/\* example from https://stats.idre.ucla.edu/sas/modules/missing-data-in-sas/ \*/

DATA times ;

INPUT id trial1 trial2 trial3 ;

CARDS ;

1 1.5 1.4 1.6

2 1.5 . 1.9

3 . 2.0 1.6

4 . . 2.2

5 2.1 2.3 2.2

6 1.8 2.0 1.9

;

RUN ;

PROC PRINT DATA=times ;

RUN ;

proc means data=times mean ;

var trial1 trial2;

run;

/\* The MEANS Procedure \*/

/\* Variable Mean \*/

/\* trial1 \*/

/\* trial2 \*/

/\* 1.7250000 \*/

/\* 1.9250000 \*/

proc means data=times n nmiss mean;

var trial1 trial2;

run;

/\* The MEANS Procedure \*/

/\* Variable N N Miss Mean \*/

/\* trial1 \*/

/\* trial2 \*/

/\* 4 \*/

/\* 4 \*/

/\* 2 \*/

/\* 2 \*/

/\* 1.7250000 \*/

/\* 1.9250000 \*/

PROC FREQ DATA=times ;

TABLES trial1 trial2 trial3 ;

RUN ;

/\* \*/

/\* The FREQ Procedure \*/

/\* trial1 Frequency Percent Cumulative \*/

/\* Frequency Cumulative \*/

/\* Percent \*/

/\* Frequency Missing = 2 \*/

/\* 1.5 2 50.00 2 50.00 \*/

/\* 1.8 1 25.00 3 75.00 \*/

/\* 2.1 1 25.00 4 100.00 \*/

/\* trial2 Frequency Percent Cumulative \*/

/\* Frequency Cumulative \*/

/\* Percent \*/

/\* Frequency Missing = 2 \*/

/\* 1.4 1 25.00 1 25.00 \*/

/\* 2 2 50.00 3 75.00 \*/

/\* 2.3 1 25.00 4 100.00 \*/

/\* trial3 Frequency Percent Cumulative \*/

/\* Frequency Cumulative \*/

/\* Percent \*/

/\* 1.6 2 33.33 2 33.33 \*/

/\* 1.9 2 33.33 4 66.67 \*/

/\* 2.2 2 33.33 6 100.00 \*/

data times2;

set times;

if trial1=. then trial1=1.725;

run;

proc standard data=times out=times3 replace print;

run;

/\* \*/

/\* The STANDARD Procedure \*/

/\* Name Mean Standard \*/

/\* Deviation N \*/

/\* id 3.500000 1.870829 6 \*/

/\* trial1 1.725000 0.222486 4 \*/

/\* trial2 1.925000 0.292404 4 \*/

/\* trial3 1.900000 0.268328 6 \*/

proc print data=times3;

run;

/\* \*/

/\* Obs id trial1 trial2 trial3 \*/

/\* 1 1 1.500 1.400 1.6 \*/

/\* 2 2 1.500 1.925 1.9 \*/

/\* 3 3 1.725 2.000 1.6 \*/

/\* 4 4 1.725 1.925 2.2 \*/

/\* 5 5 2.100 2.300 2.2 \*/

/\* 6 6 1.800 2.000 1.9 \*/

proc standard data=times mean=2 std=.22

out=times4;

run;

proc print data=times4;

run;

/\* \*/

/\* \*/

/\* \*/

/\* Obs id trial1 trial2 trial3 \*/

/\* 1 1.70601 1.82766 1.69403 1.75403 \*/

/\* 2 1.82361 1.82766 . 2.00000 \*/

/\* 3 1.94120 . 2.04371 1.75403 \*/

/\* 4 2.05880 . . 2.24597 \*/

/\* 5 2.17639 2.28723 2.21855 2.24597 \*/

/\* 6 2.29399 2.05745 2.04371 2.00000 \*/

proc standard data=times out=times5 mean=2 std=.22 replace print;

var trial1 trial2 trial3;

run;

proc print data=times5;

run;

/\* \*/

/\* Obs id trial1 trial2 trial3 \*/

/\* 1 1 1.77751 1.60500 1.75403 \*/

/\* 2 2 1.77751 2.00000 2.00000 \*/

/\* 3 3 2.00000 2.05643 1.75403 \*/

/\* 4 4 2.00000 2.00000 2.24597 \*/

/\* 5 5 2.37081 2.28214 2.24597 \*/

/\* 6 6 2.07416 2.05643 2.00000 \*/