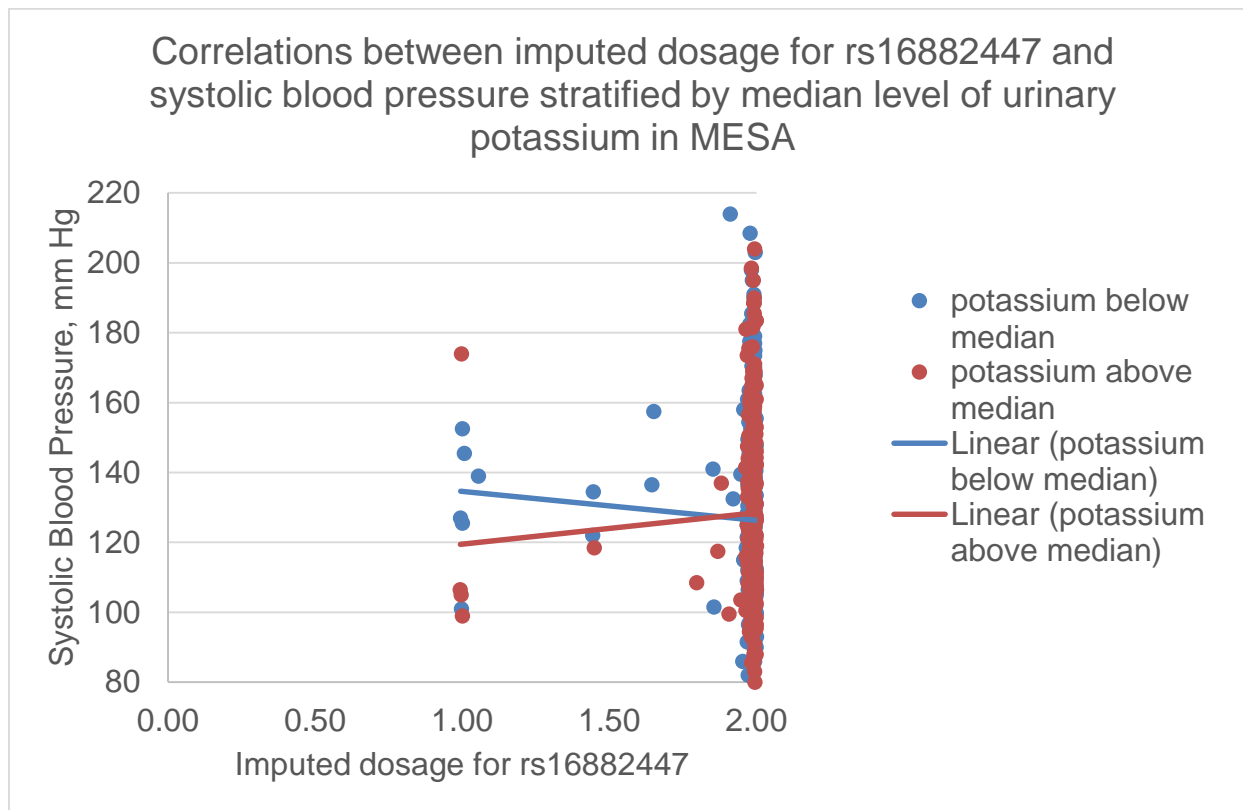


Figure S11. Correlations between imputed dosage for rs958929 and pulse pressure stratified by median level of urine potassium in GenSalt.

