



# JTACS NOVEMBER TABLE OF CONTENTS

## 'BEST OF' NOVEMBER ARTICLES

BEST OF TRAUMA ARTICLE

### A More Targeted Embolization Strategy in Blunt Splenic Trauma Reduces Procedural Volume Without Increasing Splenectomy Rates

Update to Blunt Splenic Injury algorithm in 2019    Mandatory SAE for high-risk vascular features only (pseudoaneurysm >10 mm, moderate to large hemoperitoneum, parenchymal injury >3 cm)	PRE Group = 369 patients POST Group = 471 patients  Rate of SAE 29% vs 17% (p<0.001)  Rate of Any Splenectomy 30% vs 34% (p=0.14)  Rate of Delayed Splenectomy 1.9% vs 3.6% (p=0.014)	A more selective approach to SAE for BSI  ↓ Embolization procedures  Change in splenectomy rates  
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Marsh AM et al. *Journal of Trauma and Acute Care Surgery*. DOI: 10.1097/JTA.0000000000004710  
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**A MORE TARGETED EMBOLIZATION STRATEGY IN BLUNT SPLENIC TRAUMA REDUCES PROCEDURAL VOLUME WITHOUT INCREASING SPLECTOMY RATES**  
[HTTPS://JOURNALS.LWW.COM/JTRAUMA/FULLTEXT/2025/11000/A\\_MORE\\_TARGETED\\_EMBOLIZATION\\_STRATEGY\\_IN\\_BLUNT.16.ASPX](https://journals.lww.com/jtrauma/fulltext/2025/11000/a_more_targeted_embolization_strategy_in_blunt.16.aspx)



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[HTTPS://WWW.DROPBOX.COM/SCL/FI/TPWY7A56DDOEVBM66WYOZ/NOVEMBER-TRAUMA-2025.MP4?RLKEY=IVCANRKIU202J3624ALZ5NY27&ST=D2G93CXC&DL=0](https://www.dropbox.com/SCL/FI/TPWY7A56DDOEVBM66WYOZ/NOVEMBER-TRAUMA-2025.MP4?RLKEY=IVCANRKIU202J3624ALZ5NY27&ST=D2G93CXC&DL=0)

BEST OF SCC

### Early VTE Prophylaxis in BIG 1 and BIG 2 Traumatic Brain Injury Patients: A Five-Year Analysis

<b>Study Population</b> Level 1 Trauma Center (2017-2021)    Adult trauma patients n = 634 Early VTE n = 393 Late VTE n = 241	<b>Results</b> Independent effect of early VTE    ↓ ↔ ↔	<b>Conclusions</b>  Early VTE in BIG 1 or BIG 2: <ul style="list-style-type: none"> <li>• Safe to use in TBI</li> <li>• Associated with reduced DVT risk</li> <li>• No increasing risk of ICH or Mortality</li> </ul>
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Avila SV et al. *Journal of Trauma and Acute Care Surgery*. DOI: 10.1097/JTA.0000000000004647  
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**EARLY VENOUS THROMBOEMBOLISM PROPHYLAXIS IN BRAIN INJURY GUIDELINES 1 AND BRAIN INJURY GUIDELINES 2 TRAUMATIC BRAIN INJURY PATIENTS: A 5-YEAR ANALYSIS**  
[HTTPS://JOURNALS.LWW.COM/JTRAUMA/FULLTEXT/2025/11000/EARLY\\_VEINUS\\_THROMBOEMBOLISM\\_PROPHYLAXIS\\_IN\\_BRAIN.7.ASPX](https://journals.lww.com/jtrauma/fulltext/2025/11000/early_venous_thromboembolism_prophylaxis_in_brain.7.aspx)




BEST OF EGS ARTICLE

The Journal of Trauma and Acute Care Surgery  
 READ THE ARTICLE  
**EVIDENCE-BASED, COST-EFFECTIVE MANAGEMENT OF SMALL BOWEL OBSTRUCTION. AN ALGORITHM OF THE JOURNAL OF TRAUMA AND ACUTE CARE SURGERY EMERGENCY GENERAL SURGERY ALGORITHMS WORK GROUP**

