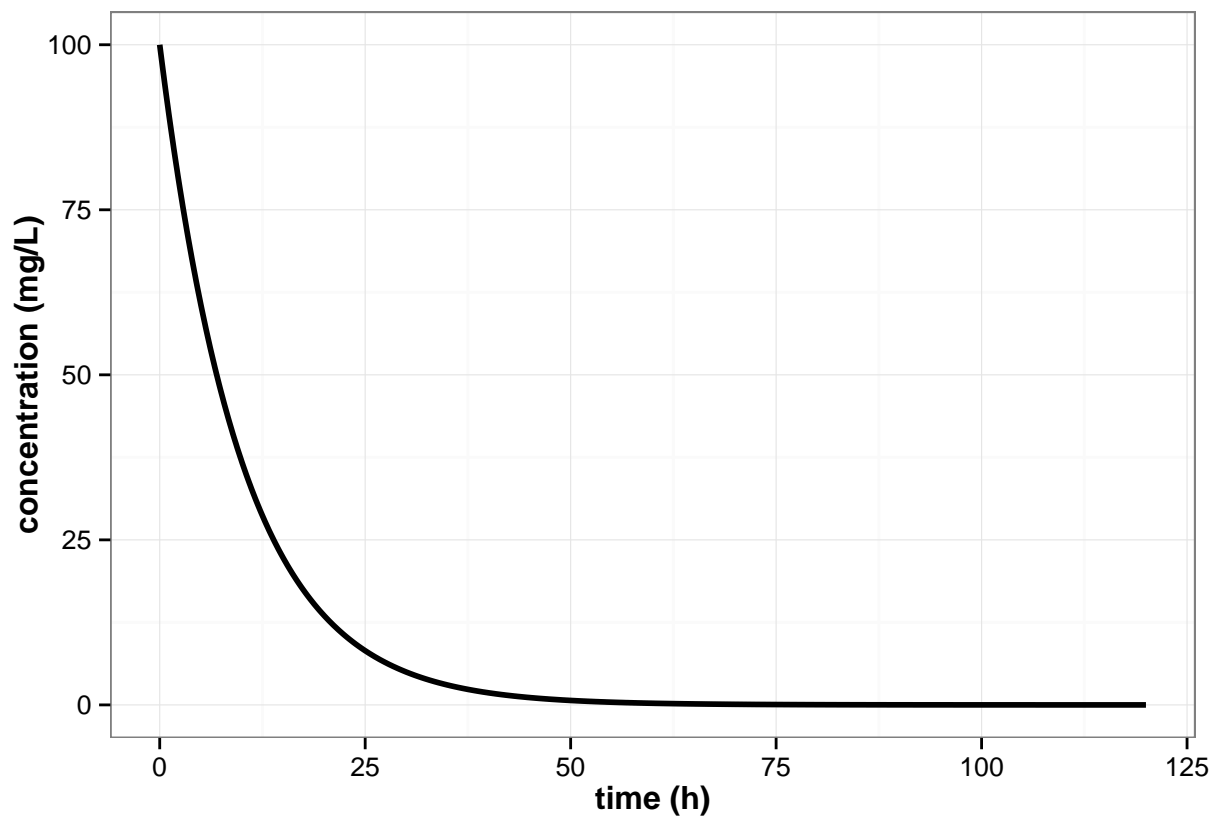


```
# required libraries
library("PKPDmisc")
library("ggplot2")
library("mlxR")
library("reshape2")
library("knitr")
library("dplyr")
```

