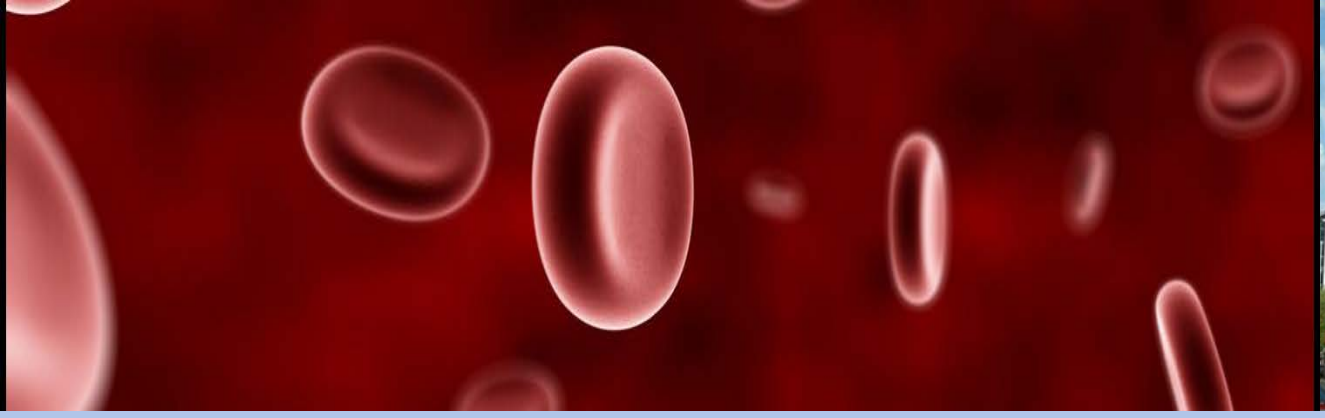


Patient Blood Management and Iron

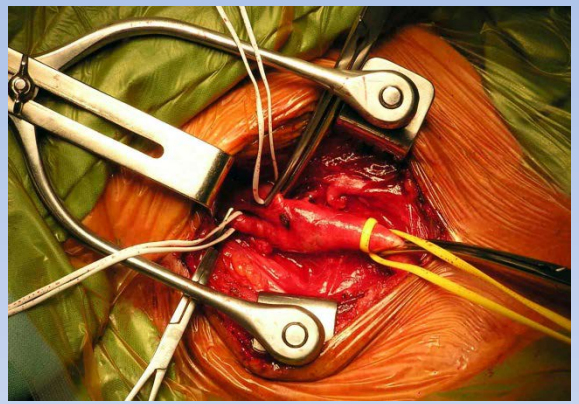
- Mr Toby Richards
- Vascular & Endovascular Surgeon
- Senior Lecturer in Surgery
- University College London

PREVENTT

Preoperative intravenous iron to treat anaemia in major surgery

Surgery: - What Problem?

- LA



- Keyhole

Surgery: - The Problem

- Blood Loss

- Transfusion

Anaemia

THE LANCET

Articles

Preoperative anaemia and postoperative outcomes in non-cardiac surgery: a retrospective cohort study

Khaled M Musallam, Hani M Tamim, Toby Richards, Donat R Spahn, Frits R Rosendaal, Aida Habbal, Mohammad Khreiss, Fadi S Dahdaleh, Kaivan Khavandi , Pierre M Sfeir, Assaad Soweid, Jamal J Hoballah, Ali T Taher, Faek R Jamali

