Medical care at Camp Bastion

Many of the techniques and processes developed by UK Armed Forces medical personnel are now saving lives in the NHS

300
doctors, nurses and support personnel at the hospital

450
personnel evacuated by the Critical Care Air Support Team to the UK

14,000
UK personnel seen at Role 3 Hospital

39,000
CT scans

50,000
X-rays

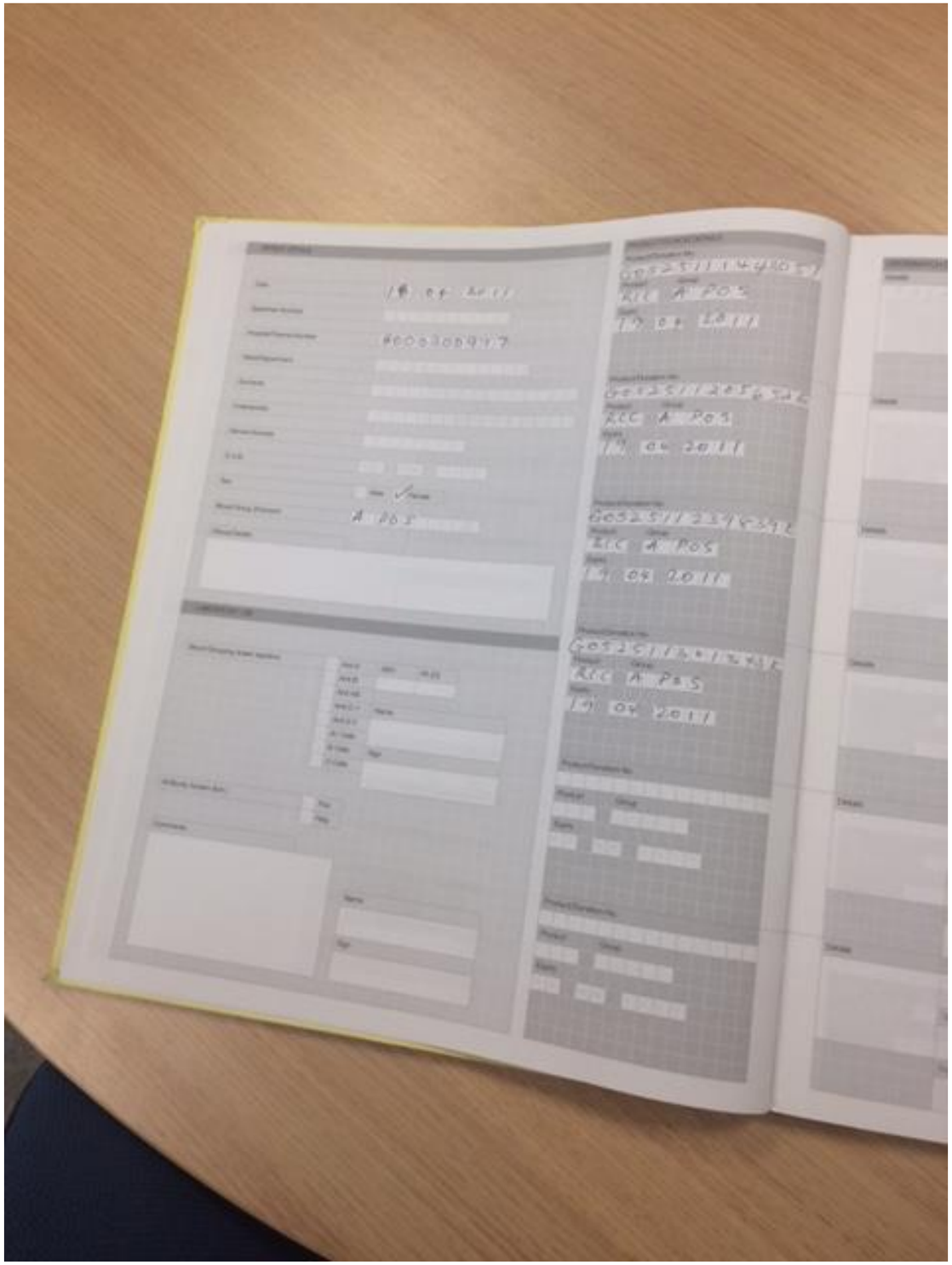
15,500
litres of blood transfused to

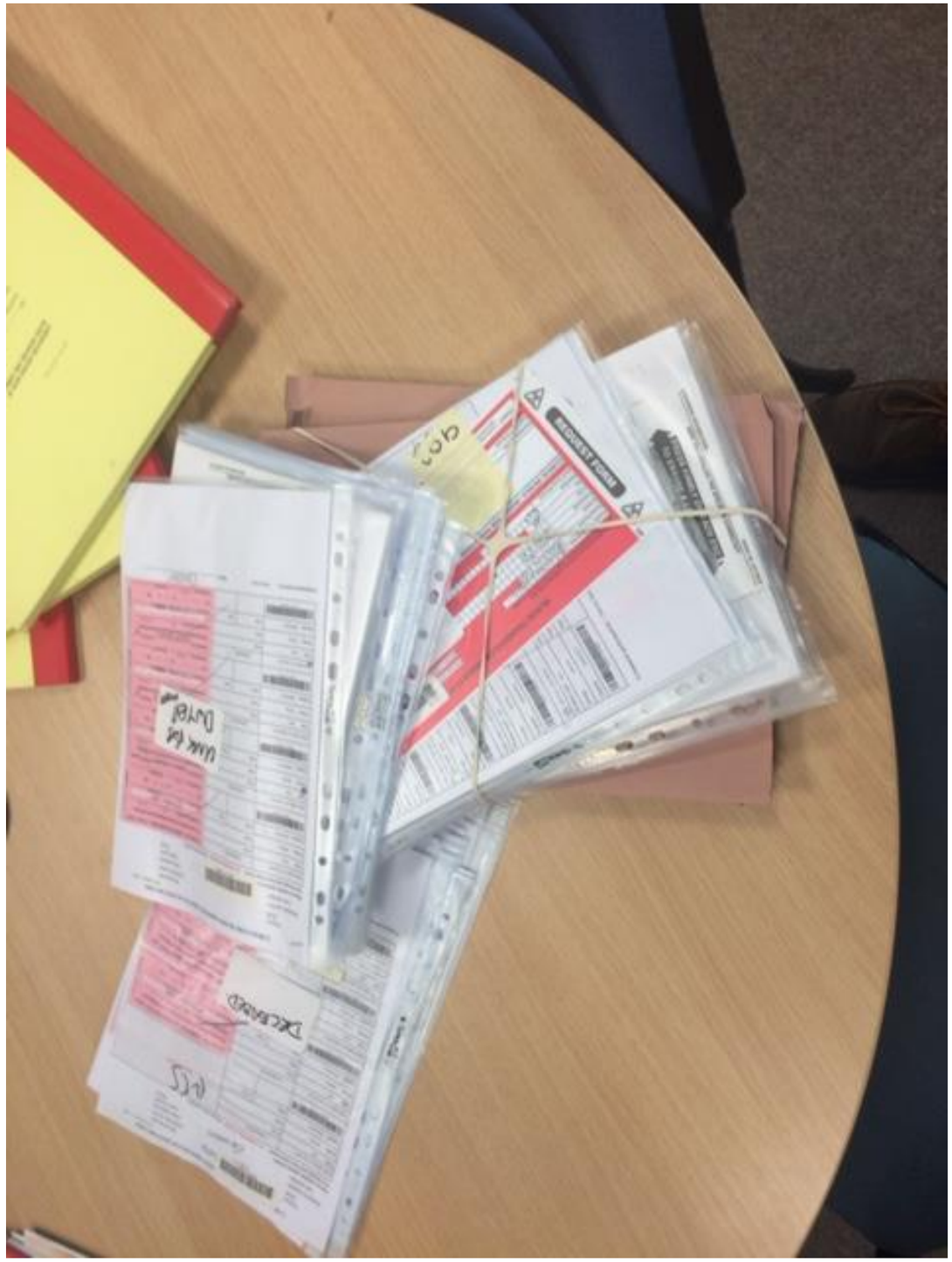
2,600
trauma patients

6,500
cases transferred to Bastion by Chinook Medical Emergency Response Team

Bastion's Role 3 Hospital opened in 2006 and became one of the world's leading trauma care facilities

