LOOKING BACK / LOOKING AHEAD



KEN MILNE



www.TheSGEM.com

SOUTH HURON HOSPITAL

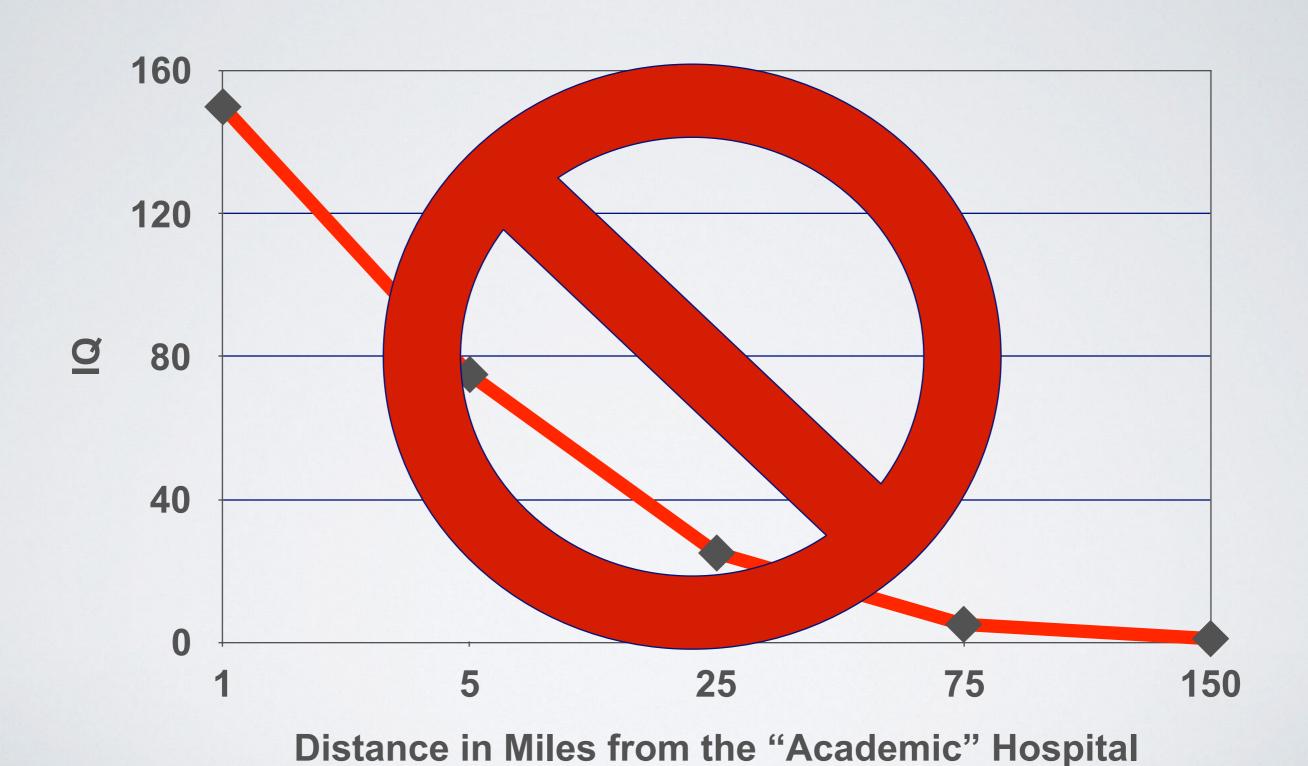


The Little Hospital that Does...

