Uvedení do replikační krize v psychologii

Marek Vranka

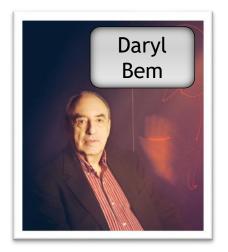
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Feeling the Future: Experimental Evidence for Anomalous Retroactive Influences on Cognition and Affect

Daryl J. Bem Cornell University

The term *psi* denotes anomalous processes of information or energy transfer that are currently unexplained (conscious otherwise themself themself



Psychology's Ongoing Credibility **Crisis**

New studies have intensified the debate over psychology's "reproducibility" problems.

Every talk should start with...

Speaking of Science

No, science's reproducibility problem is not limited to psychology The Washington Post Democracy Dies in Darkness

POLITICS & POLICY

In Medicine, the Science Has Stopped Working By PASCAL-EMMANUEL GOBRY | November 15, 2017 4:25 PM

Can Reproducibility in Chemical Research be Fixed?

BY ANDY COCKBURN, PIERRE DRAGICEVIC, LONNI BESANÇON, AND CARL GUTWIN

Threats of a Replication Crisis AUGUST 2020 | VOL. 63 | NO. 8 in Empirical Computer Science

The replication crisis has engulfed economics

November 3, 2015 11.31am AEDT

FROM SLATE, NEW AMERICA, AND ASU

COMMENT · 12 APRIL 2021

Quantum computing's reproducibility crisis: Majorana fermions

Cancer Research Is Broken

There's a replication crisis in biomedicine—and no one even knows how deep it runs.

/

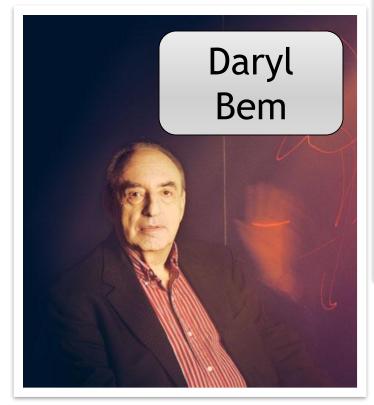
1956 1975 1979 1987 1993
De Groot Greenwald Rosenthal Newcombe Dickersin & Min

+ spousta dalších, Meehl, Cohen, Sterling, Vul....

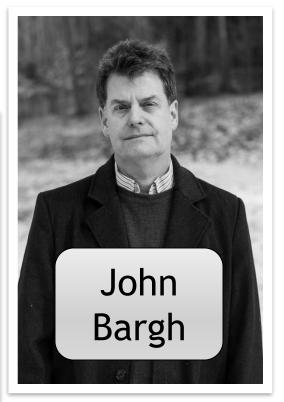
Failure to distinguish between hypothesis-testing and hypothesis-generating (exploratory) research -> misuse of statistical tests