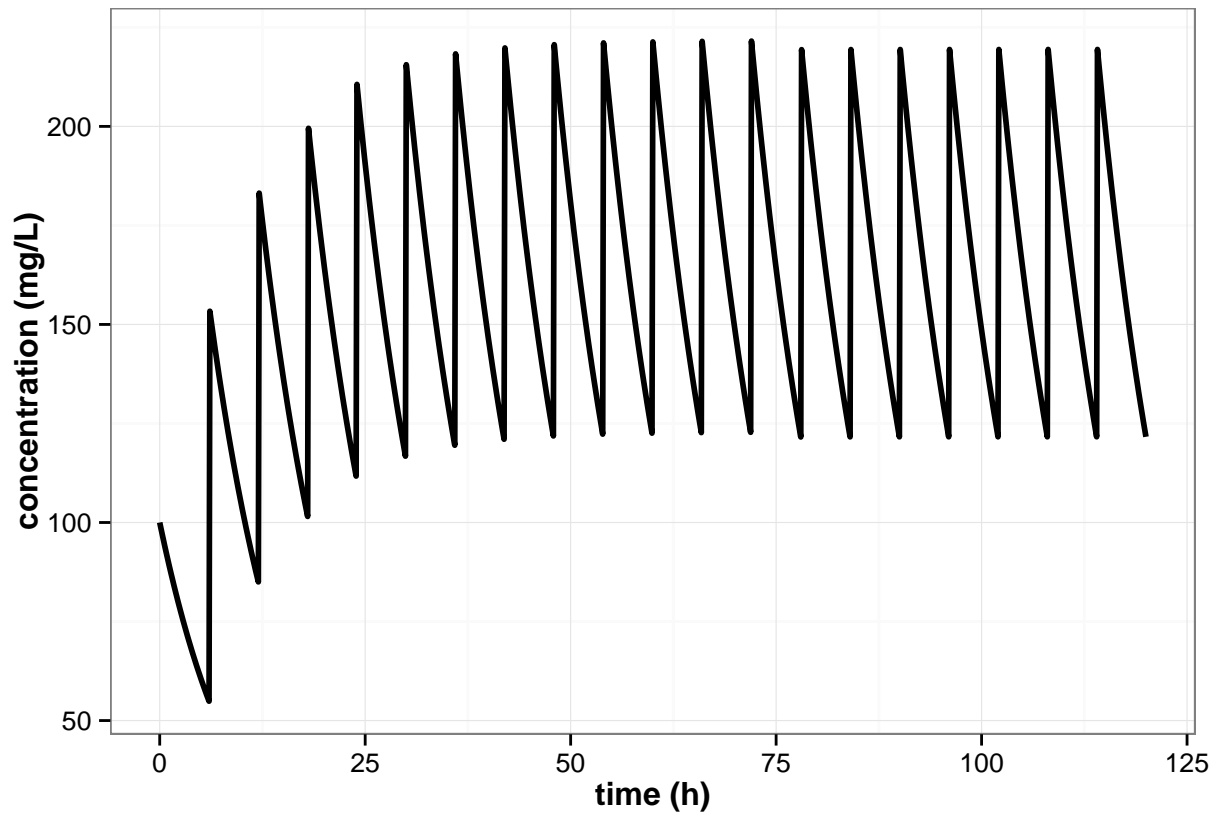
```
##
## Attaching package: 'dplyr'
##
## The following objects are masked from 'package:stats':
##
##   filter, lag
##
## The following objects are masked from 'package:base':
##
