

Predictions: The difference between the observations and the model expectation

- Population - EPRED, PRED, CPRED, CPREDI
- Individual - IPRED, CIPRED, CIPREDI, EIPRED

Residuals:

- Population - NPDE, WRES, CWRES, CWRESI
- Individual - IWRES, ICWRES, ICWRESI, EIWRES

η shrinkage, ϵ shrinkage, AIC, BIC

```
julia> resout = DataFrame(inspect(res))
```

```
julia> first(resout, 6)
```

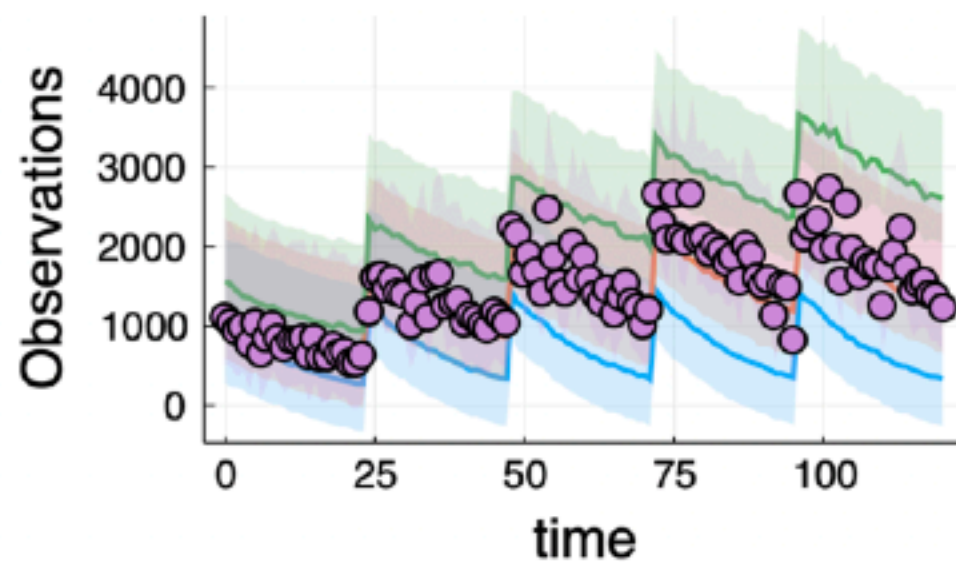
6×13 DataFrame

Row	id	time	isPM	wt	pred	ipred	pred_approx	wres	iwres	wres_approx	ebe_1	ebe_2	ebes_approx
	String	Float64	Int64	Int64	Float64	Float64	Pumas.FOCEI	Float64	Float64	Pumas.FOCEI	Float64	Float64	Pumas.FOCEI
1	1	0.0	0	68	1326.95	1290.5	FOCEI()	0.0141867	0.164838	FOCEI()	-0.273173	0.0282462	FOCEI()
2	1	1.0	0	68	1255.42	1236.44	FOCEI()	0.247655	0.414528	FOCEI()	-0.273173	0.0282462	FOCEI()
3	1	2.0	0	68	1187.56	1184.65	FOCEI()	-1.44113	-1.53356	FOCEI()	-0.273173	0.0282462	FOCEI()
4	1	3.0	0	68	1123.17	1135.03	FOCEI()	-0.66784	-1.10145	FOCEI()	-0.273173	0.0282462	FOCEI()
5	1	4.0	0	68	1062.1	1087.49	FOCEI()	-0.67988	-1.29264	FOCEI()	-0.273173	0.0282462	FOCEI()
6	1	5.0	0	68	1004.17	1041.94	FOCEI()	1.14917	0.521982	FOCEI()	-0.273173	0.0282462	FOCEI()

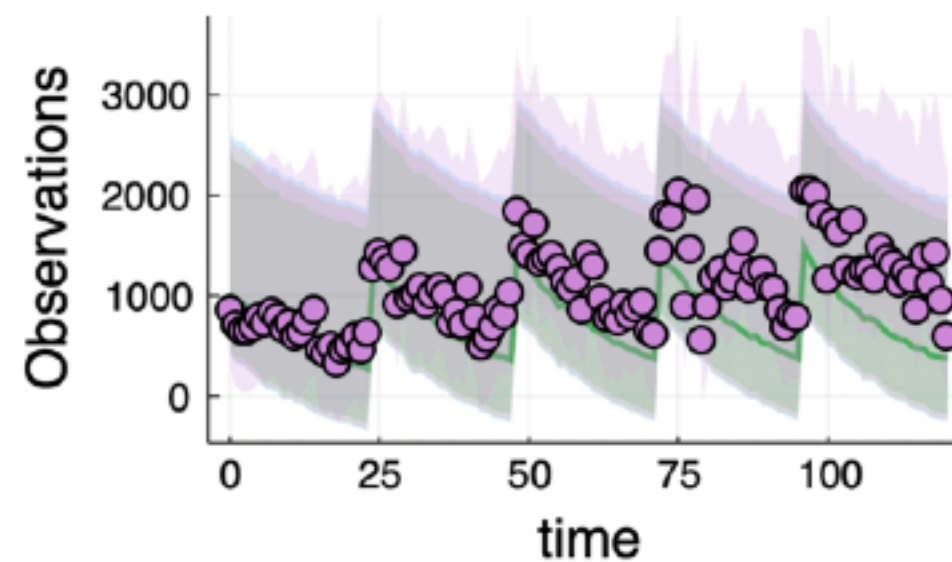
validate

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

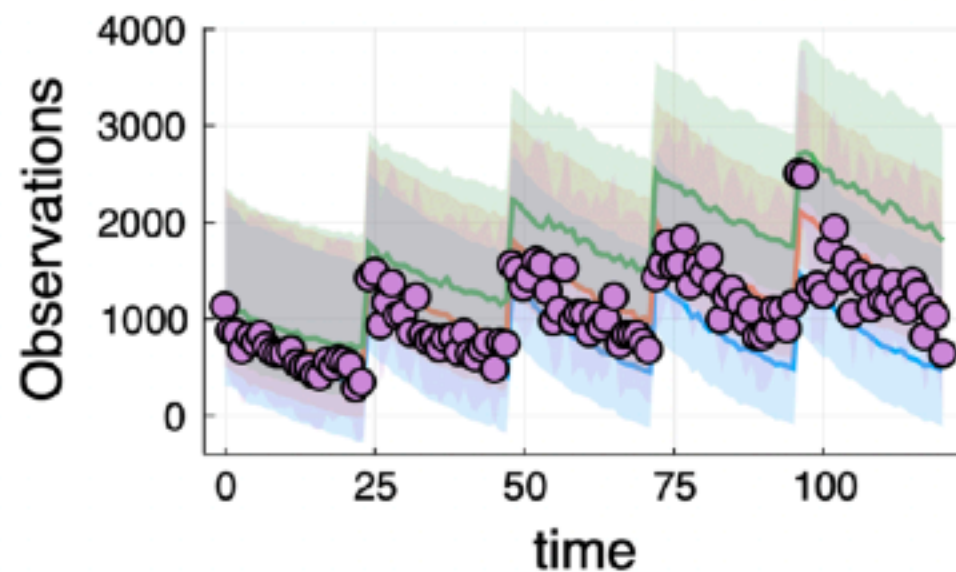
Stratified on: wt 73.0



Stratified on: wt 76.5



Stratified on: wt 78.5



Stratified on: wt 80.0

