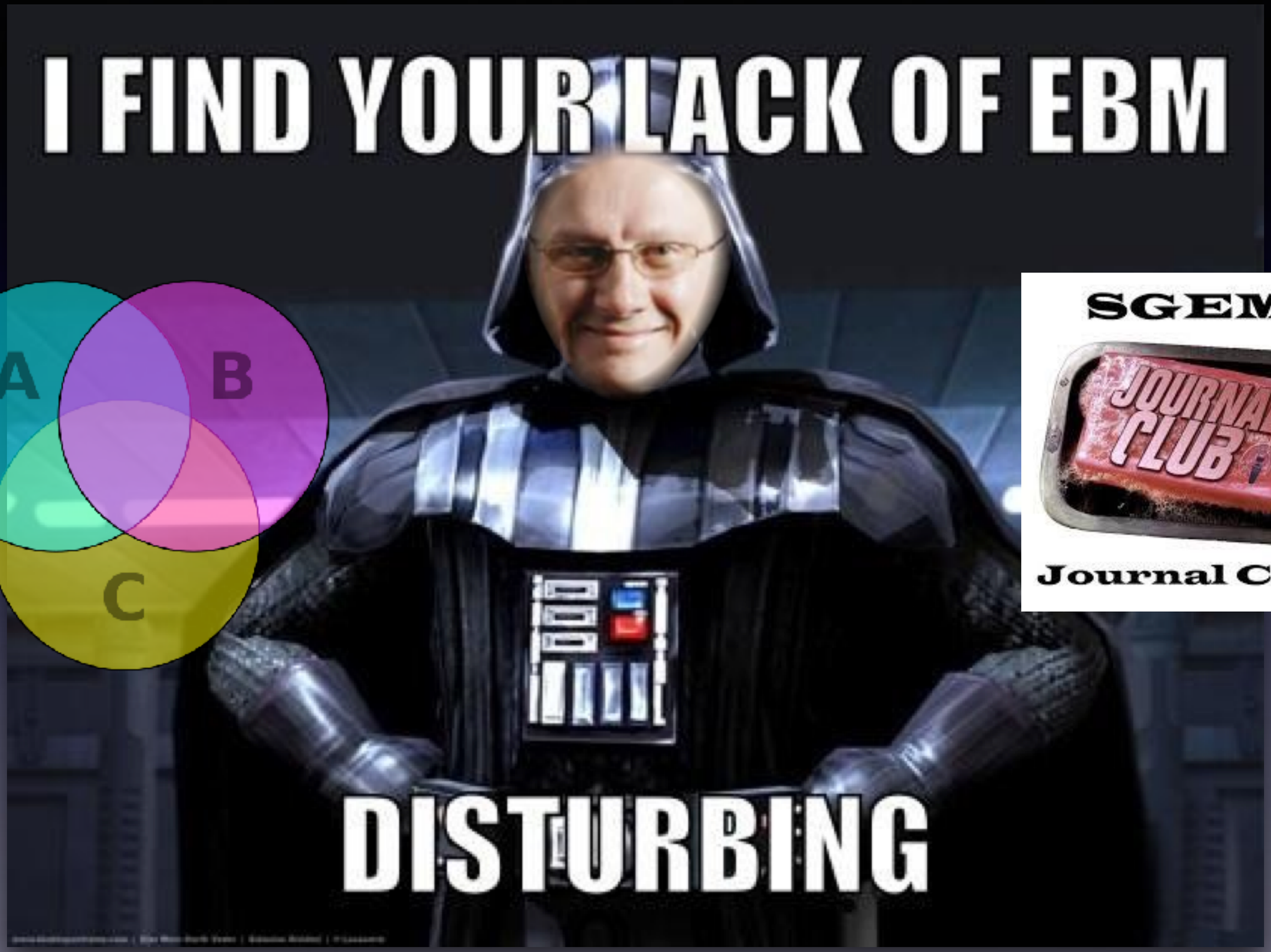
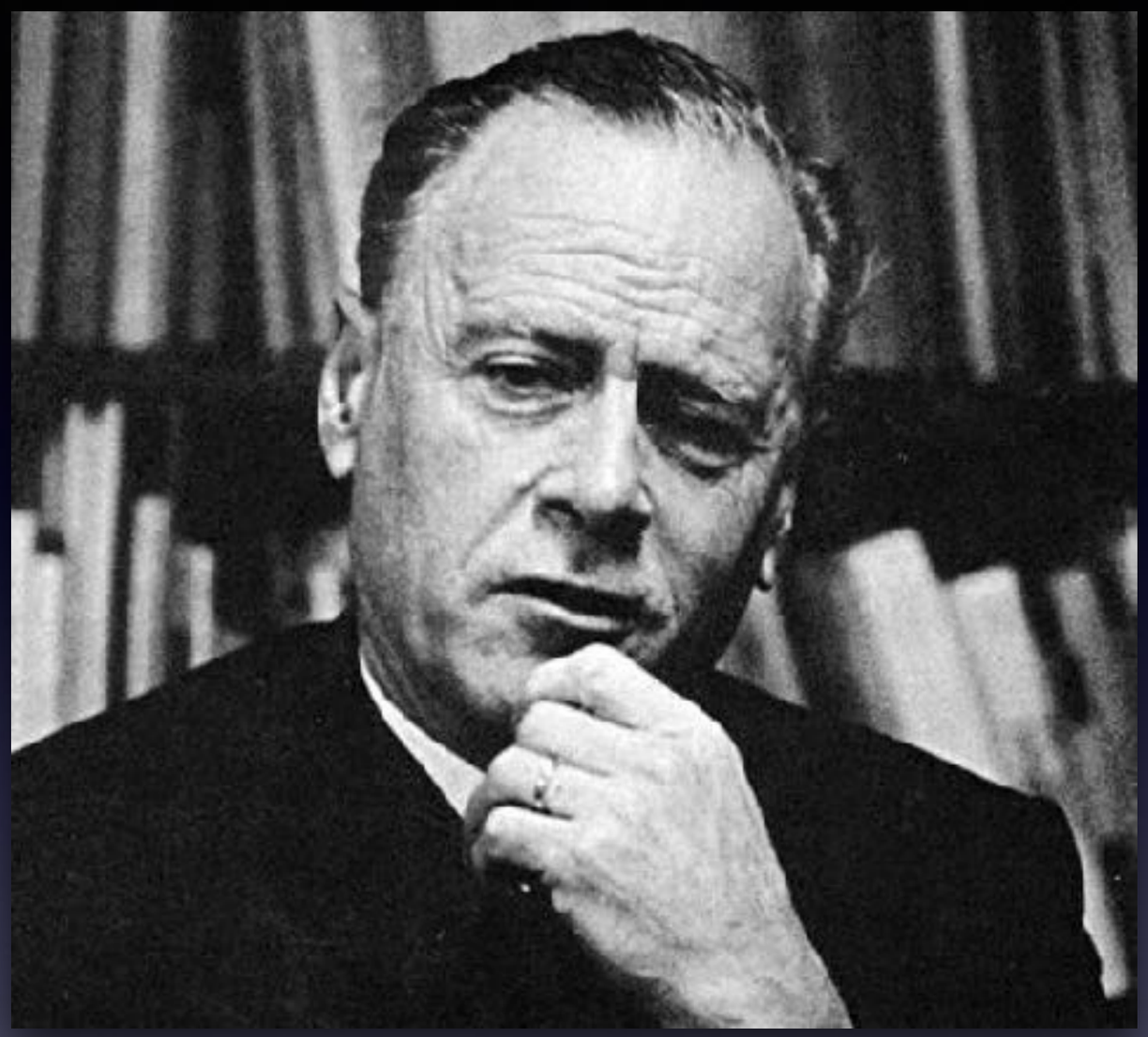
McGill University Grand Rounds 2017

