Western University BootCamp 2019

Teaching EBM

Bootcamp 2019

Movie Trailer

Western University BootCamp 2019 Teaching EBM

EBM Basic Training

EBM Conscientious Explicit Judicious **Best Evidence** Individual Patients

David Sackett

Clinical Best Expertise Evidence

Patient Values

Sackett et al BMJ 1996



Describes a particular group of patients; may include primary problem, disease, or coexisting conditions

Population

Example: Cardiac arrest patients

Intervention

Includes main intervention, prognostic factor, or exposure Example: Who received CPR

Comparator

Describes the main alternative

Example: Compared with no CPR

Outcome

What is being accomplished, improved, measured

Example: 1. Neurologically intact survival

> 2. Survival to discharge

> > 3. ROSC







Levels of Evidence **Systematic Review Appraised Topics Appraised Article** RCT **Cohort Study Case Report Expert Opinion**

SGEM: Make it So

checkins

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Practice Changing? 5

Evidence

NNT & NNH

Limits of EBM

BMJ Dec 2003

Emergency Medicine

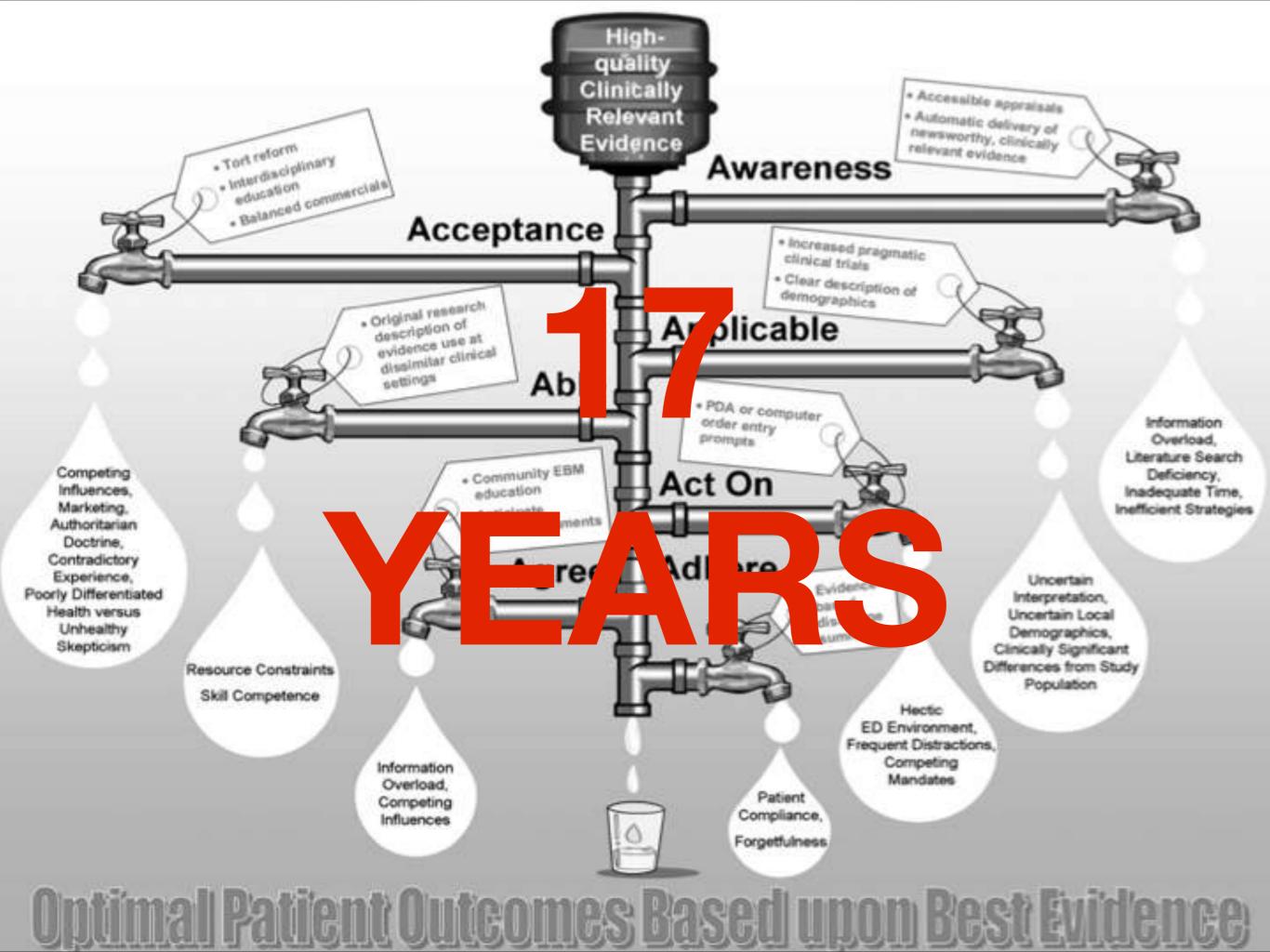
Without EBM

KT Problem

50 Years Wrong Idea Out

100 Years Right Idea In







Weakens the Mind

Forgetful Learners

Trust External Sources

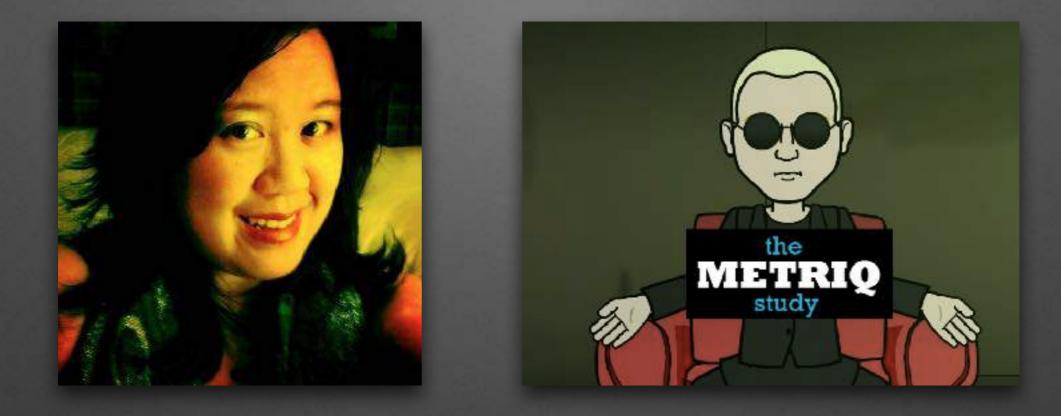
Appear Omniscient

SOCRATES

Criticism Is Not New



