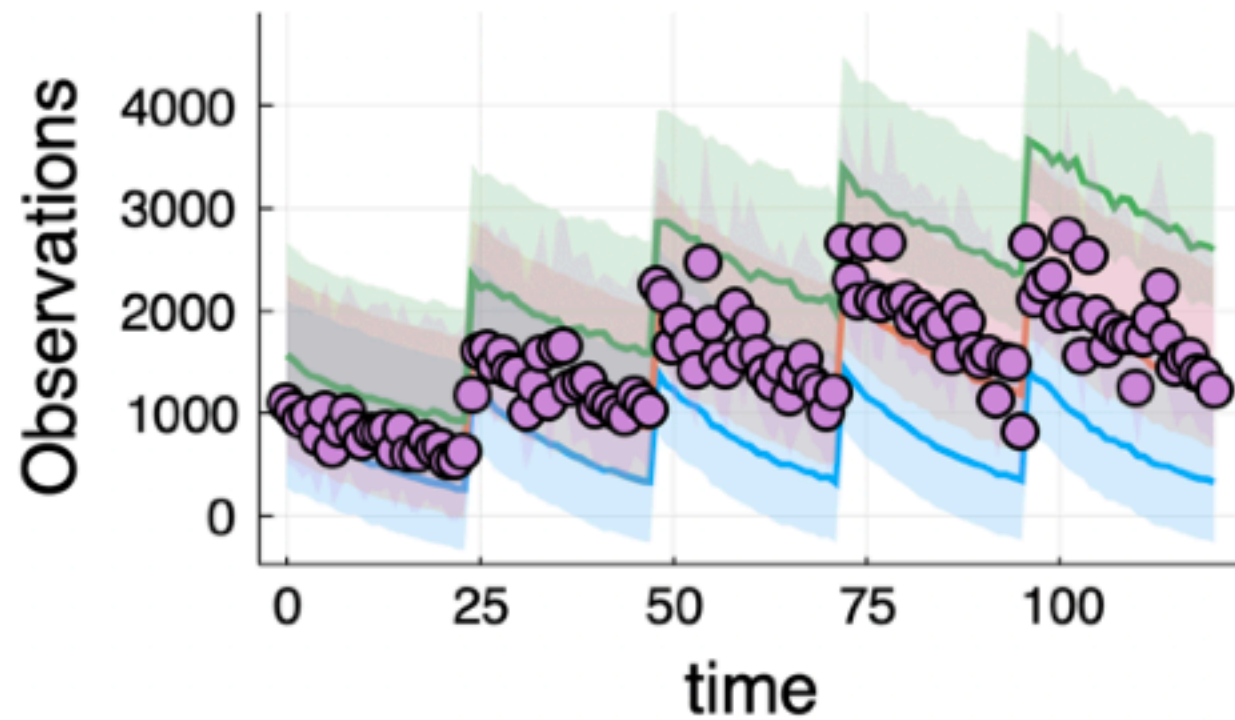
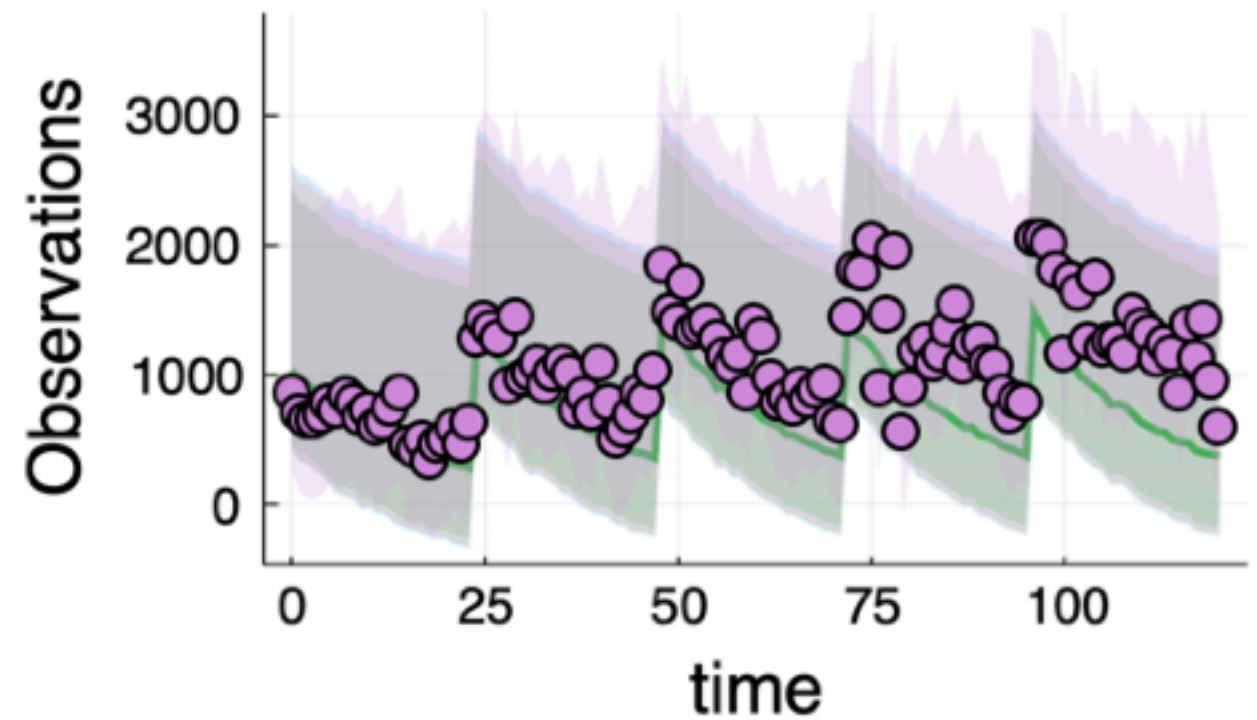


```
julia> vpc(res, 200; stratify_on=[:wt]) |> plot
```