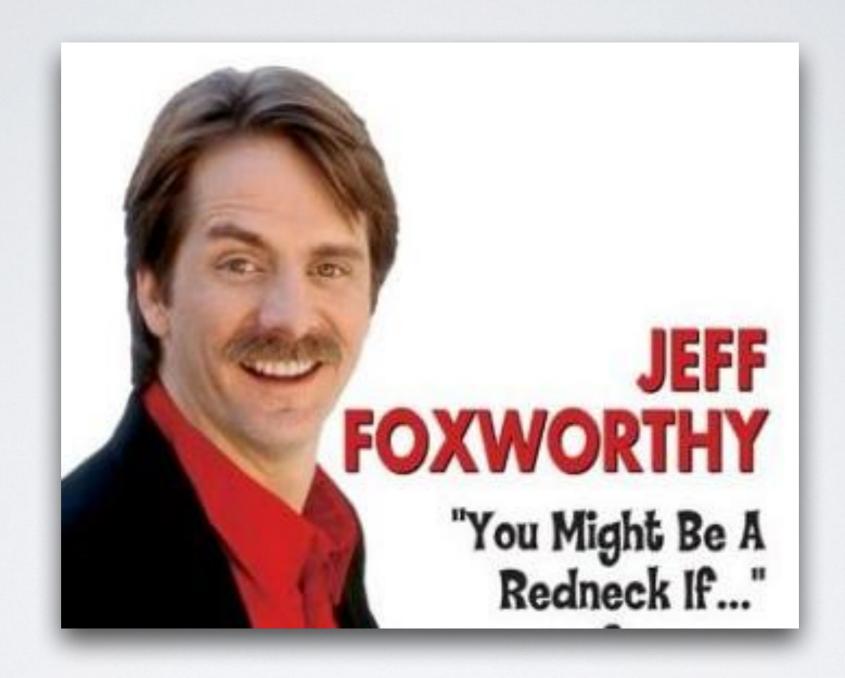
MYTH #1: INTELLIGENCE IS DIRECTLY RELATED TO FLOOR OF HOSPITAL



MYTH #2: INTELLIGENCE IS INVERSELY RELATED TO DISTANCE FROM A CITY



AUDIENCE PARTICIPATION



YOU MIGHT WORK IN A RURAL ED

IFTHE ONLY CAT SCANYOU CAN GET HAS FOUR LEGS...



You Might Work in a Rural ED

IF YOUR HOSPITAL IS KNOWN AS A LEVEL ONE TRACTOR TRAUMA CENTRE...