Quality



Education/Original research

Emergency Medicine and Critical Care Blogs and Podcasts: Establishing an International Consensus on Quality

Brent Thoma, MD, MA^{a, c, e,} , , Teresa M. Chan, MD, BEd^{e, f}, Quinten S. Paterson^d, W. Kenneth Milne, MD⁹, Jason L. Sanders, MD, PhD^{b, e}, Michelle Lin, MD^{e, h}

Strategies



Education/residents' perspective

 Five Strategies to Effectively Use Online Resources in Emergency Medicine

Brent Thoma, MD, MA^{a, b,} A. W. W, Nikita Joshi, MD^{b, c}, N. Seth Trueger, MD^d, Teresa M. Chan, MD^{b, e}, Michelle Lin, MD^{b, f}

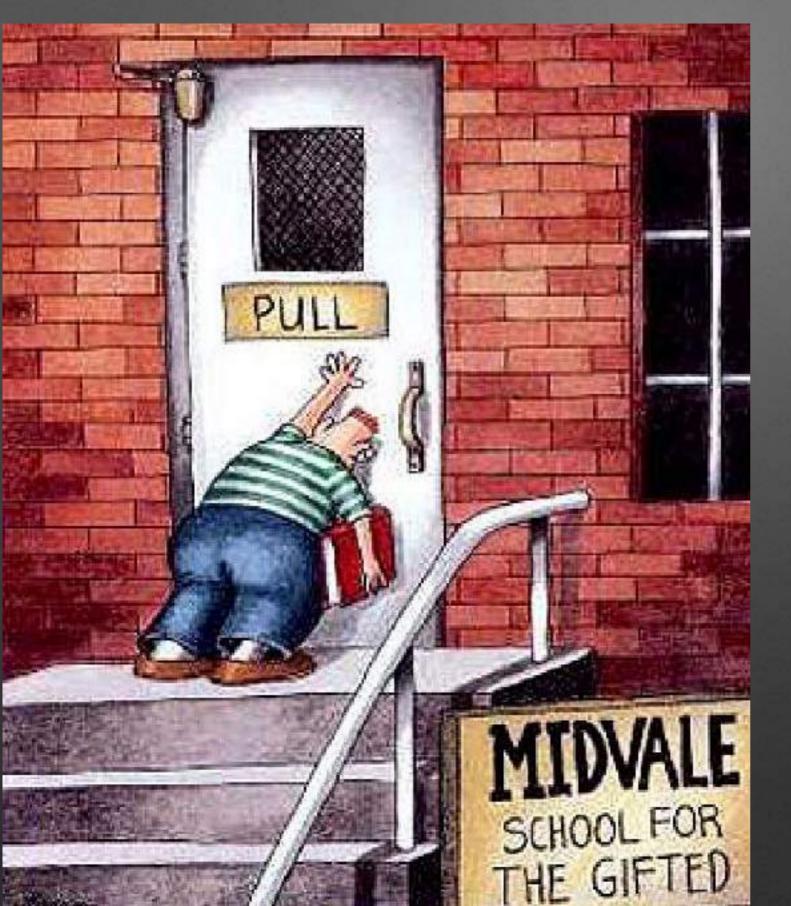
Awareness



The impact of social media promotion with infographics and podcasts on research dissemination and readership

Brent Thoma ^(a1), Heather Murray ^(a2), Simon York Ming Huang ^(a1), William Ken Milne ^(a3) ^(b) ... https://doi.org/10.1017/cem.2017.394 Published online: 13 September 2017

Teaching Clerks EBM



Stimulate Involved Respect Recognize Skepticism



Vida la Edidence

"a 21st century clinician who cannot critically read a study is as unprepared as one who cannot take a blood pressure or examine the cardiovascular system". BMJ 2008 337.704-705







RCT: Ingredients

1.Right Patients
2.Randomized
3.Concealed
4.ITT
5.Consecutive

6.Similar
7.Unaware
8.Treated Equal
9.Follow-up
10.POO

11.Large and Precise