2011 - 2012







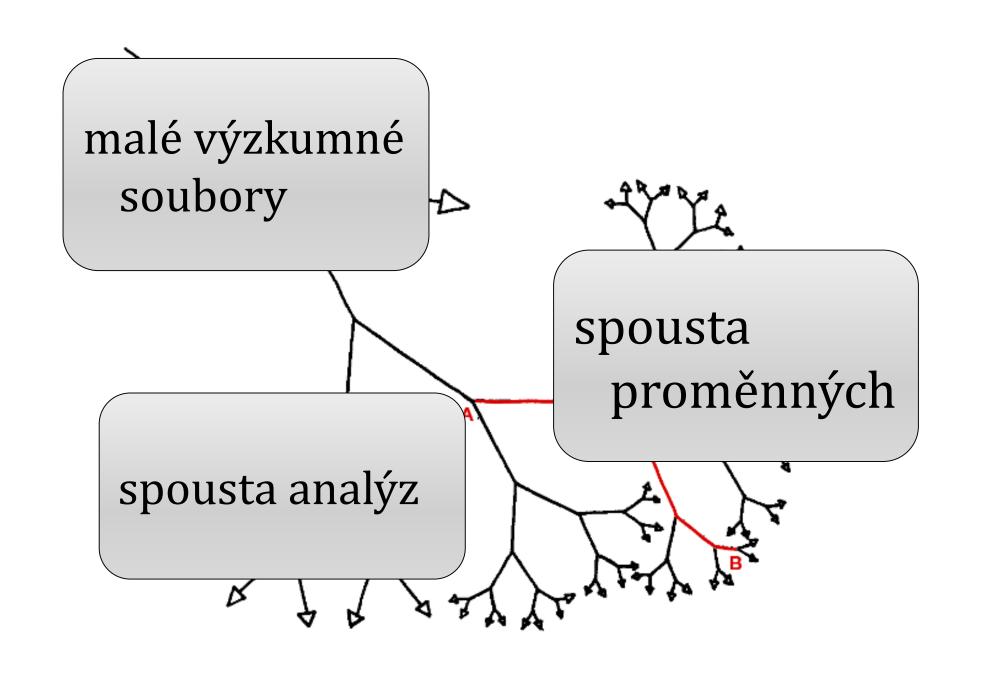
Bem, D. J. (1987). Writing the empirical journal article.

Which Article Should You Write?

the article that makes the most sense now that you have seen the results.

let us at least become intimately familiar with the record of their behavior: the data. Examine them from every angle. Analyze the sexes separately. Make up new composite indices. If a datum suggests a new hypothesis, try to find further evidence for it elsewhere in the data. If you see dim traces of interesting patterns, try to reorganize the data to bring them into bolder relief. If there are participants you don't like, or trials, observers, or interviewers who gave you anomalous results, drop them (temporarily). Go on a fishing expedition for something—anything—interesting.

No, this is not immoral.



"Flexibilita" výzkumníků

- Simmons, Nelson, Simonshon, False Positive Psychology
 - koncept "researchers degrees of freedom"

Table 1 Likelihood of Obtaining a False-Positive Result				
až 61% false		Significance level		
	ees of freedom	p < .1	p < .05	p < .01
positive rate	dependent variables (r = .50)	17.8%	9.5%	2.2%
	tion of 10 more observations	14.5%	7.7%	1.6%
per cell				
Situation C: controlling for gender or interaction of gender with treatment		21.6%	11.7%	2.7%
Situation D: dropping (or not dropping) one of three conditions		23.2%	12.6%	2.8%
Combine Situations A and B		26.0%	14.4%	3.3%
Combine Situations A, B, and C		50.9%	30.9%	8.4%
Combine Situations A, B, C, and D		81.5%	60.7%	21.5%

Vohs et al. (2006) "the authors conducted 2 additional studies that showed no effects" and "did not report 19 additional measures that were statistically unchanged".