##   intersect, setdiff, setequal, union
```

```
knitr::opts_chunk$set(echo=FALSE)
```

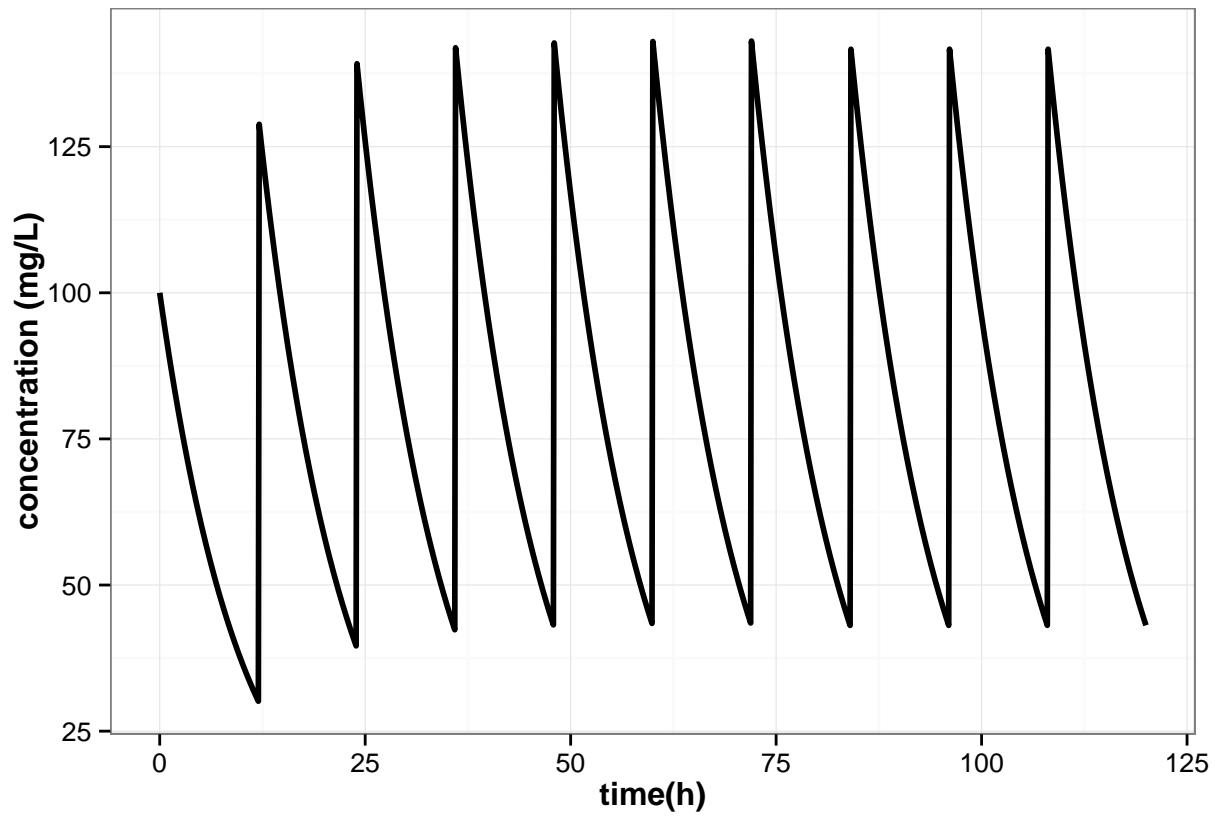
1. pk profile of 100 mg iv bolus (sd), $CL = 0.1$ L/hr, $V = 1$ L



