

BRAZIL

Brazil Issue Paper # 02

INCLUSION OF TELEMEDICINE IN MILITARY OPERATIONS

1. ISSUE PAPER THEME

Medical

2. SUMMARY / BACKGROUND / PREVIOUS HISTORY

Since its establishment in 1991, the Telemedicine and Advanced Technology Research Center (TATRC) has been a pioneer in integrating advanced technologies to address critical gaps in military medicine. Among its initiatives, the development and implementation of telemedicine systems in military operations stand out, aiming to enhance medical care in combat environments and remote areas. The inclusion of telemedicine guidelines in the operational manual will ensure that teams are prepared to use these technologies effectively, aligning with international best practices and optimizing available resources during missions.

3. DETAILED PROPOSAL

It is proposed that a clear and detailed section be added to the chapter addressing medical support standards within the operational manual, establishing the framework for the implementation and utilization of telemedicine in military operations. Benefits observed include:

- Remote Medical Support: Enables specialists to provide clinical support remotely, reducing response times and improving the quality of field medical care.
- Reduction of Medical Evacuations: Remote diagnoses and treatments minimize the need for evacuations, conserving resources and reducing operational risks.
- Continuous Training: Facilitates training and updates for medical teams in isolated locations, maintaining proficiency and adaptability to new practices. Practical applications include real-time consultations via videoconference, patient monitoring through connected devices, and virtual training sessions even in remote locations.

Recommended equipment for Telemedicine in Military Operations includes:

Communication and Imaging Equipment:

- Rugged Notebook
- Tactical Military Tablet
- High-Resolution Camera
- Portable Videoconferencing System
- Portable Endoscopic Camera

Integrated Medical Equipment:

- Portable Multiparametric Monitor
- Portable Wireless Ultrasound
- Portable Electrocardiograph (ECG)
- Digital Glucometer with Bluetooth Connectivity

Communication Infrastructure:

- Satellite Connectivity Equipment (BGAN or portable VSAT)
- Secure Portable Military Wi-Fi Router Software and Applications
- Secure Encrypted Medical Videoconferencing Software
- Telemedicine Platform for Data Recording and Secure Communication

Accessories and Consumables:

- Cables and Adapters
- High-Capacity Military Power Bank
- Telemedicine Tactical Case or Backpack

4. FINANCIAL IMPLICATIONS

The financial impact will depend on the scale of implementation and specific mission requirements. Costs will include procurement of hardware, software, accessories, training, and maintenance, with potential long-term savings from reduced evacuations and improved treatment outcomes. The figures below are estimates; however, reference may also be made to the cost tables of equipment already established by the United Nations, where similar equipment exists.

Telemedicine Equipment

Equipment	Generic fair market value
Rugged Notebook	\$2,500
Tactical Military Tablet	\$1,000
High-Resolution Camera	\$3,000
Portable Videoconferencing System	\$1,000
Portable Endoscopic Camera	\$1,029
Portable Multiparametric Monitor	\$480
Portable Ultrasound Wireless	\$6,130
Portable Electrocardiograph (ECG)	\$1,339
Digital Glucometer with Bluetooth Connectivity	\$100
Satellite Connectivity Equipment (BGAN or portable VSAT)	\$6,130
Secure Portable Military Wi-Fi Router	\$300
Secure Encrypted Medical Videoconferencing Software (annual license)	\$500
Telemedicine Platform for Data Recording and Secure Communication	\$25,000
Cables and Adapters (kit)	\$100
High-Capacity Military Power Bank	\$100
Telemedicine Tactical Case or Backpack	\$300

5. PROPOSED 2026 COE MANUAL TEXT

A new section shall be included under Chapter 3, annex C, p. 87:

(Q) Member States deploying personnel in military operations are encouraged to implement telemedicine capabilities, including remote consultation, patient monitoring, and virtual training. Necessary equipment and infrastructure should be provided in accordance with operational requirements and international best practices. Reimbursement provisions shall cover the procurement, deployment, and maintenance of telemedicine systems as outlined in the mission-specific Memorandum of Understanding (MOUs).

Chapter 3, annex C, appendix 19, p. 140.

Telemedicine Equipment

Equipment	Generic fair market value
Rugged Notebook	\$2,500
Tactical Military Tablet	\$1,000
High-Resolution Camera	\$3,000
Portable Videoconferencing System	\$1,000

2026 COE WORKING GROUP | MEMBER STATE ISSUE PAPER

Portable Endoscopic Camera	\$1,029
Portable Multiparametric Monitor	\$480
Portable Ultrasound Wireless	\$6,130
Portable Electrocardiograph (ECG)	\$1,339
Digital Glucometer with Bluetooth Connectivity	\$100
Satellite Connectivity Equipment (BGAN or portable VSAT)	\$6,130
Secure Portable Military Wi-Fi Router	\$300
Secure Encrypted Medical Videoconferencing Software (annual license)	\$500
Telemedicine Platform for Data Recording and Secure Communication	\$25,000
Cables and Adapters (kit)	\$100
High-Capacity Military Power Bank	\$100
Telemedicine Tactical Case or Backpack	\$300