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1  $PROBLEM ONE COMPARTMENT ORAL with absorption lag      ;DATE = 6/2/04 PROGRAMMER=XXXX
2  ;Units: Time=hr, Concentration=ug/ml,
3  ;Dose = 100mg and 250mg
4
5  $DATA ORALESTLAG_CRSO.CSV IGNORE=C
6
7  $INPUT ID TIME CONC=DV AMT DOSE EVID OCC MDV
8
9  $SUBROUTINE ADVAN2 TRANS2
10
11 $PK
12   OC1=0
13   IF(OCC.EQ.1)OC1=1
14   OC2=0
15   IF(OCC.EQ.2)OC2=1
16
17   BOVCL = ETA(5)*OC1+ETA(6)*OC2
18   BOVV  = ETA(7)*OC1+ETA(8)*OC2
19
20   POPCL = THETA(1)
21   POPV  = THETA(2)
22   POPKA = THETA(3)
23   POPLAG= THETA(4)
24
25   CL    = POPCL*EXP(ETA(1)+BOVCL)      ;CL/F in L/hr
26   V     = POPV*EXP(ETA(2)+BOVV)       ;V/F in L
27   KA    = POPKA*EXP(ETA(3))           ;Absorption rate constant
28   ALAG1 = POPLAG*EXP(ETA(4))          ;Lag time
29
30   S2 = V                               ;scaling factor
31
32
33 $ERROR
34   IPRED=F
35   Y=F+F*ERRCV+ERRSD
36                                     ;Additive and proportional residual error model
37
38 $THETA (0.1,1)      ;POPCL/F
39 $THETA (1,10)      ;POPV/F
40 $THETA (0.1,3)     ;POPKA
41 $THETA (0.01,1)    ;POPLAG
42
43 $OMEGA 0.09        ;BSVCL
44 $OMEGA 0.09        ;BSVV
45 $OMEGA 0.09        ;BSVKA
46 $OMEGA 0.09        ;BSVLAG
47 $OMEGA BLOCK(1) 0.09 ;BOVCL occ=1
48 $OMEGA BLOCK(1) SAME ;BOVCL occ=2;SAME specifies random effects
49                                     ;sampled from the same distribution
50 $OMEGA BLOCK(1) 0.09 ;BOVV occ=1
51 $OMEGA BLOCK(1) SAME ;BOVV occ=2
52
53
54 $SIGMA
55   0.01             ;ERRCV
56   1                ;ERRSD
57
58 $ESTIMATION METHOD=0 MAXEVAL=9999 PRINT=5 POSTHOC
59 $COVARIANCE
60
61 $TABLE ID TIME DV IPRED DOSE
62   NOPRINT ONEHEADER FILE=ORALESTLAG_CRSO.FIT
63
64

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