**EVIDENCE-BASED, COST-EFFECTIVE MANAGEMENT OF SMALL BOWEL OBSTRUCTION: AN ALGORITHM OF THE JOURNAL OF TRAUMA AND ACUTE CARE SURGERY EMERGENCY GENERAL SURGERY ALGORITHMS WORK GROUP**  
[HTTPS://JOURNALS.LWW.COM/JTRAUMA/FULLTEXT/2025/11000/EVIDENCE\\_BASED\\_COST\\_EFFECTIVE\\_MANAGEMENT\\_OF\\_SMALL.3.ASPX](https://journals.lww.com/jtrauma/fulltext/2025/11000/evidence_based_cost_effective_management_of_small.3.aspx)

BEST OF BASIC SCIENCE ARTICLE

### Evaluation of Emergency Pulmonary Hilar Control for Lethal Vascular Injury in Swine

Is There a Superior Technique for Hilar Control in Trauma?  	N=20    VS  	<b>Pulmonary Hilar Clamp</b> <ul style="list-style-type: none"> <li>✓ Increased Survival</li> <li>✓ Reduced Vasopressor Support</li> <li>✓ Quicker Maneuver</li> <li>✓ Reduced Inflammatory Insult on Lung Parenchyma Histology</li> <li>✗ Increased Additional Interventions Required for Hemostasis</li> </ul>
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Livesey JB et al. *Journal of Trauma and Acute Care Surgery*. DOI: 10.1097/JTA.0000000000004739  
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**EVALUATION OF EMERGENCY PULMONARY HILAR CONTROL FOR LETHAL VASCULAR INJURY IN SWINE**  
[HTTPS://JOURNALS.LWW.COM/JTRAUMA/FULLTEXT/2025/11000/EVALUATION\\_OF\\_EMERGENCY\\_PULMONARY\\_HILAR\\_CONTROL.12.ASPX](https://journals.lww.com/jtrauma/fulltext/2025/11000/evaluation_of_emergency_pulmonary_hilar_control.12.aspx)

# WHAT YOU NEED TO KNOW SOURCE CONTROL IN INTRA-ABDOMINAL INFECTIONS

## SOURCE CONTROL IN INTRA-ABDOMINAL INFECTIONS: WHAT YOU NEED TO KNOW

[HTTPS://JOURNALS.LWW.COM/JTRAUMA/FULLTEXT/2025/1000/SOURCE\\_CONTROL\\_IN\\_INTRA-ABDOMINAL\\_INFECTIONS\\_WHAT\\_I.ASPX](https://journals.lww.com/jtrauma/fulltext/2025/1000/source_control_in_intra_abdominal_infections_what_i.aspx)

# READ THE ARTICLE IT'S ALL ABOUT THE JOURNEY: FINDING CONNECTIONS AND BELONGING IN TRAUMA AND ACUTE CARE SURGERY

## IT IS ALL ABOUT THE JOURNEY: FINDING CONNECTIONS AND BELONGING IN TRAUMA AND ACUTE CARE SURGERY

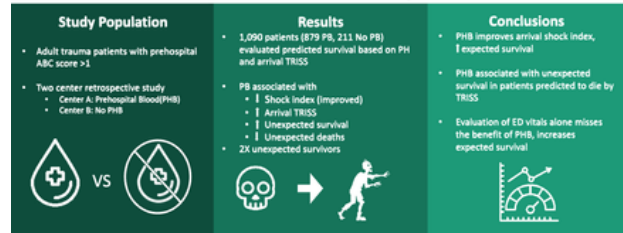
[HTTPS://JOURNALS.LWW.COM/JTRAUMA/CITATION/2025/1000/IT\\_IS\\_ALL\\_ABOUT\\_THE\\_JOURNEY\\_FINDING\\_CONNECTIONS.4.ASPX](https://journals.lww.com/jtrauma/citation/2025/1000/it_is_all_about_the_journey_finding_connections.4.aspx)

# WHAT YOU NEED TO KNOW PRIORITIZING CIRCULATION OVER AIRWAY IN TRAUMA PATIENTS WITH EXSANGUINATING INJURIES

## PRIORITIZING CIRCULATION OVER AIRWAY IN TRAUMA PATIENTS WITH EXSANGUINATING INJURIES: WHAT YOU NEED TO KNOW

[HTTPS://JOURNALS.LWW.COM/JTRAUMA/FULLTEXT/2025/1000/PRIORITIZING\\_CIRCULATION\\_OVER\\_AIRWAY\\_IN\\_TRAUMA.2.ASPX](https://journals.lww.com/jtrauma/fulltext/2025/1000/prioritizing_circulation_over_airway_in_trauma.2.aspx)