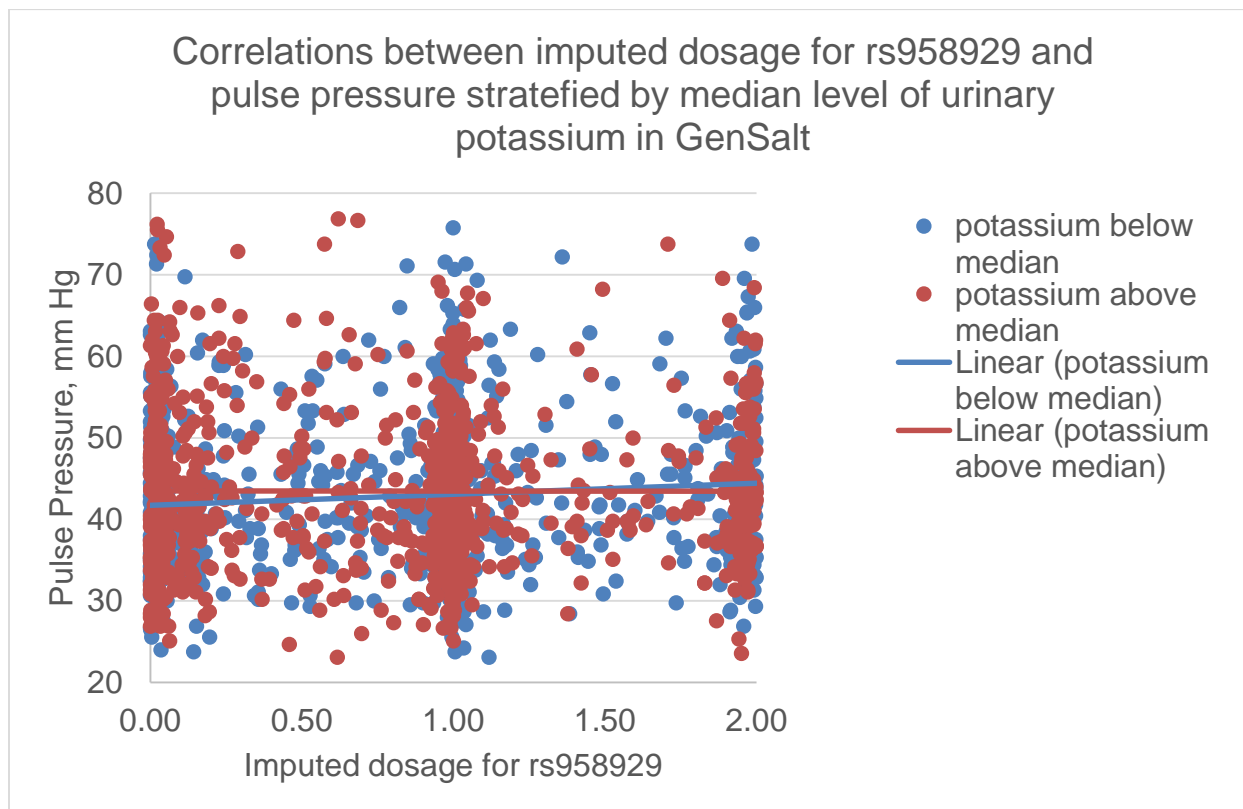


Figure S12. Correlations between imputed dosage for rs958929 and pulse pressure stratified by median level of urine potassium in MESA.

