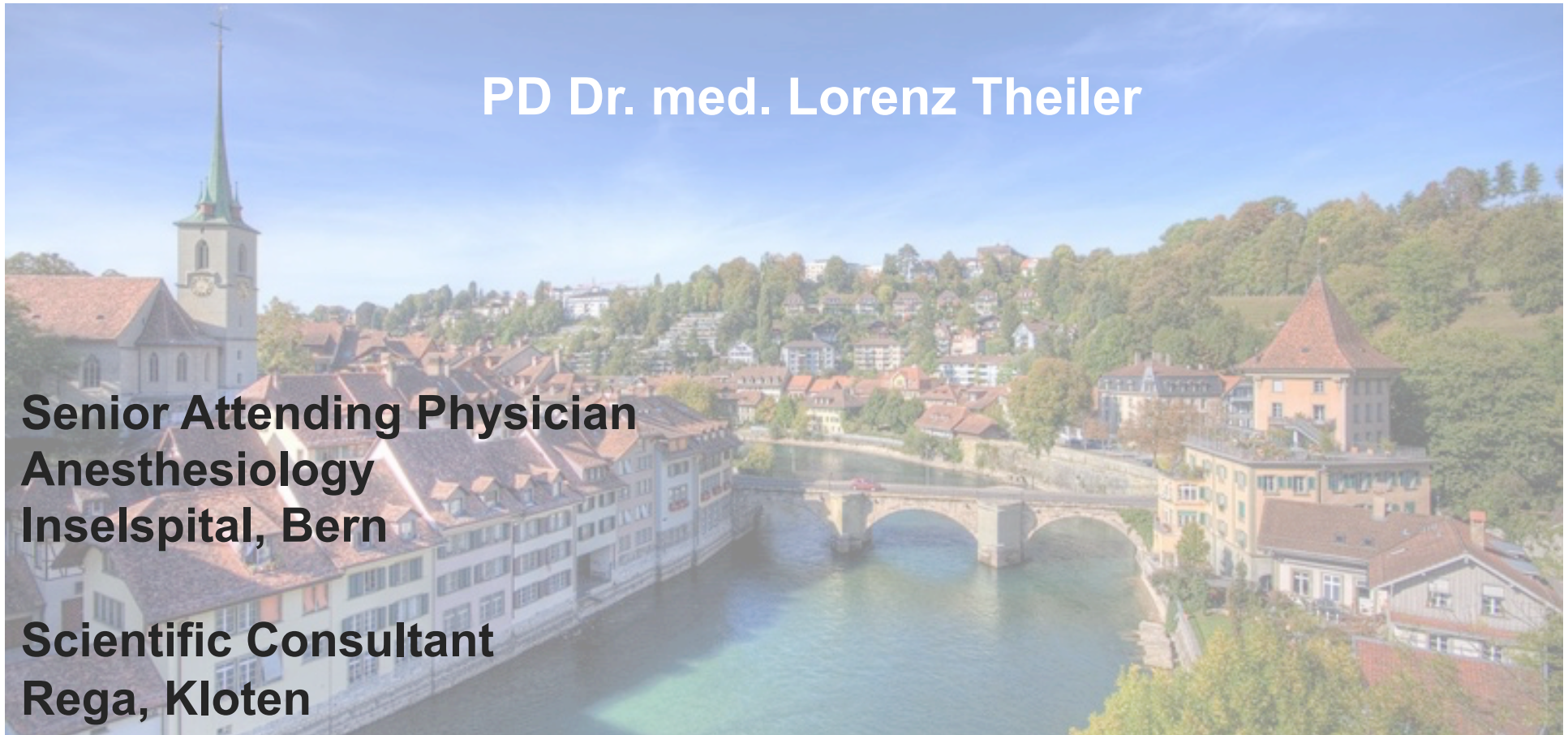


Intubation: only with Video-Laryngoscope!! The Facts 2018

PD Dr. med. Lorenz Theiler

**Senior Attending Physician
Anesthesiology
Inselspital, Bern**

**Scientific Consultant
Rega, Kloten**



Intubation: Video-Laryngoscope



1. Superior View



- J Clin Anesth. 2008 Aug; 20(5):401-402
- Acta Anaes Taiwan.2008 Mar; 46(1):39-41
- J Clin Anesth.2007 Dec; 19(8):619-21
- Can J Anaesth. 2007 Jul;54(7):588-9
- Otolaryngol Head Neck Surg. 2007 Jul; 137(1):175-6
- Anesth Analg 2007 Jun ;104(6):1609-10
- Anesth Analg 2007 Jun ;104(6):1610-11
- Can J Anaesth 2007; Jan54 (1):54-57

