



The Evolution of Armored Evacuation Platforms

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August 2026

Disclosures

- CPT Adi Horesh, MD MPH, has no conflict to report.
- This work was performed as part of the Israel Defense Forces Trauma and Combat Medicine Branch effort to improve the quality of combat casualty care and received no external funding or support.



About myself

28 years old

Medical doctor, MPH

Surgeon of 435 infantry battalion in the Givati Brigade 84

Surgeon of the Givati Infantry Brigade during the Swords of Iron War and operation "Lion's Roar".



Ground Medical Evacuation in the Givati Brigade



הפיכה וסריקת איזורים
נסתרים



Ground Platforms for MedEvac Developed During the Swords of Iron War



Learning Objectives

Analyze the shift to a clinical-operational design in combat evacuation vehicles

Assess the challenges of integrating medical equipment into diverse wheeled and tracked armored platforms

Explain the spatial and physical requirements for a medical team to provide high standard, continuous en route care for casualties in a moving platform



The “Skip Approach”



Traditional Evacuation: Delayed definitive care due to staged, transport-only transfers.

**Point of
Injury (POI)**

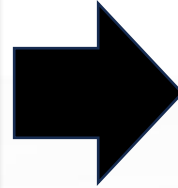
En-Route Care Vehicle

**Air Evacuation/
Regional Med Co.
to Definitive Care**

**Direct evacuation bypassing intermediate medical echelons.
Demands full clinical capability during transport.**



The Dual Challenge of Modern Casualty Evacuation



Delivering intensive care
level resuscitation inside a
violently moving still box