Ken Milne

www.TheSGEM.com


I FIND YOUR LACK OF EBM
A
B
C
DISTURBING

SGEM
JOURNAL CLUB
Journal Club

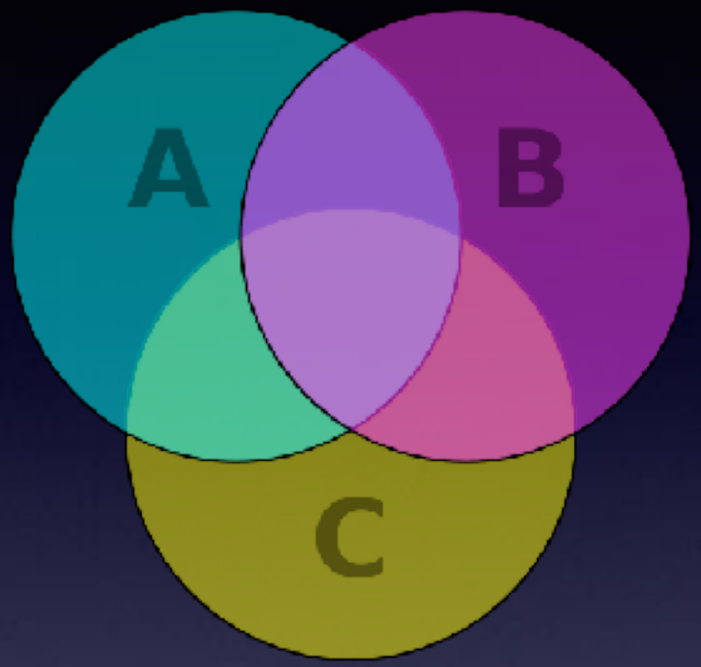


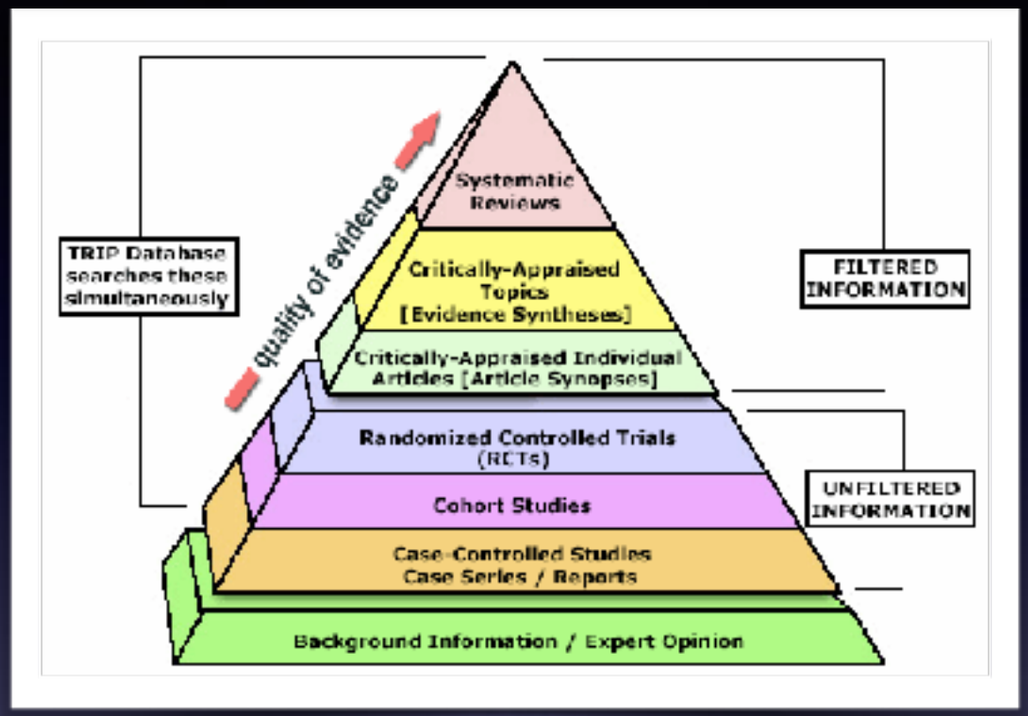
“Anyone who tries to make a distinction between education and entertainment doesn’t know the first thing about either.”

"The medium is the message."
Marshal McLuhan

NNT=1
IT ALL DEPENDS
BE A SKEPTIC

Evidence Based Medicine



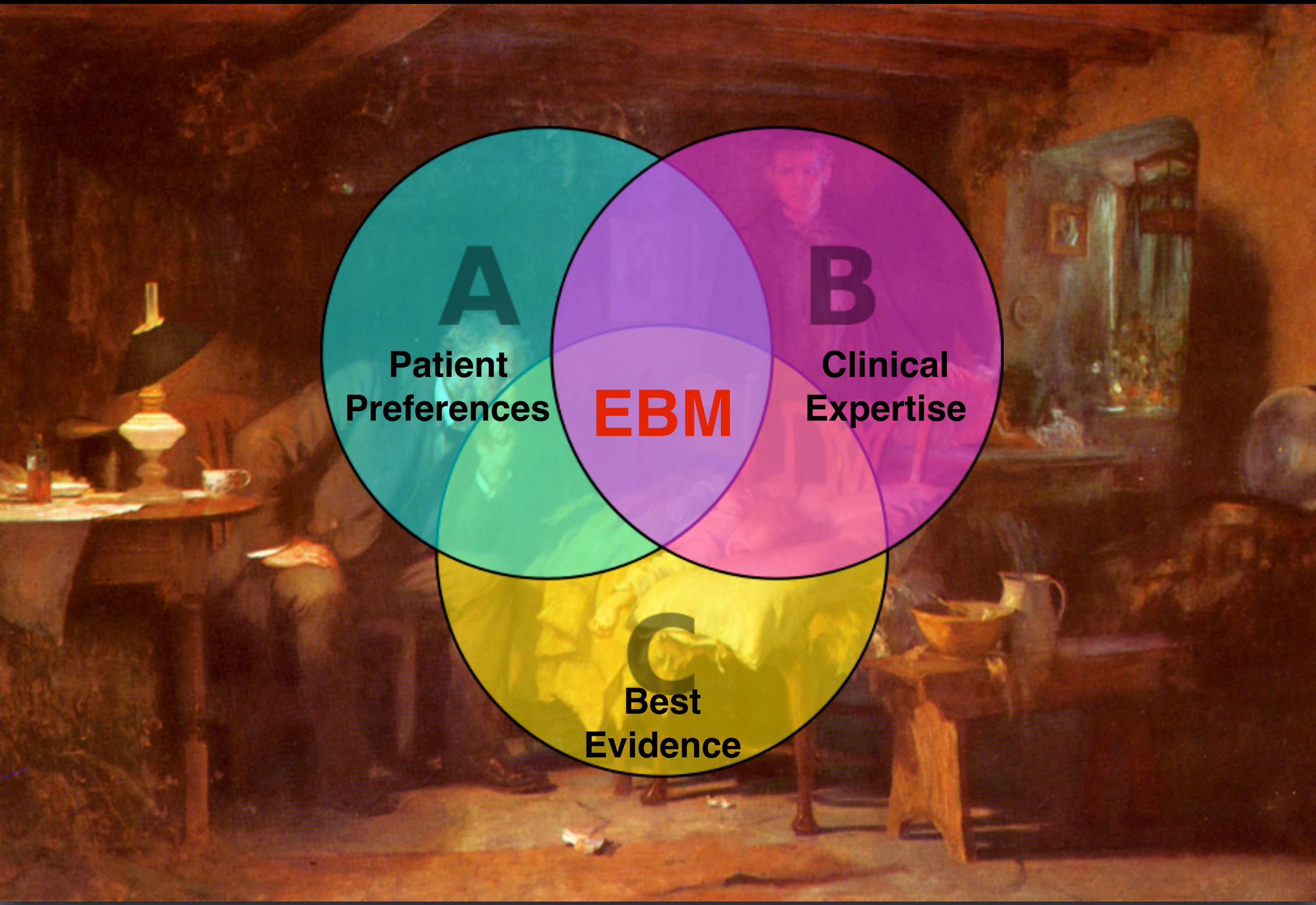


Evidence Based Medicine

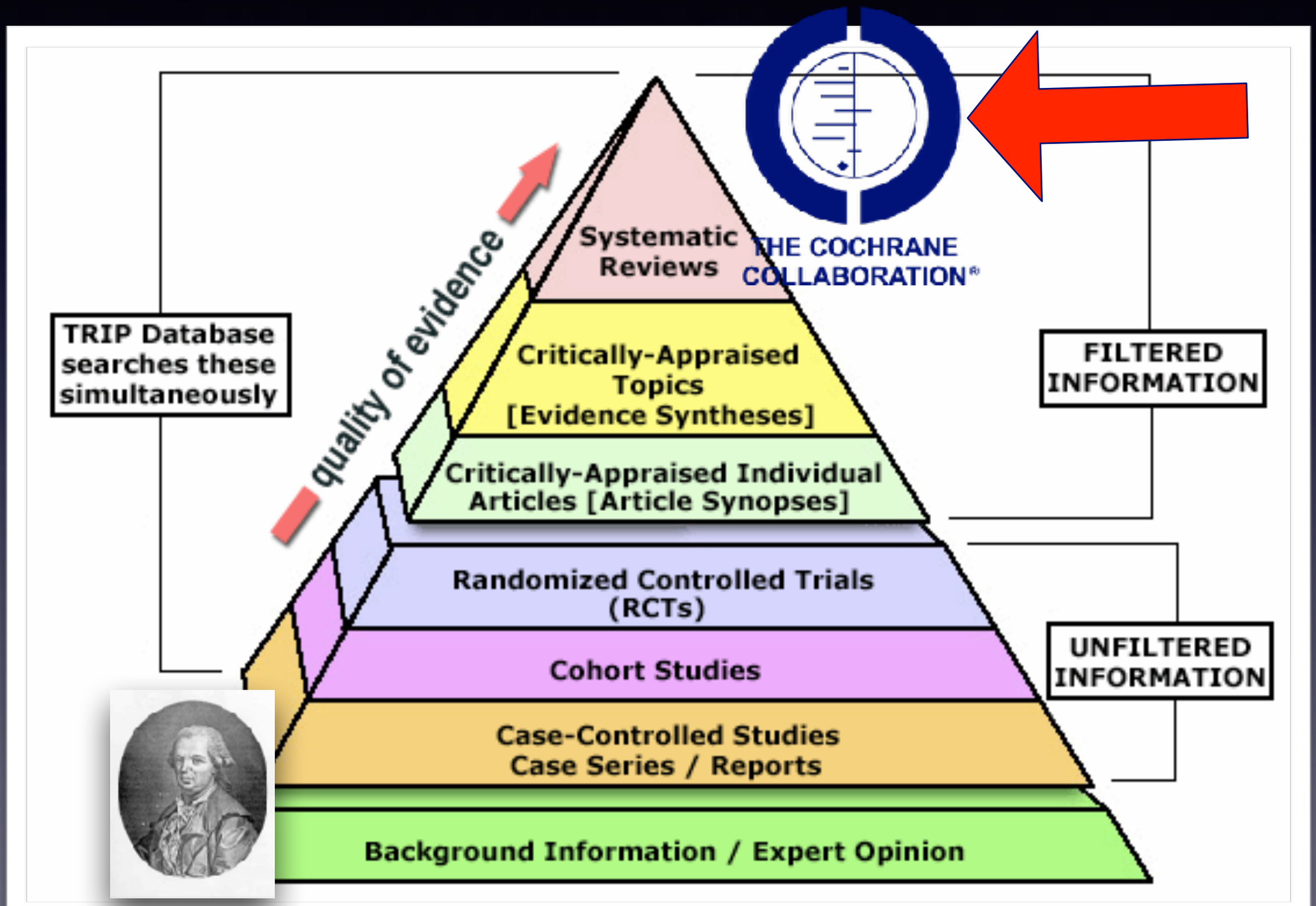
Define EBM

The conscientious, explicit and judicious use of current best evidence in making decisions about the care of individual patients.