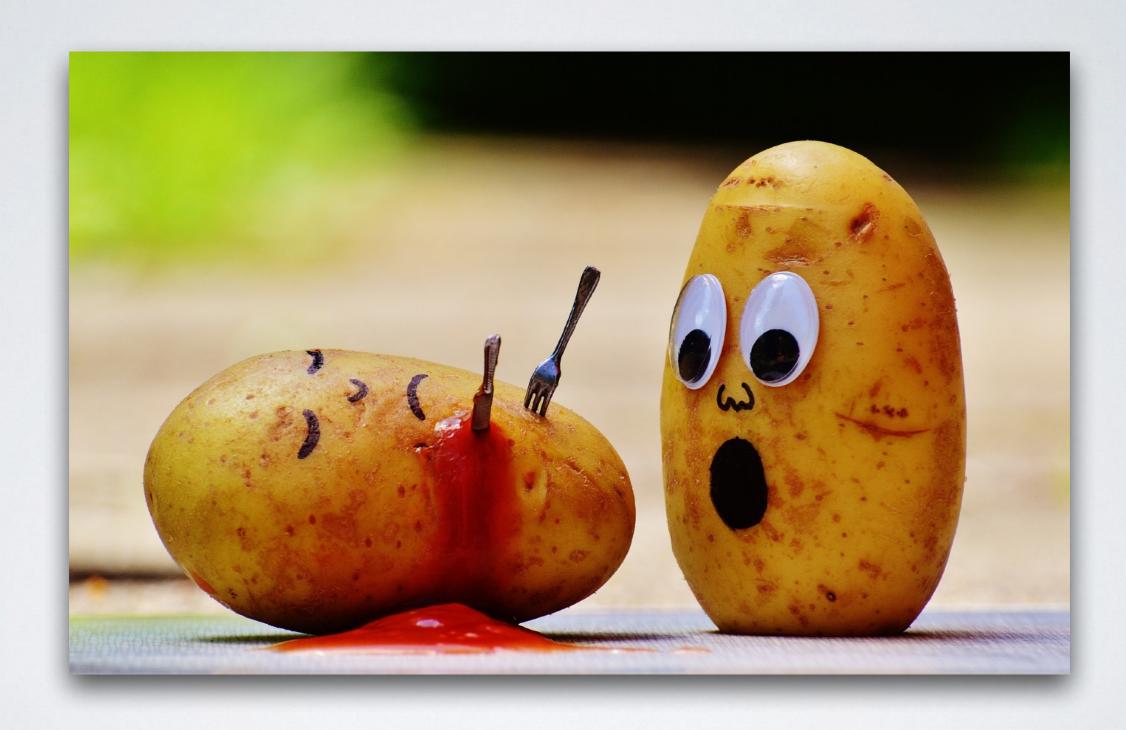
You Might Work in a Rural ED

IF PEOPLE DROPTHEIR PANTS IN THE GROCERY STORE AND ASK YOU TO DIAGNOSE THEIR RASH...



You Might Work in a Rural ED

IF YOUR MASSIVE TRANSFUSION PROTOCOL IS BOTH UNITS OF "O" NEGATIVE BLOOD...



You Might Work in a Rural ED

LOOKING BACK

DISSERTATIO MEDICA

INAUGURALIS

DE

SYNOCHO CASTRENSI;

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

RITE ET LEGITIME CONSEQUENDIS;