Figures are approximate

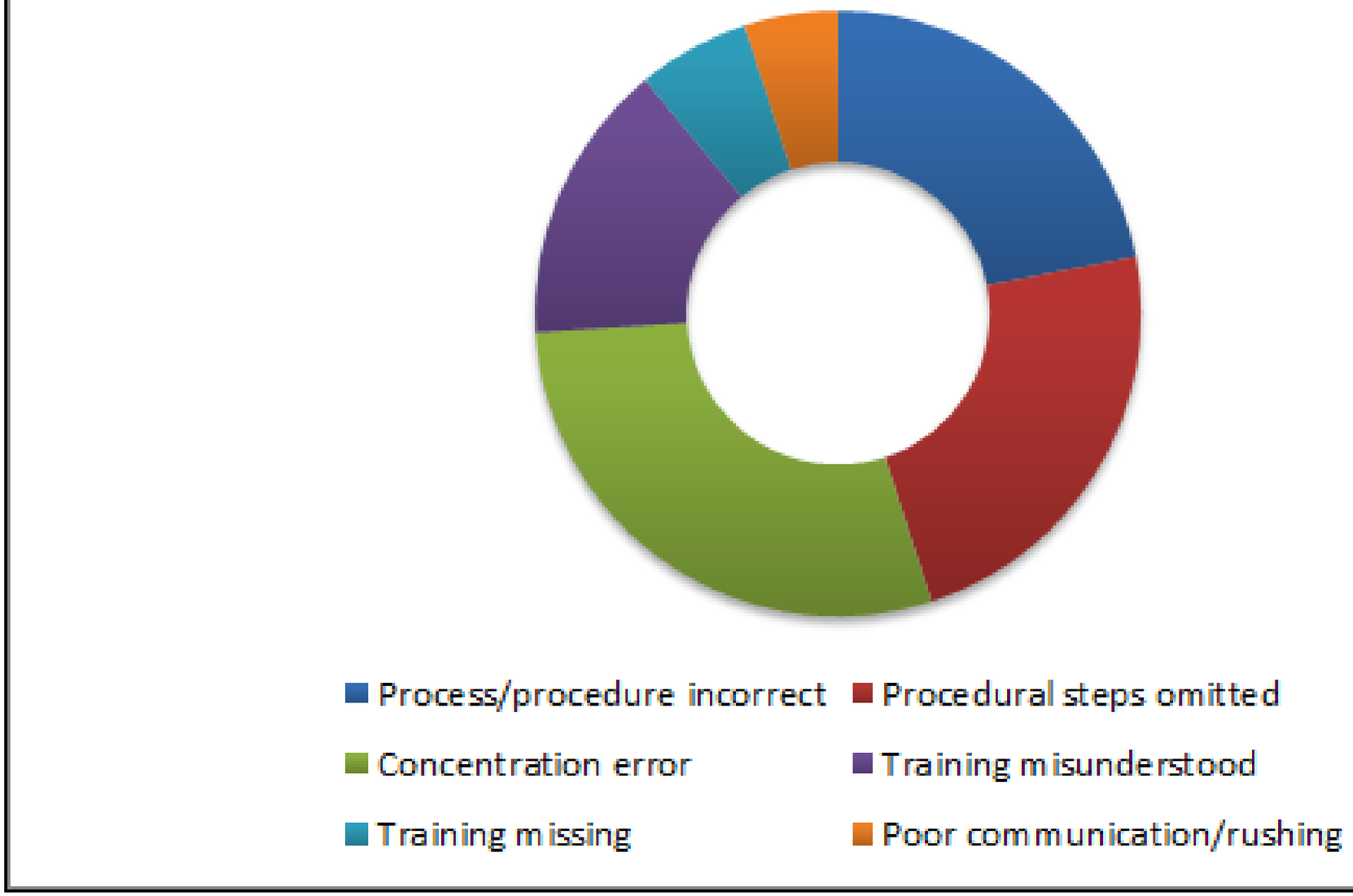




Impact of ‘Friction’ upon the BMS

Root causes of human error

(data from MHRA 2011, graph by Questionmark)



Mitigation

- Training
- More personnel
- Lab Information System
- Improved Diagnostics
- Review of SOP and associated procedures

All Useful, but the friction of MASSIVE TRANSFUSION And RISKS still present.

HOW DID WE ADDRESS the LATENT RISK?

AMSTC
Army Medical Services Training Centre

AMSTC

- Simulation , not ‘just’ training
- (Cultural Impact / Language / Humidity!)
- Validates deployable medical teams
- Infinitely reconfigurable
- Responds to ‘real-life’ changes
- professional, full time management team

ONE SHOT reportable event

inetrnational observers

Impact

- Lab equipment installed
- LIMS set -up
- real time scenarios
- ‘FRICTION’ simulated
- Added benefits (Team building and Trust!)
- ‘Only’ two SHOT/SABRE events

Versatility is key

Ebola Crisis 2014-15

South Sudan 2017 onwards

The value of simulation over ‘isolated’ scenario based training

- **2006 - Hogg, Pirie, Ker “*The use of simulated learning to promote safe blood transfusion practice*” Nurse Education in Practice**
- **2014 - Morgan, Rioux-Masse, Oancea, Konia, “*Simulation based education for transfusion medicine*”**
- **2016 - Campbell, Poost-Farooshm Pavenski, Contreras, Alam et al “*Simulation as a toolkit - Understanding the perils of blood transfusion in a complex healthcare environment*” Advances in Simulation**

IMMERSIVE TRAINING AND INTEGRATION OF MULTIDISCIPLINARY TEAMS SEEMS TO REDUCE THE NEGATIVE EFFECTS OF FRICTION

Questions?