- Drs. Sackett and Haynes


A
Patient
Preferences
B
Clinical
Expertise
EBM
C
Best
Evidence

Levels of Evidence

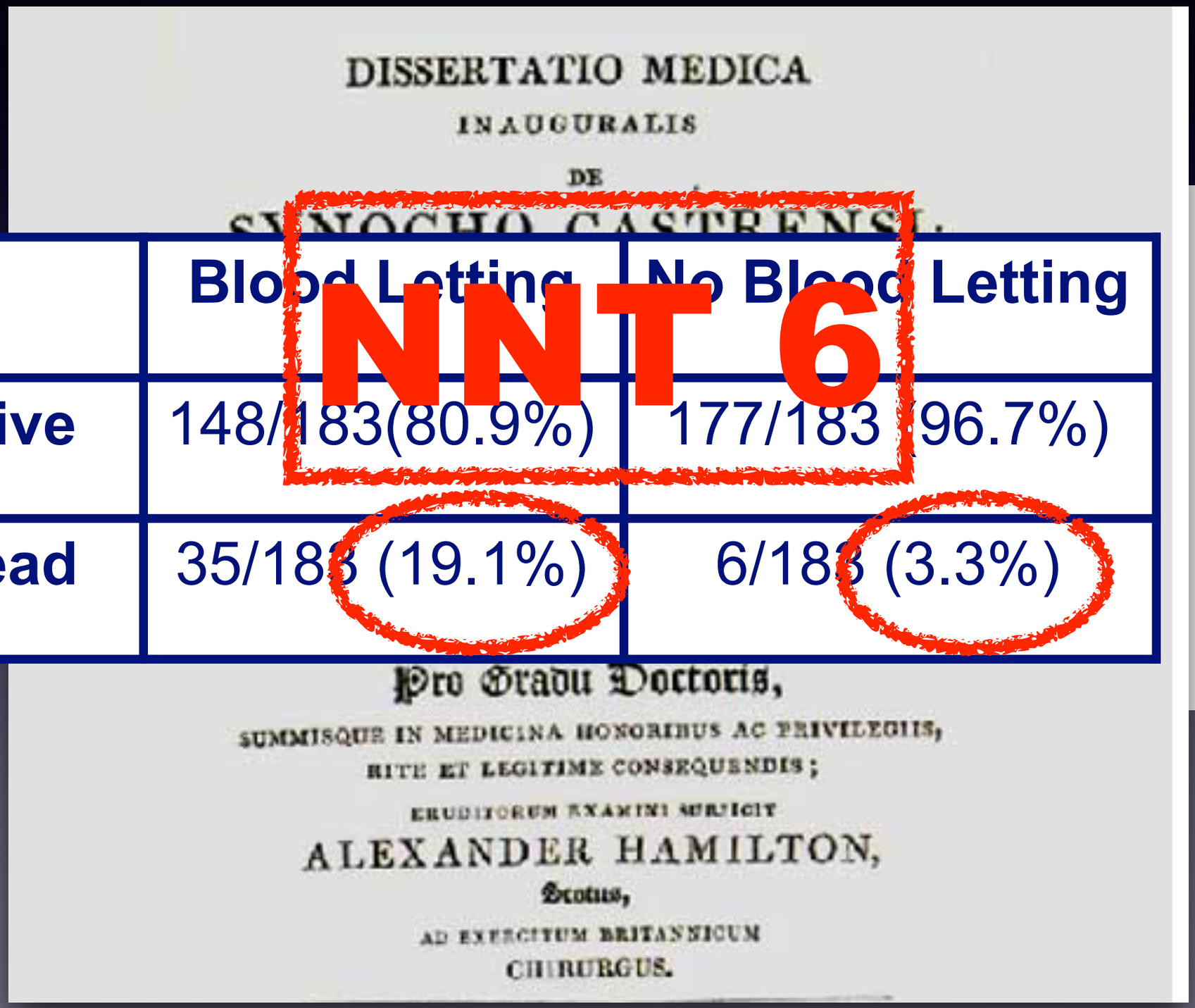


History of EBM

DISSERTATIO MEDICA
INAUGURALIS
DE
SYNOCHO CASTRENSI;
QUAM,
ANNUENTE SUMMO NUMINE,
EX AUCTORITATE REVERENDI ADMODUM VIRI,
D. GEORGII BAIRD, SS. T. P.
ACADEMIÆ EDINBURGENÆ PRÆFECTI;
NECNON
AMPLISSIMI SENATUS ACADEMICI CONSENSU, ET
NOBILISSIMÆ FACULTATIS MEDICÆ DECRETO;
Pro Gradu Doctoris,
SUMMISQUE IN MEDICINA HONORIBUS AC PRIVILEGIIS,
RITE ET LEGITIME CONSEQUENDIS;
ERUDITORUM EXAMINI SUBJICIT
ALEXANDER HAMILTON,
Scotus,
AD EXERCITUM BRITANNICUM
CHIRURGUS.

Early Randomized Trial

Inaugural medical dissertation on camp fever



DISSERTATIO MEDICA

INAUGURALIS

DE

SYNOCHO CASTRENSI.

Pro Gradu Doctoris,

SUMMISQUE IN MEDICINA HONORIBUS AC PRIVILEGIIS,

RITE ET LEGITIME CONSEQUENDIS;

ERUDITORUM EXAMINI SUBJICIT

ALEXANDER HAMILTON,

Scotus,

AD EXERCITUM BRITANNICUM

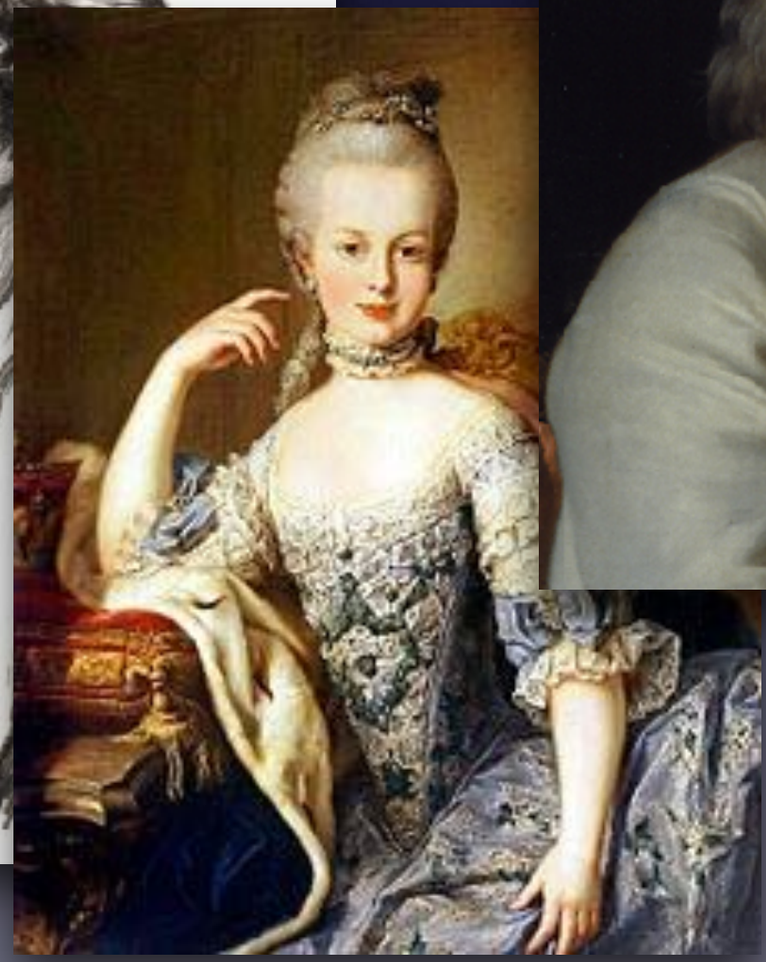
CHIRURGUS.