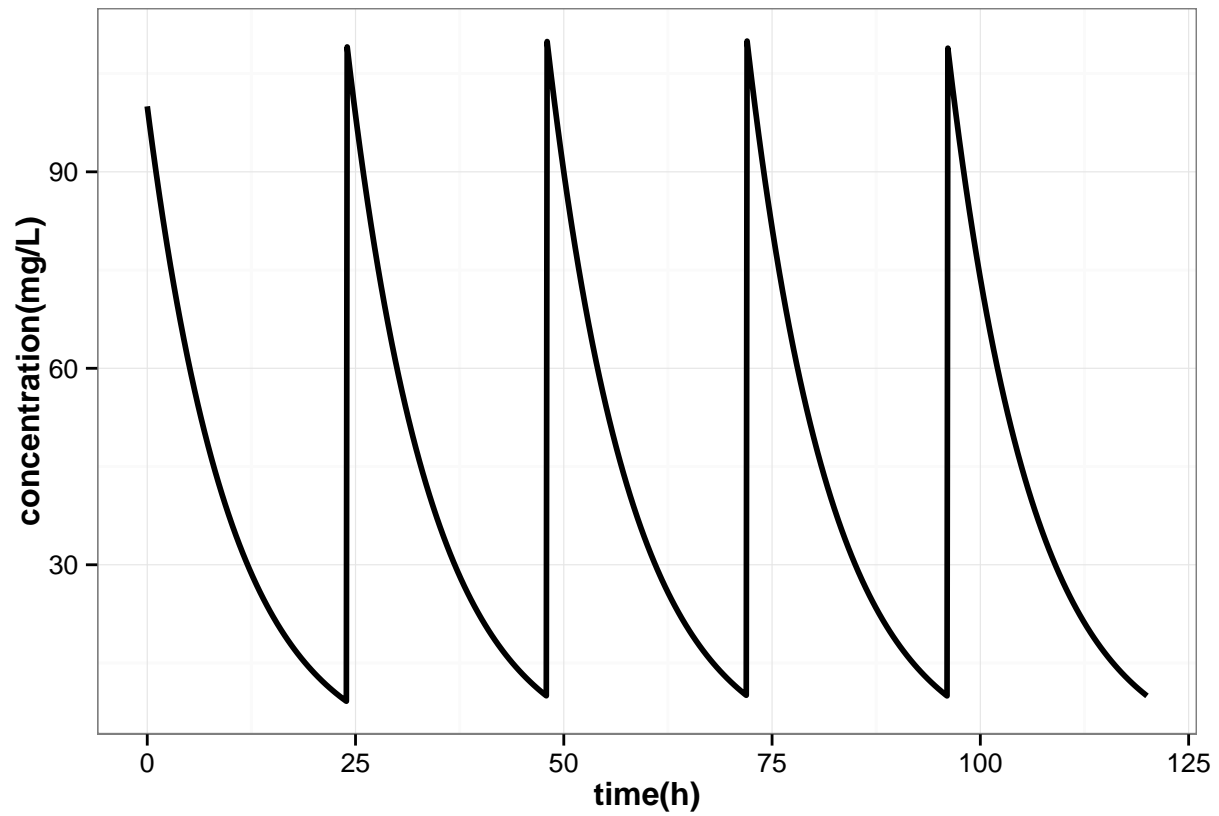
2. pk profile of 100 mg iv bolus, ld ($t = 0$), md ($q = 6$ hr), $cl = 0.1$ L/hr, $v = 1$ L



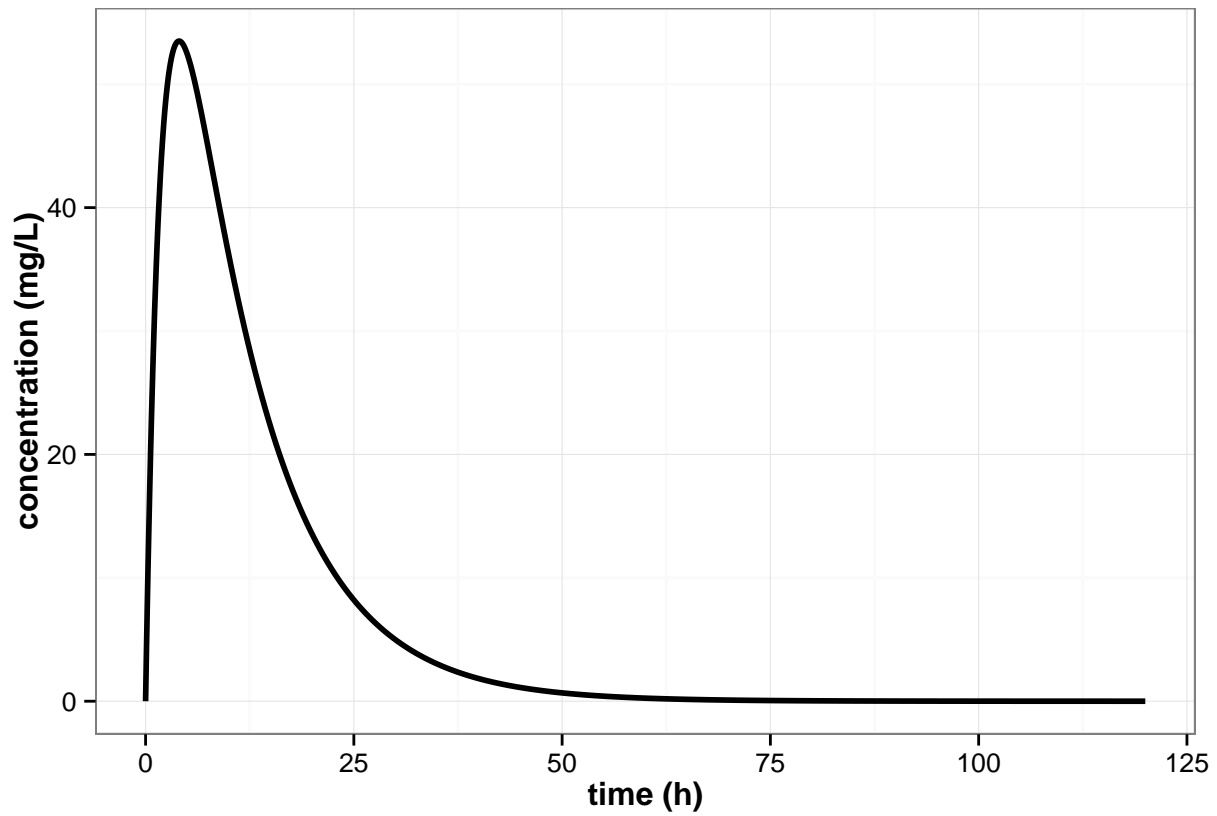
