

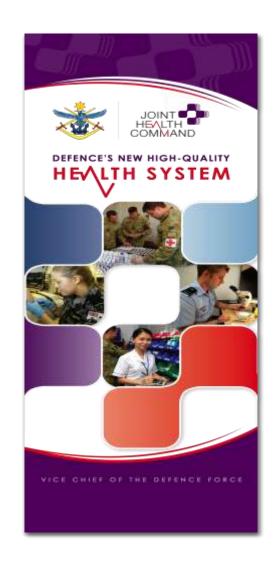
The Defence Health System – Where to next?

Brigadier Craig Schramm, CSC Director General Health Capability ADF



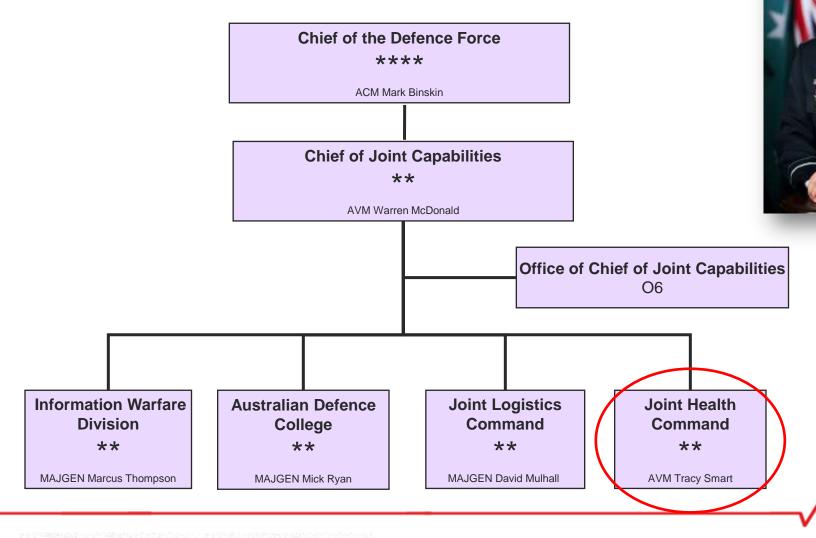
Scope

- Strategic overview of Joint Health Command roles
- Health Support to Operations
- Research in support of current & future capability
- Future technology where are we going?

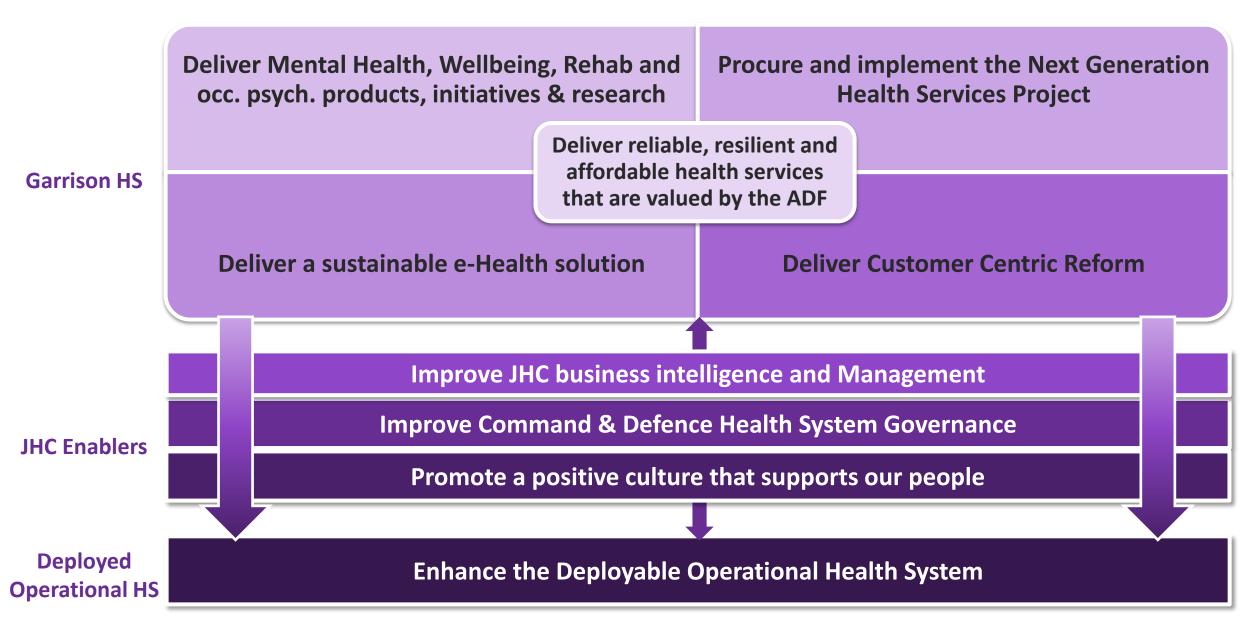




Joint Capabilities Group



JHC Priorities



ADF puts people in harm's way...

