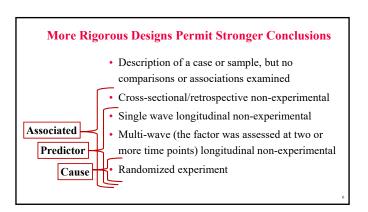


Introduction

• Research is the foundation of effective assessment, intervention, and policy aimed at reducing sexual offending

• However, studies vary in how informative and conclusive they are, and there are differences of opinion about standards for interpreting evidence



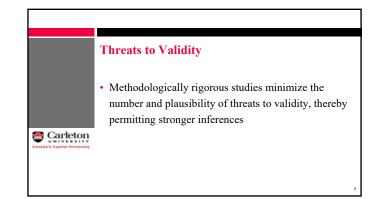
## **More Rigorous Designs Permit Stronger Conclusions**

# Weakest inferences

Strongest

inferences

- Description of a case or sample, but no comparisons or associations examined
- Cross-sectional/retrospective non-experimental
- Single wave longitudinal non-experimental
- Multi-wave (the factor was assessed at two or more time points) longitudinal non-experimental
- Randomized experiment

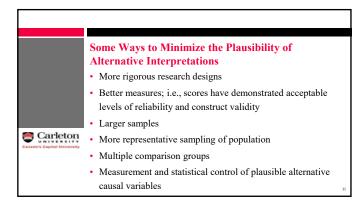


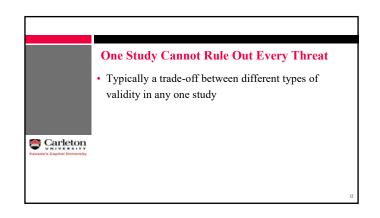
# Carleton UNIVERSITY Canada's Capital University

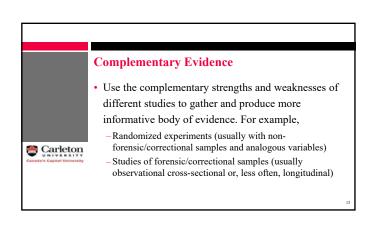
• "Threats to validity are reasons why we can be partly or completely wrong when we make an inference about covariance [statistical conclusion validity], about causation [internal validity], about constructs [construct validity], or about whether the causal relationship holds over variations in persons, settings, treatments, and outcomes [external validity]" (Shadish et al., 2002, p. 39)

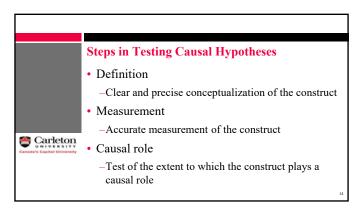
## 4 Main Types of Validity (Shadish et al., 2002)

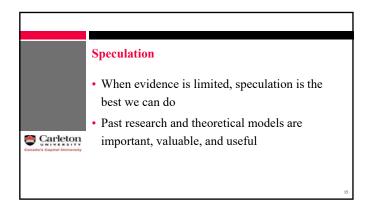
- · Internal validity
  - To what extent does the evidence reflect a causal relationship between the variables as measured or manipulated?
- · Construct validity
  - To what extent do the people, places, and variables as measured or manipulated represent the presumed constructs?
- External validity
  - To what extent does the causal relationship generalize to other people, places, and variables?
- · Statistical conclusion validity
  - To what extent do the results accurately reflect the statistical significance or strength of association between variables?