## The Effect of Prehospital Blood Products on Unexpected Survival: A Multi-institution Study



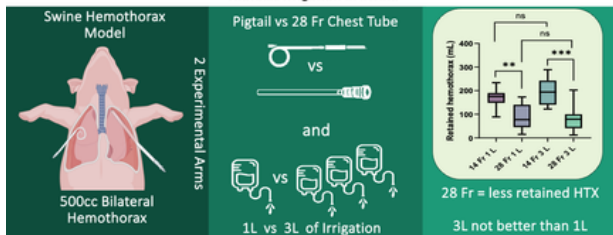
Clements TW et al. *Journal of Trauma and Acute Care Surgery*.  
DOI: 10.1097/TA.0000000000004641  
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## THE EFFECT OF PREHOSPITAL BLOOD PRODUCTS ON UNEXPECTED SURVIVAL: A MULTI-INSTITUTION STUDY

[HTTPS://JOURNALS.LWW.COM/JTRAUMA/ABSTRACT/2025/1000/THE\\_EFFECT\\_OF\\_PREHOSPITAL\\_BLOOD\\_PRODUCTS\\_ON.5.ASPX](https://journals.lww.com/jtrauma/abstract/2025/1000/the_effect_of_prehospital_blood_products_on.5.aspx)

## The Effect of Both Tube Diameter and Irrigation Volume on Retained Hemothorax After Thoracic Irrigation in Swine



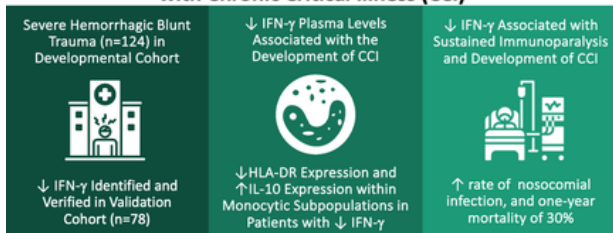
Seadler M et al. *Journal of Trauma and Acute Care Surgery*.  
DOI: 10.1097/TA.0000000000004733  
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## THE EFFECT OF BOTH TUBE DIAMETER AND IRRIGATION VOLUME ON RETAINED HEMOTHORAX AFTER THORACIC IRRIGATION IN SWINE

[HTTPS://JOURNALS.LWW.COM/JTRAUMA/FULLTEXT/2025/1000/CHEST\\_WALL\\_INJURY\\_SOCIETY\\_GUIDELINES\\_FOR\\_SURGICAL.5.ASPX](https://journals.lww.com/jtrauma/fulltext/2025/1000/chest_wall_injury_society_guidelines_for_surgical.5.aspx)

## Attenuated Interferon- $\gamma$ (IFN- $\gamma$ ) Following Injury is Associated with Chronic Critical Illness (CCI)



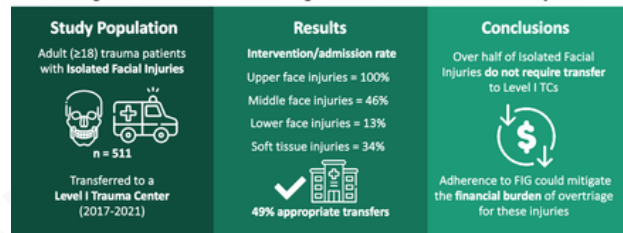
Cuschieri J et al. *Journal of Trauma and Acute Care Surgery*.  
DOI: 10.1097/TA.0000000000004671  
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## ATTENUATED INTERFERON- $\gamma$ FOLLOWING INJURY IS ASSOCIATED WITH CHRONIC CRITICAL ILLNESS

[HTTPS://JOURNALS.LWW.COM/JTRAUMA/ABSTRACT/2025/1000/RISK\\_FACTORS\\_FOR\\_DEEP\\_VENOUS\\_THROMBOSIS\\_IN.6.ASPX](https://journals.lww.com/jtrauma/abstract/2025/1000/risk_factors_for_deep_venous_thrombosis_in.6.aspx)

## Look Me In The Face And Tell Me I Needed To Be Transferred: Defining The Criteria For Transferring Patients With Isolated Facial Injuries