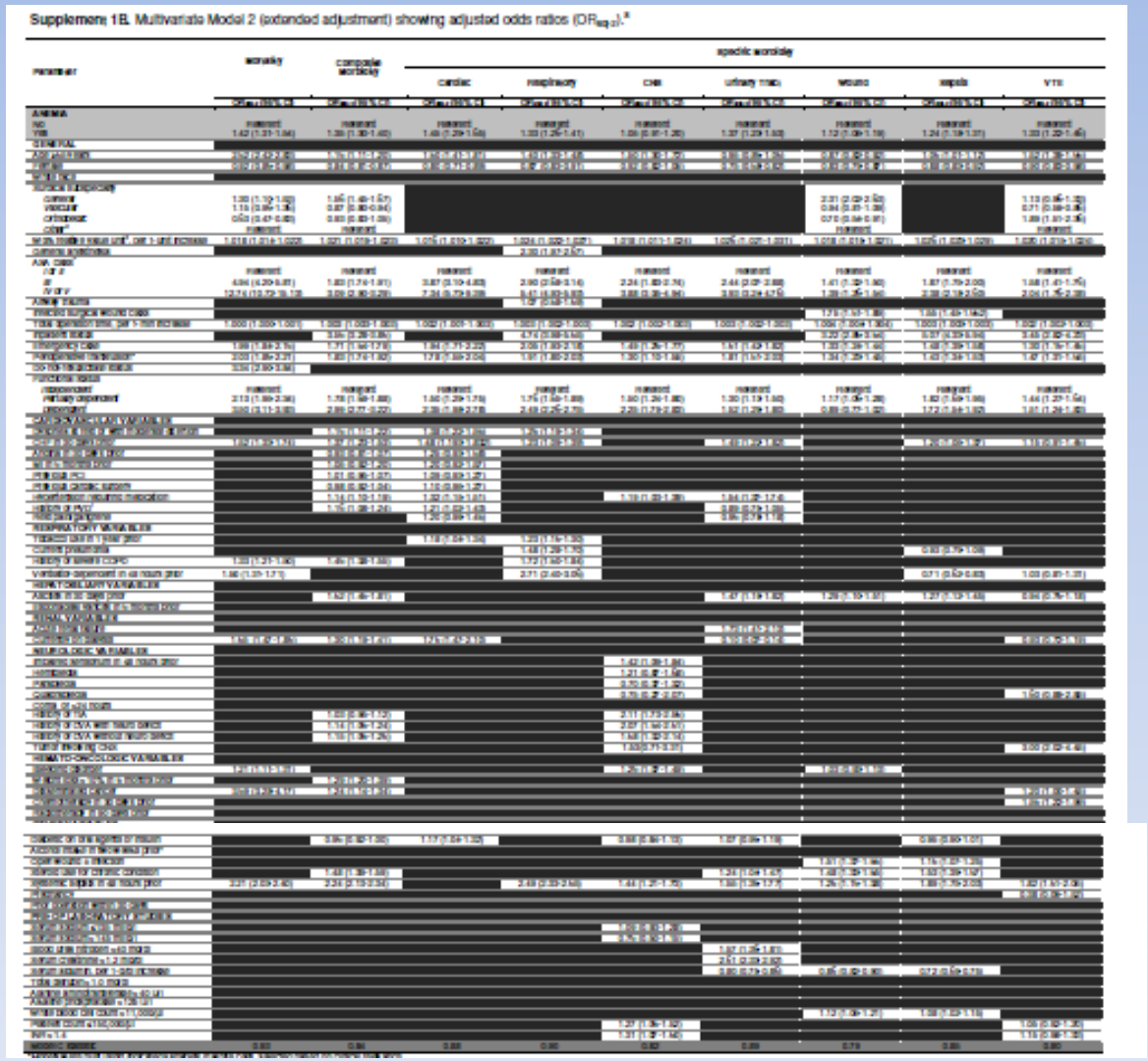
US Veterans Database (NSQIP) (n=227,425)

Anaemia (n=69,229; 30.4%)

30day mortality
30day composite morbidities (9 defined areas)