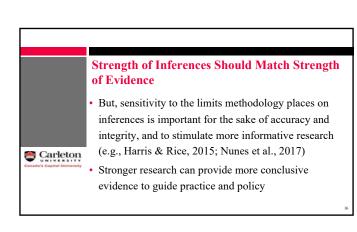


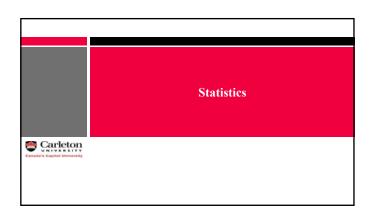


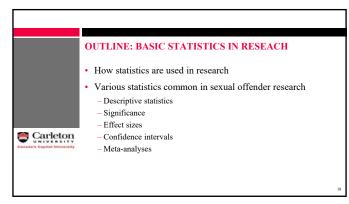


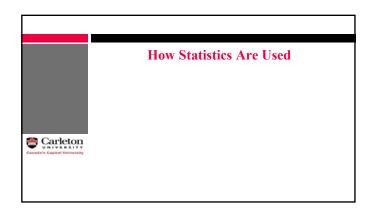






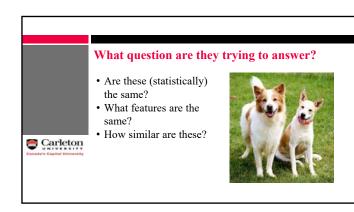




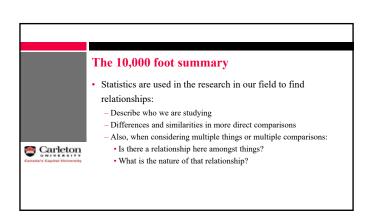




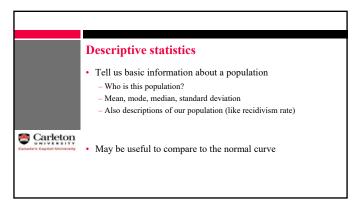


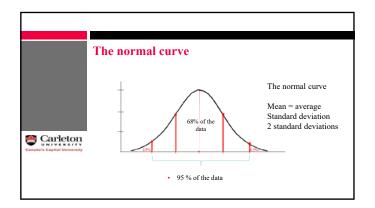


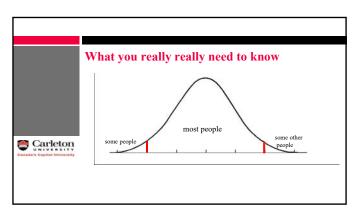


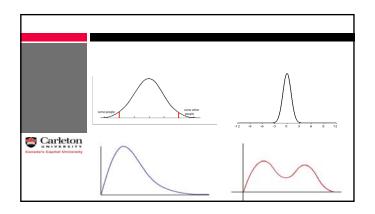


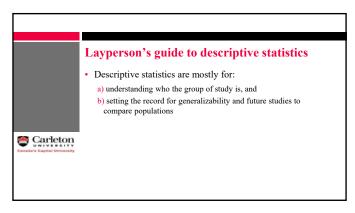


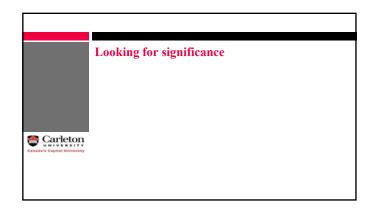






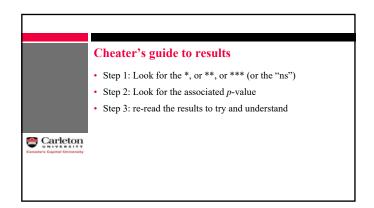


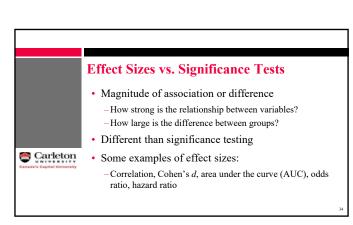


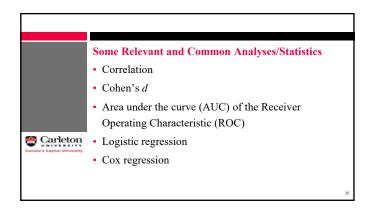


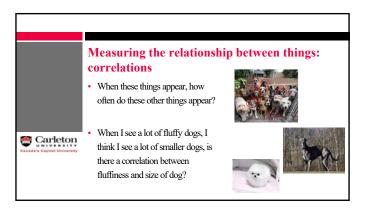
### p

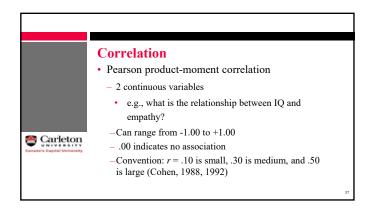
- Probability that there would be no difference or no association if the analysis were repeated with other samples of the same population (how likely is it that this is just a fluke?)
- If p is less than a pre-determined cutoff (usually p < .05) then the difference or association is statistically significant
- e.g., r = .47, p = .03
  - if the same population were sampled 100 times, the correlation should be zero or negative in only 3 of those samples
- e.g., r = -.47, p = .03
  - if the same population were sampled 100 times, the correlation should be zero or positive in only 3 of those samples