ERUDITORUM EXAMINI SUBJICIT

ALEXANDER HAMILTON,

Dcotus,

AD EXERCITUM BRITANNICUM CHURURGUS. NNH6

Blood Letting

TIMETRAVEL



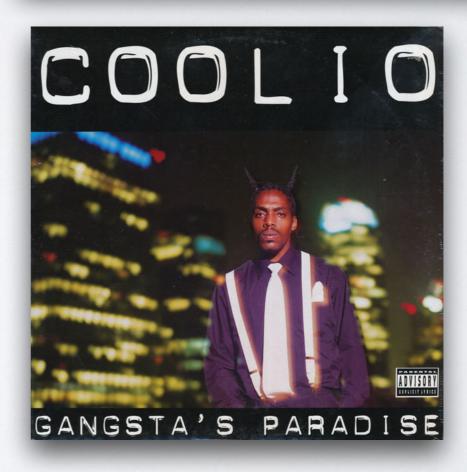
Rural: Excellent Adventure

LOOKING BACK: 1995









THE SECRET OF NINDS

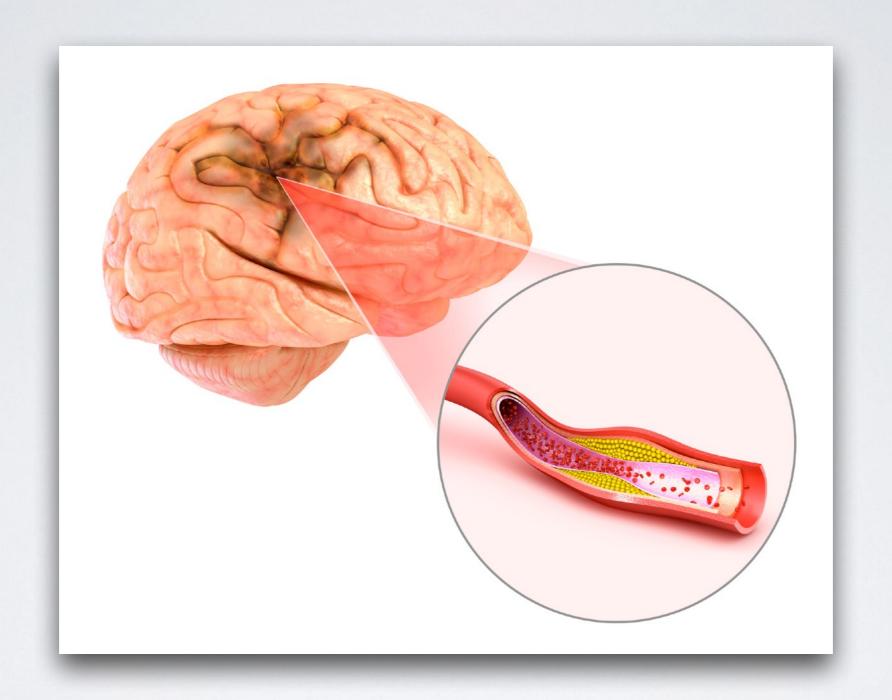


NEJM 1995

1995-2012

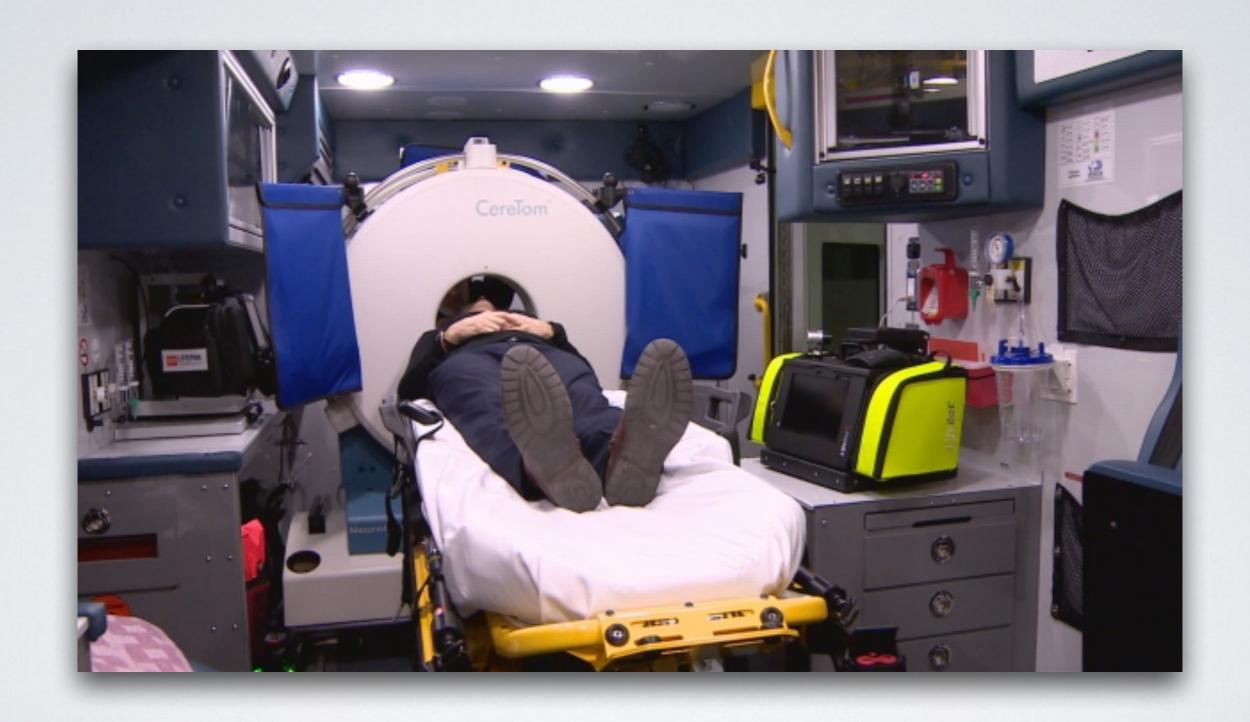
Trial	Journal	Time	Primary Benefit	Harm
MAST -Italy (n=622)	Lancet 1995	<6hr	None	Increased early death
ECASS-I (n=620)	JAMA 1995	<6hr	None	Beneift not outweigh the risk
NINDS-I (n=291)	NEJM 1995	<3hr	None	No difference
NINDS -II (n=333)	NEJM 1995	<3hr	~13% absolute benefit mRS at 90d	Increase ICH
MAST - Eu (n=310)	NEJM 1996	<6hr	None	Stopped early due to harm
ASK (n=340)	JAMA 1996	<4hr	None	Stopped early due to harm
ECASS-II (n=800)	Lancet 1998	<6hr	None	No difference
ATLANTIS-B (n=613)	JAMA 1999	3-4hr	None	Stopped early "unlikely to prove beneficial"
ATLANTIS-A (n=142)	Stroke 2000	<6hr	None	Stopped early due to harm
ECASS-III (n=821)	NEJM 2008	3-4.5hr	7% absolute benefit	Increase ICH
DIAS-2 (n=193)	Lancet 2009	3-9hr	None	No difference
IST-3 (n=3035)	Lancet 2012	<6hr	None	No difference