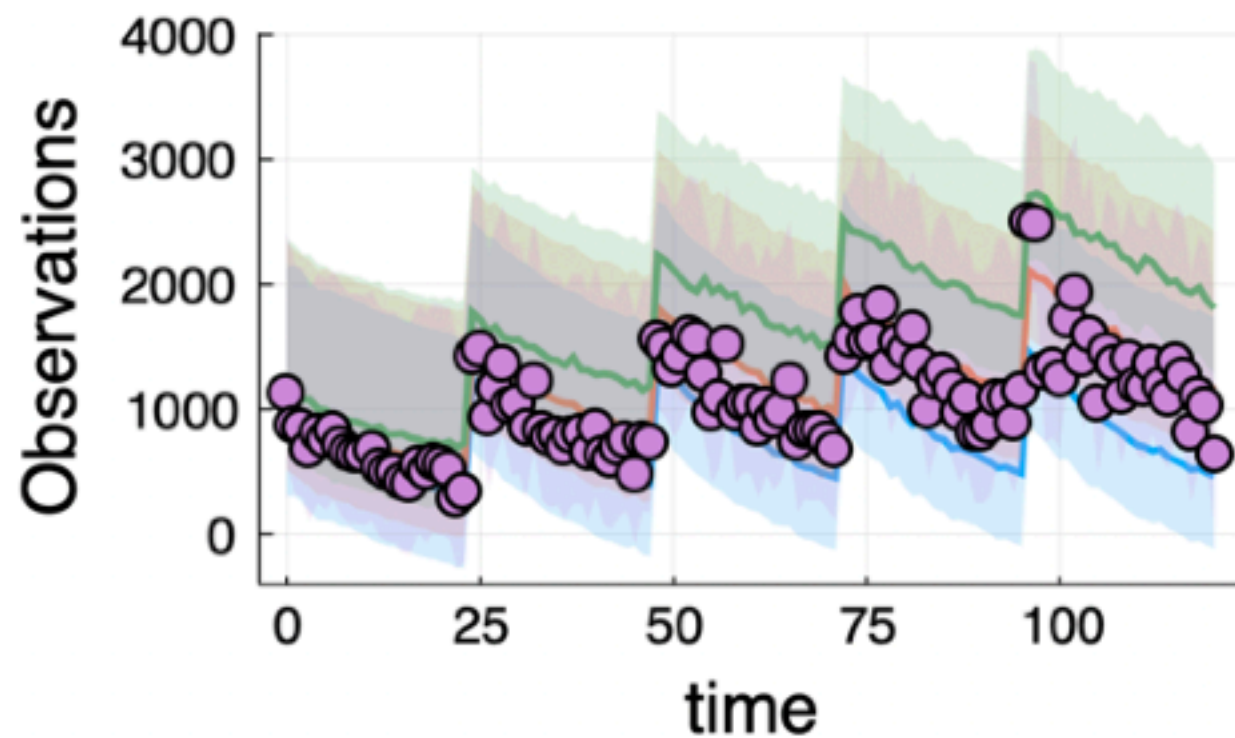
Stratified on: wt 73.0



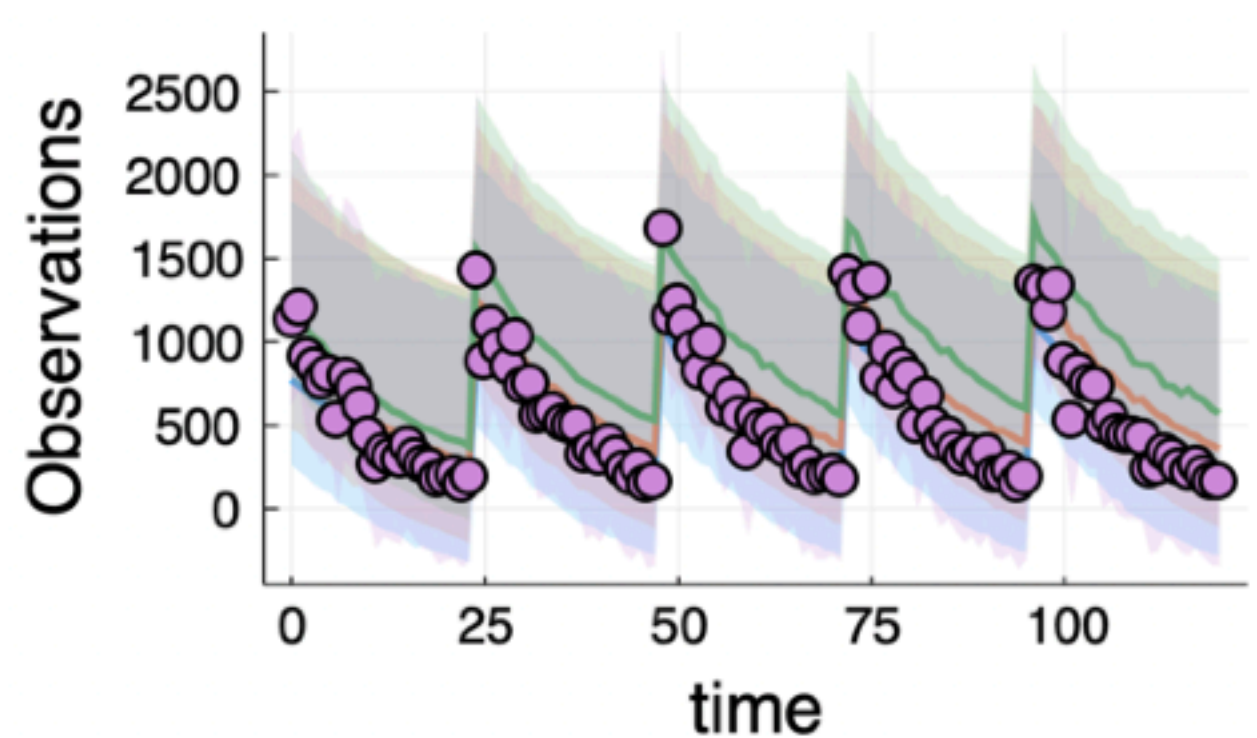
Stratified on: wt 76.5



Stratified on: wt 78.5



Stratified on: wt 80.0



Simulation

First we need a dosage regimen for the population we want to simulate. Basically, when and how much of the drug is entering the body, in which compartment, what are the values of the covariates for the subjects.

```
julia> ev = DosageRegimen(100, time=0)
DosageRegimen(1x8 DataFrame
  | Row | time | cmt | amt | evid | ii | addl | rate | ss |
  |-----|-----|-----|-----|-----|-----|-----|-----|-----|
  | 1 | 0.0 | 1 | 100.0 | 1 | 0.0 | 0 | 0.0 | 0 | )
```

```
julia> sub = Subject(id=1, evs=ev, cvs=(isPM=0, Wt=70))
Subject
  ID: 1
  Events: 1
```

The fields of a Subject (sub) contain the details of the dose for the subject

```
id 1
covariates (isPM = 0, Wt = 70)
events PuMaS.Event[Dose event
  dose amount = 100.0
  dose time = 0.0
  compartment = 1
  instantaneous
  interdose interval = 0.0
  infusion start time = 0.0
]
```