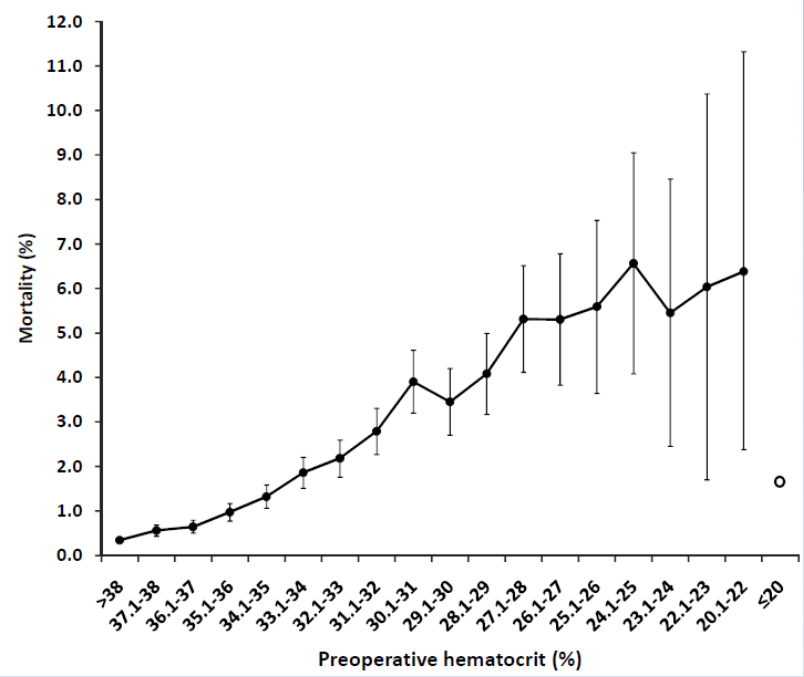
Multivariate regression
(9 defined subgroups)
(56 cofactors)

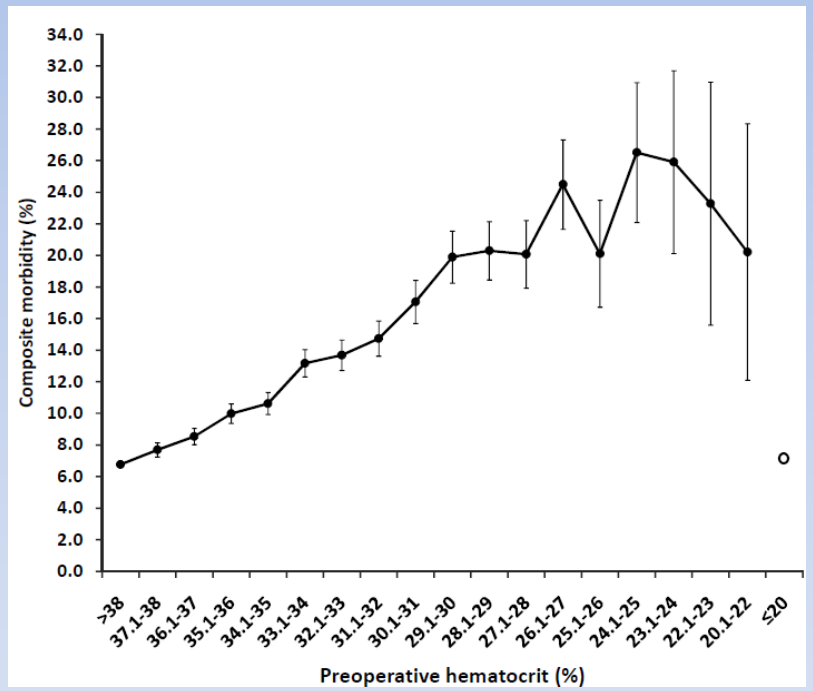
Univariate analysis



Supplement 1B. Multivariate Model 2 (extended adjustment) showing adjusted odds ratios (OR_{adj}).[a]