ACUTE CVA NOW



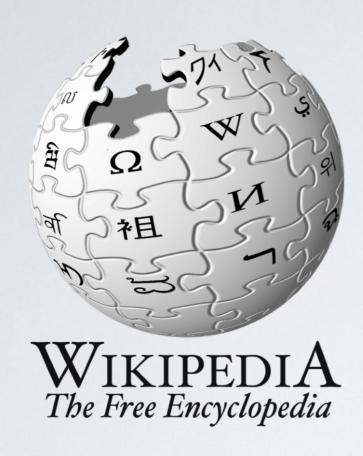
Endovascular Treatment

LOOKING AHEAD: CVA



CT Scanners in Ambulances?

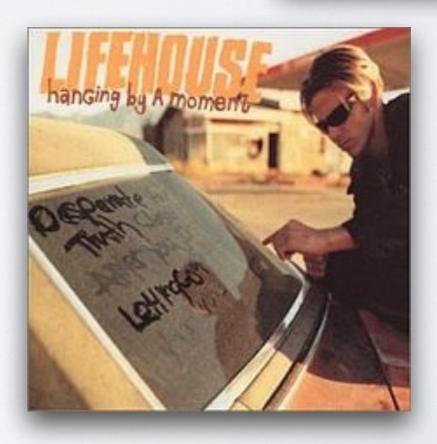
LOOKING BACK: 2001











EGDT



Rivers et al 2001 NEJM

2014-15



The ProCESS Investig N Engl J Med 2014; 37



ARTICLES & MULTIMEDIA ~

ISSUES *

SPECIALTIES & TOPICS >

FOR AUTHORS *

CME >

ORIGINAL ARTICLE

HOME

Goal-Directed Resuscitation for Patients with Early Septic Shock

The ARISE Investigator N Engl J Med 2014; 371



The NEW ENGLAND JOURNAL of MEDICINE

HOME

ARTICLES & MULTIMEDIA *

ISSUES *

SPECIALTIES & TOPICS ~

FOR AUTHORS ~

CME »

ORIGINAL ARTICLE

Trial of Early, Goal-Directed Resuscitation for Septic Shock

Paul R. Mouncey, M.Sc., Tiffany M. Osborn, M.D., G. Sarah Power, M.Sc., David A. Harrison, Ph.D., M. Zia Sadique, Ph.D., Richard D. Grieve, Ph.D., Rahi Jahan, B.A., Sheila E. Harvey, Ph.D., Derek Bell, M.D., Julian F. Bion, M.D., Timothy J. Coats, M.D., Mervyn Singer, M.D., J. Duncan Young, D.M., and Kathryn M. Rowan, Ph.D., for the ProMISe Trial Investigators

SEPSIS NOW



LOOKING AHEAD: SEPSIS





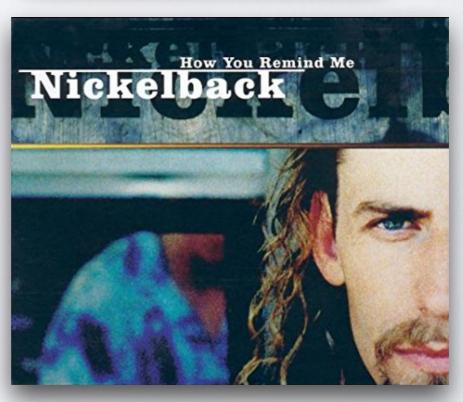
qSOFA or Vitamin C Cocktail?

