

FRONTLINE MEDICAL CARE

Delivering Frontline Medical Care Amidst Wartime Dangers: IDF Advanced Routine Healthcare Services During Operation Roaring Lion

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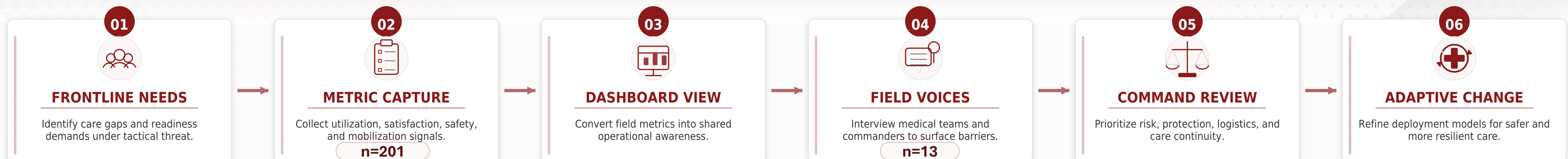
TAKE-HOME MESSAGE

Operation Roaring Lion improved frontline medical care and troop resilience through lean, coordinated, and risk-aware deployment strategies. Future initiatives require specialized metrics to measure the clinical impact of advanced care in combat zones.



FROM REAL-TIME DATA TO OPERATIONAL CHANGE

Mixed-methods field learning cycle for advanced routine healthcare at the tactical edge during Operation Roaring Lion

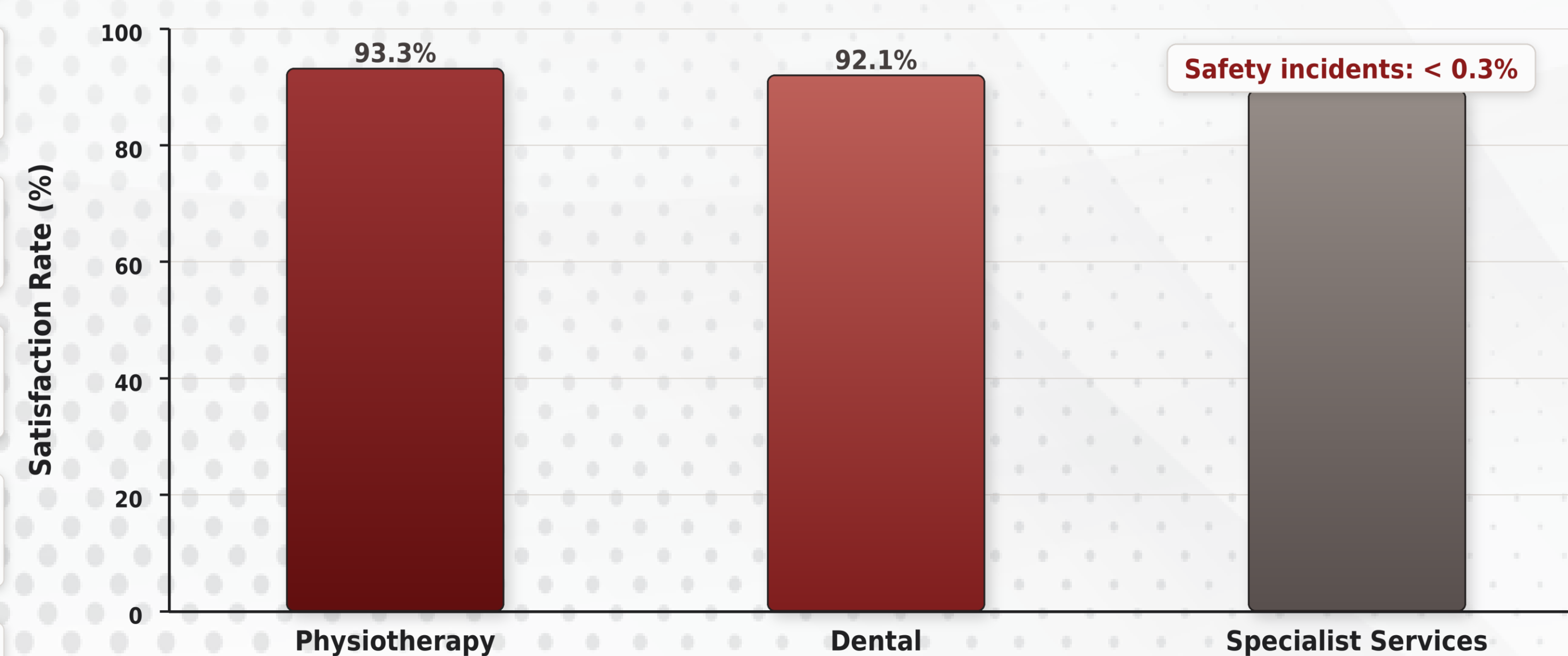


EMBEDDED LEARNING DURING WARTIME

continuous measurement | field interpretation | command action | operational adaptation

Quantitative Results

Patient Satisfaction Across Frontline Services
(n = 201 soldiers)



Qualitative Results

FIVE DOMINANT THEMES

01 RESILIENCE

Advanced frontline care as a critical component of warfighter resilience

05 PREPAREDNESS

The dependence of success on deliberate pre-deployment planning, training, and risk-mitigation protocols for medical teams

02 LOGISTICS

The centrality of logistical simplicity and lean equipment footprints to successful service delivery

04 MEASUREMENT

The inherent difficulty of measuring quality and impact of care in extreme operational contexts

03 COORDINATION

The necessity of close operational coordination between medical teams and maneuver commanders

WHY IS THIS IMPORTANT?

A Blueprint for High-Risk Medicine

We present an operational model for providing complex medical care in active war zones under conditions of minimal equipment and strict safety protocols. Findings indicate that advanced services (e.g., physiotherapy, dental care) help preserve soldiers' health and readiness for duty.

Methodological Considerations & Limitations

Using a mixed-methods approach, we combined in-depth qualitative interviews with 13 key informants with a reasoned analysis of quantitative data. However, the absence of an external control or comparator limits the study to associative rather than causal conclusions.

From Findings to the Field: What Actually Changed

OPERATIONAL CLEARANCE	COMMANDER APPROVAL	FRONTLINE CONSULTATIONS	QUALITY TOOLS DEVELOPED
100% All specialist medical personnel (100%) deployed to the operational front line completed operational briefing and received operational clearance for their mission within the designated sector.	100% All commanders of maneuvering units (100%) approved - and, in several cases, actively requested - the deployment of specialist medical personnel to their unit's area of operation.	89% 89% of soldiers attended the specialist consultations delivered at the front-line (point-of-injury) level.	3 Three instruments for assessing satisfaction and verifying quality of care were developed between May and July 2026, with implementation scheduled for October 2026.

Abstract disclaimer: The authors declare that they have no conflicts of interest or disclosures relevant to the content of this abstract. All research procedures were conducted in accordance with established ethical guidelines and with the approval of the appropriate institutional review board. The findings presented are based on the data available at the time of submission and may be subject to further analysis or refinement.

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At the moment of truth,
IDF MEDICAL CORPS.