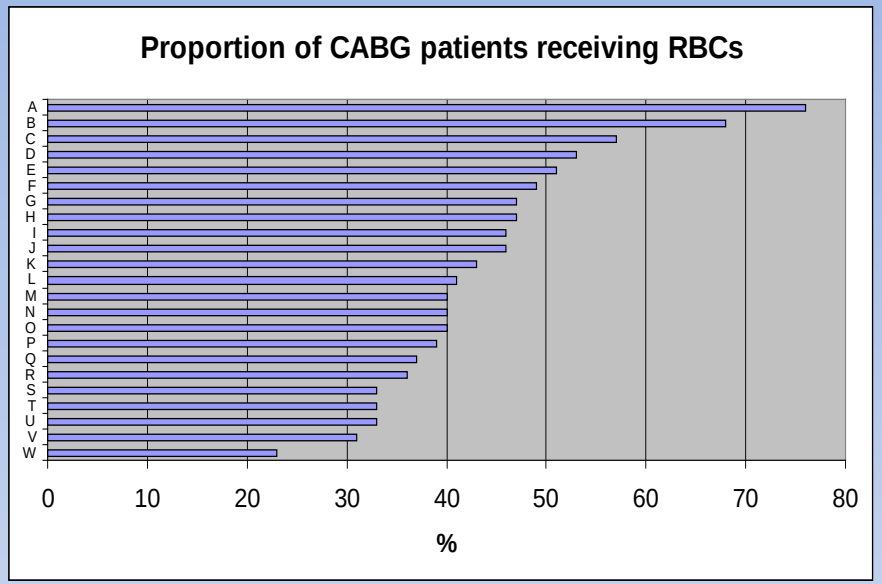
Effect of Anaemia on Outcome





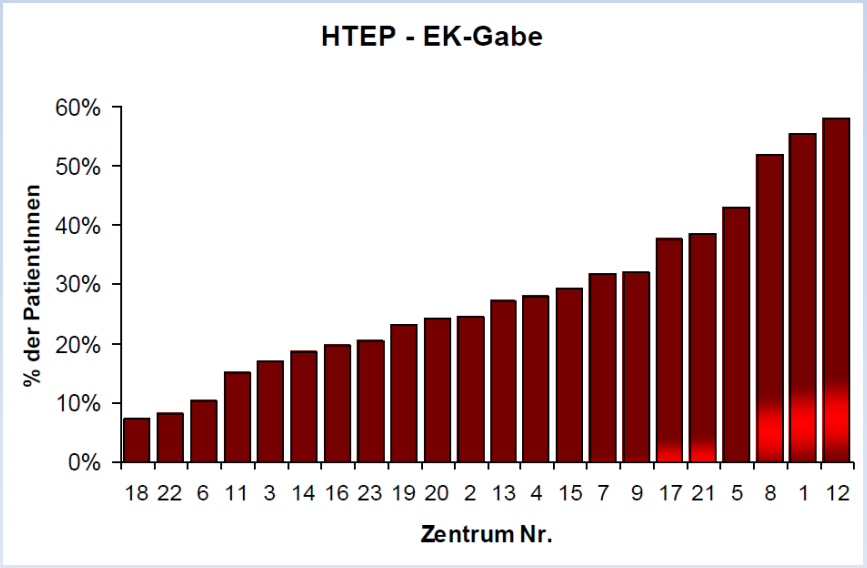
Transfusion

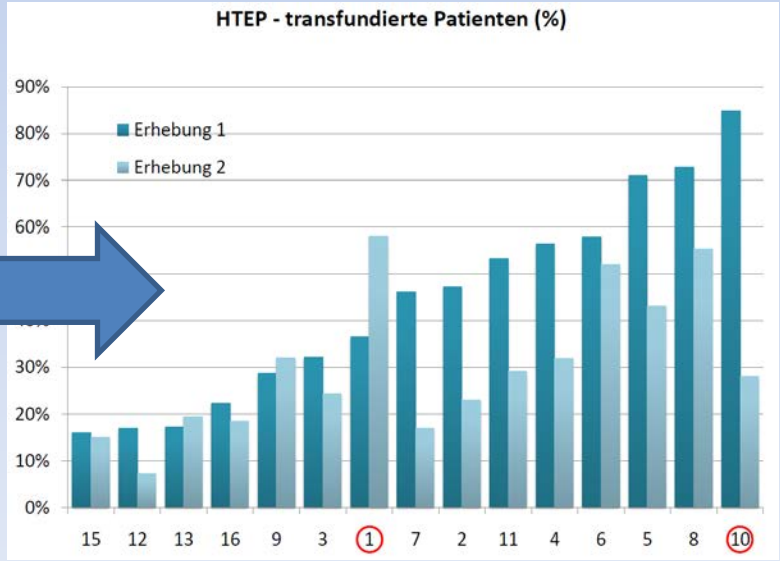
National audit of blood use in cardiac surgery, 2011



Variability

Benchmarking





ORIGINAL ARTICLE

Surgical Outcomes and Transfusion of Minimal Amounts of Blood in the Operating Room

Victor A. Ferraris, MD, PhD; Daniel L. Davenport, PhD; Sibu P. Saha, MD, MBA; Peter C. Austin, PhD; Joseph B. Zwischenberger, MD

