GWAS characteristics

1) Number of exposures
   `number_of_exposures`

2) GWAS sample sizes
   `sample_size_Xs`
   `sample_size_Y`

3) GWAS sample overlap
   `prop_gwas_overlap_Xs_and_Y`

Conditional variances of phenotypes

1) Variance in Y explained by **x**, U; **x** explained by U
   `Y_variance_explained_by_Xs`
   `Y_variance_explained_by_U`
   `Xs_variance_explained_by_U`

2) Phenotypic, genetic correlation between **x**
   `phenotypic_correlation_Xs`
   `genetic_correlation_Xs`

Causal exposure SNP characteristics

1) Number, MAF of causal **x** SNPs
   `number_of_causal_SNPs`

2) Variance in **x** explained by **g**
   - Partitioned by UHP, CHP, valid SNPs
   `number_of_UHP_causal_SNPs`
   `number_of_CHP_causal_SNPs`
   `Xs_variance_explained_by_g`
   `Y_variance_explained_by_UHP`
   `U_variance_explained_by_CHP`

3) LD between SNPs in **g**
   `LD_causal_SNPs`

IV selection and simulation scenario

IV P-value threshold
`IV_Pvalue_threshold`

IV LD r^2 pruning threshold
`LD_pruning_r2`

Simulation type (weak IV or winner's curse)
`simtype`

Winner's curse

Weak instruments

Fix F-statistic for instrument strength
`fix_Fstatistic_at`