	Blood Letting	No Blood Letting
Alive	148/183(80.9%)	177/183 (96.7%)
Dead	35/183 (19.1%)	6/183 (3.3%)

NNT 6

First Blinded Trial

Franz Anton Mesmer (May 23, 1734 – March 5, 1815)

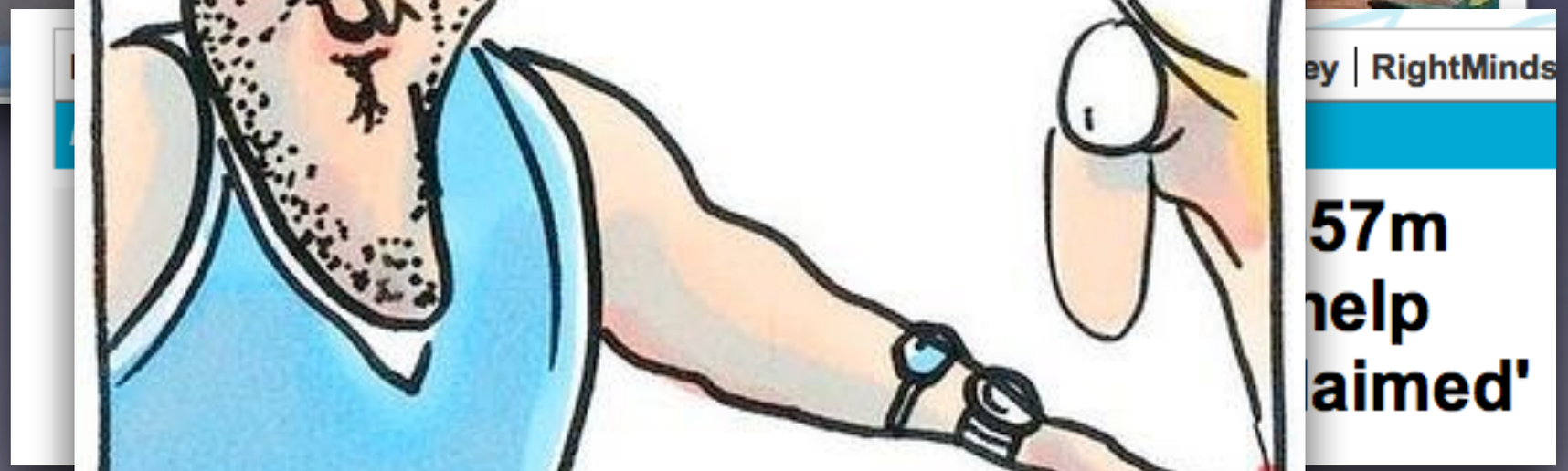


Results: No Difference

Audience Participation

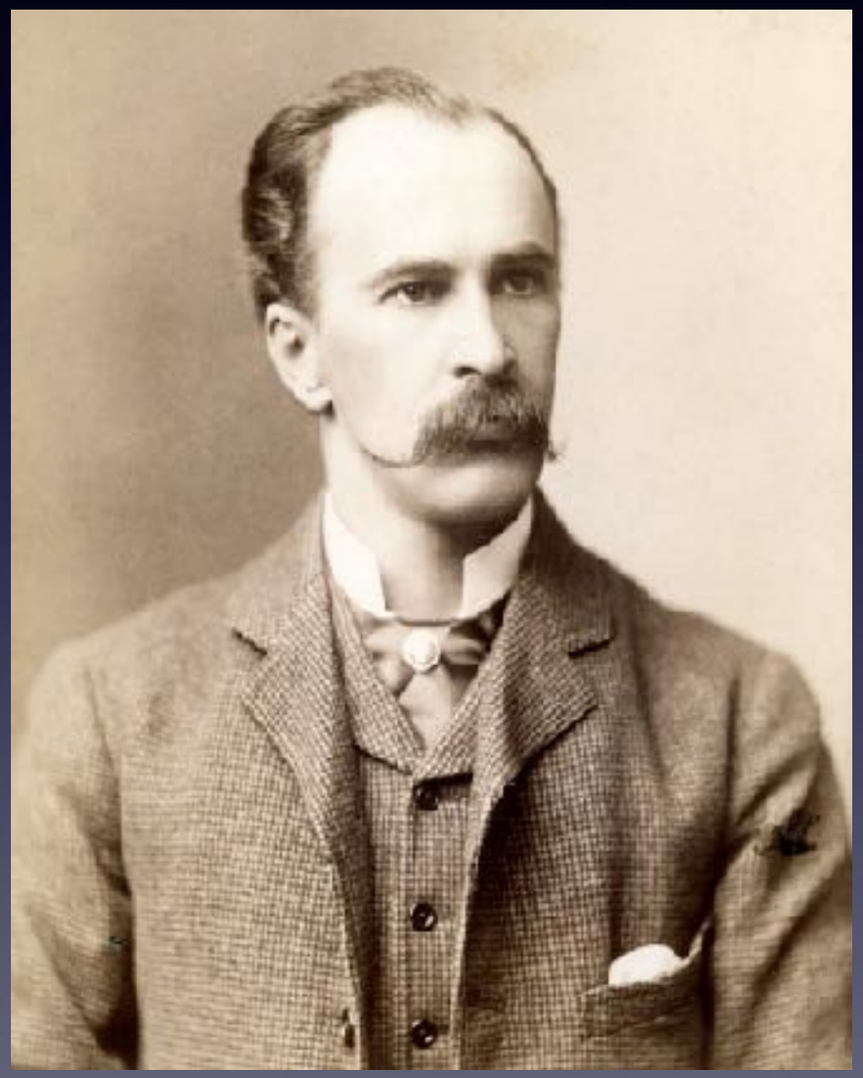
Power Balance

There be magic



EM without EBM

Critical Appraisal: JC



"for the purchase and distribution of periodicals to which he could ill afford to subscribe."

