

Value of Evaluation

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Review of Logic Models

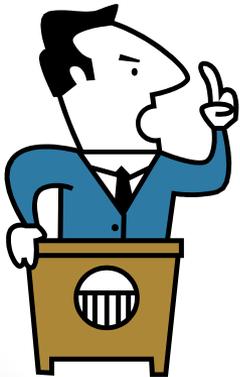
- 20 Forward Logic Models
- 20 Backward Logic Models
- 10 Recursive Logic Models
- 10 3-D Logic Models



GLM	GED	GEE
MHR	FUBAR	FPF
RPM	GIS	CAD
COPD	MPG	NASA
MPS	BOHICA	USMA
USMC	USA	USCG
USN	USAF	NCSS
NASCAR	LAD	USAFA
SAS	SPSS	BMDP
GPM	USCGA	SBS
TBS	OCS	SOG
BMI	BMR	NHLBI
SBP	DBP	CDC
NIDDK	NIH	SEAL
FADAC	FO	FDO

Evaluation without data is only?

Opinion



Daniel Patrick Moynihan

1927 – 2003

- Everyone is entitled to their own opinions, but they are not entitled to their own facts. (attributed)

Some Definitions

- **Research:** Merriam Webster Dictionary
 - careful or diligent search
 - **studious inquiry or examination; *especially* : investigation or experimentation aimed at the discovery and interpretation of facts, revision of accepted theories or laws in the light of new facts, or practical application of such new or revised theories or laws**
 - the collecting of information about a particular subject

Some Definitions

- **Evaluate:** Merriam Webster Dictionary
 - to determine or fix the value of
 - **to determine the significance, worth, or condition of, usually by careful appraisal and study**

Some Definitions

- **Measure:** Merriam Webster Dictionary
 - a (1) : an adequate or due portion (2) : a moderate degree; also : MODERATION, TEMPERANCE (3) : a fixed or suitable limit : BOUNDS <rich beyond measure>
 - **b : the dimensions, capacity, or amount of something ascertained by measuring**
 - c : an estimate of what is to be expected (as of a person or situation)
 - **d (1) : a measured quantity (2) : AMOUNT, DEGREE**

Measurement and Evaluation

Baumgartner TA, Jackson AS: *Measurement for Evaluation in Physical Education and Exercise Science*

- Measurement and evaluation are interdependent concepts.
- Evaluation is a process that uses measurements, and the purpose of measurement is to collect information.
- In the evaluation process, information is interpreted according to ***established standards*** so that decisions can be made.



N.C.I. cancer funding based on 2006 death rates and incidence rates for some of the most common and deadliest cancers. (N.Y.T.)

Cancer (Deaths)	N.C.I. Funding per Death
Lung (162,460)	\$1,630
Colon (55,170)	\$4,566
Breast (41,430)	\$13,452
Pancreas (32,300)	\$2,297
Prostate (27,350)	\$11,298
Cancer (New cases)	N.C.I. Funding per New Case
Prostate (234,460)	\$1,318
Breast (214,640)	\$2,596
Lung (174,470)	\$1,518
Colon (106,680)	\$2,361
Pancreas (33,730)	\$2,200



The Surgical Treatment of Coronary Heart Disease: a Review and Critique of the Literature

HENRY BUCHWALD, Chest. **1959**;36(2):189-198. doi:10.1378/chest.36.2.189

- The three leading surgical approaches to the revascularization of an ischemic myocardium are those of: a.) **Beck: heart surface abrasion; insertion of coarsely ground asbestos**; occlusion of the coronary sinus to 3 mm.; and application of the pericardium and mediastinal fat pad to the surface of the heart; b.) Thompson: insertion of magnesium silicate, a non-absorbable and irritating substance into the pericardial sac. c.) Vineberg: implantation of the left internal mammary artery into the left ventricle via a myocardial tunnel.

Some Other Great Ideas

- Blood Letting
- Phrenology
- Somatotyping (Original Use)
- Vitamin A Supplementation
- Vitamin E Supplementation
- Hormone Replacement Therapy
- New Math
- Open Class Rooms

Evidence Categories

(N.I.H., N.H.L.B.I.)

Evidence Category	Sources of Evidence	Definition
A	Randomized controlled trials (rich body of data)	Evidence is from endpoints of well-designed RCTs (or trials that depart only minimally from randomization) that provide a consistent pattern of findings in the population for which the recommendation is made. Category A therefore requires substantial numbers of studies involving substantial numbers of participants.
B	Randomized controlled trials (limited body of data)	Evidence is from endpoints of intervention studies that include only a limited number of RCTs, post hoc or subgroup analysis of RCTs, or meta-analysis of RCTs. In general, Category B pertains when few randomized trials exist, they are small in size, and the trial results are somewhat inconsistent, or the trials were undertaken in a population that differs from the target population of the recommendation.
C	Nonrandomized trials Observational studies	Evidence is from outcomes of uncontrolled or nonrandomized trials or from observational studies.
D	Panel Consensus Judgment	Expert judgment is based on the panel's synthesis of evidence from experimental research described in the literature and/or derived from the consensus of panel members based on clinical experience or knowledge that does not meet the above-listed criteria. This category is used only in cases where the provision of some guidance was deemed valuable but an adequately compelling clinical literature addressing the subject of the recommendation was deemed insufficient to justify placement in one of the other categories (A through C).

