

Stat 145, Wed 1-Sep-2021 -- Wed 1-Sep-2021  
Biostatistics  
Spring 2021

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Wednesday, September 01st 2021  
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Due:: PS00

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Wednesday, September 1st 2021  
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Wk 1, We

Topic:: Bias

Read:: Lock5 1.2

Read:: Lock5 2.1

HW:: PS01

HW:: PS02

Discussions and questions about PS00

Bias

- parameter vs. statistic (population vs. sample)  
symbols for common parameters
- sampling error: difference between statistic and parameter  
liken to shooting at a target
- biased sampling  
tends to make sampling error behave predictably in some direction  
usual antidote: use randomness in selecting sample

Socratic quiz: Lock5-1.2

*Only got to here*

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Association

- discussed between variables: generally have two
- means knowledge of a subject's value for one variable ...
- explanatory variable and response variable  
height and weight  
sex and length of life  
number of bars in a community and the number of churches there
- not same as causality

2. `nrow( filter( NHANES, Poverty < 1 ) )`

Ans. 1706

3. 32, from `tally( ~ nPregnancies, data = NHANES )`

4. Too "busy" a result from `tally` for some quantitative variables (like BMI), but it does work well for others (like `nPregnancies`).