Dr. William Osler

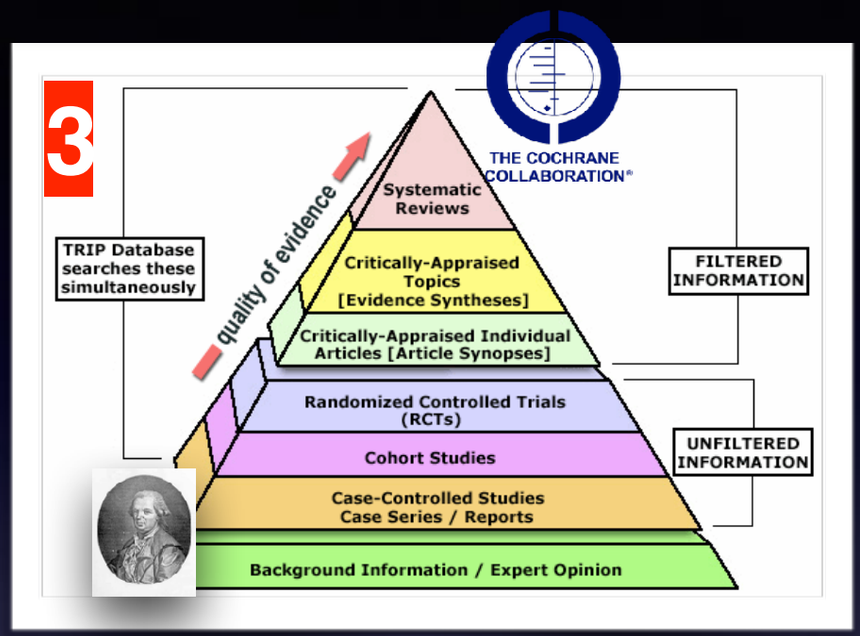
CA Process

1

P	• Patient
I	• Intervention
C	• Comparison
O	• Outcome

2

3



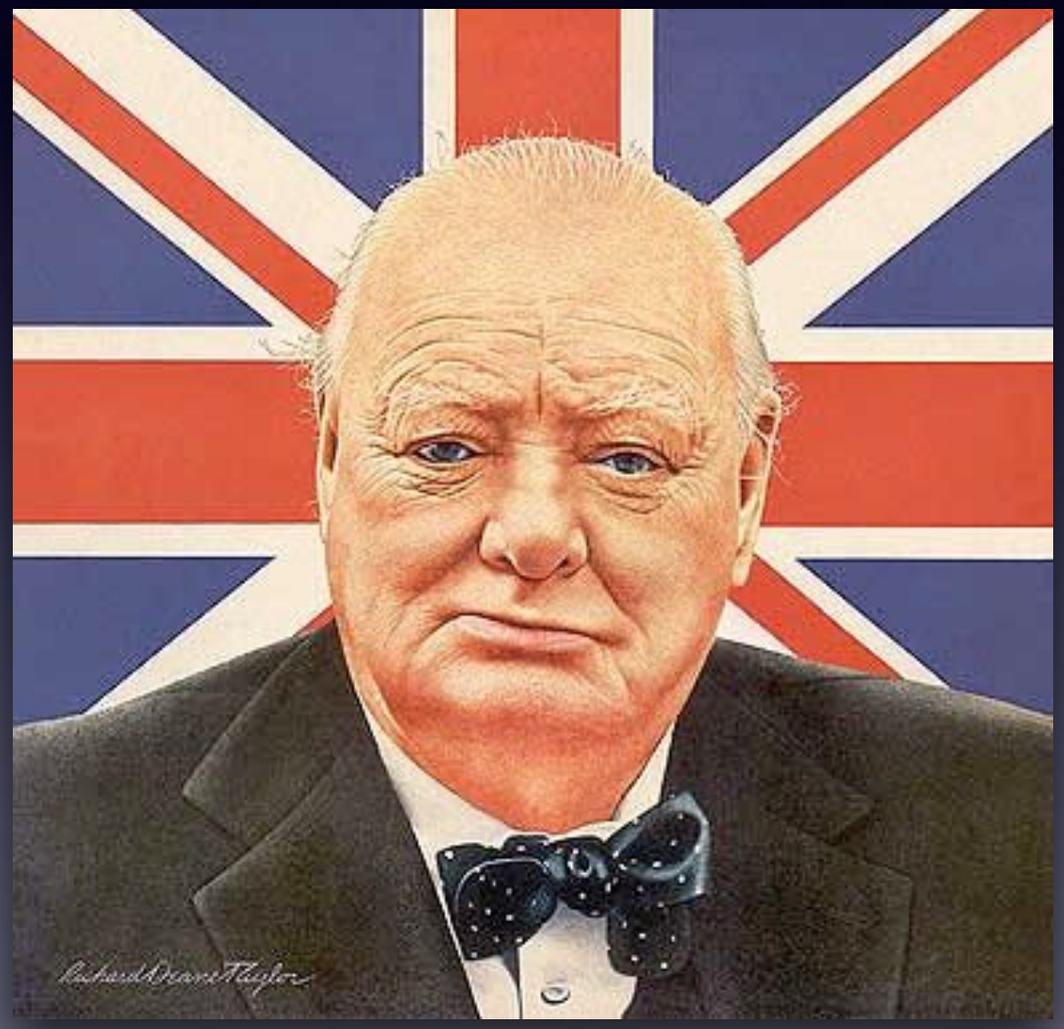
4

5

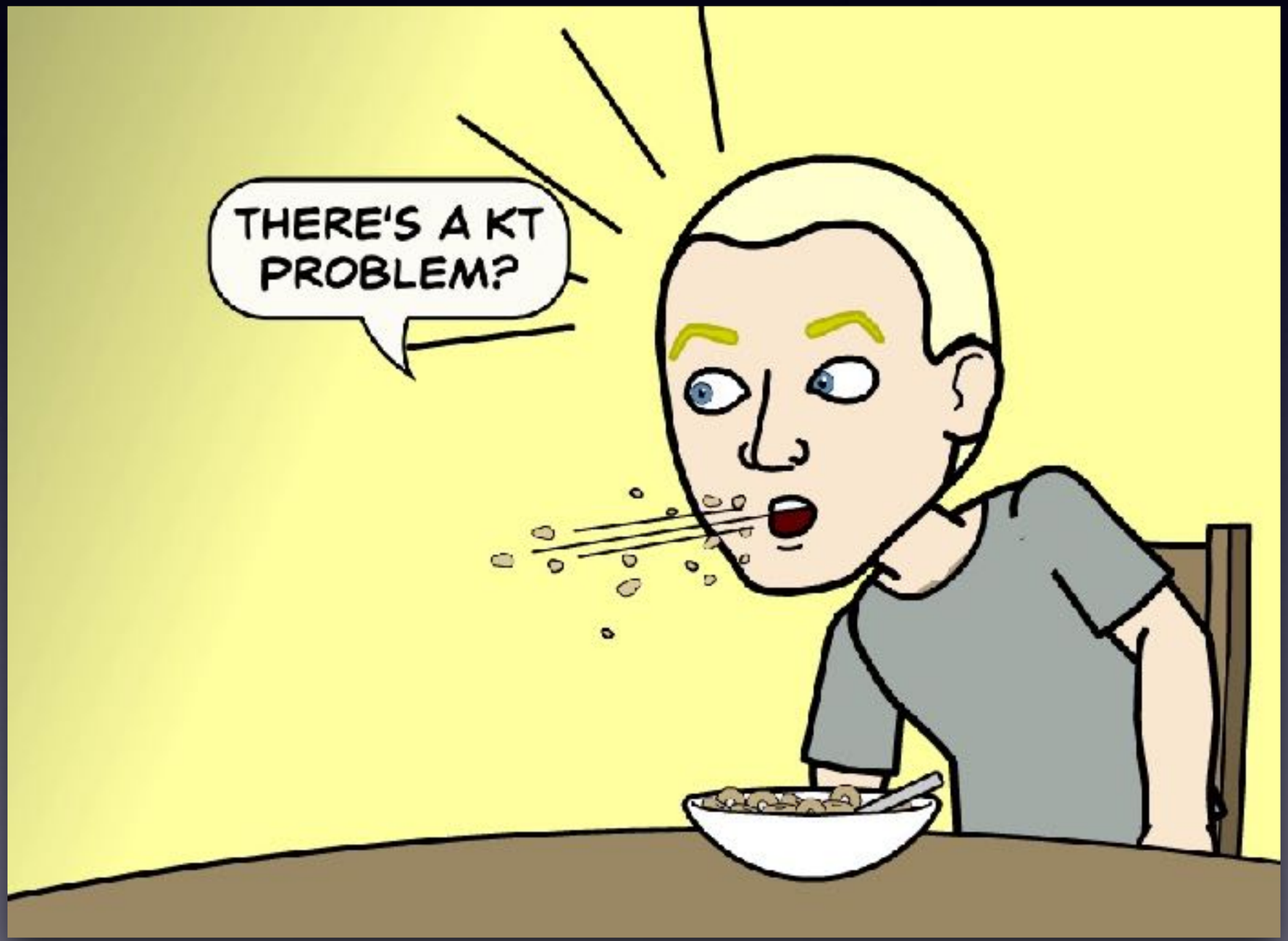
Arguments Against EBM

EBM is the Worst...

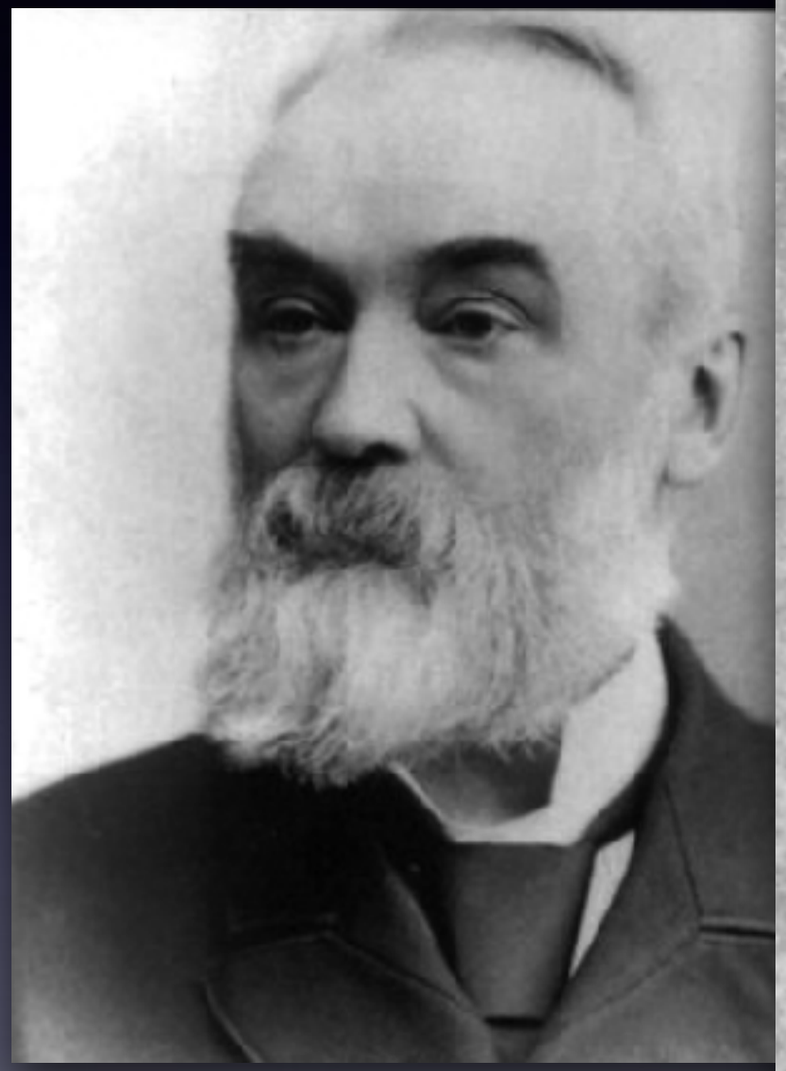
"Democracy is the worst form of government except all the others that have been tried."
Sir Winston Churchill