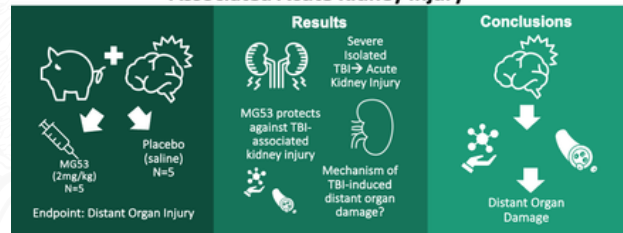
Diaz FC et al. *Journal of Trauma and Acute Care Surgery*.  
DOI: 10.1097/TA.0000000000004651  
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## LOOK ME IN THE FACE AND TELL ME THAT I NEEDED TO BE TRANSFERRED: DEFINING THE CRITERIA FOR TRANSFERRING PATIENTS WITH ISOLATED FACIAL INJURIES

[HTTPS://JOURNALS.LWW.COM/JTRAUMA/ABSTRACT/2025/1000/LOOK\\_ME\\_IN\\_THE\\_FACE\\_AND\\_TELL\\_ME\\_THAT\\_I\\_NEEDED\\_TO.8.ASPX](https://journals.lww.com/jtrauma/abstract/2025/1000/look_me_in_the_face_and_tell_me_that_i_needed_to.8.aspx)

## Treatment With MG53 Ameliorates Traumatic Brain Injury- Associated Acute Kidney Injury



Liggett MR et al. *Journal of Trauma and Acute Care Surgery*.  
DOI: 10.1097/TA.0000000000004660  
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## TREATMENT WITH MG53 AMELIORATES TRAUMATIC BRAIN INJURY-ASSOCIATED ACUTE KIDNEY INJURY

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## Utilization of Computed Tomography for Pediatric Cervical Spine Clearance Across a 23-Hospital System

METHODS	RESULTS	CONCLUSION
Retrospective review all blunt trauma patients <18 yrs 2012-2023	14,232 patients with CT	CT has high sensitivity for detecting clinically significant CSI
Clinically significant CSI: Surgery or halo	10,900 screened with XR	
Primary Outcome: Sensitivity and NPV of CT in identifying clinically significant cervical spine injury	Sensitivity of CT: 96% NPV of CT: 100% Post-hoc review sensitivity increased to 100%	

Russell KW et al. *Journal of Trauma and Acute Care Surgery*. DOI: 10.1097/TA.0000000000004667

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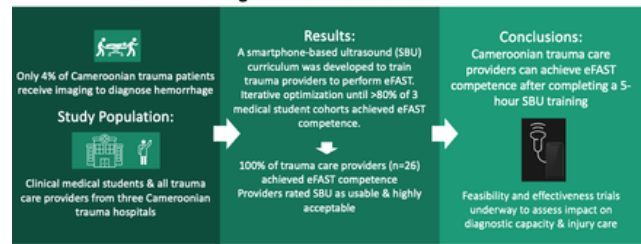
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### AN ANALYSIS OF POTENTIAL CERVICAL SPINE CLEARANCE IN CHILDREN WITH COMPUTED TOMOGRAPHY ALONE

[HTTPS://JOURNALS.LWW.COM/JTRAUMA/ABSTRACT/2025/11000/AN\\_ANALYSIS\\_OF\\_POTENTIAL\\_CERVICAL\\_SPINE\\_CLEARANCE.11.ASPX](https://journals.lww.com/jtrauma/abstract/2025/11000/an_analysis_of_potential_cervical_spine_clearance.11.aspx)

## Efficacy of a Novel Smartphone Based Ultrasonography Curriculum in Rapidly Training LMIC Trauma Care Providers



Ariane MD et al. *Journal of Trauma and Acute Care Surgery*. DOI: 10.1097/TA.0000000000004619

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### EFFICACY OF A NOVEL SMARTPHONE-BASED ULTRASONOGRAPHY CURRICULUM IN RAPIDLY TRAINING LOW- AND MIDDLE-INCOME COUNTRY TRAUMA CARE PROVIDERS

[HTTPS://JOURNALS.LWW.COM/JTRAUMA/FULLTEXT/2025/11000/EFFICACY\\_OF\\_A\\_NOVEL\\_SMARTPHONE\\_BASED.13.ASPX](https://journals.lww.com/jtrauma/fulltext/2025/11000/efficacy_of_a_novel_smartphone_based.13.aspx)

## Examining Air Medical Transport in Interfacility Emergency General Surgery Transfers to a Quaternary Center

Patients in quaternary center EGS registry	Air medical transport is faster at...	Most important factors impacting air transport...
	5.7 miles overall cohort	Transfer request during peak traffic hours
	7.2 miles adverse weather	Patient SOFA score
	9.1 miles peak traffic	Demonstrates a need to implement triage tools to optimize transfer systems
Geospatial analysis of air vs. ground transfer times		