LOOKING BACK: 2002









THERAPEUTIC HYPOTHERMIA



Two studies in NEJM 2002

2013-2016



Effect of Prehospital Induction of Mild Hypothermia on Survival and Neurological Status Among Adults With Cardiac Arrest

A Randomized Clinical Trial

Francis Kim, MD1; Graham Nichol, MD, MPH1; Charles Maynard, PhD2; et al

JAMA

ORIGINAL RESEARCH ARTICLE

Induction of Therapeutic Hypothermia During Out-of-Hospital Cardiac Arrest Using a Rapid Infusion of Cold Saline

The RINSE Trial (Rapid Infusion of Cold Normal Saline)

Circulation

Stephen A. Bernard, Karen Smith, Judith Finn, Cindy Hein, Hugh Grantham, Janet E. Bray, Conor Deasy, Michael Stephenson, Teresa A. Williams, Lahn D. Straney, Deon Brink, Richard Larsen, Chris Cotton, Peter Cameron

TTM NOW?



LOOKING AHEAD: TTM

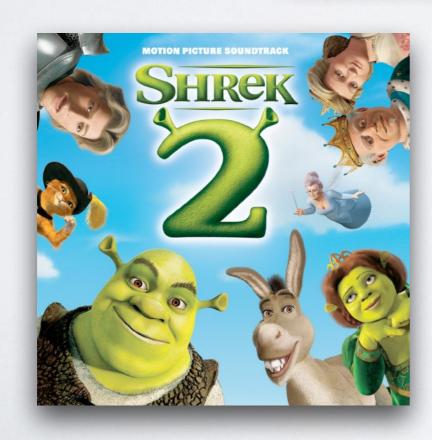


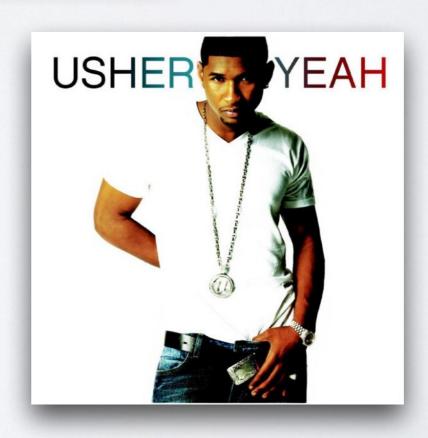
LOOKING BACK: 2004











OPALS



Stiell et al NEJM 2004

2009-2017

November 25, 2009

Intravenous Drug Administration During Out-of-Hospital Cardiac Arrest A Randomized Trial

Theresa M. Olasveengen, MD; Kjetil Sunde, MD, PhD; Cathrine Brunborg, MSc; et al

Effect of adrenaline on survival in out-of-hospital cardiac arrest: A randomised double-blind placebo-controlled trial

lan G. Jacobs , Judith C. Finn, George A. Jelinek, Harry F. Oxer, Peter L. Thompson

Prehospital Advanced Cardiac Life Support for Out-of-hospital Cardiac Arrest: A Cohort Study

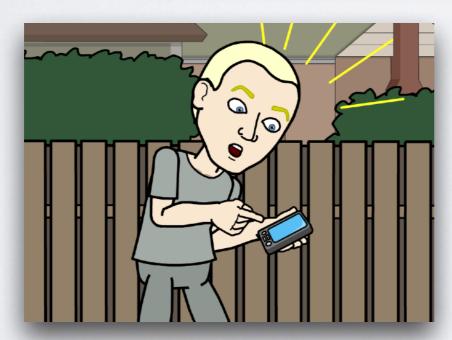
Alexis Cournoyer, MD, Éric Notebaert, MD, MSc, Massimiliano Iseppon, MD, Sylvie Cossette, PhD, Luc Londei-Leduc, MD, Yoan Lamarche, MD, MSc, Judy Morris, MD, MSc, Éric Piette, MD, MSc, Raoul Daoust, MD, MSc, Jean-Marc Chauny, MD, MSc, Catalina Sokoloff, MD, Yiorgos Alexandros Cavayas, MD, Jean Paquet, PhD and André Denault, MD, PhD