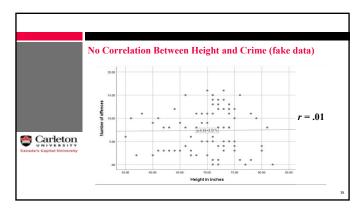


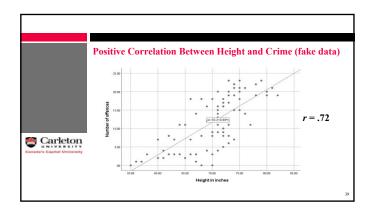


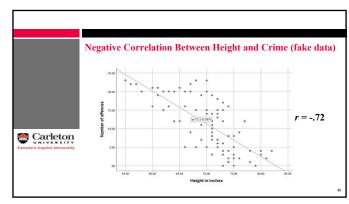


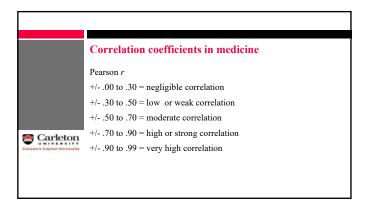


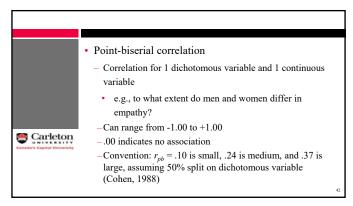


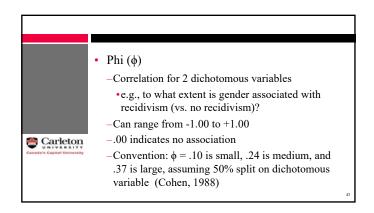




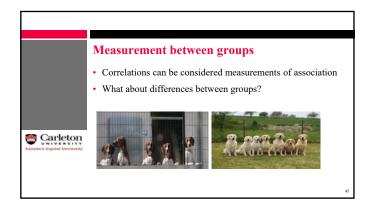


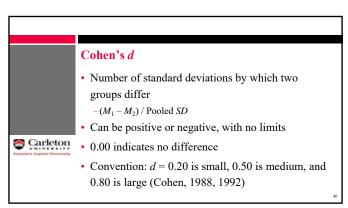


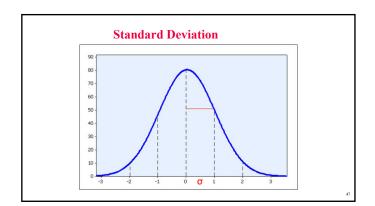


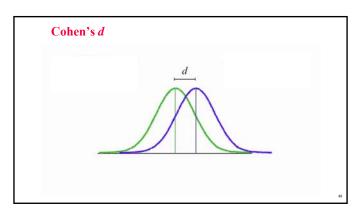


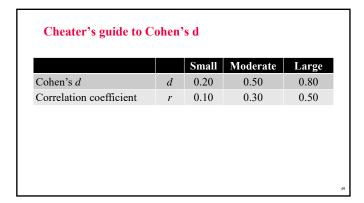
		Small association	Medium association	Large association
"Pearson"	r	.10	.30	.50
"point-biserial correlation"	$r_{pb}$	.10	.24	.37
"Phi"	ф	.10	.24	.37
Medicine (approximately)	r	.30	.50	.70
Finding an $r$ of even .20 is in The average $r$ for social psyc			multifactorial	phenomena

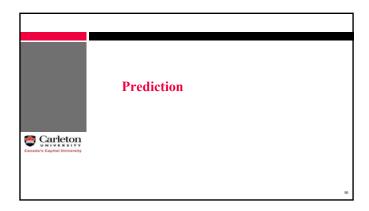


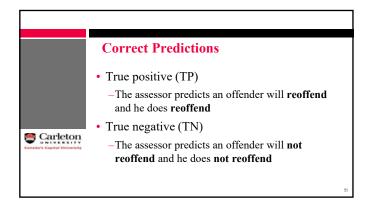


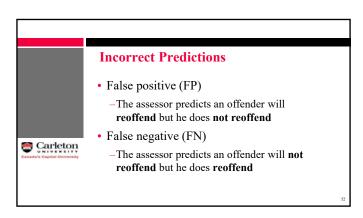


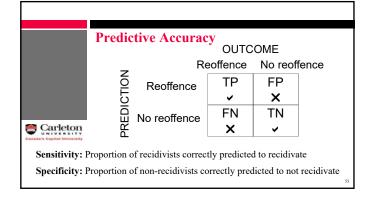






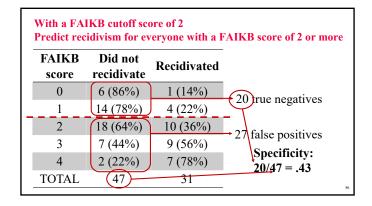






FAIKB score	Did not recidivate	Recidivated
0	6 (86%)	1 (14%)
1	14 (78%)	4 (22%)
2	18 (64%)	10 (36%)
3	7 (44%)	9 (56%)
4	2 (22%)	7 (78%)
TOTAL	47	31

