



# **Surgeon General's Health Research Program What – Why - How**

**“To better Shield and Sustain Canada’s fighting forces through health innovation”**



# The What

- Surg Gen Health Research Mission to direct, support and assist in the research, technology and analysis and the development, engineering and evaluation of outcome-based science and technology initiatives that affect the performance, health and welfare of all our Canadian fighting forces wherever we serve, protecting Canadians at home and abroad.



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# Priority Areas of Research

| OPERATIONAL MEDICINE  | TRAUMA CARE  | PUBLIC/OCCUPATION HEALTH  | MENTAL HEALTH  |
|---|--|---|--|
| <ul style="list-style-type: none"> <li>- fatigue counter-measure</li> <li>- CBRN</li> <li>- aerospace medicine</li> <li>- hyperbaric/underwater medicine</li> <li>- personnel or force protective equipment</li> <li>- extreme environment</li> <li>- medical intelligence</li> </ul>           | <ul style="list-style-type: none"> <li>- brain injury</li> <li>- haemorrhage control</li> <li>- resuscitation</li> <li>- battlefield</li> <li>- CCC – pre-hospital, hospital, rehab</li> <li>- diagnostics</li> <li>- trauma systems</li> <li>- critical care/ICU</li> </ul>   | <ul style="list-style-type: none"> <li>- tropical medicine</li> <li>- non-hostile health hazards</li> <li>- communicable disease</li> <li>- health promotion</li> </ul>   | <ul style="list-style-type: none"> <li>- deployment MH</li> <li>- community MH (collaborative care)</li> <li>- specific treatments</li> <li>- resiliency</li> </ul>                        |
| HC RESOURCE MGT   | PRIMARY CARE   | EPIDEMIOLOGY/ POPULATION HEALTH   | HUMAN RESOURCES  |
| <ul style="list-style-type: none"> <li>- finance (how much does it cost to provide HC to our members as patients)</li> <li>- health information management</li> <li>- health care utilization</li> <li>- system performance</li> <li>- supply chain management (testing, validation)</li> </ul> | <ul style="list-style-type: none"> <li>- validation and outcome measurement – HS system, HS model</li> <li>- analysis and evaluation – pharmacy, spectrum of care, etc.</li> <li>- quality of care</li> <li>- medical standards</li> <li>- clinic practice guidelines – best practice</li> <li>- patient safety</li> </ul> | <ul style="list-style-type: none"> <li>- validation of interventions</li> <li>- prospective health data analysis</li> <li>- retrospective health care analysis</li> <li>- disease surveillance</li> <li>- deployment health outcomes</li> <li>- clinical preventative care outcome</li> <li>- compliance rates – performance measurement</li> </ul> | <ul style="list-style-type: none"> <li>- learning systems</li> <li>- MCSP validation</li> <li>- scope of practice</li> <li>- attraction, retention</li> <li>- employment models</li> </ul> |



## Topical Areas (sample of 141 items)

- Establish most effective trg tools to instill medical competencies (live tissue simulation vs. mannequin)
- Development of an improved backboard system
- Oxygen carrying resuscitation fluid
- Fatigue Countermeasures in Aircrew
- Neck pain in aircrew related to NVG use
- Database analysis on the past 10 years of aeromedical decision made in aircrews
- Field friendly, non sedating analgesic
- Risk factors and countermeasures for heat stroke in CF ops and trg
- Portable Oxygen generating system to be used with facemask, BVM or ventilator - fieldable



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# The Why



**PROTECT – SUSTAIN – CURE – HEAL**



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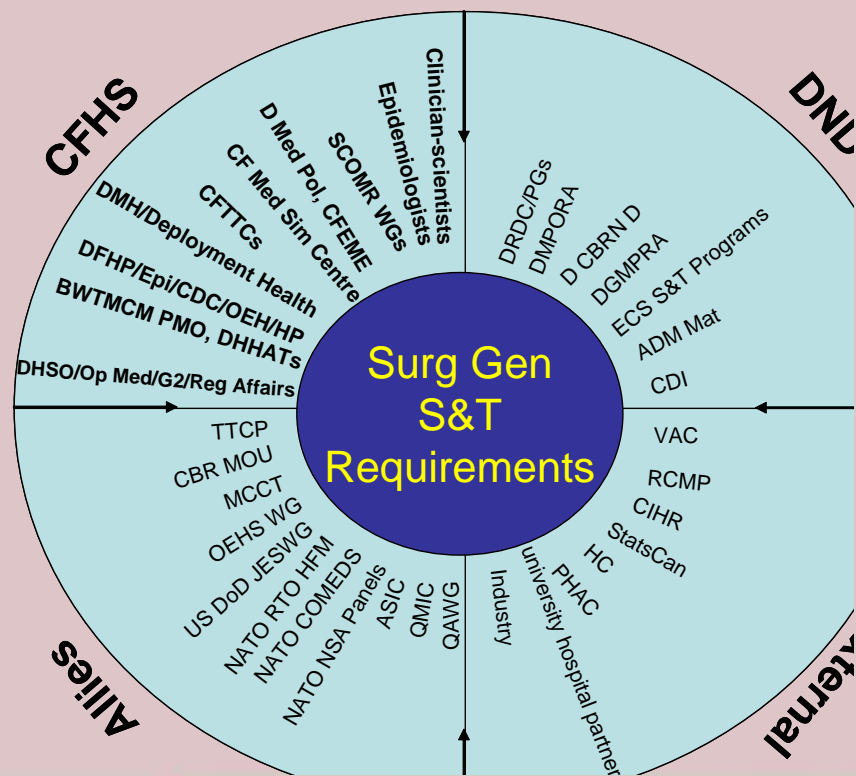




# The How - A Vision

## Surgeon General's Canadian Institute for Military and Veterans Health Research:

*a concept in development*



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# Strategic Partners

**Collaborative**

**DND / OGDs**

- Solution transfer
- Shared infrastructure

**Allies**

- Knowledge access
- Shared infrastructure

**Surg Gen**

**Competitive**

- Market intelligence
- Intellectual property

- Problem definition
- Funding



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# Questions?



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