

STEP 1:  
DESCRIBE  
EXPERIMENT

STEP 2:  
SPECIFY  
STATISTICAL MODEL

STEP 3:  
DEFINE STATISTICAL  
QUERY

STEP 4:  
CONSTRUCT  
ESTIMATOR

STEP 5:  
OBTAIN  
INFERENCE

STEP 6:  
MAKE SUBSTANTIVE  
CONCLUSION

***What is the causal risk ratio in  
mortality between treatment groups?***

$$\psi_{causal} = \frac{P(Y_1 = 1)}{P(Y_0 = 1)}$$

$W_1$	$W_2$	$W_3$	$A$	$Y$	$Y_1$	$Y_0$
21	65	F	1	1	1	?
22.3	28	F	0	0	?	0
19.4	49	F	1	0	0	?
24	77	M	1	0	0	?