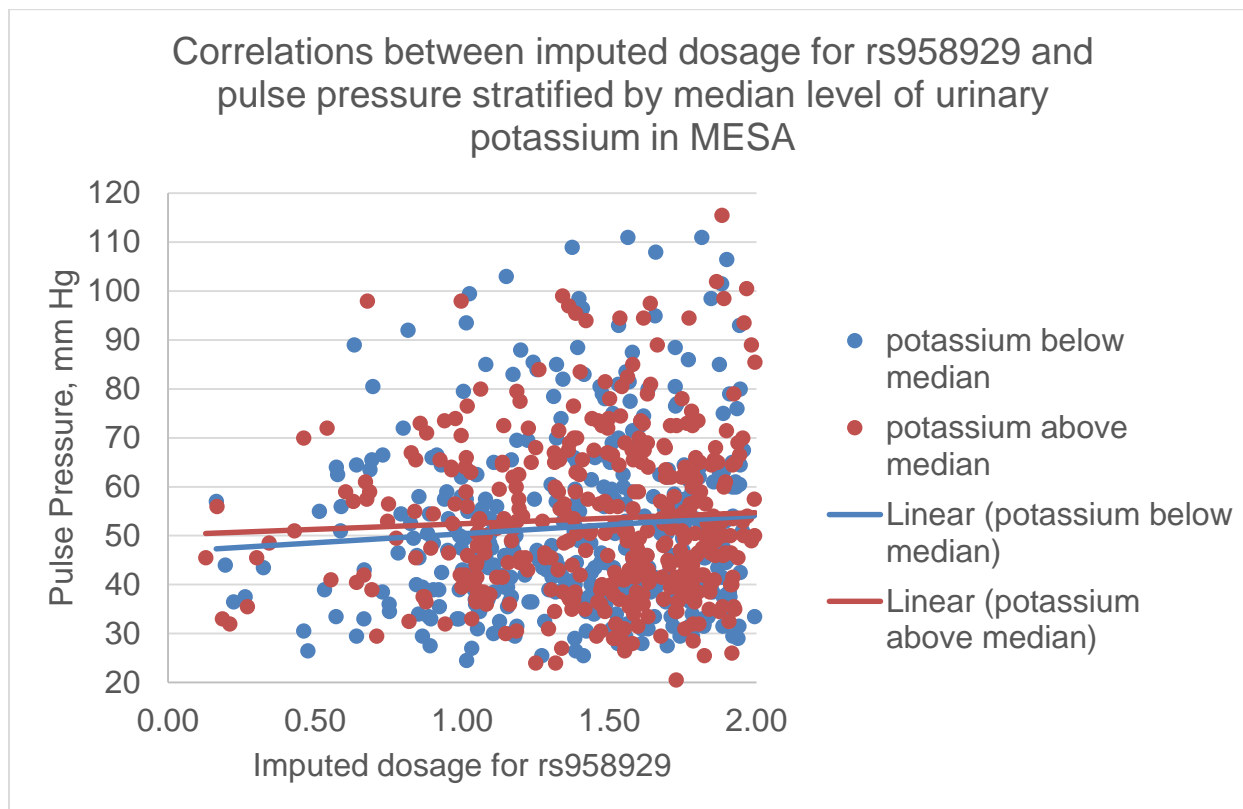


Figure S13. Manhattan Plots of Gene-based Analysis Results from 1 degree of freedom test (above) and 2 degree of freedom joint test (below) for Systolic Blood Pressure.

