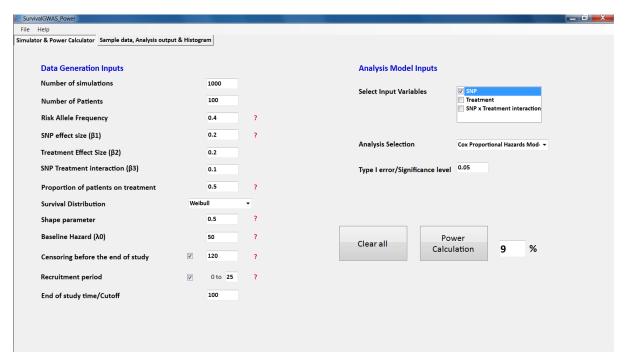
SurvivalGWAS Power Suite Example

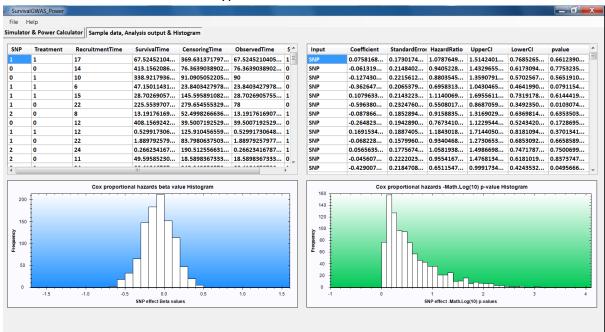


Study design – 100 patients, 50 given test treatment and 50 given placebo, 100 day study, 25 day recruitment period, 75 day follow-up period, censoring within the sample occurs approximately 30%.

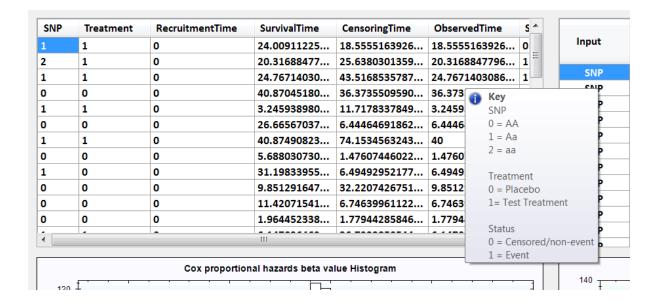
Effect size – SNP effect size 0.2 (moderate significance), Treatment effect size 0.2 (moderate significance) and SNP-Treatment interaction effect size 0.1 (below moderate significance).

Risk allele frequency 0.4.

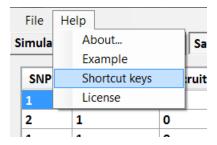
Analysis is conducted using a Cox proportional hazards model for just the SNP. Each of the 1000 simulations are tested at a type 1 error of 0.05.

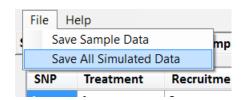


Output from example power calculation. (Top left) sample dataset, (Top right) Cox proportional hazards output from each simulation run, (Bottom left) SNP coefficient beta values plot & (Bottom right) - log_{10} p – values plot for the SNP effect.



There is a key available to users to help interpret the sample dataset. The user must use the mouse cursor to hover over the dataset to bring up the key.





There are various help buttons and hints (?) within the program. All data files can be saved as text files.