- High risk activities
- Extreme environments
- From training to war
- Physical & mental stressors









Mitigators

- Risk assessment & planning
- Force protection
- Workplace Health and Safety
- ADF health services
 - Maximise health fitness
 - Force health protection
 - Treatment services







Exercising Defence's Extreme Duty of Care on behalf of the Nation

ADF Health Support

- A key combat enabler of ADF Capability
 - capabilities that bind military capabilities together to maximise Defence's operational effectiveness



ADF Capability







Defence of Australia and its National Interests

Defence Health System

Defence Health System Surgeon General ADF

Joint Capability Coordinator for Health, LCM Health Materiel: policy, governance, accreditation, direction & oversight

Deployed Operational HS Services, JOC

Joint Deployable Role 2E

Garrison HS

Commander Joint Health

On-base Primary Care

Civilian HS

Australian civilian
health sector through ADF
Health Services contract

- Off-base Specialists, allied health, hospitals
 - Pathology
 - Radiology & Imaging
 - Hotline

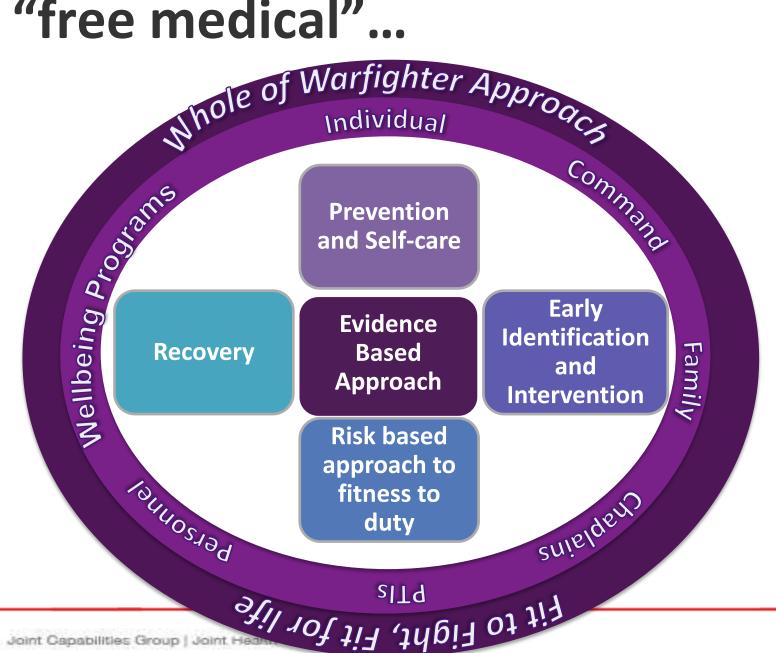




Australian Government

Department of Veterans' Affairs

Not just "free medical"...





JHC Roles

- Key military enabler
- Strategic health advice to CDF and Government
- Integral with command to assure the raise train and sustain of the force in being
- Support the Services operational health elements
- Technical control over ADF Health
- Materiel sustainment
- Use research to develop contemporary health policy, procedures and countermeasures



ADF Health Support

- Enable operational tasks
 - Minimizing preventable casualties through Force health protection measures
 - Treatment of wounded, ill and injured
- Provide health care to civilians deployed with a force
- Provide health care to civilian populations to relieve human suffering
- Provide health care to detained persons in accordance with International Humanitarian Law



Joint Operations

- Defence health support is deployed in:
 - Maritime
 - Land
 - Air
 - Amphibious









Joint Operations

- Across a broad range of operational tasks
 - Warfighting
 - Peace enforcement
 - Security operations including evacuation operations
 - Humanitarian assistance
 - Disaster relief







