

```
* PRE-PROCESSING provides ;
```

```
DATA: studybase
```

idnr	sex	birthdate	entry	exit
1	1	1983.0	2000.0	2008.0
2	2	1983.0	2000.0	2008.0

```
DATA: ytsi
```

idnr	disease	eventtime
1	1	2003.5
2	2	2005.5

```
* STRATIFICATION AND AGGREGATION ;
```

```
%stratify(data=studybase outcomes=ytsi out=yt  
eventtime=eventtime eventtype=disease  
mode=i noeventvalue=0 subject=idnr scale=1;  
class sex;  
axis age o=birthdate c=0 to 90 by 5;  
axis yr o=0 c=2000 to 2008 by 2);
```

```
DATA: yt - (re-)ordered to facilitate reading
```

sex	disease	age	yr	events	pyrs
1	0	15	2000	0	2
1	0	15	2002	0	1
1	0	20	2002	0	1
1	1	20	2002	1	0
1	0	20	2004	0	2
1	0	20	2006	0	2
2	0	15	2000	0	2
2	0	15	2002	0	1
2	0	20	2002	0	1
2	0	20	2004	0	2
2	2	20	2004	1	0
2	0	20	2006	0	2

```
* POST-PROCESSING ;
```

```
%obsexp(data=yt, ratedat=perm.rates, out=sirdata,  
eventtype=disease, noeventvalue=0,  
byvars=sex, adjvars=sex age yr);
```

```
data a; set sirdata; logexp=log(expected); run;
```

```
* ANALYSIS ;
```

```
proc genmod;  
model events= /d=p offset=logexp lrci;  
by disease sex;  
run;
```