3. pk profile of 100 mg iv bolus, ld ($t=0$), md ($q=12$ hr), $cl = 0.1$ l/hr, $v = 11$



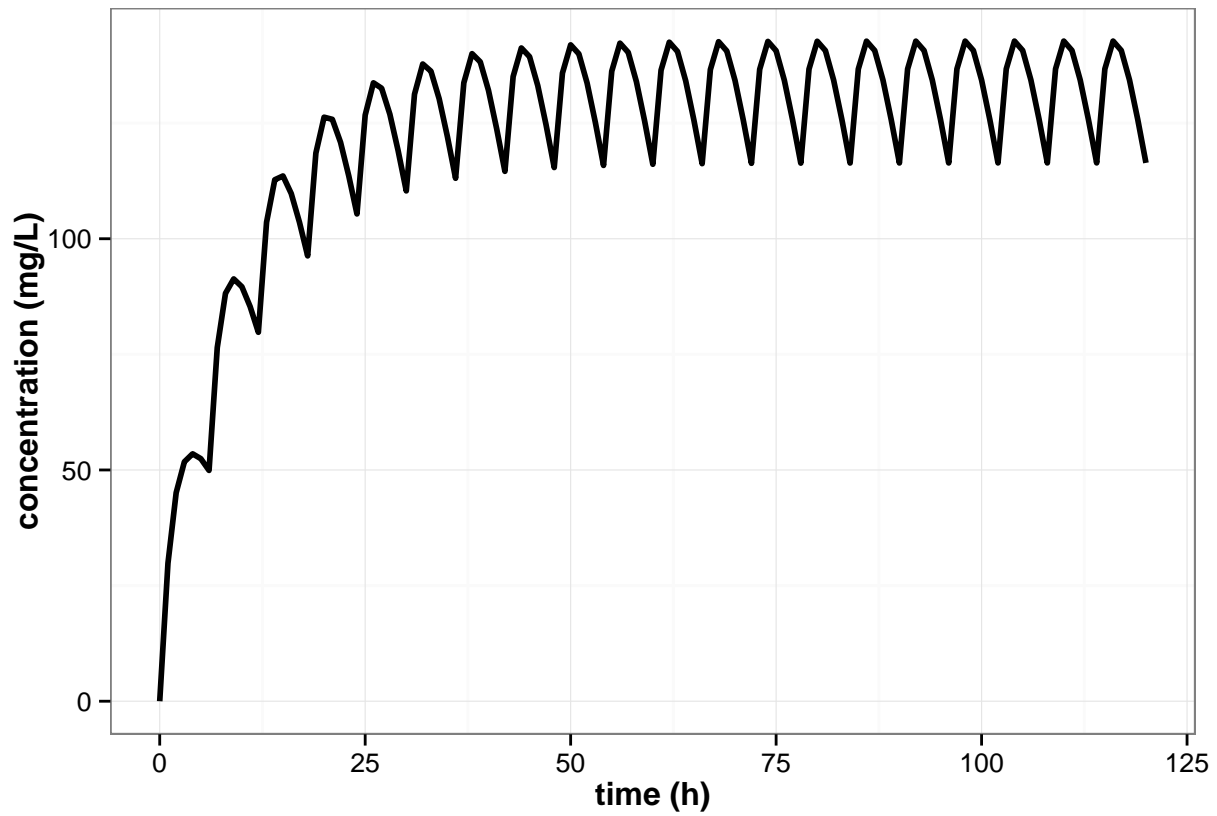
4. pk profile of 100 mg iv bolus, ld ($t=0$), md ($q=24$ hr), $cl=0.1$ l/hr, $v=11$