Component Prioritization

Stretcher



Blood Refrigerator



Oxygen



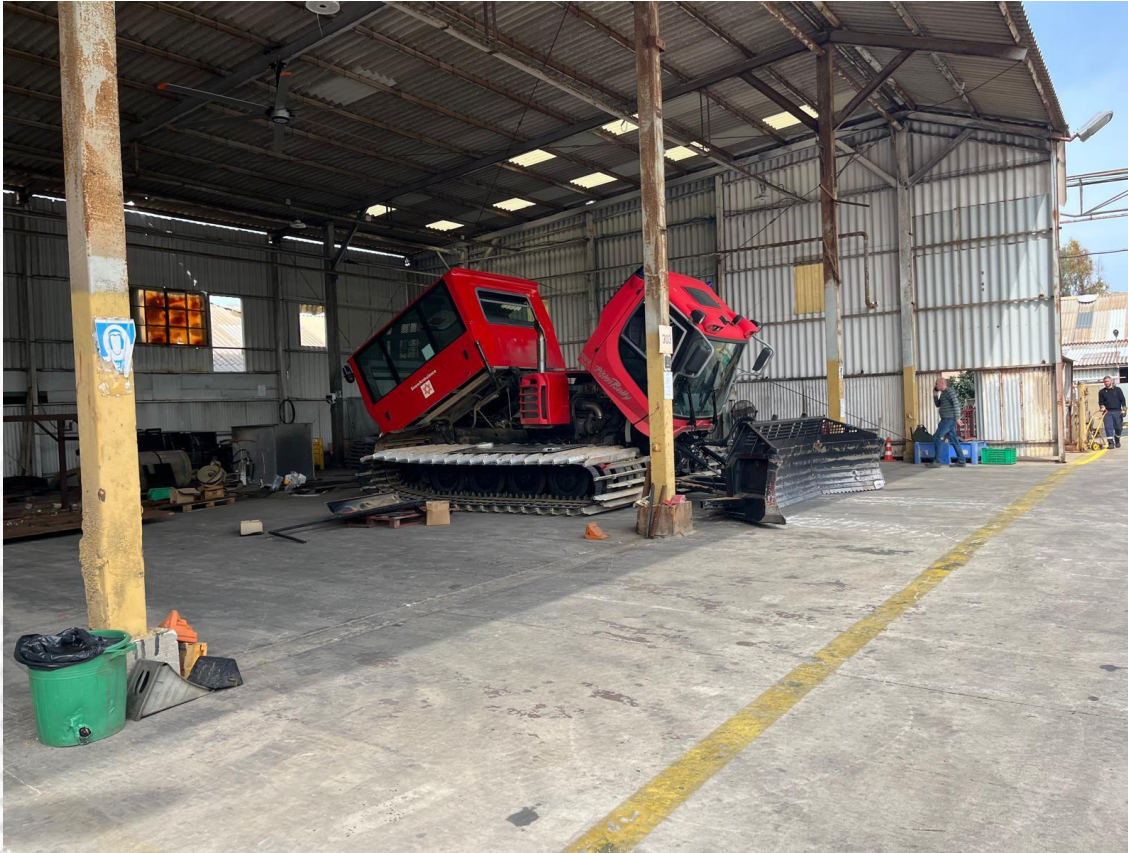
Medical Equipment



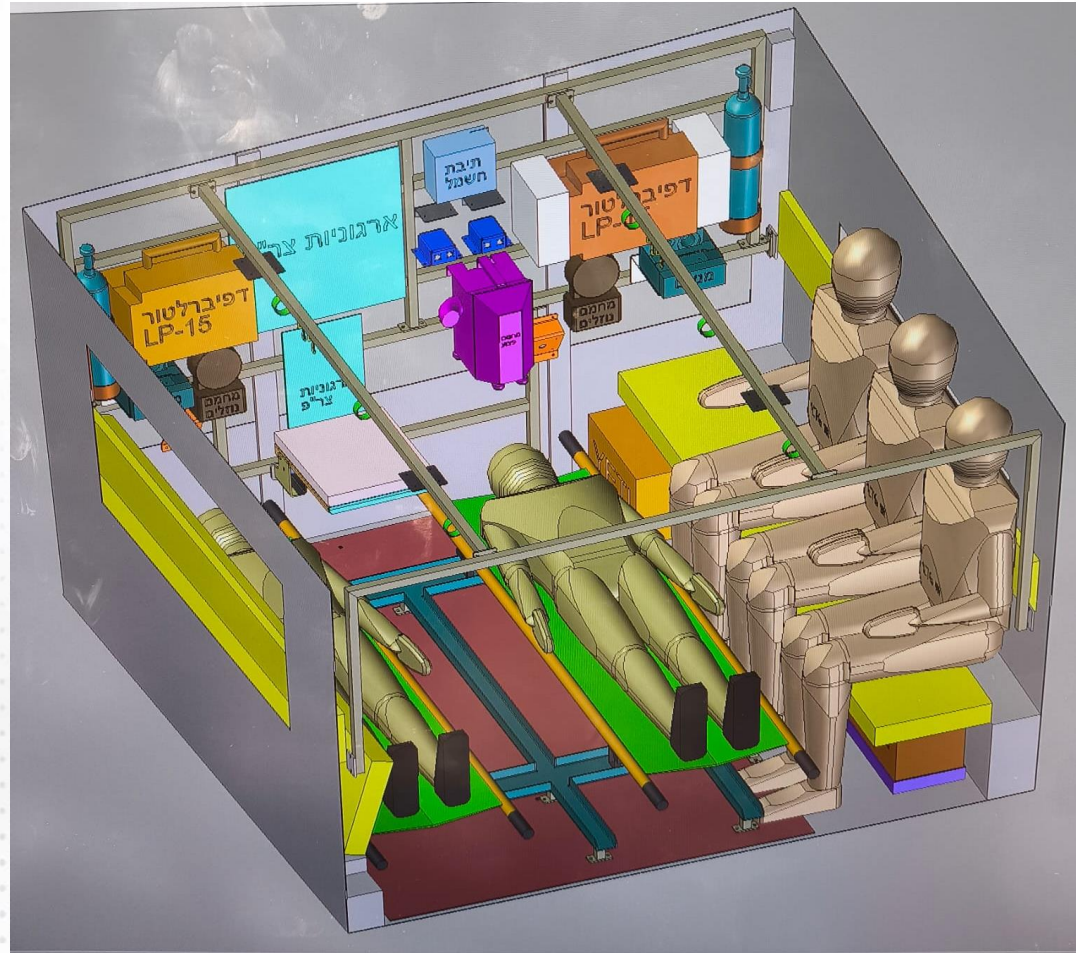
Cabin cameras for continuous recording and streaming to rear echelons is being developed



