International Clinical Analytics Summit

Maxime Cannesson, M.D., Ph.D.
Professor of Clinical Anesthesiology, University of California, Irvine

April 2, 2015
7:30 a.m. – 4 p.m.
MITRE Baltimore
2275 Rolling Run Drive, Windsor Mill, MD 21244
Closed Loop Systems & Device Interoperability

Maxime Cannesson MD PhD
Professor of Anesthesiology & Vice Chair
University of California Irvine
“To improve patient safety and productivity, patients and clinicians need a health-care information ecosystem with integrated technologies that support the clinician’s work, provide safety nets, and improve productivity.”
Noninvasive Hemodynamic Monitoring

No High-heels on the Farm; No Clogs to the Opera

Anesthesiology 2012

Maxime Cannesson, M.D., Ph.D.,* Yannick Le Manach, M.D., Ph.D.† * Department of Anesthesiology & Perioperative Care, School of Medicine, University of California, Irvine, Irvine, California. † Department of Anesthesiology and Critical Care Medicine, Groupe Hospitalier Pitié Salpêtrière, Paris, Cedex, France. yannick.le-manach@psl.aphp.fr

“… choosing the most appropriate hemodynamic monitor is context dependent (‘no high-heels on the farm; no clogs to the opera’).”
“Finally, no monitoring tool, no matter how accurate, by itself has improved patient outcome...”

Dr. Michael Pinsky
Factors Influencing Total Crystalloid Administration During Abdominal Surgery: A Retrospective Multicenter Analysis

Lilot M et al.
Br J Anaesth 2015

- 5,813 Abdominal Surgeries
- 234 Anesthesia Providers
- University of California Irvine
- Vanderbildt University
- 2 Years Period of Time
ELECTROENCEPHALOGRAPHICALLY CONTROLLED ANESTHESIA IN ABDOMINAL SURGERY

CHARLES W. MAYO, M.D.
REGINALD G. BICKFORD, M.B.
and
ALBERT FAULCONER JR., M.D.
Rochester, Minn.

50 patients, ETHER
“Major Surgical procedures varying age, both sexes
Without untoward effect “

Fig. 2.—Automatic administration of ether.
Closed loop assisted versus manual goal-directed fluid therapy during high-risk abdominal surgery: a case control study with propensity matching

Brussels, Belgium
April 2nd, 2015