validate
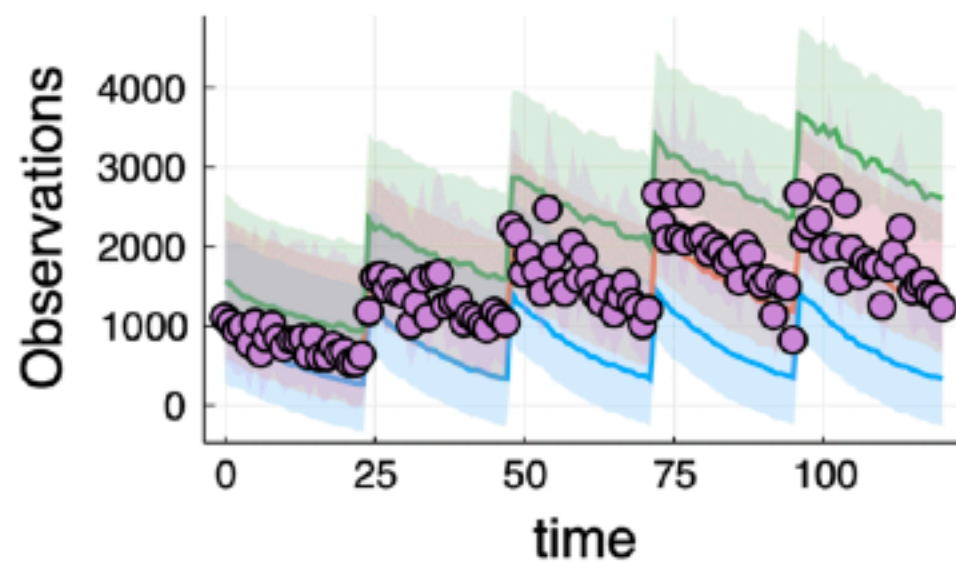
```julia
julia> vpc(res,200;stratify_on=[:wt]) |> plot
```
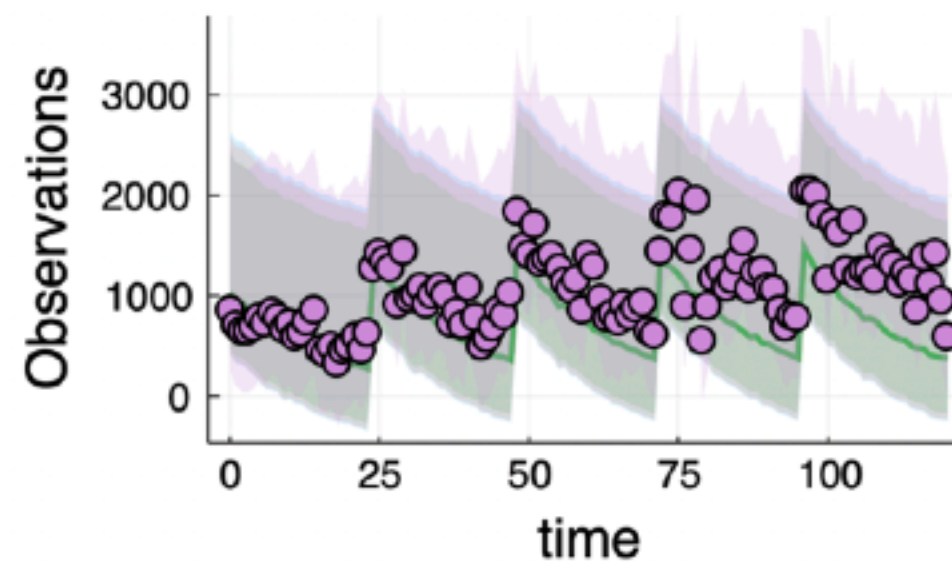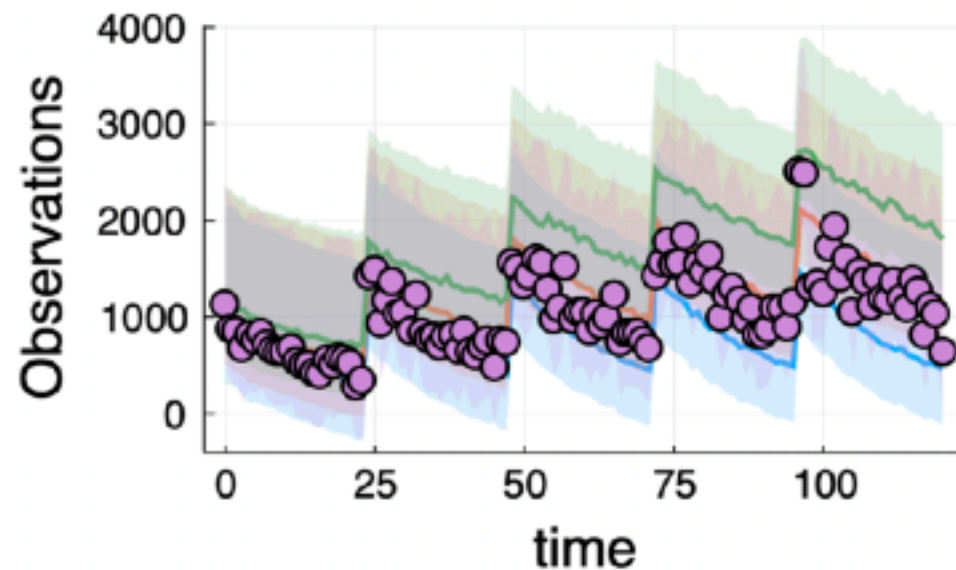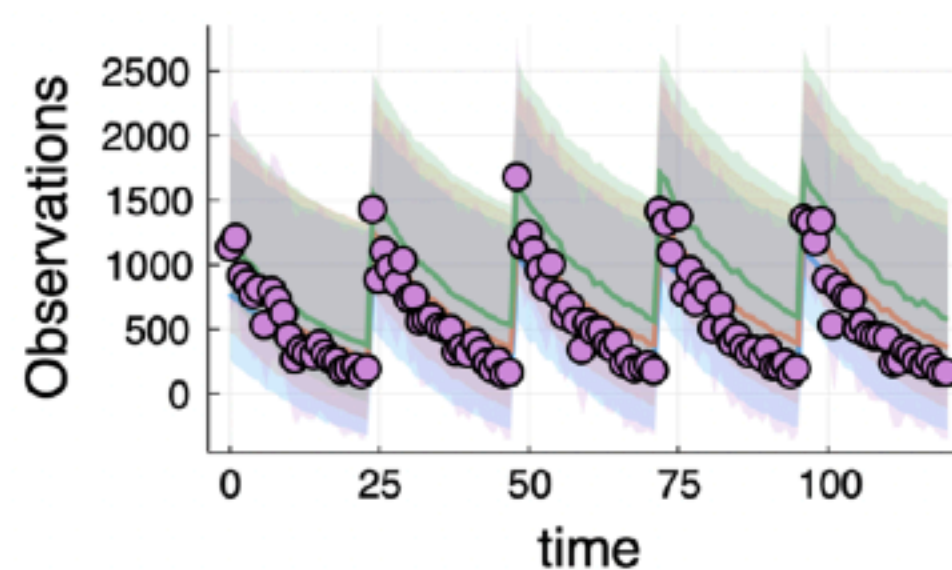
Stratified on: wt 73.0

Stratified on: wt 76.5

Stratified on: wt 78.5

Stratified on: wt 80.0

We run the simulation with a simobs call

```julia
julia> sim1 = simobs(m_diffeq, ev1, p; abstol=1e-14, reltol=1e-14)
```

The subject wise simulation output

```
Subject
  ID: 1
  Events: 4
, 0.0:1.0:96.0, (cp = [4114.33, 4057.56, 4001.57, 3946.35, 3891.9, 3838.2, 3785.24, 3733.0,
3681.5, 3630.7  …  8676.2, 8556.49, 8438.42, 8321.98, 8207.15, 8093.91, 7982.22, 7872.08, 7763.46,
7656.33], dv = [3254.99, 1998.61, 3497.23, 4780.26, 3041.26, 2604.17, 3277.17, 3295.85, 4776.44,
3386.44  …  8335.86, 8939.89, 10491.5, 7646.75, 7337.47, 8872.07, 5317.99, 6404.97, 7250.41,
9919.32]))
```

https://docs.pumas.ai/dev/basics/simulation/#Simulation-of-Pumas-Models-1