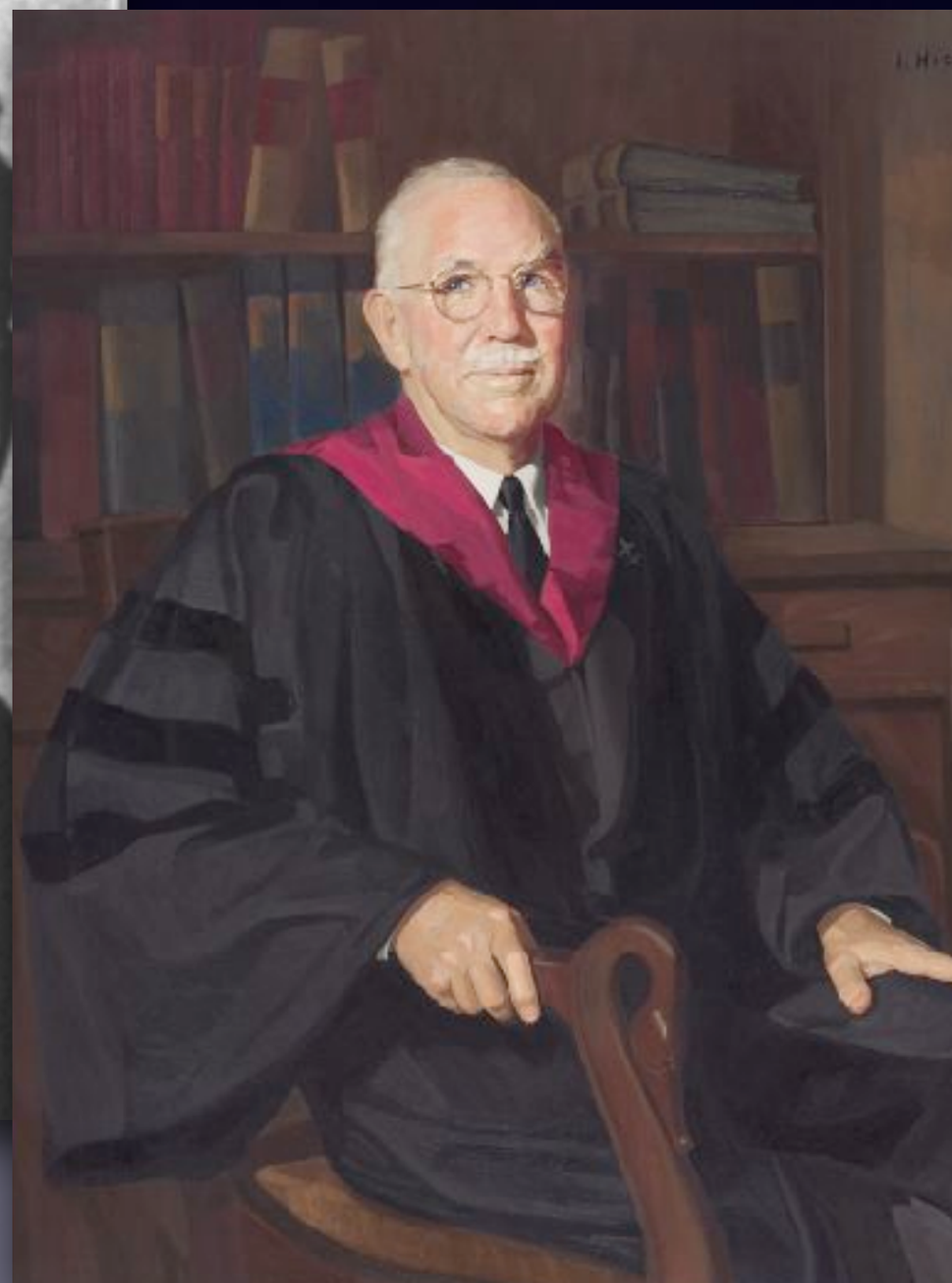


Knowledge Translation Problem

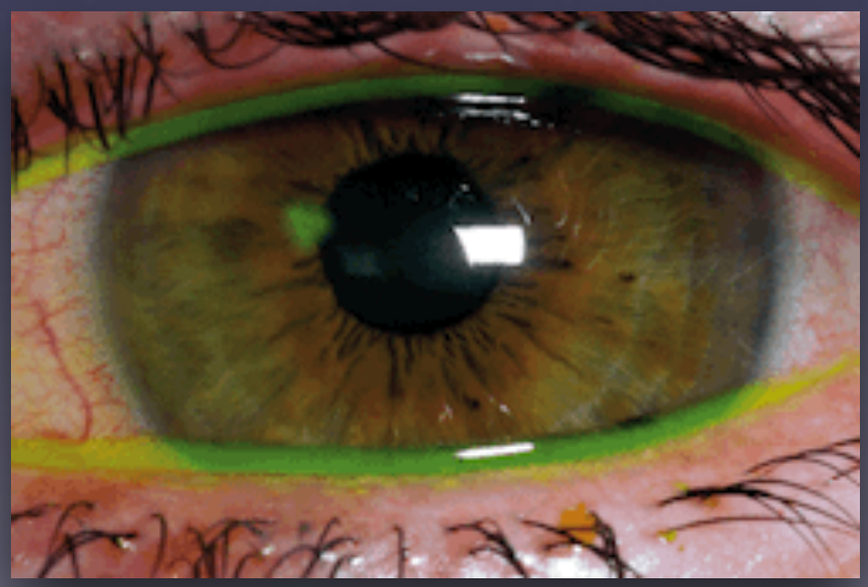


KT Problem: Old Guy Quotes





Medical Dogma

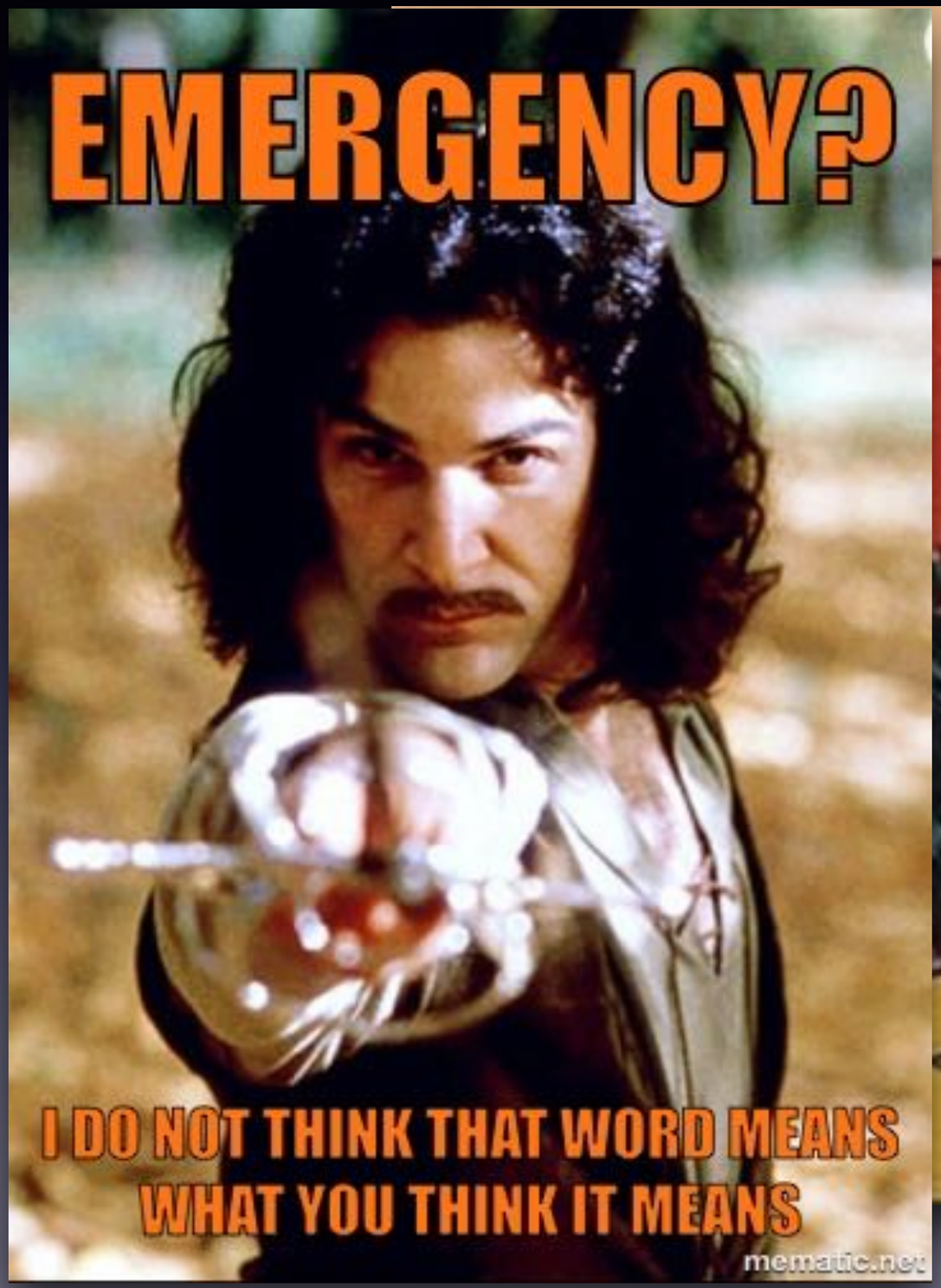


Pathman: The Leaky Pipe Model

Solution: Social Media

reddit
Google+
flickr
twitter
YouTube
facebook.
NING
LinkedIn
slideshare
Pinterest
Meetup
WordPress
delicious
myspace
digg

Meme


EMERGENCY?
I DO NOT THINK THAT WORD MEANS
WHAT YOU THINK IT MEANS
mematic.net

IT'S A VIRUS!

ON SCALE FROM
1 TO 10
MY PAIN IS AN
ELEVEN
mematic.net

FOAM

Why Use FOAM?

Tools for EM

FOAM
SEARCH

Podcasts for the EM Provider

ercast

ercast.org

EM BASIC

YOUR BOOT CAMP

GUIDE TO EMERGENCY MEDICINE

EMCRIT PODCAST

emcrit.org

EM

ABSTRACTS

R.E.B.E.L. cast

HEFT

EMCAST

FOAMcast

WILDCAST EM

Don't PANIC!