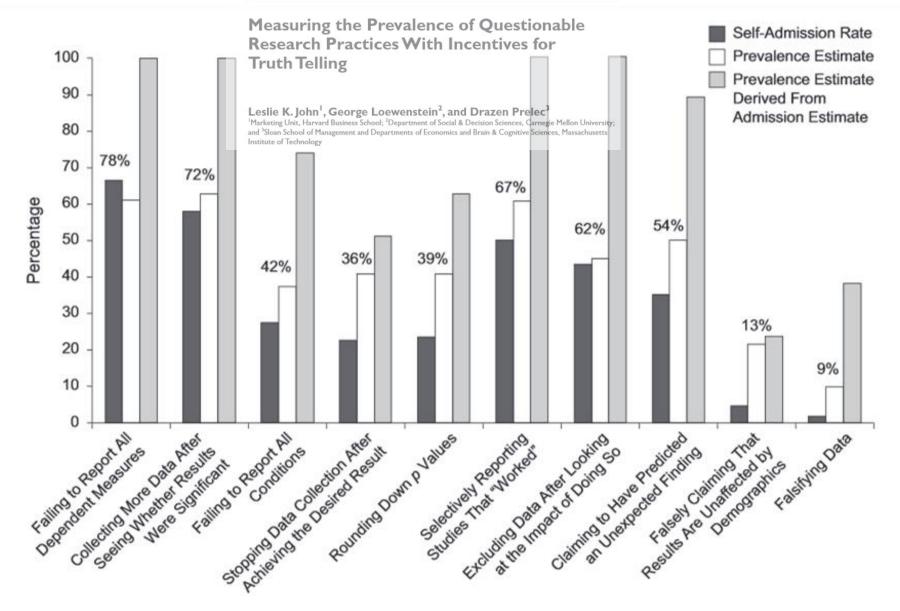


Fig. 1. Results of the Bayesian-truth-serum condition in the main study. For each of the 10 items, the graph shows the self-admission rate, prevalence estimate, prevalence estimate derived from the admission estimate (i.e., self-admission rate/admission estimate), and geometric mean of these three percentages (numbers above the bars). See Table 1 for the complete text of the items.

"I'm not cynical about researchers' intentions - I truly believe that almost nobody thinks they're p-hacking and almost everybody believes their effects are real."



transparentnost

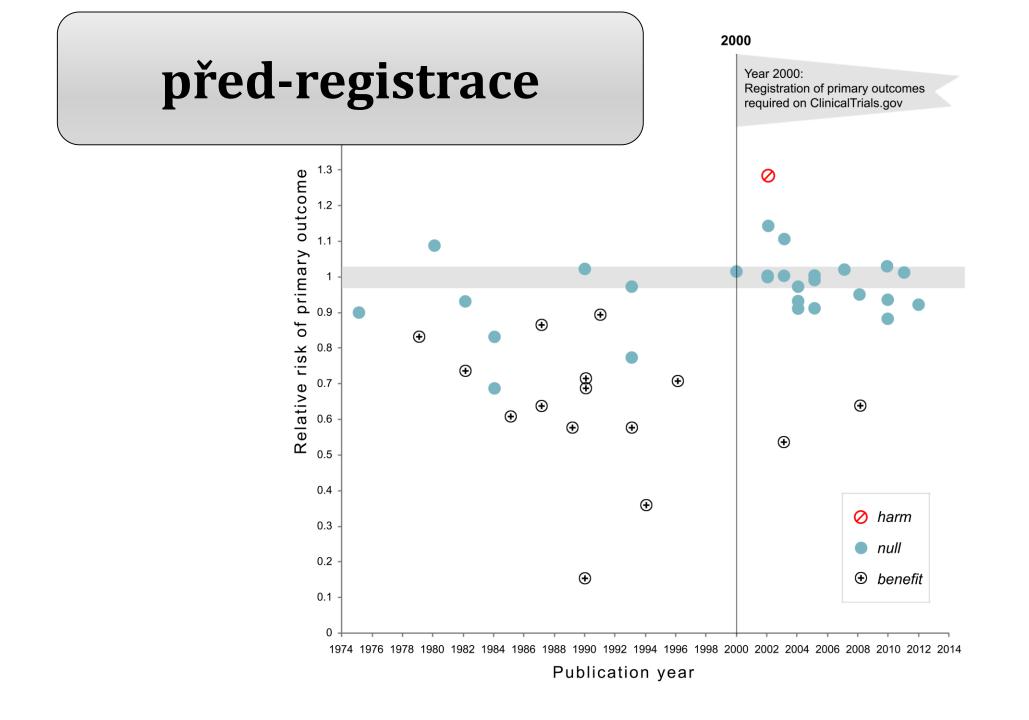
"We report how we determined our sample size, all data exclusions (if any), all manipulations and all measures in the study."

CENTER FOR

PEN SCIENCE

větší datové soubory





více studií / replikací

LECTIONS

ABOUT

SIGN UP

Curated Evidence Collections

Social Priming / Embodiment

Cleanliness priming – Replications (7) 🔗

Schnall, Benton, & Harvey (2008a)

With a Clean Conscience: Cleanliness Reduces the Severity of Moral Judgments

DOI:10.1111/j.1467-9280.2008.02227.x