1. Superior View



- Eur J Emerg Med. 2011 Oct;18(5):282-4
- Emerg Med J. 2011 Aug;28(8):650-3
- Prehosp Emerg Care 2016;20:333–342
- SJTREM 2016; 24:84

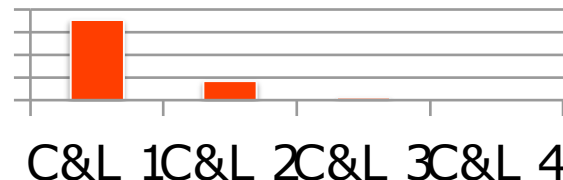
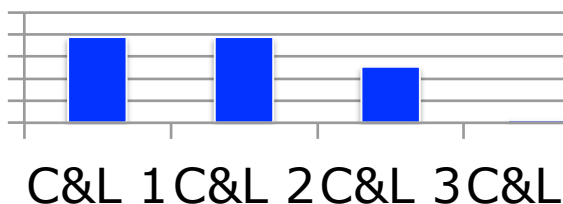
EJA 2015; 32:1-7

ORIGINAL

Improved PM video hospital
An obser
Bjoern Hossfeld, Tobias Frey, Felix Boegler, Corina Lampi and Matthias Helm

25% klinisch relevante Verbesserung der Sicht

the C-MAC for out-of-



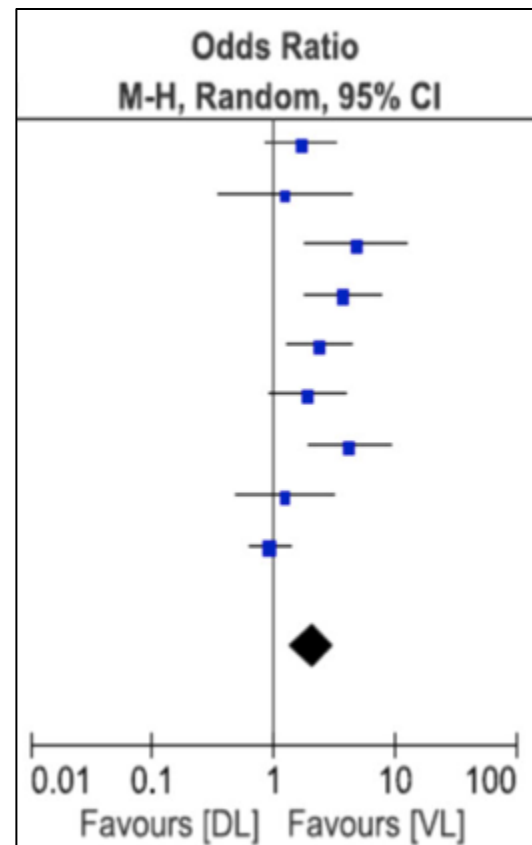
2016, Belp



2. ↑↑ 1st Success



Video laryngoscopy versus direct laryngoscopy for orotracheal intubation in the intensive care unit: a systematic review and meta-analysis
Intensive Care Med (2014) 40:629–639