Uniformity

Or, we are all in this together



Q6a: Share over the counter pain medicine	Freq.	Percent	Cum.
Not	28	2.47	2.47
Over the Counter Pain Relief Meds- Would Share	6	0.53	3
Over the Counter Pain Relief Meds- Would not share	22	1.94	4.94
Over the Counter Pain Relief Meds- Would share	66	5.82	10.76
W.N.S.	52	4.59	15.34
W.S.	169	14.9	30.25
WNS	90	7.94	38.18
WS	306	26.98	65.17
Would	184	16.23	81.39
Would	2	0.18	81.57
Would Not	71	6.26	87.83
Wouldn't	1	0.09	87.92
Ws	1	0.09	88.01
blank	33	2.91	90.92
n/a	1	0.09	91.01
would not share	17	1.5	92.5
would share	63	5.56	98.06
would share	22	1.94	100

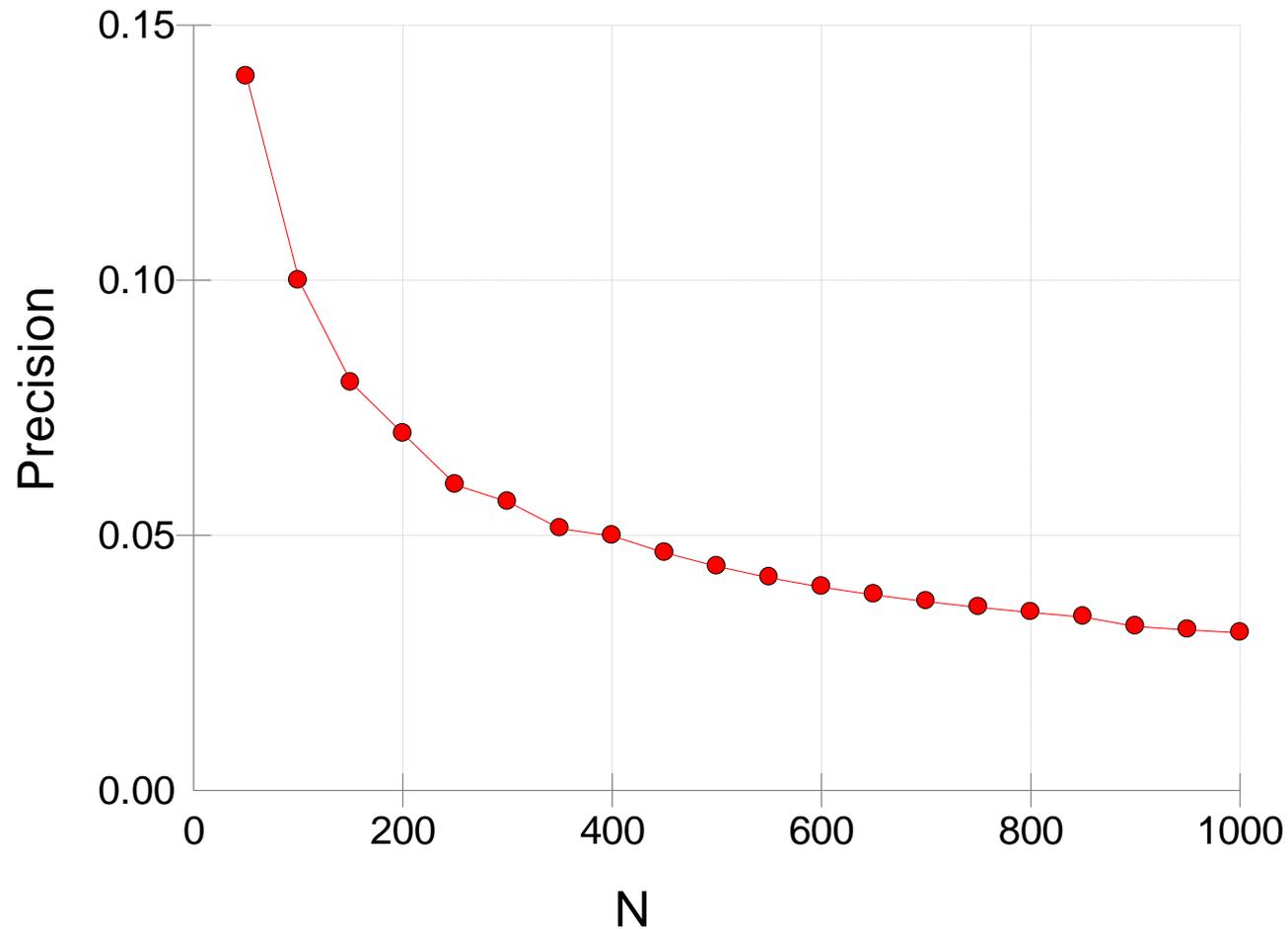
R.B.S.S. Survey

Responsible Beverage Sales and Service

- Three versions (should only be 1 version)
- One permutation (pre-test version 1 with post-test version 2)
- Eight other possible permutations
- At least 4 different sets of pre and post tests were in use

