

Informative Prior Distributions for non-clinical Populations

Fitting one distribution

Drift Rate

Boundary Separation

Mirrored Bias

Non-decision time

sv

relative sz

ster

Model Selection: Representative distributions

```
##           V1 V2 waic
## X1   truncated normal  8 0.01
## X2           t         4 0.09
## X3           gamma    7 0.02
## X4     lognormal    9 0.01
## X5     weibull      6 0.03
## X1.1   tnorm & tnorm  3 0.15
## X2.1   gamma & gamma  1 0.40
## X3.1   gamma & tnorm  5 0.05
## X4.1 lognormal & tnorm  2 0.24

##           V1      V2 wAIC
## X1   truncated normal 1495.26 0.00
## X2           t       1266.64 0.00
## X3           gamma   1317.95 0.00
## X4     lognormal   1339.73 0.00
## X5     weibull     1425.15 0.00
## X1.1   tnorm & tnorm 1250.53 0.00
## X2.1   gamma & gamma 1241.86 0.36
## X3.1   gamma & tnorm 1243.64 0.15
## X4.1 lognormal & tnorm 1241.25 0.49

##           V1      V2 wAIC
## X1 truncated normal -757.66  0
## X2   truncated t   -853.34  1
```

```

##          V1      V2 wAIC
## X1  truncated normal  171.15   0
## X2          t -760.71   0
## X3          gamma -327.88   0
## X4      lognormal -406.82   0
## X5          weibull  -30.30   0
## X1.1    tnorm & tnorm -737.51   0
## X2.1    gamma & gamma -773.58   1
## X3.1    gamma & tnorm -754.31   0
## X4.1 lognormal & tnorm -740.01   0

##          V1      V2 wAIC
## X1  truncated normal  574.77 0.07
## X2          t  577.59 0.02
## X3          gamma  608.42 0.00
## X4      lognormal  688.00 0.00
## X5          weibull  590.67 0.00
## X1.1    tnorm & tnorm  572.80 0.19
## X2.1    gamma & gamma  573.09 0.16
## X3.1    gamma & tnorm  571.30 0.40
## X4.1 lognormal & tnorm  573.19 0.16

##          V1      V2 wAIC
## X1 truncated normal -131.38 0.69
## X2          t -129.80 0.31

##          V1      V2 wAIC
## X1  truncated normal -205.39 0.00
## X2          t -606.18 0.34
## X3          gamma -248.11 0.00
## X4      lognormal -430.03 0.00
## X5          weibull -215.42 0.00
## X1.1    tnorm & tnorm -600.43 0.02
## X2.1    gamma & gamma -599.98 0.02
## X3.1    gamma & tnorm -594.40 0.00
## X4.1 lognormal & tnorm -607.38 0.62

```