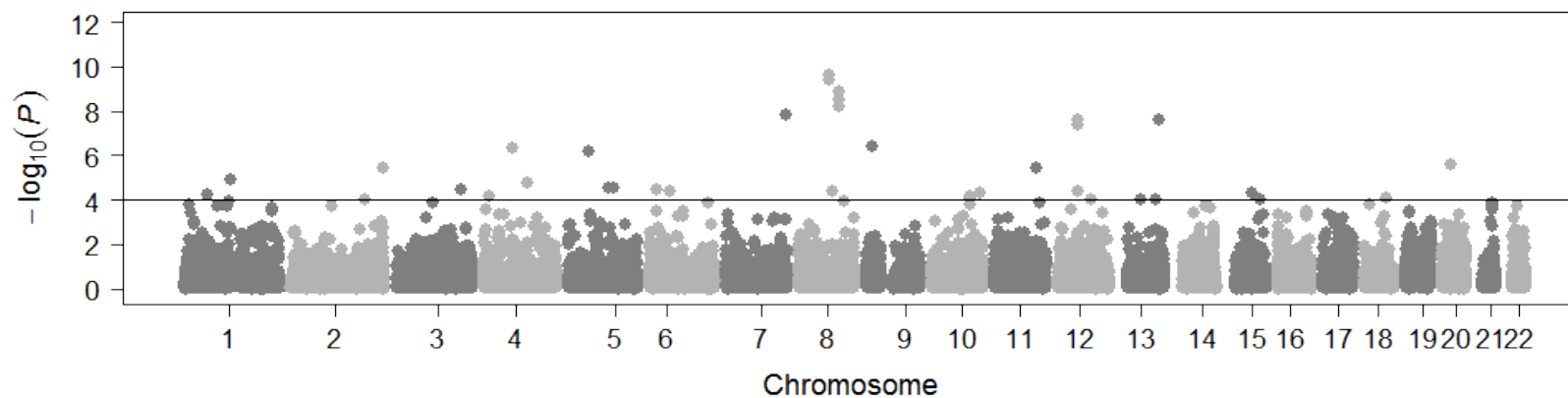
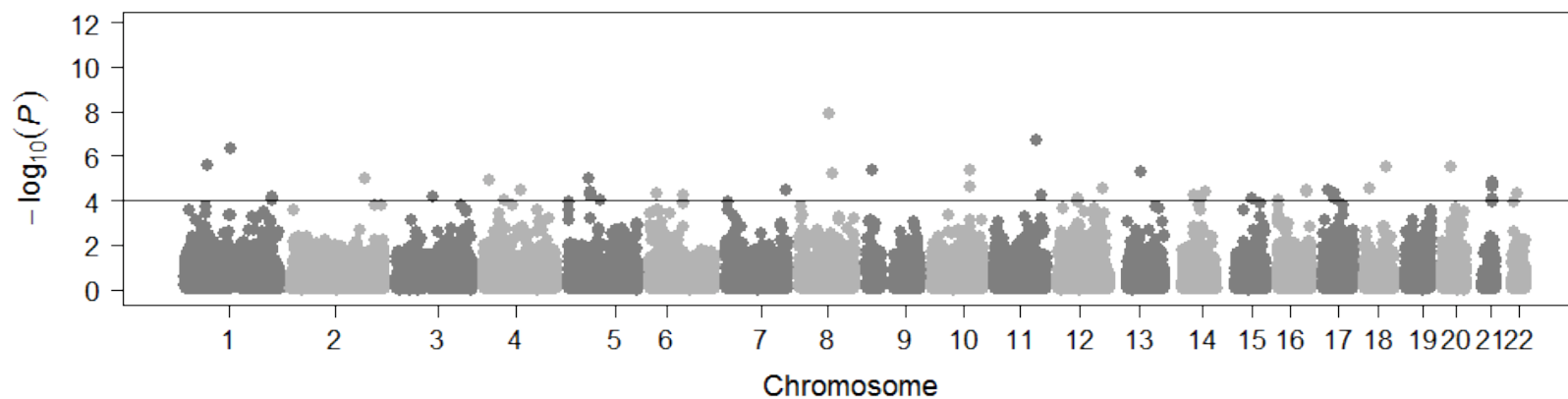


Figure S14. Manhattan Plots of Gene-based Analysis Results from 1 degree of freedom test (above) and 2 degree of freedom joint test (below) for Diastolic Blood Pressure.

