Northern Constellation Conference

The Peltzman Effect: Unintended Consequences During a Global Pandemic

May 8th, 2020

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Disclosures:

No grants or consulting fees Senior editor of AEM No funding from pharma or medical device industry Faculty for CCME & EMRAP Expert for medical malpractice Pediatric resuscitation device patent

Aration

COVID Times

Objectives:

Discuss EBM Critical Appraisal Peltzman Effect

EBM

Conscientious Explicit Judicious Best Evidence Shared Decisions Care Individual Patients

Dr. David Sackett



Levels of Evidence

n=1

 Systematic Review Appraised Topics Appraised Article • RCT Cohort Study • Case Report Expert Opinion

Systematic Review Meta Analysis

GIGO (Garbage In - Garbage Out)

Parachute Trial

Smith & Pell BMJ Dec 2003

Hayes et al. CMAJ Jan 2018

TANDEM

Parachute Trial Yeh et al Dec 2018

Five Alternatives to EBM

Adapted from Isaacs and Fitzgerald: BMJ Dec 1999

1. Eminence -Based Medicine (EmBM)

2. Vehemence-Based Medicine (VBM)

3. Eloquence -Based Medicine (EIBM)

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4. Nervous-Based Medicine (NBM)

5. Confidence-Based Medicine (CBM)*

* Restricted to Surgeons

EBM is the Worst...

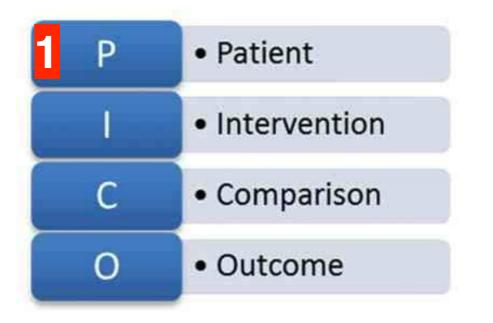
"Democracy is the worst form of government except all the others that have been tried." Sir Winston Churchill



Me trying to explain the COVID-19 policies that were changed 6 times today to the oncoming shift



5 Step of Critical Appraisal



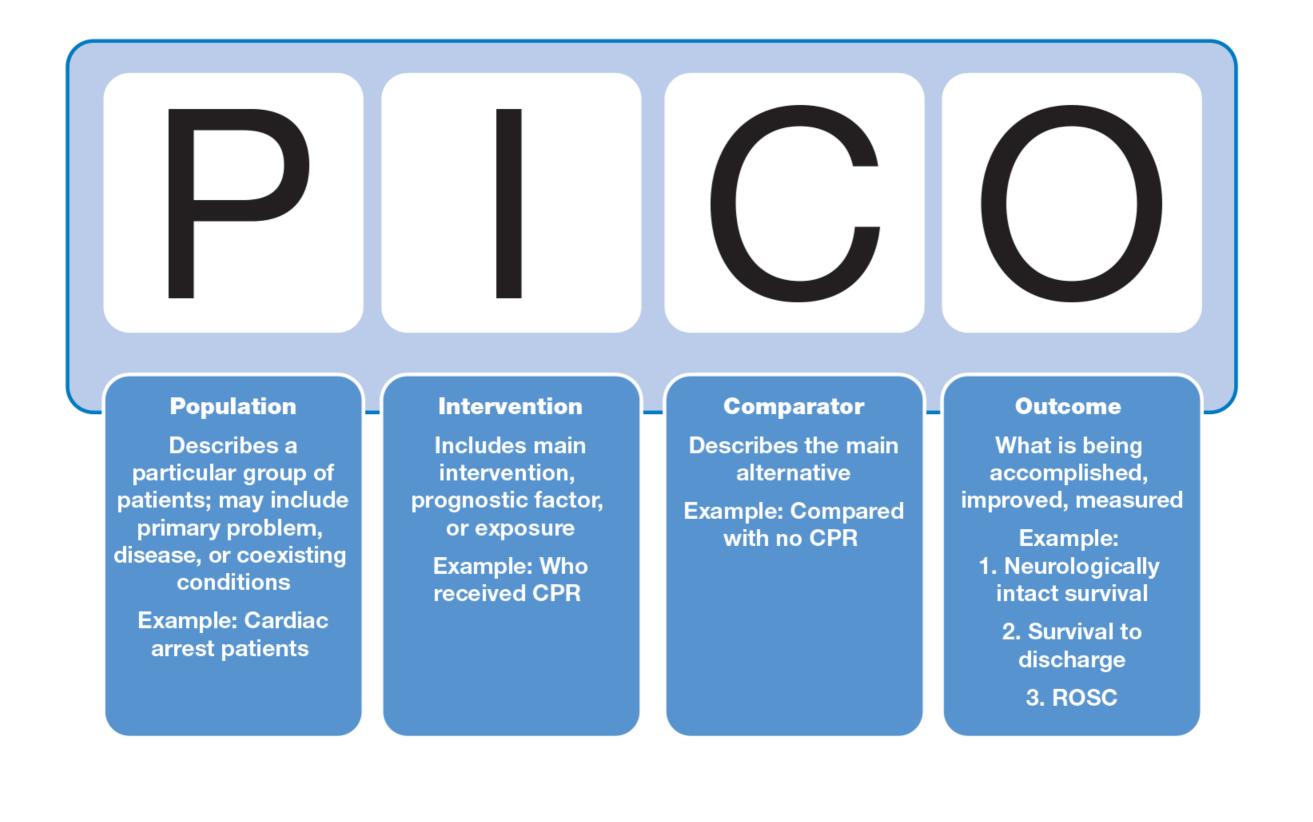








Step 1: PICO



Step 1: Population



Step 1: Intervention



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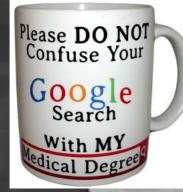