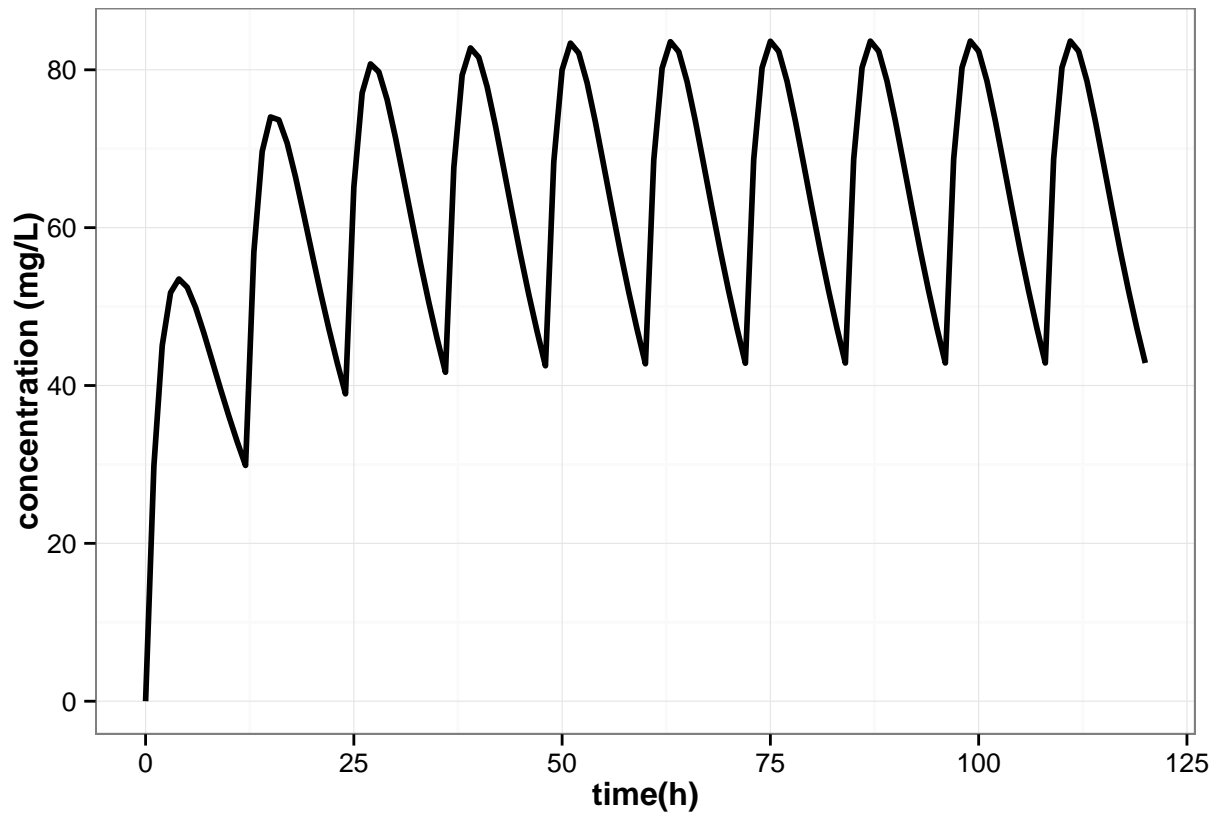
5. pk profile of 100 mg oral (sd), $Cl = 0.1 \text{ L/hr}$, $V = 1 \text{ L}$, $k_a = 0.5/\text{hr}$, $F = 0.8$



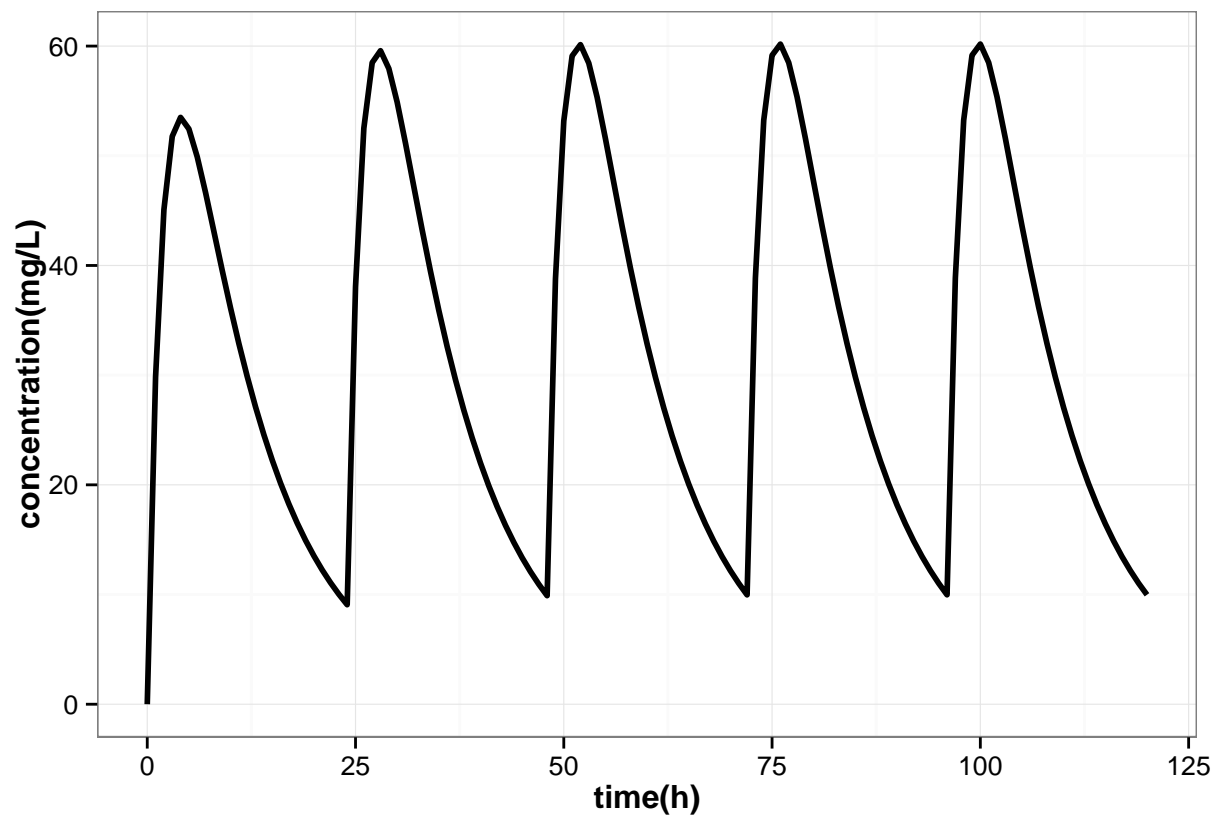