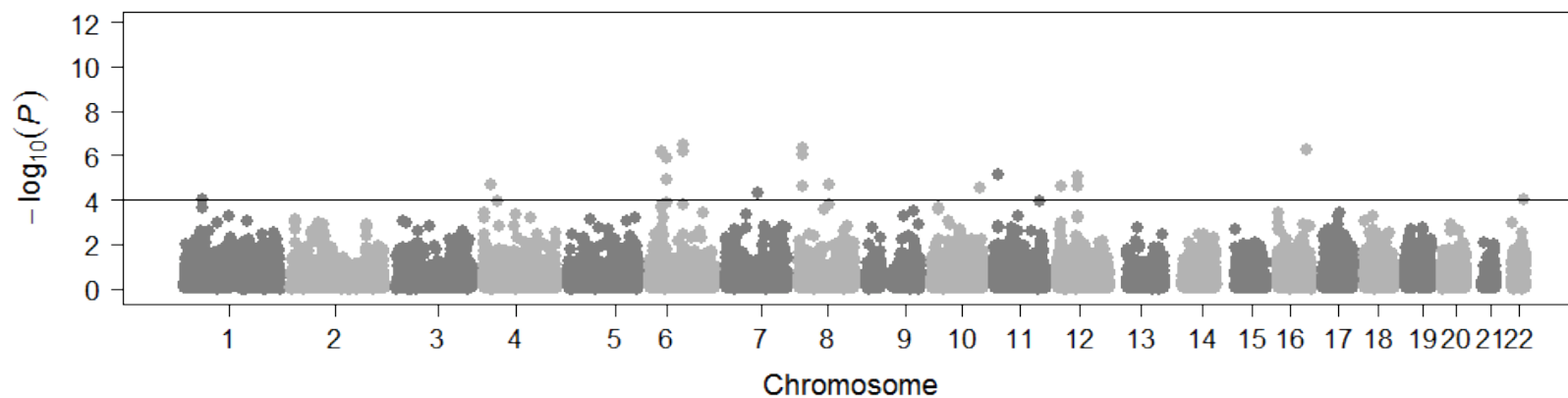
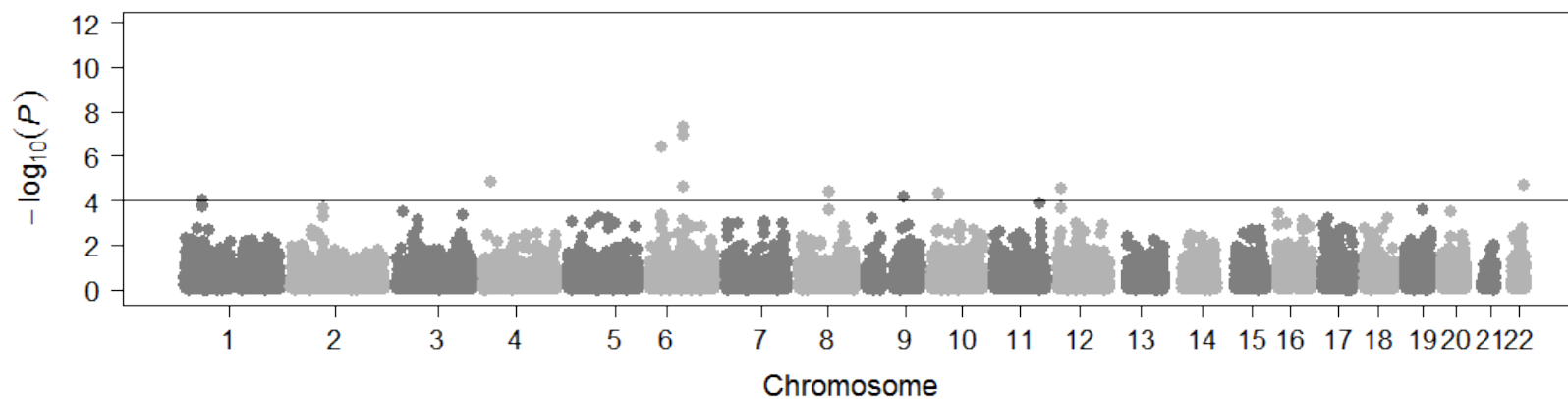


Figure S15. Manhattan Plots of Gene-based Analysis Results from 1 degree of freedom test (above) and 2 degree of freedom joint test (below) for Mean Arterial Pressure.