The Skeptics' Guide to EM

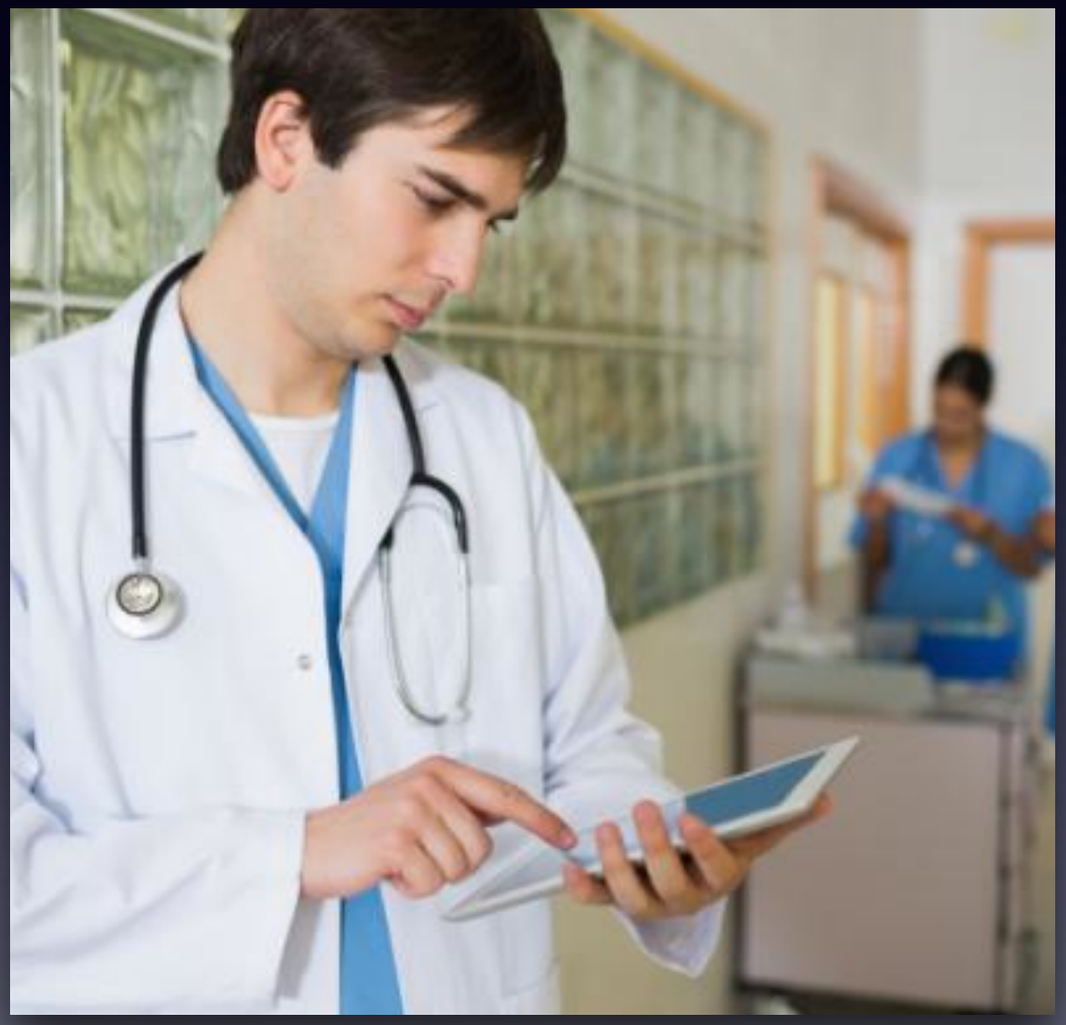
PEM·ED

PODCAST

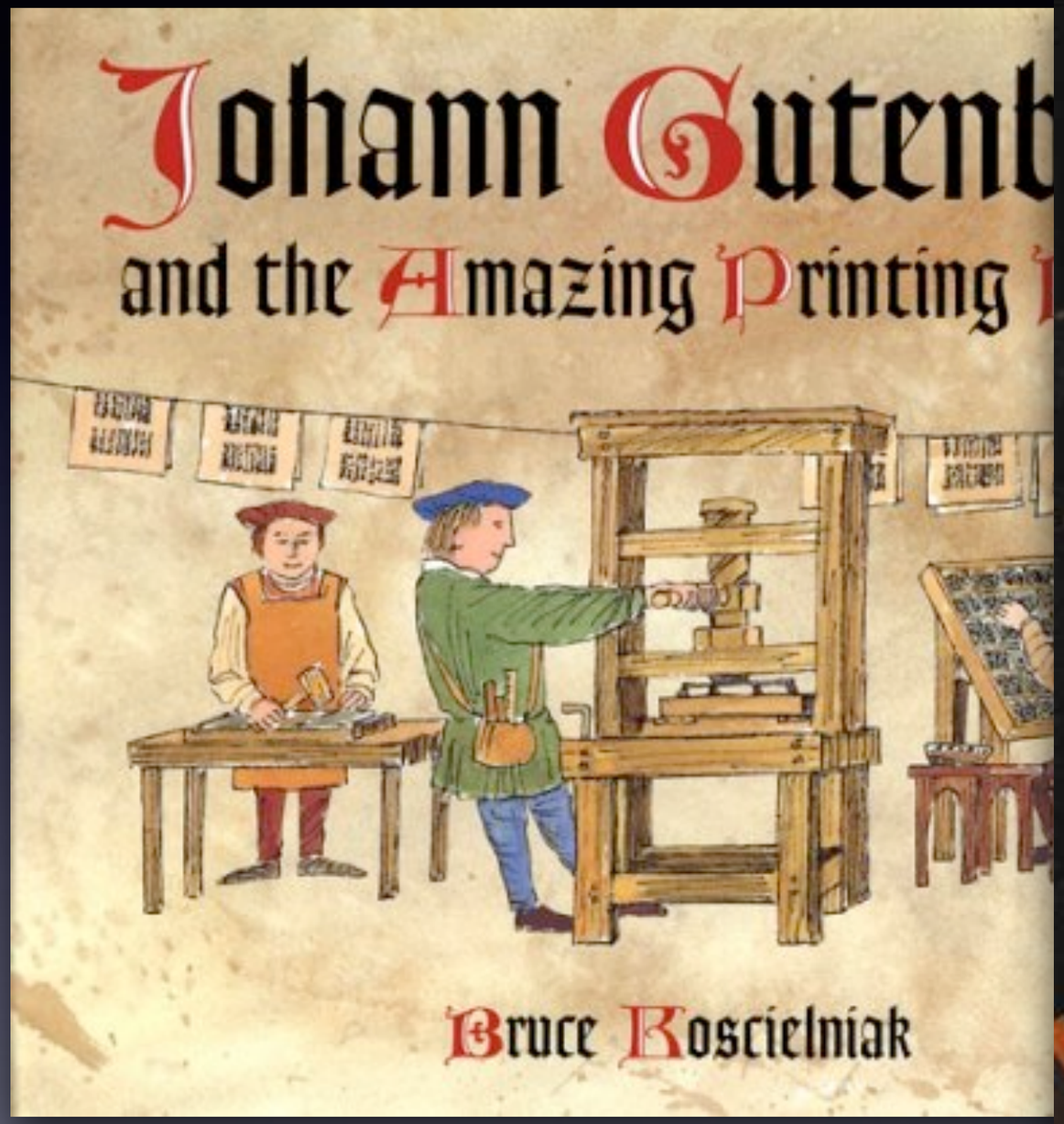
Social Media Criticism

2,500 Years of SoMe

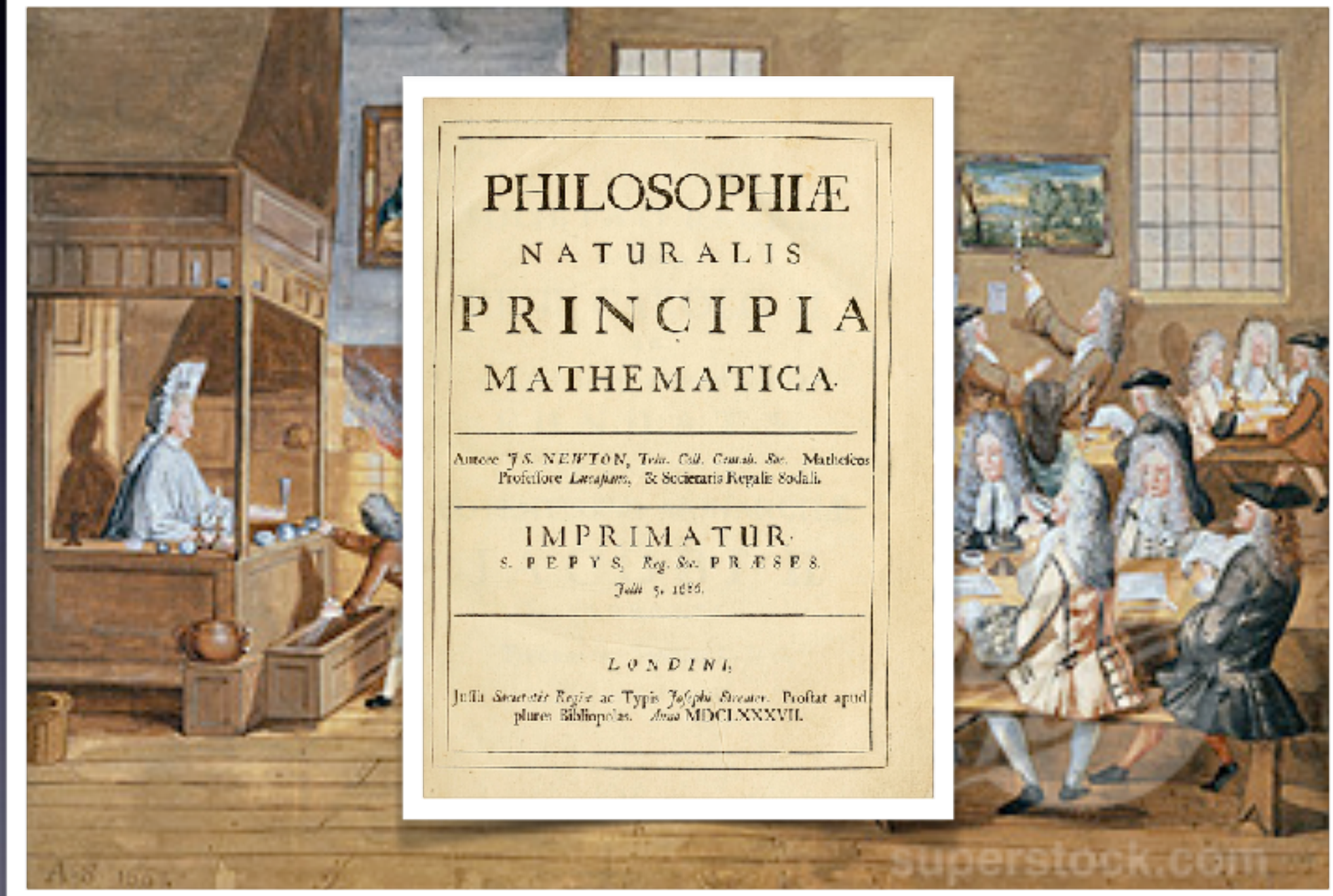
Tablets



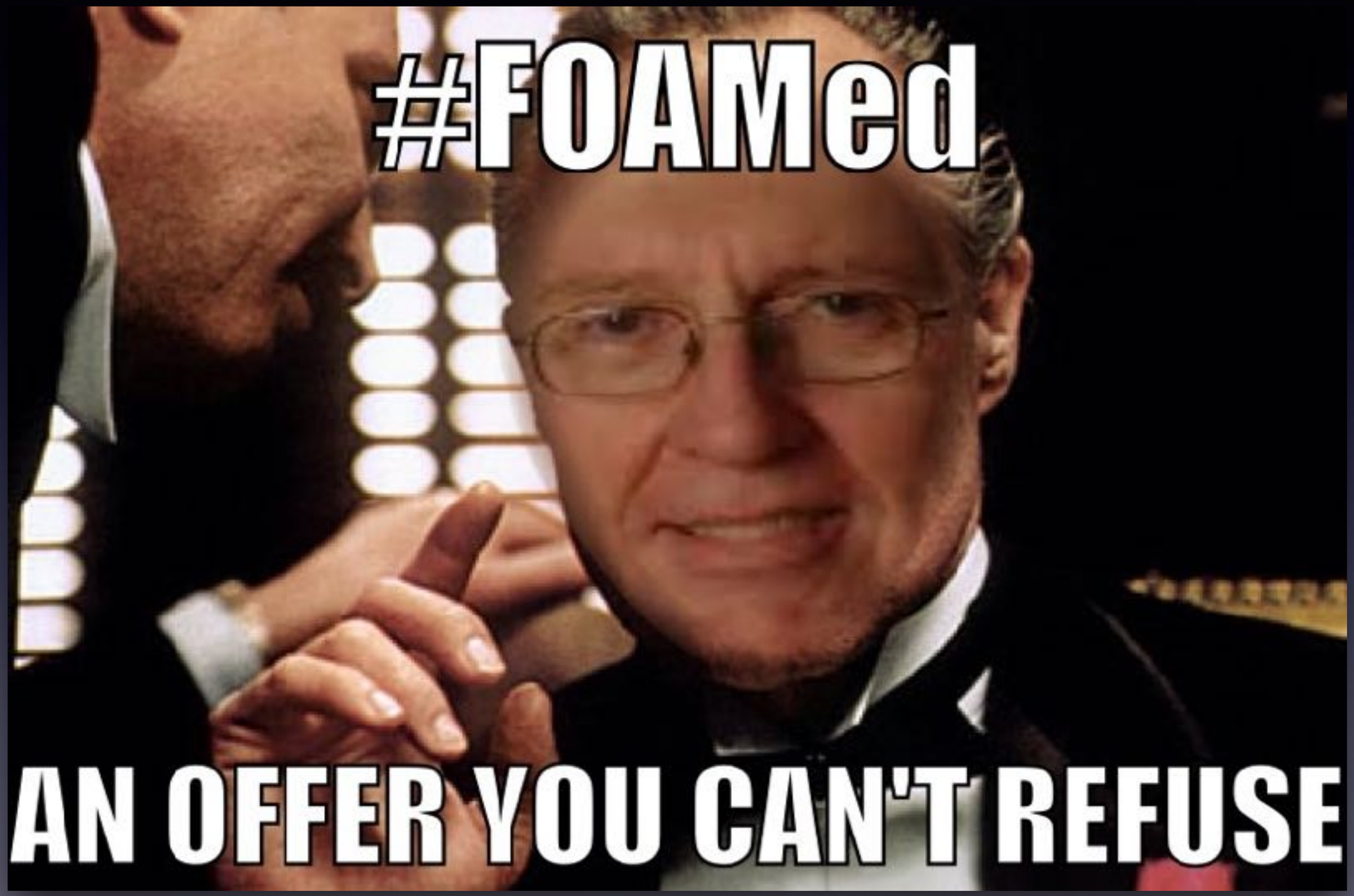
Bloggers



Coffee Houses



Godfather of FOAM



Quality Resources

ALiEM Academic Life in Emergency Medicine

canadiem

LIFE IN THE FASTLANE

St.Emlyn's

R.E.B.E.L.EM

The Skeptics' Guide to EM

Further Reading

Education/residents' perspective

Five Strategies to Effectively Use Online Resources in Emergency Medicine