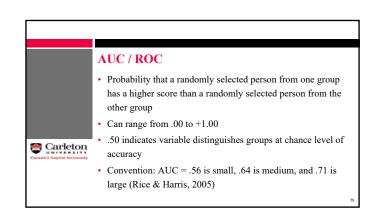
		FAIKB score of 2 or more
Did not recidivate	Recidivated	-
6 (86%)	1 (14%)	→ 5 false negatives
14 (78%)	4 (22%)	_ statse negatives
18 (64%)	10 (36%)	26 muo nositivos
7 (44%)	9 (56%)	26 rue positives
2 (22%)	7 (78%)	Sensitivity: 26/31 = .84
47	(31)	20,0104
	Did not recidivate 6 (86%) 14 (78%) 18 (64%) 7 (44%) 2 (22%)	recidivate  6 (86%)

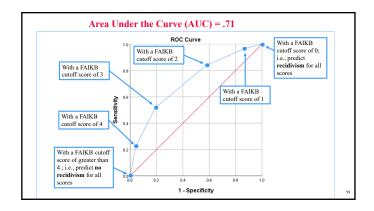


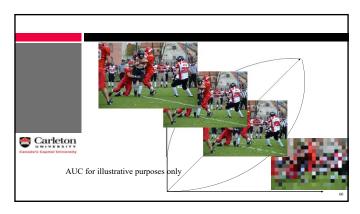
Area under the curve (AUC) of the receiver operating characteristic (ROC)

• Indicates overall accuracy considering both sensitivity and specificity

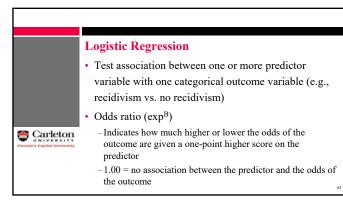
• Plots sensitivity vs. specificity (1 – specificity) for each cutoff score

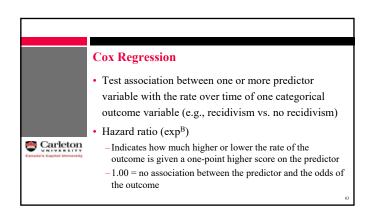


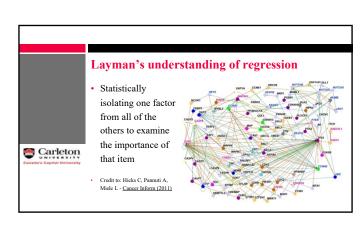


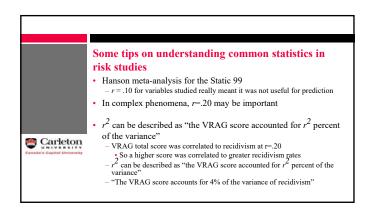


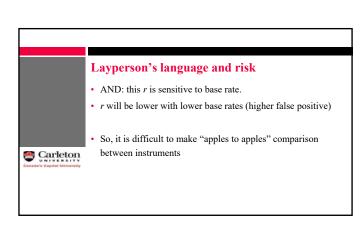


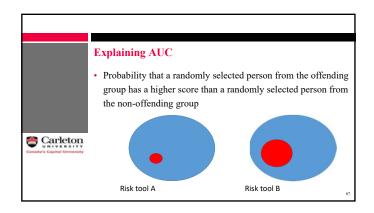


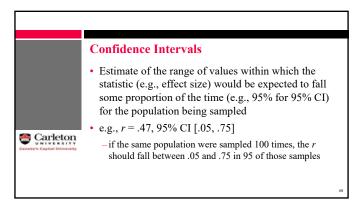


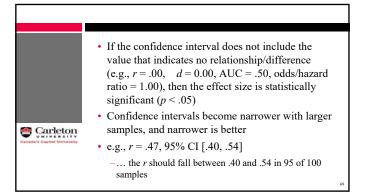


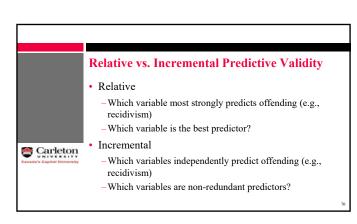


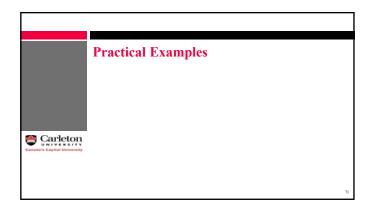












Fable 1 Comparison of sexual offenders who admitted their index offenses to those who denied the index offenses								
Variable	Admitter		Denier			95% CI		
	n	M (SD) or %	n	M (SD) or %	d	Lower	Uppe	
PCL-R	250	17.99 (7.70)	78	19.55 (8.06)	0.20	-0.06	0.45	
RRASOR-M	350	1.11 (1.22)	135	1.34 (1.17)	0.19	-0.01	0.39	
Recidivism Sexual	352	14.8%	137	15.3%	0.02	-0.18	0.21	
Violent	352	23.6%	137	27.0%	0.08	-0.12	0.28	