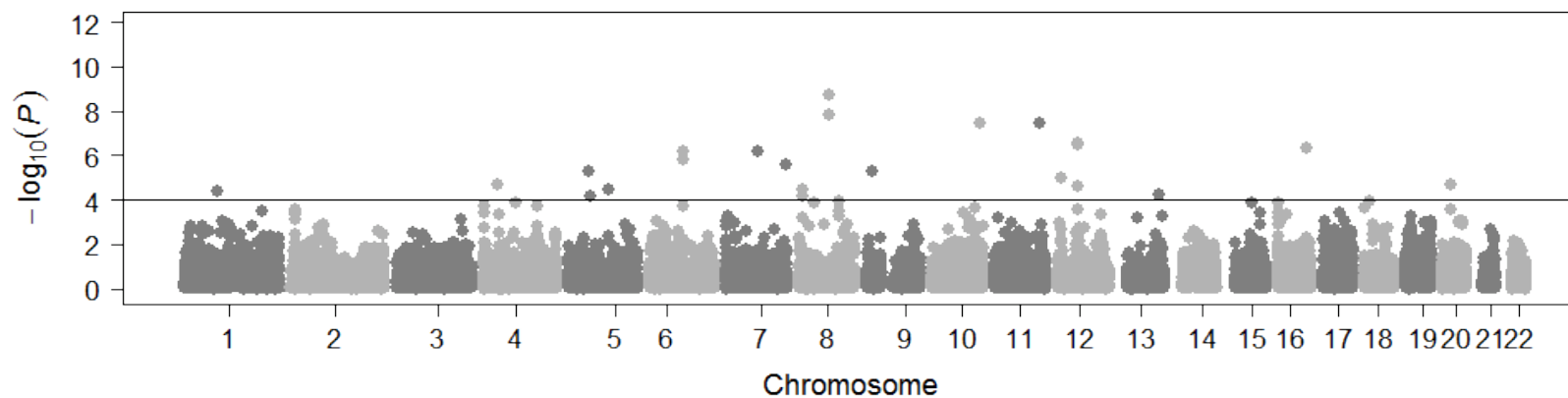
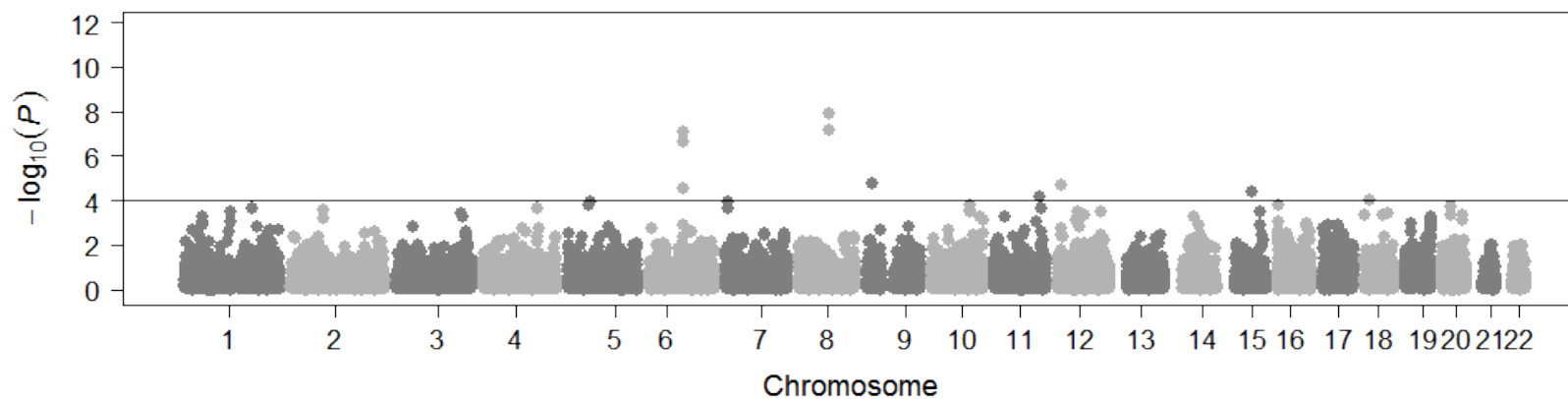


Figure S16. Manhattan Plots of Gene-based Analysis Results from 1 degree of freedom test (above) and 2 degree of freedom joint test (below) for Pulse Pressure.