Regional Security

- Exercises with partners
 - e.g. Pacific Partnership, Pacific Angel
- Knowledge Exchange
- Capacity building
- Training
- Clinical services
- Interoperability







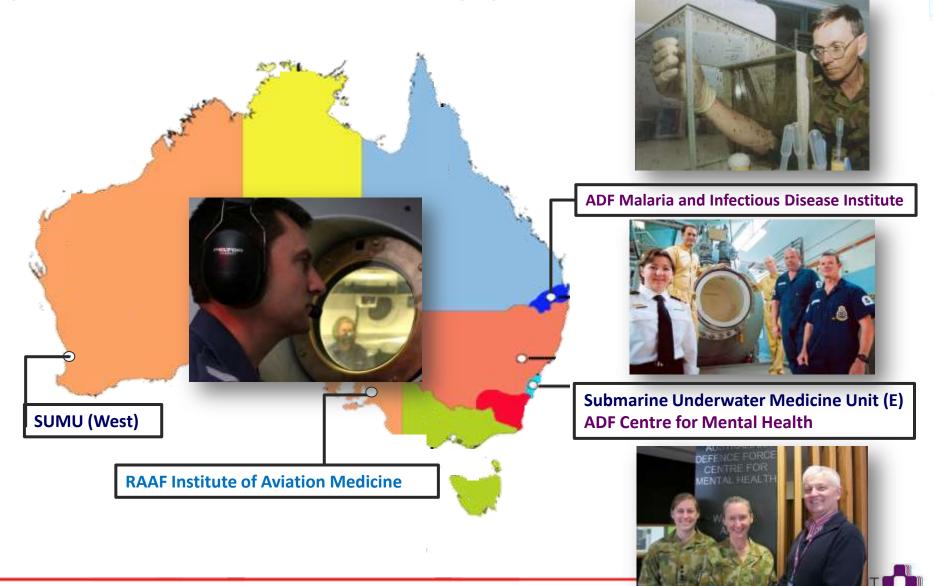
Research required across the spectrum

- Mental Health
- Combat Casualty Care
- Infectious Diseases
- CBR medical countermeasures
- Injury Prevention & mitigation
- Health Informatics
- Occupational Medicine
- Aviation Medicine
- Underwater Medicine





Specialist Health Support



COMMAND

ADF Malaria & Infectious Disease Institute

(formerly Known as AMI)

- Roles:
 - clinical advice
 - diagnostic testing
 - research/clinical trials
 - Training
 - regional capacity building
 - WHO Collaborating Centre for Malaria.
- International partnerships with region,
 US





JHC's Research Partners

- UQ Professor Military Medicine
- DVA
- DSTG
- International organisations
 - CBR MOU
 - TTCP
 - NATO
 - others





Medical Countermeasures

- Very broad scope and well beyond military applications
- Natural and man made contingencies
- Across spectrum
 - Prevention
 - Detection
 - Diagnostics
 - Treatment/management
- Need for organic Australian industry capacity



Prevention: Behavior/Lifestyle/ Treatment intervention to



Detection: Early detection of disease at the molecular level



Diagnosis:

Accurate disease diagnosis enabling individualized treatment strategy



Treatment:

Improved outcomes through targeted treatments and reduced side effects



CBR MedCM Research

- Non-traditional Agent prophylaxis, and treatment
- BW toxins prophylaxis and treatment
- Rapid field diagnostics and biosurveillance
- Bioscavengers
- Broad spectrum BW antimicrobials
- Enhanced tissue engineering techniques
- Development of decision support tools
- Medical countermeasures
 - Plague, Q Fever, viral hemorrhagic fevers
- Novel therapeutics for treatment of traditional agents
- Domestic and regional capacity building in diagnostics





Technology – Where are we going?

- Health Knowledge Management Systems
 - Much more than an electronic health record
- Wearable devices
- Artificial Intelligence
- Genetic/genomic screening
- Personalised medicine/nutrition
- Performance optimisation
- Unmanned Aerial Systems
- VR consultation/training
- Remote/robotic surgery



Unmanned Aerial Systems

- Delivery of equipment/diagnostics/medication/blood/advice
- Evacuation









VR Consultation/Training

- Telemedicine +
- Training in surgical and other invasive techniques





- Austere environments
- Remote localities















• Jerri Nielsen





• Leonid Rogozov







Questions?

Defence Health Services



Trusted to Care