3. ↓ Injuries



Cochrane
Library

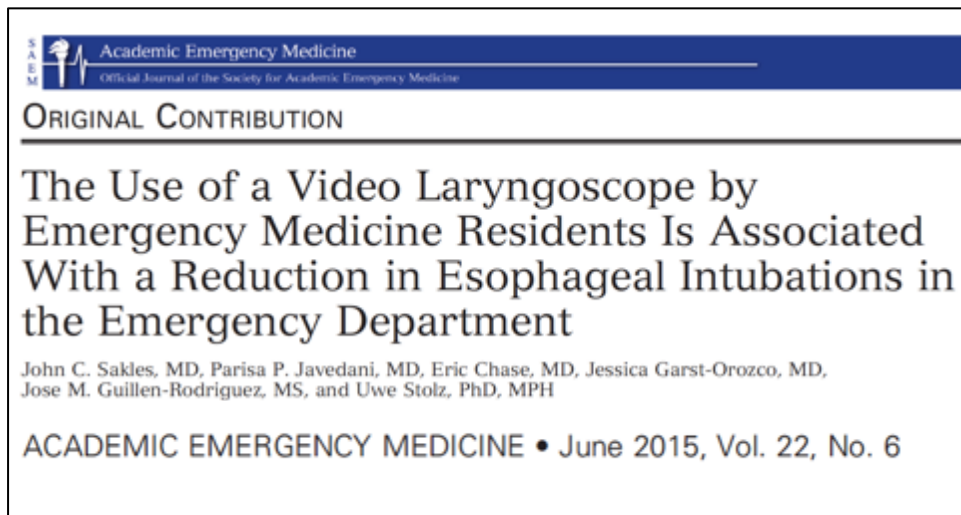
Cochrane Database of Systematic Reviews

Issue 11, 2016

Videolaryngoscopy versus direct laryngoscopy for adult patients requiring tracheal intubation (Review)

24% weniger Verletzungen
43% seltener Heiserkeit

4. ↓↓ Esophageal Intubation

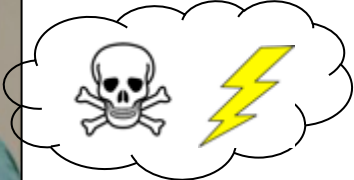
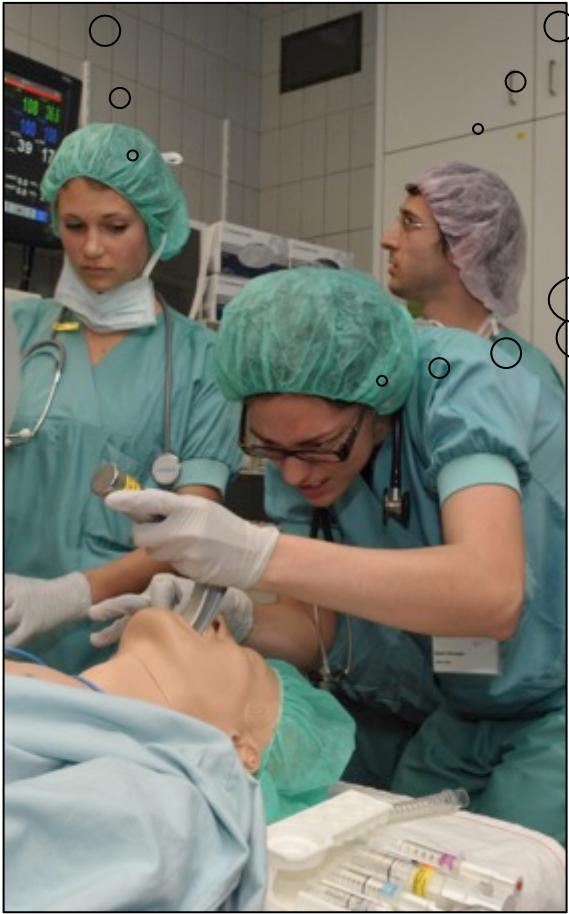
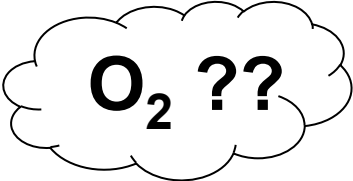


7x ↓↓

5. Team Performance



Lonely Airway Hero



Team Performance



Which Video-Laryngoscope?

BJA
British Journal of Anaesthesia, 116 (5): 670-9 (2016)
doi: 10.1093/bja/aew058
Respiration and the Airway

RESPIRATION AND THE AIRWAY

Evaluation of six videolaryngoscopes in 720 patients with a simulated difficult airway: a multicentre randomized controlled trial

M. Kleine-Brueggeney^{1,2,*}, R. Greif¹, P. Schoettker³, G. L. Savoldelli⁴, S. Nabecker¹ and L. G. Theiler¹



**Channelled
Videolaryngoscopes:
No benefit**

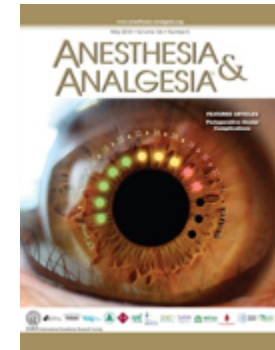
Anaesthesia 2016
doi:10.1111/anae.13714

Original Article

Evaluation of three unchannelled videolaryngoscopes and the Macintosh laryngoscope in patients with a simulated difficult airway: a randomised, controlled trial*