Snowcat-Bulance - Designing Process



Sketch



Fabrication



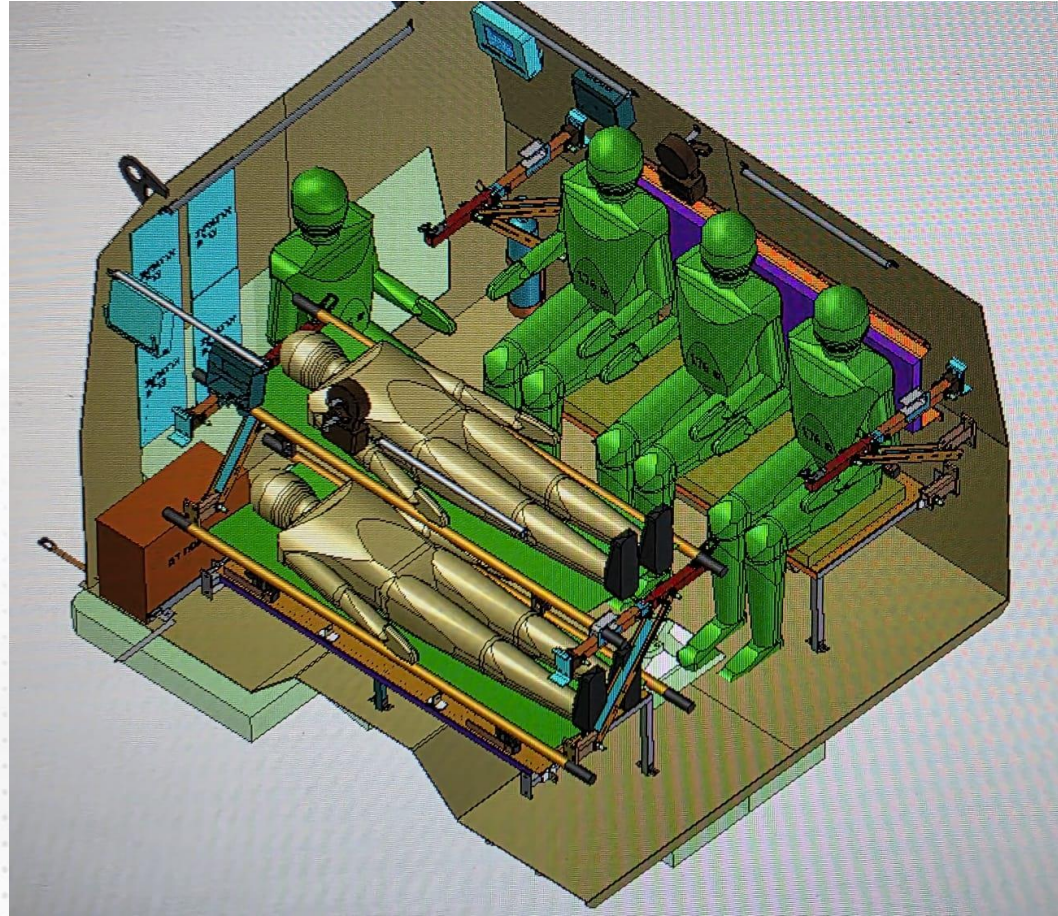
Test



JLTV Utility for MedEvac - Designing Process



Sketch



Fabrication



Test



Conclusion & Future Considerations

Pre-War Expectations:

- Multiple iterations with limited feedback per loop
- Simulated testing environment
- Timeline 12-18 months
- Comprehensive component list
- Top-down requirements

War Conditions:

- Single iteration followed by massive feedback from field
- Real-time combat environment
- Timeline 2-6 months
- Separation of critical and “Nice-to-Have” components
- Bottom-up requirements

Future Optimizations

- Automation & telemedicine integration
- Assisted, rapid-load capabilities
- Energy independence





At the moment of truth,
IDF MEDICAL CORPS.

