



Centre of Defence Pathology

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OiC CD Path Blood and Operational Support



Blood Transfusion from a Military perspective Lessons learned

More specifically looking at Human Factors involved in Military BMS deployment





Human Factors overview

- Human Factors involved in Military BMS deployment
 - how we address them
- Military hospital deployment
- Unique Factors effecting performance
- Deployed blood transfusion



Apologies if I offend ©

Background

- 20 YEARS Military BMS
- Trained in Military Hospital RH Haslar
- Deployments
 - Iraq 2 tours (12 months)
 - Afghanistan 3 tours (9 months)
 - Birmingham 4 tours (6 years and counting)
- Pte Warrant Officer then commissioned 2014
- OIC BMS training
- OIC Clin
- OIC Blood and Op





Human Factors

- The interaction between; people and people, people and machine, people and procedures and people and the environment.
- The understanding and application of physical, physiological and behavioural factors in the design, operation, maintenance and management systems to optimise safety, performance and capacity.
- It is multidisciplinary, and embraces individuals, teams and organisations
- "Bring harm to our Enemies, Not ourselves"... Grmm



Human Factors

Safety success is vital to our global presence as a successful world-leading military force that can fight effectively and win, but without unnecessary harm to people, equipment and the environment.

The way we perform as individuals and teams, in often demanding and complex working environments is critical to our success.

Gauge our successes not just by positive outcome for the patients, but by our ability to collectively regroup and start again.



Human Factors

People People are fallible Processes aren't perfect We do our best to mitigate









Factors we need to consider

- Work within NHS
- Work within different trusts
- Not necessarily working with a familiar team
- Regular/reservist
- Work with different equipment
- Work with different SOPs
- Not necessarily have the same first language NATO
- Organisation
- Environment
- Design







TRAIN HARD - WORK EASY



Unit exercises





Military BMS Training PDT





AMSTC-Army Medical Services Training Centre







Simulation not 'just' training

- Validates deployable medical teams
 - Key Performance Indicators
- Infinitely reconfigurable
- Responds quickly to real life changes
- Dedicated full time management team



AMSTC turning up the heat....





Immersive training



Lab equipment set up LIMS set up Real time scenarios Frictions simulated

Team building and Trust









To improve is to change; to be perfect is to change often.

Winston Churchill

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