Arch Surg. 2012;147(1):49-55

- 941,406 patients
  - 173 Hospitals
  - 2005-2009
- 48,291 transfused

ORIGINAL ARTICLE

Surgical Outcomes and Transfusion of Minimal Amounts of Blood in the Operating Room

Victor A. Ferraris, MD, PhD; Daniel L. Davenport, PhD; Sibu P. Saha, MD, MBA; Peter C. Austin, PhD; Joseph B. Zwischenberger, MD

Arch Surg. 2012;147(1):49-55

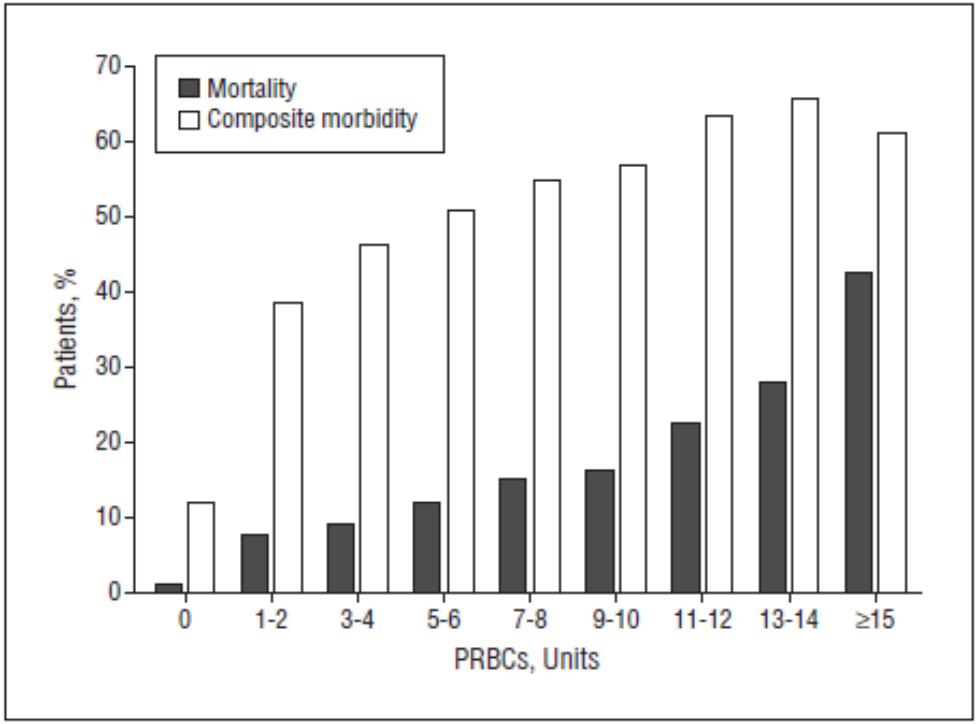


Figure. Unadjusted mortality and composite morbidity rates by number of units of packed red blood cells (PRBCs) received in intraoperative blood transfusion.

Where to start?

British Journal of Anaesthesia **107** (S1): i41–i59 (2011)
doi:10.1093/bja/aer350

BJA

What is really dangerous: anaemia or transfusion?

A. Shander[1,2,3,4*], M. Javidroozi[1], S. Ozawa[5] and G. M. T. Hare[6,7]

[1] Department of Anesthesiology and Critical Care Medicine, Englewood Hospital and Medical Center, Englewood, NJ 07631, USA
[2] Department of Anesthesiology, [3] Department of Medicine and [4] Department of Surgery, Mount Sinai School of Medicine, New York, NY 10029, USA
[5] Institute for Patient Blood Management and Bloodless Medicine and Surgery, Englewood Hospital and Medical Center, NJ 07631, USA
[6] Department of Anesthesia, St Michael's Hospital, University of Toronto, Keenan Research Centre in the Li Ka Shing Knowledge Institute, St Michael's Hospital, Toronto, ON, Canada M5B 1W8
[7] Department of Physiology, University of Toronto, Toronto, ON, Canada M5S 1A8

* Corresponding author. E-mail: aryeh.shander@ehmc.com

On with the Talks…….