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1  $PROBLEM TWO COMPARTMENT ORAL                ;DATE = 6/2/04 PROGRAMMER=XXXX
2                                                ;Units: Time=hr, Concentration=ug/ml,
3                                                ;Dose = 100mg or 250mg
4
5  $DATA ORAL2LAGEST_PAR.CSV IGNORE=C
6
7  $INPUT ID TIME CONC=DV AMT DOSE MDV
8
9  $SUBROUTINE ADVAN4 TRANS4
10
11 $PK
12   CL = THETA(1)*EXP(ETA(1)) ;CL/F
13   V2 = THETA(2)*EXP(ETA(2)) ;V2/F
14   Q  = THETA(3)*EXP(ETA(3)) ;Q/F
15   V3 = THETA(4)*EXP(ETA(4)) ;V3/F
16   KA = THETA(5)*EXP(ETA(5)) ;Absorption rate constant
17   ALAG1 = THETA(6)*EXP(ETA(6)) ;Lag time
18
19
20   S2 = V2 ;Scaling factor
21
22
23 $ERROR
24   IPRED=F
25   Y=F+F*ERR(1)+ERR(2)
26                                     ;Additive and proportional residual error model
27
28 $THETA (0.01,1) ;POPCL/F
29 $THETA (1,10) ;POPV2/F
30 $THETA (0.01,1.5) ;POPQ/F
31 $THETA (0.11,5) ;POPV3/F
32 $THETA (0.1,3) ;POPKA
33 $THETA (0.1,1) ;POPALAG1
34
35 $OMEGA 0.09 ;BSVCL/F
36 $OMEGA 0.09 ;BSVV2/F
37 $OMEGA 0.00, FIX ;BSVQ/F
38 $OMEGA 0.09 ;BSVV3/F
39 $OMEGA 0.09 ;BSVKA
40 $OMEGA 0.09 ;BSVALAG1
41
42 $SIGMA 0.0, FIX ;ERRCV
43 $SIGMA 1 ;ERRSD
44
45 $ESTIMATION METHOD=0 MAXEVAL=9999 PRINT=5 POSTHOC
46 $COVARIANCE MATRIX=S
47
48 $TABLE ID TIME DV IPRED DOSE
49   NOPRINT ONEHEADER FILE=ORAL2LAGEST_PAR.FIT
50
51

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