OHCA NOW



LOOKING AHEAD: OHCA

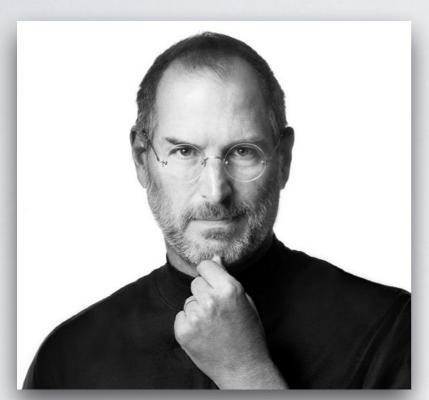






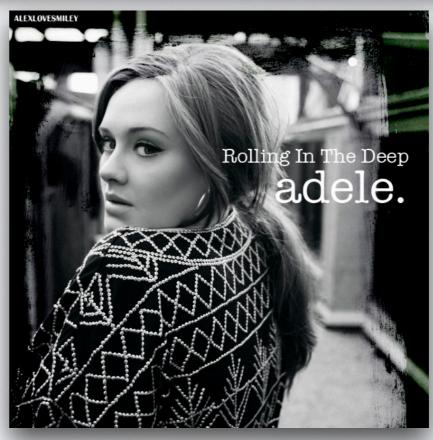
Drones, Crowd Sourcing CRP and ECMO

LOOKING BACK: 2011









CT SCANTO RULE OUT SAH



Perry et al BMJ 2011

2015-2016

ORIGINAL CONTRIBUTION

An Observational Study of 2,248 Patients
Presenting With Headache, Suggestive of
Subarachnoid Hemorrhage, Who Received
Lumbar Punctures Following Normal
Computed Tomography of the Head

David Sayer, MRCS*, Ben Bloom, FRCEM, Katalin Fernando, MD, Stuart Jones, FRCPath, Sally Benton, FRCPath, Shumontha Dev, FRCEM, Sathish Deverapalli, MBBS, and Tim Harris, FRCEM

Neurology. 2015 May 12;84(19):1927-32. doi: 10.1212/WNL.00000000001562. Epub 2015 Apr 10.

Neurology

CT within 6 hours of headache onset to rule out subarachnoid hemorrhage in nonacademic hospitals.

Blok KM¹, Rinkel GJ¹, Majoie CB¹, Hendrikse J¹, Braaksma M¹, Tijssen CC¹, Wong YY¹, Hofmeijer J¹, Extercatte J¹, Kerklaan B¹, Schreuder TH¹, ten Holter S¹, Verheul F¹, Harlaar L¹, Pruissen DM¹, Kwa VI¹, Brouwers PJ¹, Remmers MJ¹, Schonewille WJ¹, Kruyt ND¹, Vergouwen MD².

EVIDENCE-BASED DIAGNOSTICS

Spontaneous Subarachnoid Hemorrhage: A Systematic Review and Meta-analysis Describing the Diagnostic Accuracy of History, Physical Examination, Imaging, and Lumbar Puncture With an Exploration of Test Thresholds

Christopher R. Carpenter, MD, MSc, Adnan M. Hussain, MD, Michael J. Ward, MD, MBA, Gregory J. Zipfel, MD, Susan Fowler, Jesse M. Pines, MD, MBA, MSCE, and Marco L. A. Sivilotti, MD, MSc

RULE OUT SAH NOW



LOOKING AHEAD: SAH



LOOKING BACK / LOOKING AHEAD?





4th CALS Conference on Rural Emergency Care

calsprogram.org



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