Sample Size

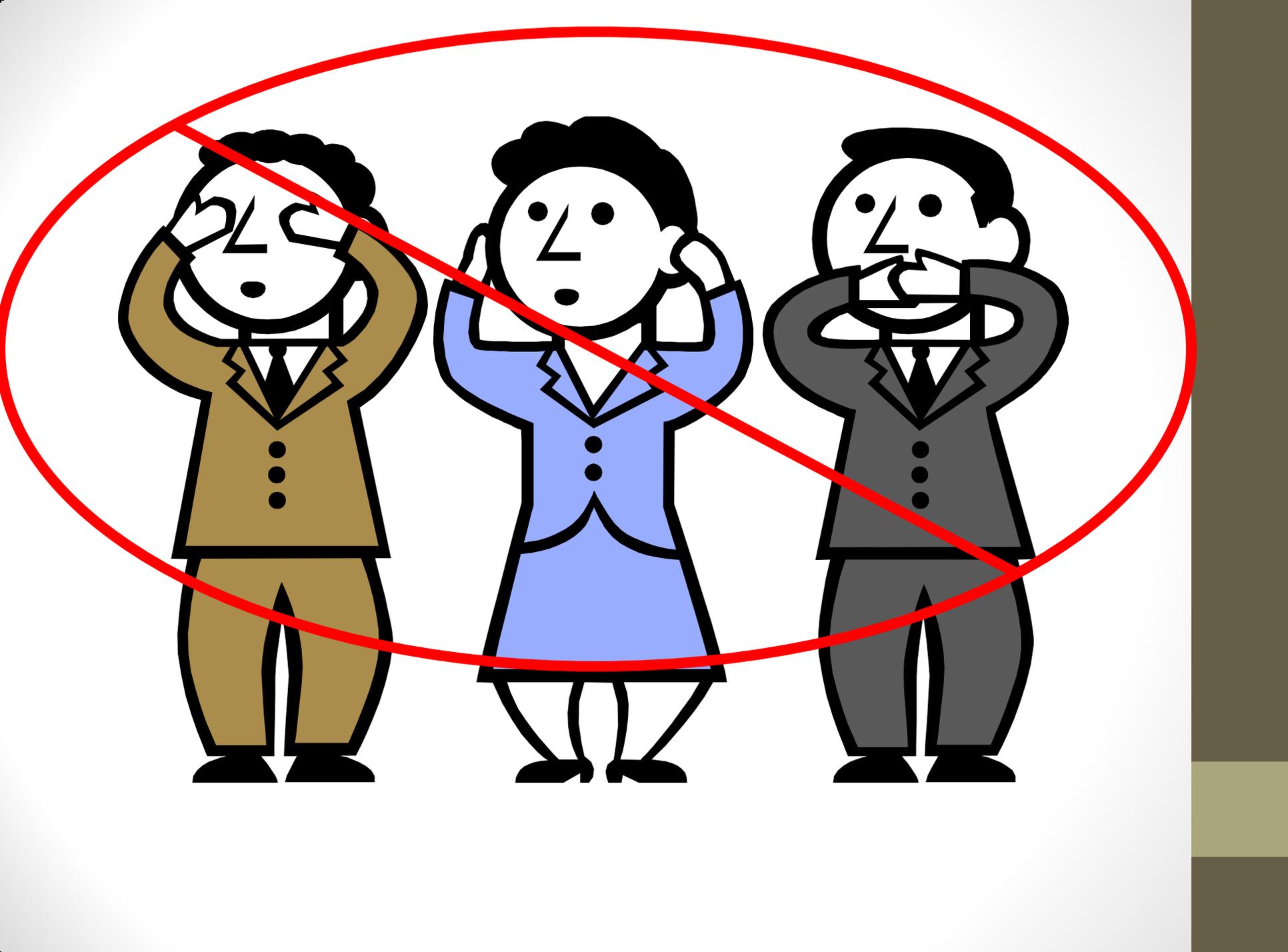
Precision vs N with C.C.=0.95 P=0.50000 C.I. Mean



?

"Are we having any impact or just howling at the moon?"





Truth

- “If you tell the truth, you don't have to remember anything.”
— [Mark Twain](#)
- “The truth is rarely pure and never simple.”
— [Oscar Wilde, *The Importance of Being Earnest*](#)
- “The truth will set you free, but first it will piss you off.”
— [Gloria Steinem](#)
- “Facts do not cease to exist because they are ignored.”
— [Aldous Huxley, *Complete Essays 2, 1926-29*](#)
- “Men occasionally stumble over the truth, but most of them pick themselves up and hurry off as if nothing ever happened.”
— [Winston Churchill](#)
- “In a time of deceit telling the truth is a revolutionary act.”
— [George Orwell](#)
- “The unexamined life is not worth living.”
— [Socrates](#)