6. pk profile of 100 mg oral, ld ($t=0$), md ($q=6$ hr), $Cl = 0.1$ L/hr, $V = 1$ L, $k_a = 0.5$ /hr, $F = 0.8$



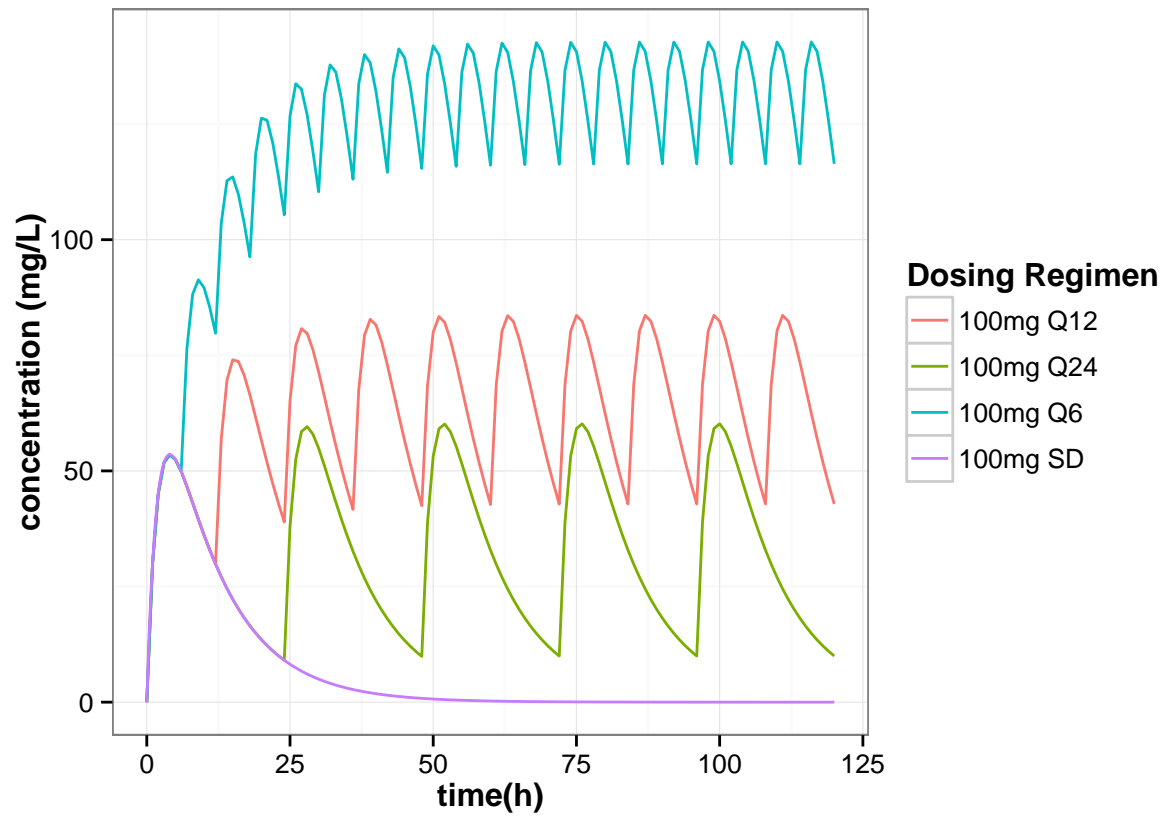
7. pk profile of 100 mg oral, ld ($t=0$), md ($q=12$ hr), $cl=0.1$ l/hr, $v=11$, $ka=0.5$ /hr, $f=0.8$



8. pk profile of 100 mg oral, ld ($t=0$), md ($q=24$ hr), $cl = 0.1$ l/hr, $v=11$, $ka=0.5$ /hr, $f=0.8$



9. Overlay plots - oral



10. Overlay plots - iv

