

Coalition Medical Logistics: Lessons from IDF Operation "Roaring Lion" for Enhanced Military Health Readiness

Dr. Daniel Elbo Arama, EMT-P, BEMS, MEM, PhD^{1,2,3}, Prof. Declan McGuone, MB, BCh³, Yael Ben-Yehuda², Dr. Dean David Lichter, MD, MBA¹, Dr. Matan Daniel, EMT-P, BEMS, MD¹, Iyar Serero Soffer², Tamir Peretz², Itay Honig², Libby-zisel Tsitrin², Dr. Avi Shina, MD, MHA²

1. Department of Military Medicine and "Tzameret," Faculty of Medicine, The Hebrew University of Jerusalem and Israel Defense Forces Medical Corps, Jerusalem, Israel 2.School of Public Health, Faculty of Health Sciences, Ben-Gurion University of the Negev, Beer Sheva, Israel 3. School of Medicine, Yale University, New Haven, CT, USA

Introduction

- During Operation "Roaring Lion," IDF medical services faced **unprecedented logistical constraints** requiring rapid adaptation while maintaining continuous care for dispersed forces.
- Key challenges included **limited protective infrastructure**, rapid transition to remote work, provider concerns for families under fire, technology-enabled distributed care, and **severe movement restrictions** from persistent missile alerts.
- Understanding these bottlenecks is critical for **evidence-based military medical readiness policies** in future large-scale emergencies.

Methods

- Mixed-methods study** integrating quantitative operational data with qualitative frontline perspectives.
- Quantitative analysis examined **operational metrics, resource utilization, satisfaction surveys, and service-delivery indicators** to identify bottlenecks.
- Qualitative data comprised **thirteen in-depth, semi-structured interviews** with medical, logistics, and command personnel.
- Data analyzed thematically for **perceived demands, real-time adaptations, and logistics under fire**.

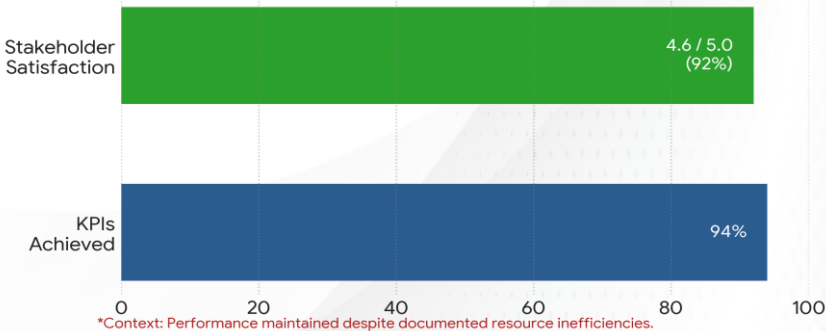
Conclusions

- Emergency medical logistics depend on **preplanned, scalable protective infrastructure** and **agile supply chains** for dispersed forces.
- Militaries should **institutionalize logistics-governance mechanisms** for real-time resource oversight and **pre-position modular protection assets** and design flexible supply models for distributed operations.
- Formalized partnerships with external organizations** should be integrated into doctrine and exercises to ensure resilient logistics support.

Results

- Logistical Operations achieved **94% of key performance indicators**, with patient and stakeholder satisfaction averaging **4.6/5**, despite documented resource inefficiencies.
- Frontline interviews surfaced **significant tension between rapid ad-hoc solutions and optimal resource management** under operational pressure.
- Findings reveal a strong dependency on **reserve-personnel commitment** and **external civilian & governmental partnerships** to sustain emergency logistics.

Logistical Operations Performance Overview



Five Key Themes



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