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1  $PROBLEM ONE COMPARTMENT ORAL MIXED ORDER ABSORPTION ;DATE = 6/2/04 PROGRAMMER=XXXX
2  ;Dose = 100mg or 250mg
3  ;Units: Time=hr,
4  ;Concentration=ug/ml
5  ;CL/F = L/hr ; V/F = L
6
7  $DATA KAKOEST_PAR.CSV IGNORE=C
8
9  $INPUT ID TIME CONC=DV AMT CMT RATE MDV
10 ;RATE = -2 in the data file means that the duration for zero order input
11 ;will be mentioned in the controlstream and hence NONMEM calculates the RATE
12
13 $SUBROUTINE ADVAN2 TRANS2
14
15 $PK
16 CL = THETA(1)*EXP(ETA(1)) ;CL/F
17 V = THETA(2)*EXP(ETA(2)) ;V/F
18 KA = THETA(3)*EXP(ETA(3)) ;Absorption rate constant
19 D2 = THETA(4)*EXP(ETA(4)) ;Duration of zero order input
20 ALAG2 = THETA(5)*EXP(ETA(5)) ;Lag time after which zero order absorption starts
21 F1 = THETA(6)*EXP(ETA(6)) ;Fraction of dose absorbed by first order process
22
23 S2 = V ;Scaling factor
24
25
26 $ERROR
27 IPRED=F
28 Y=F+F*ERR(1)+ERR(2)
29 ;Additive and proportional residual error model
30
31 $THETA (0.01,1) ;POPCL/F
32 $THETA (0.1,10) ;POPV/F
33 $THETA (0.1,3) ;POPKA
34 $THETA (0.1,1) ;POPD2
35 $THETA (0.1,2) ;POPALAG2
36 $THETA (0.01,0.3,1) ;POPFka
37
38 $OMEGA 0.09 ;BSVCL/F
39 $OMEGA 0.09 ;BSVV/F
40 $OMEGA 0.09 ;BSVKA
41 $OMEGA 0.04 ;BSVD2
42 $OMEGA 0.04 ;BSVALAG2
43 $OMEGA 0.04 ;BSVFka
44
45 $SIGMA 0.0025 ;ERRCV
46 $SIGMA 1 ;ERRADD
47
48
49 $ESTIMATION METHOD=0 MAXEVAL=9999 PRINT=5 POSTHOC
50 $COVARIANCE
51
52 $TABLE ID TIME DV IPRED
53 NOPRINT ONEHEADER FILE = KAKOEST_PAR.FIT
54
55

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