Silver D et al. *Journal of Trauma and Acute Care Surgery*. DOI: 10.1097/TA.0000000000004672

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### EXAMINING AIR MEDICAL TRANSPORT IN INTERFACILITY EMERGENCY GENERAL SURGERY TRANSFERS TO A QUATERNARY CENTER

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## Sex-Related Differences in Cognition After Severe Murine TBI: A Morris Water Maze Study Evaluating Learning and Memory



Carlin PS et al. *Journal of Trauma and Acute Care Surgery*. DOI: 10.1097/TA.0000000000004668

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### SEX-RELATED DIFFERENCES IN COGNITION AFTER SEVERE MURINE TRAUMATIC BRAIN INJURY: A MORRIS WATER MAZE STUDY EVALUATING LEARNING AND MEMORY

[HTTPS://JOURNALS.LWW.COM/JTRAUMA/ABSTRACT/2025/11000/SEX\\_RELATE\\_D\\_DIFFERENCES\\_IN\\_COGNITION\\_AFTER\\_SEVERE.15.ASPX](https://journals.lww.com/jtrauma/abstract/2025/11000/sex_related_differences_in_cognition_after_severe.15.aspx)

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**THE USE OF TRANEXAMIC ACID IN THE MANAGEMENT OF INJURED PATIENTS AT RISK OF HEMORRHAGE: A SYSTEMATIC REVIEW & META-ANALYSIS AND AN EASTERN ASSOCIATION FOR THE SURGERY OF TRAUMA (EAST) PRACTICE MANA...**

### THE USE OF TRANEXAMIC ACID IN THE MANAGEMENT OF INJURED PATIENTS AT RISK OF HEMORRHAGE: A SYSTEMATIC REVIEW AND META-ANALYSIS AND AN EASTERN ASSOCIATION FOR THE SURGERY OF TRAUMA PRACTICE MANAGEMENT GUIDELINE

[HTTPS://JOURNALS.LWW.COM/JTRAUMA/ABSTRACT/2025/11000/THE\\_USE\\_OF\\_TRANEXAMIC\\_ACID\\_IN\\_THE\\_MANAGEMENT\\_OF.17.ASPX](https://journals.lww.com/jtrauma/abstract/2025/11000/the_use_of_tranexamic_acid_in_the_management_of.17.aspx)

## Surgical Management of Incarcerated and Strangulated Inguinal Hernias Requiring Urgent Surgical Intervention: A Systematic Review, meta-Analysis, and Practice Management Guideline from the Eastern Association for the Surgery of Trauma



Farrell M et al. *Journal of Trauma and Acute Care Surgery*. DOI: 10.1097/TA.0000000000004740

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### SURGICAL MANAGEMENT OF INCARCERATED AND STRANGULATED INGUINAL HERNIAS REQUIRING URGENT SURGICAL INTERVENTION: A SYSTEMATIC REVIEW, META-ANALYSIS, AND PRACTICE MANAGEMENT GUIDELINE FROM THE EASTERN ASSOCIATION FOR THE SURGERY OF TRAUMA

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## Hypocaloric Feeding in Critically Ill Trauma Patients: A scoping review of the literature



Preston J et al. *Journal of Trauma and Acute Care Surgery*. DOI: 10.1097/TA.0000000000004704

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### HYPOCALORIC FEEDING IN CRITICALLY ILL TRAUMA PATIENTS: A SCOPING REVIEW OF THE LITERATURE

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**TQIP MORTALITY REPORTING SYSTEM CASE REPORTS: UNANTICIPATED MORTALITY DUE TO IMAGING-RELATED DELAYS IN CARE**

### TRAUMA QUALITY IMPROVEMENT PROGRAM MORTALITY REPORTING SYSTEM CASE REPORTS: UNANTICIPATED MORTALITY BECAUSE OF IMAGING-RELATED DELAYS IN CARE

[HTTPS://JOURNALS.LWW.COM/JTRAUMA/ABSTRACT/2025/11000/TRAUMA\\_QUALITY\\_IMPROVEMENT\\_PROGRAM\\_MORTALITY.20.ASPX](https://journals.lww.com/jtrauma/abstract/2025/11000/trauma_quality_improvement_program_mortality_reporting_system_case_reports.20.aspx)

