S3 Table. Performance of candidate PRS-Alcohol in the validation set (KoGES cohort)

PRS methods	R^2		Pearson's correlation coefficients	
	PRS_{All}	$PRS_{Sex\text{-}specific}$	PRS_{All}	$PRS_{Sex\text{-}specific}$
CT	0.221	0.220	0.171	0.182
LASSOsum	0.228	0.229	0.194	0.205
LDpred (ρ=0.01)	0.222	0.222	0.175	0.188
LDpred (ρ=0.03)	0.212	0.213	0.149	0.162
LDpred (ρ=0.1)	0.200	0.199	0.105	0.118
LDpred (ρ=0.3)	0.193	0.194	0.076	0.087
LDpred (ρ=1)	0.192	0.192	0.063	0.073
PRS-CS	0.192	0.192	0.071	0.081

R^2 was calculated for the linear regression model including age, sex, and top four principal components (PCs). PRS_{All} were computed using both sexes and standardized. $PRS_{Sex\text{-}specific}$ were computed separately for each sex, standardized and then combined. CT, clumping and thresholding; KoGES, Korean Genome and Epidemiology Study; PRS, polygenic risk score; PRS-CS, PRS-continuous shrinkage.