Step 1: Outcomes (DOOs, LOOs, MOOs or POOs)

Search Strate Jy



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Trip



ClinicalTrials.gov



Background Information, Expert Opinion, Non-EBM Guidelines

Step 4: Critically Appraise

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www.CEMB.net

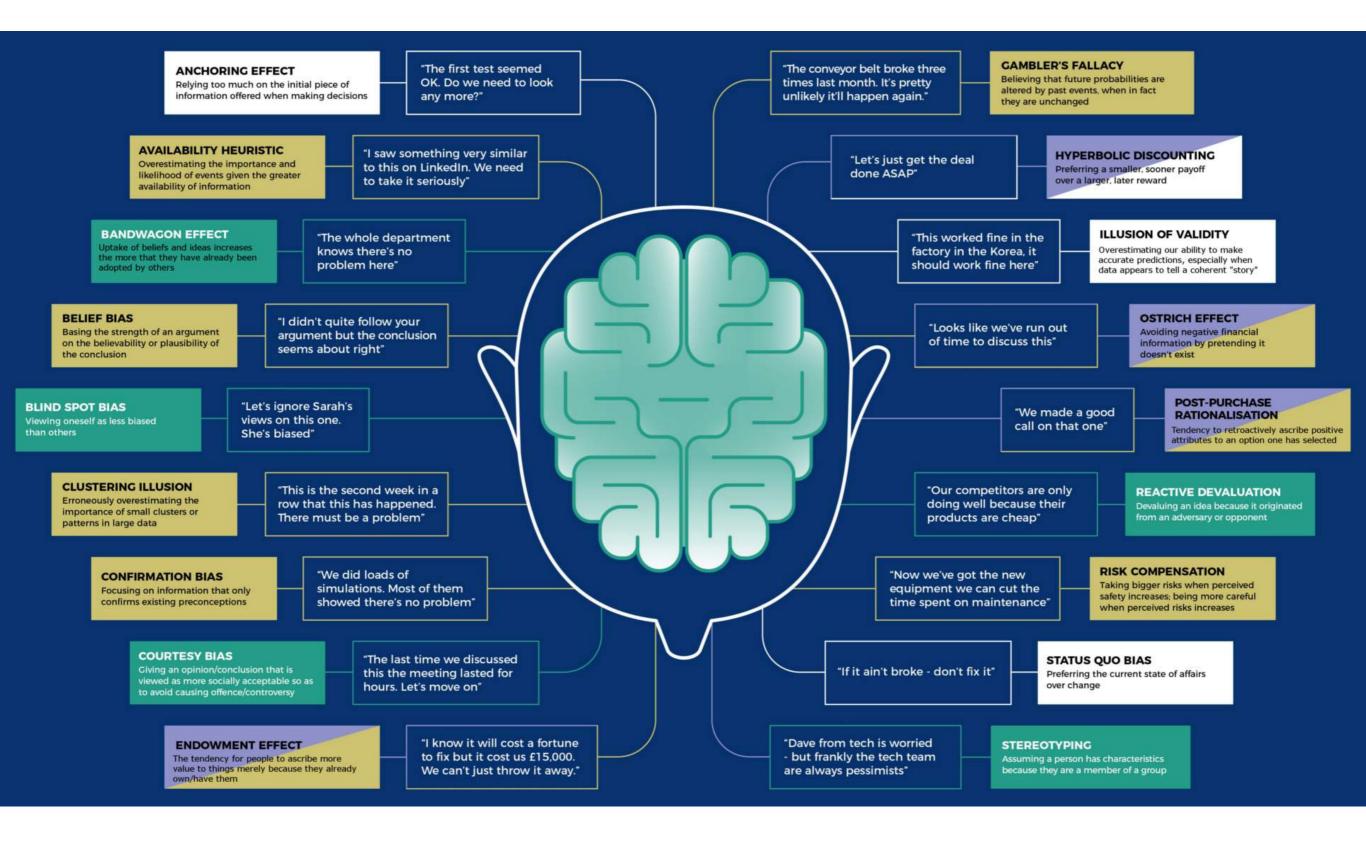
Step 5: Practice Changing?



NNT & NNH



Cognitive Biases



Bias

"Truth"

Random Noise

Dr. Andrew Worster

-

It all depends!

New drinking game

Take a shot every time your Service changes their Covid-19 protocols





Peltzman Effect

The Effects of Automobile Safety Regulation Journal of Political Economy 1975



Anti-Lock Breaks

GS

Condoms

Shelton JD. Ten myths and one truth about generalised HIV epidemics. Lancet 2006

Prasad and Jena Healthc (Amst) 2014

COVID Treatments: Kitchen Sink



Precautionary Principle

Greenhalgh et al BMJ April 2020

After a viral video shows a man being dragged off a bus, SEPTA reverses its coronavirus face mask requirement

by Patricia Madej, Updated: April 10, 2020







It's ok to say "I don't know" Richard Feynman

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= E.C. - AC,

Caltech Archives

Jeanne Lenzer & Shannon Brownlee

ISSUES.ORG

Pandemic Science Out of Control

Poor-quality research, media hype, lax regulatory oversight, and vicious...

A Reminder to Reason

Ivry Zagury-Orly &
Richard M.
Schwartzstein
April 28th, 2020



Questions?