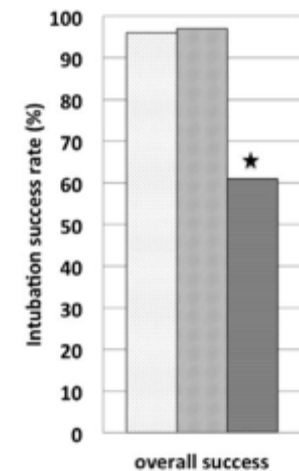
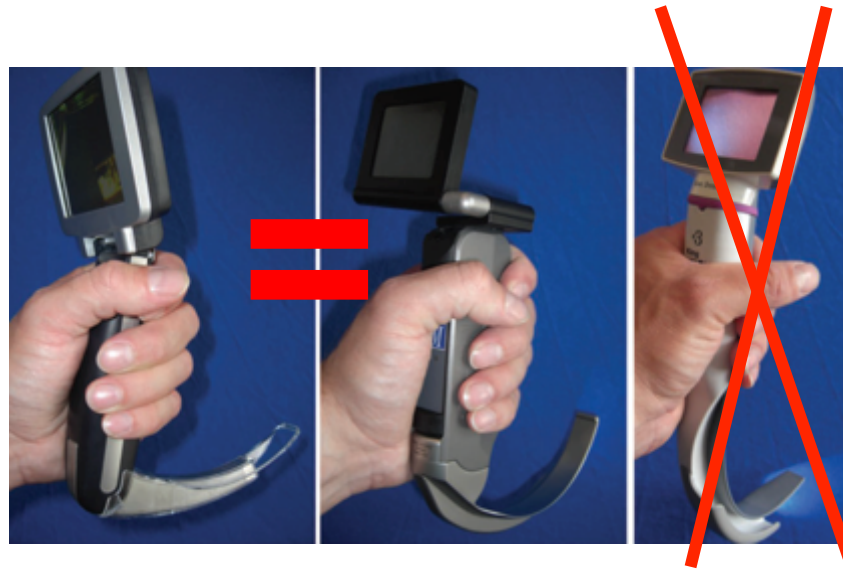
M. Kleine-Brueggeney,^{1,2} M. Buttenberg,³ R. Greif,⁴ S. Nabecker⁵ and L. Theiler⁶

Which Video-Laryngoscope?



Videolaryngoscopy for Physician-Based, Prehospital Emergency Intubation: A Prospective, Randomized, Multicenter Comparison of Different Blade Types Using A.P. Advance, C-MAC System, and KingVision

Erol Cavus, MD,*† Sebastian Janssen, MD,* Florian Reifferscheid, MD,‡ Amke Caliebe, PhD,§
Andreas Callies, MD,|| Martin von der Heyden, MD,¶ Peer G. Knacke, MD,# and Volker Doerges, MD‡