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## **RE:ELEVATED CELL-FREE HEMOGLOBIN: A NOVEL EARLY BIOMARKER FOLLOWING TRAUMATIC INJURY**

**RE: ELEVATED CELL-FREE HEMOGLOBIN: A NOVEL  
EARLY BIOMARKER FOLLOWING TRAUMATIC INJURY**  
[HTTPS://JOURNALS.LWW.COM/JTRAUMA/CITATION/2025/11000/RE\\_\\_ELEVATED\\_CELL\\_FREE\\_HEMOGLOBIN\\_\\_A\\_NOVEL\\_EARLY.21.ASPX](https://journals.lww.com/jtrauma/citation/2025/11000/re__elevated_cell_free_hemoglobin__a_novel_early.21.aspx)

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## **AUTHOR RESPONSE TO LETTER TO THE EDITOR. RE: ELEVATED CELL-FREE HEMOGLOBIN: A NOVEL EARLY BIOMARKER FOLLOWING TRAUMATIC INJURY**

**AUTHOR RESPONSE TO LETTER TO THE EDITOR: "RE:  
ELEVATED CELL-FREE HEMOGLOBIN: A NOVEL EARLY  
BIOMARKER FOLLOWING TRAUMATIC INJURY"**  
[HTTPS://JOURNALS.LWW.COM/JTRAUMA/CITATION/2025/11000/AUTHOR\\_RE  
SPONSE\\_TO\\_LETTER\\_TO\\_THE\\_EDITOR\\_\\_RE\\_\\_22.ASPX](https://journals.lww.com/jtrauma/citation/2025/11000/author_re_sponse_to_letter_to_the_editor__re__22.aspx)

READ THE LETTER TO THE EDITOR

## **TRAUMA CARE AND ITS FINANCING AROUND THE WORLD**

**LETTER TO THE EDITOR: TRAUMA CARE AND ITS  
FINANCING AROUND THE WORLD**  
[HTTPS://JOURNALS.LWW.COM/JTRAUMA/CITATION/2025/11000/LETTER\\_T  
O\\_THE\\_EDITOR\\_\\_TRAUMA\\_CARE\\_AND\\_ITS.23.ASPX](https://journals.lww.com/jtrauma/citation/2025/11000/letter_t_o_the_editor__trauma_care_and_its.23.aspx)

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## **TRAUMA CARE AND ITS FINANCING AROUND THE WORLD: RESPONSE TO LETTER TO THE EDITOR**

**TRAUMA CARE AND ITS FINANCING AROUND THE  
WORLD: RESPONSE TO LETTER TO THE EDITOR**  
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ARE\\_AND\\_ITS\\_FINANCING\\_AROUND\\_THE\\_WORLD\\_\\_24.ASPX](https://journals.lww.com/jtrauma/citation/2025/11000/trauma_care_and_its_financing_around_the_world__24.aspx)

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## **SURVIVAL ADVANTAGES OF DAMAGE CONTROL ORTHOPEDICS IN MILITARY AND COUNTER-TERRORISM SETTINGS**

**SURVIVAL ADVANTAGES OF DAMAGE-CONTROL  
ORTHOPEDICS IN MILITARY AND COUNTER-TERRORISM  
SETTINGS**  
[HTTPS://JOURNALS.LWW.COM/JTRAUMA/CITATION/2025/11000/SURVIVAL\\_  
ADVANTAGES\\_OF\\_DAMAGE\\_CONTROL\\_ORTHOPEDICS.25.ASPX](https://journals.lww.com/jtrauma/citation/2025/11000/survival_advantages_of_damage_control_orthopedics.25.aspx)

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## **IN REPLY: SURVIVAL ADVANTAGES OF DAMAGE CONTROL ORTHOPEDICS IN MILITARY AND COUNTER- TERRORISM SETTINGS**

**IN REPLY: SURVIVAL ADVANTAGES OF DAMAGE-  
CONTROL ORTHOPEDICS IN MILITARY AND COUNTER-  
TERRORISM SETTINGS**  
[HTTPS://JOURNALS.LWW.COM/JTRAUMA/CITATION/2025/11000/IN\\_REPLY\\_  
\\_SURVIVAL\\_ADVANTAGES\\_OF\\_DAMAGE\\_CONTROL.26.ASPX](https://journals.lww.com/jtrauma/citation/2025/11000/in_reply__survival_advantages_of_damage_control.26.aspx)