Brent Thoma, MD, MA[a, b], Nikita Joshi, MD[b, c], N. Seth Trueger, MD[d], Teresa M. Chan, MD[b, e], Michelle Lin, MD[b, f]

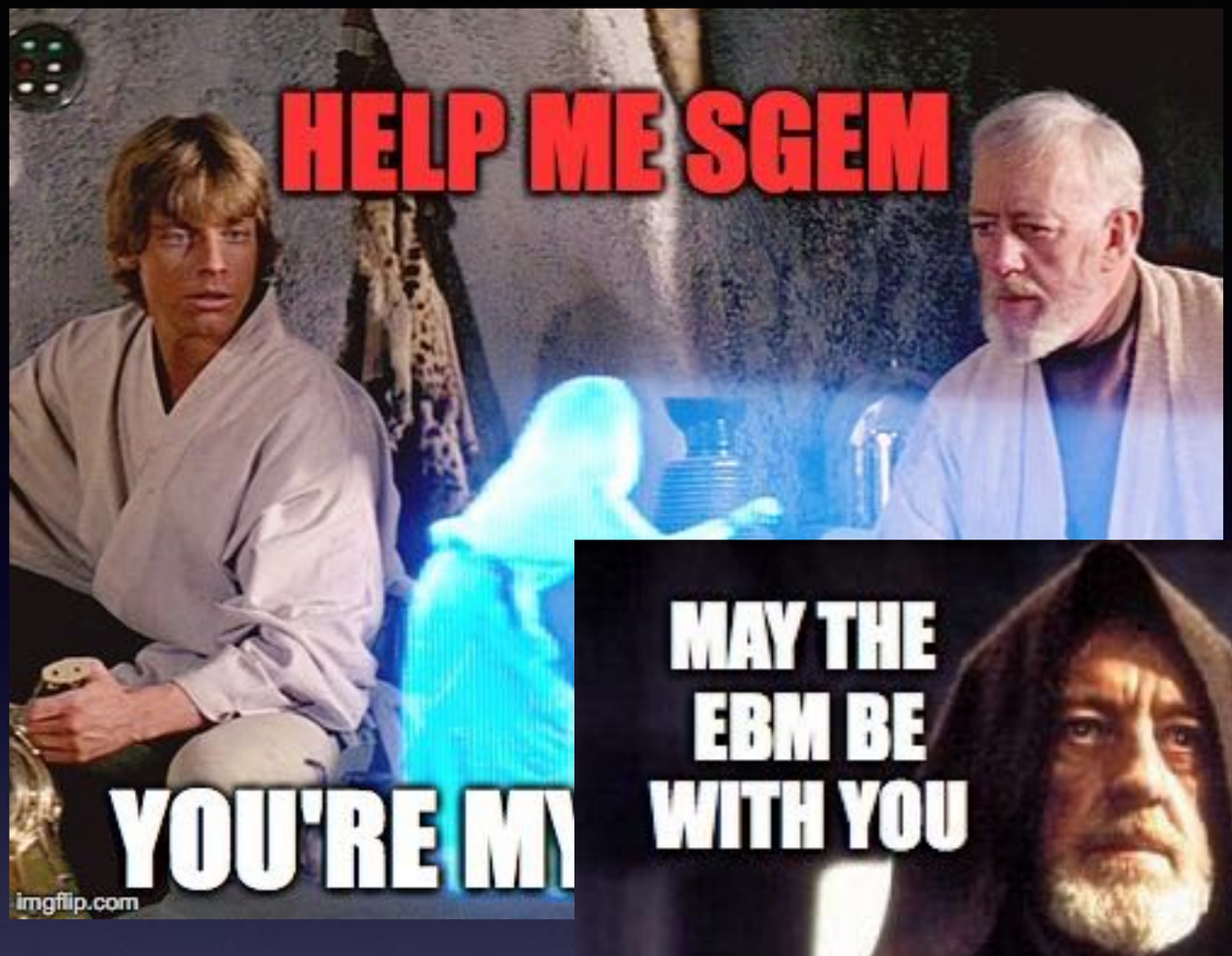
Thou shalt not tweet unprofessionally: an appreciative inquiry into the professional use of social media

Ian Pereira,[1] Anne Marie Cunningham,[2] Katherine Moreau,[3] Jonathan Sherbino,[4] Alireza Jalali[3]

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, MD[g], Jason L. Sanders, MD, PhD[b, e], Michelle Lin, MD[e, h]


HELP ME SGEM
YOU'RE MY
imgflip.com

MAY THE
EBM BE
WITH YOU
ALWAY
imgflip.com

Use the FOAMed

Viva la Evidence

"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