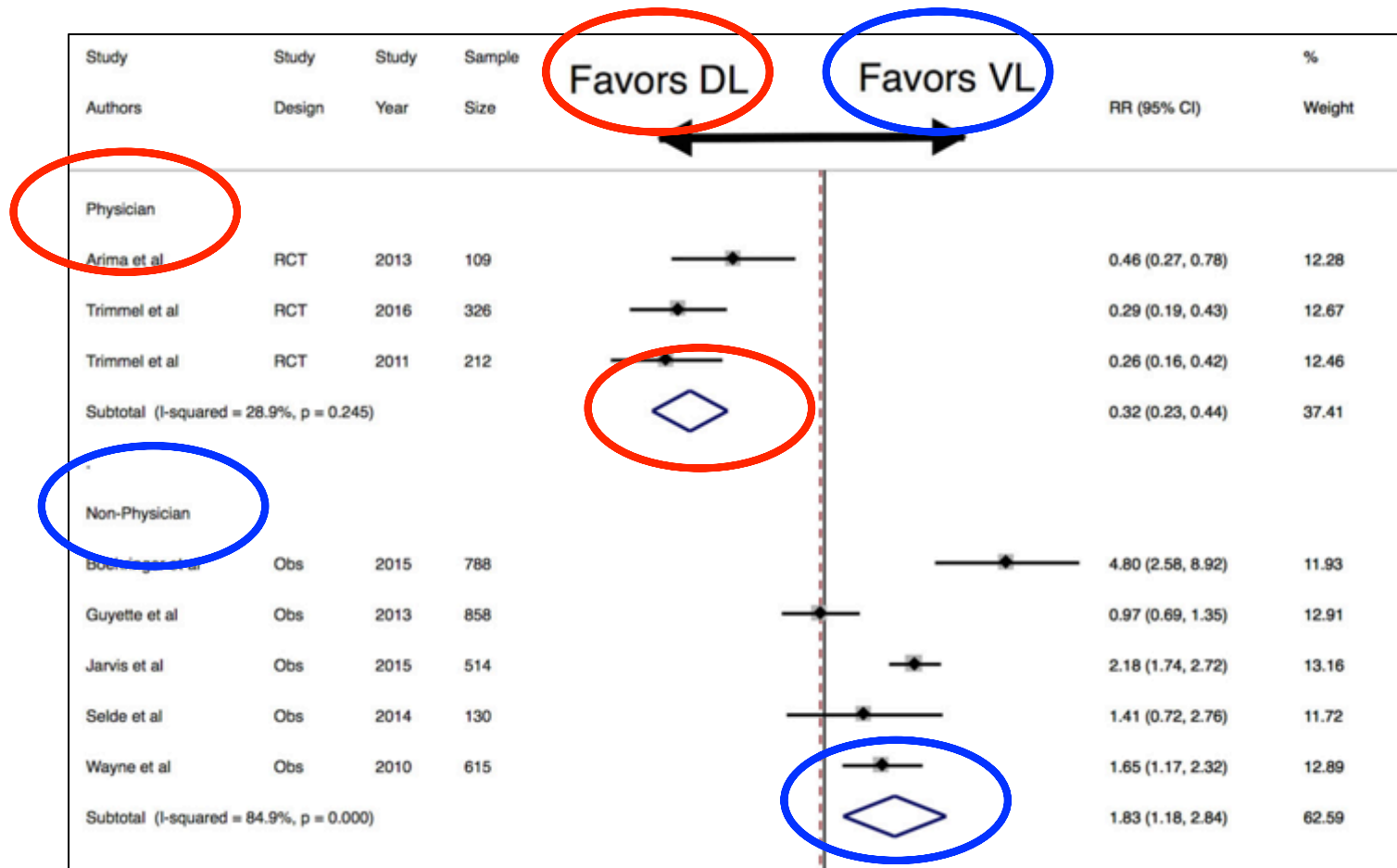
Which Video-Laryngoscope?



GlideScope
vs.
Direct Laryngoscopy

Trimmel et al. Critical Care Medicine, 2016

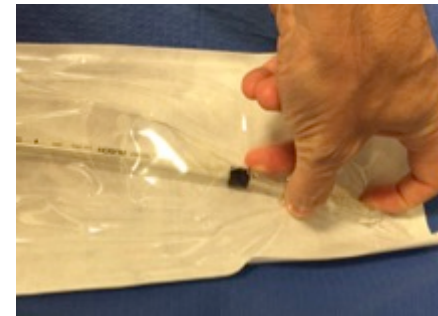
Savino et al., Acad Emerg Med 2017, Meta-Analysis



Difficult Airway Blade

“You see that you fail”

Learning curve: n=76 for
experienced Anesthetists
Cortellazzi, Anaesthesia 2014



JAMA Published online May 16, 2018

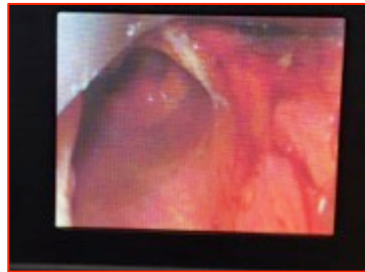
1.



2.



3.



4.



5.





2018

5th EUROPEAN
AIRWAY
MANAGEMENT
CONGRESS



4-7 December