

Models In Epidemiology And Biostatistics

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Session 2 : Examples

Refer to the file : Session_2_Examples.dta

This .dta file actually contains eight example datasets.

Each dataset offers a different scenario that might be seen in health research.

Each dataset can be described as four 2 by 2 tables stratified on age [Y,O] and gender [F,M].

You can then construct a total of nine 2 by 2 tables:

- 1) the given 4 tables
- 2) the 2 tables stratified on age only
- 3) the 2 tables stratified on gender only
- 4) the 'crude' 2 by 2 table

These example datasets provide various types of modification and confounding as illustrated in Session 2 with population odds ratios. Each example provides estimated odds ratios from the data

A basic display of each of the eight datasets can be done with:

table nd ne ga [fw=ct1] : the four 2 by 2 tables changing ct1 through to ct8

Then, an analysis might start with:

```
cc dis exp if age==0 & gender==0 [fw=ct1]
```

```
cc dis exp if age==1 & gender==0 [fw=ct1]
```

```
cc dis exp if age==0 & gender==1 [fw=ct1]
```

```
cc dis exp if age==1 & gender==1 [fw=ct1]
```

... and then,

```
cs dis exp [fw=ct1], by(gender age) or
```

```
cc dis exp [fw=ct1], by(age)
```

```
cc dis exp [fw=ct1], by(gender) ...and so on
```