

```

Data helmets;
    INPUT helmet case sex num @@;
    DATALINES;
0 0 0 2 0 0 1 35
0 1 0 5 0 1 1 53
1 0 0 5 1 0 1 16
1 1 0 6 1 1 1 7
;
RUN;

PROC FORMAT;
    VALUE Cformat 1="Case" 0="Control";
    VALUE Eformat 1="Yes Helmet" 0="No Helmet";
    VALUE Sformat 1="Male" 0="Female";
RUN;

PROC FREQ DATA=helmets ORDER=FORMATTED;
    FORMAT helmet Eformat. case Cformat.;
    TABLES helmet*case / NOPERCENT NOCOL NOROW CHISQ ODDSRATIO;
    WEIGHT num;
RUN;

PROC POWER;
    TWOSAMPLEFREQ TEST=pchi
    POWER = .
    ALPHA = 0.05
    ODDSRATIO = 2.5322
    REFPROPORTION = 0.362068966 /* 21/58 from helmet+control / nonhelmet+case */
    GROUPWEIGHTS = (95 34) /* (control case) */
    NTOTAL=129;
RUN;

PROC POWER;
    TWOSAMPLEFREQ TEST=pchi
    POWER = 0.80
    ALPHA = 0.05
    ODDSRATIO = 2.5322
    REFPROPORTION = 0.362068966
    GROUPWEIGHTS = (6 7) /* (control case) */
    NTOTAL=.;
RUN;

DATA smallstudy;
    INPUT exposure case num;
    /*6 exposures in total where 5 of those exposures are cases */
    /*thus there is 1 exposure that is not a case */
    /* since there are 5 exposure + case there must be 5 non-exposed + case */
    /* non-exposed + non-cases = 20 - 5 - 1 - 5 = 9 */
    DATALINES;
0 0 9
0 1 5
1 0 1
1 1 5
;
RUN;

PROC FORMAT;
    VALUE Eformat 1="Exposed" 0="Unexposed";
    VALUE Cformat 1="Case" 0="Control";
RUN;

PROC FREQ DATA=smallstudy ORDER=FORMATTED;
    FORMAT exposure Eformat. case Cformat.;
    TABLES exposure*case / NOPERCENT NOCOL NOROW CHISQ;
    WEIGHT num;
RUN;

```