

Results summary for: CONTROL5

Report generated: 2018-8-22, 16:56:51
Report created by: Sungpil Han
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General run info:

Description	THEOPHYLLINE	POPULATION DATA
NONMEM model file	CONTROL5.ct1	
NONMEM output file	CONTROL5.out	
Reference model	-	
NONMEM version	version 7.4.3	
Author	Sungpil Han	
Dataset	THEOPP	
Dataset ignored	-	
Dataset accepted	-	
# individuals	12	
# observations	132	
Output file date	N/A	
Run started	-	
Run finished	-	
Table files		
Attached folders		
Drug		
Protocol		
Notes in Pirana	Project: Pirana exploration	

Estimation results: #1 First Order

Objective function value: 104.561
Termination message: minimization successful
no. of function evaluations used: 149
no. of sig. digits in final est.: 4.7
total data points normally distributed (n): 132
n*log(2pi) constant to objective function: 242.59977276603360
objective function value without constant: 104.56106631146798
objective function value with constant: 347.16083907750158
reported objective function does not contain constant
total effective etas (nind*neta): 36
elapsed estimation time in seconds: 0.07
elapsed covariance time in seconds: 0.01
elapsed postprocess time in seconds: 0.00
1
Checks: No boundary problems reported by NONMEM
All gradients non-zero during estimation
Condition number: na

Table 1: Run CONTROL5. #1 First Order.

Θ	Parameter	Estimate	SE	RSE	95% CI	low
1	MEAN ABSORPTION RATE CONSTANT (1/HR)	2.77	0.708	25.6	4.158 - 1.382	0.
2	MEAN ELIMINATION RATE CONSTANT (1/HR)	0.0781	0.007	9.3	0.092 - 0.064	0.0
3	SLOPE OF CLEARANCE VS WEIGHT RELATIONSHIP (LITERS/HR/KG)	0.0363	0.005	12.5	0.045 - 0.027	0.0

Ω ²	Description	1	2	3
1		5.55 (87%)		
2		0.0052 (267.2%)	0.0002 (50.8%)	
3		-0.128 (371.1%)	0.0091 (40.9%)	0.515 (41.2%)

Ω	Description	1	2	3
1		235.6% (43.5%)		
2		14.4%	1.5% (25.4%)	
3		-7.6%	81.9%	71.8% (20.6%)

Σ ²	Description	1
1		0.388 (27.062%)

hypertargetmodelfileNONMEM control stream

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;; x1. Author: Sungpil Han
$PROB THEOPHYLLINE POPULATION DATA
$INPUT ID DOSE=AMT TIME CP=DV WT
$DATA THEOPP

$SUBROUTINES ADVAN2

$PK
;SCALING PARAMETER=VOLUME/WT SINCE DOSE IS WEIGHT-ADJUSTED
CALLFL=1
KA=THETA(1)+ETA(1)
K=THETA(2)+ETA(2)
CL=THETA(3)*WT+ETA(3)
SC=CL/K/WT

$THETA
(.1,3,5) ; MEAN ABSORPTION RATE CONSTANT (1/HR)
(.008,.08,.5) ; MEAN ELIMINATION RATE CONSTANT (1/HR)
(.004,.04,.9) ; SLOPE OF CLEARANCE VS WEIGHT RELATIONSHIP (LITERS/HR/KG)

$OMEGA BLOCK(3) 6 .005 .0002 .3 .006 .4

$ERROR
Y=F+EPS(1)

$SIGMA .4

$EST MAXEVAL=450 PRINT=5
$COV
$TABLE ID DOSE WT TIME
$SCAT (RES WRES) VS TIME BY ID
```