

www.ShockSociety.org | (301) 634-7080

Shock@ShockSociety.org

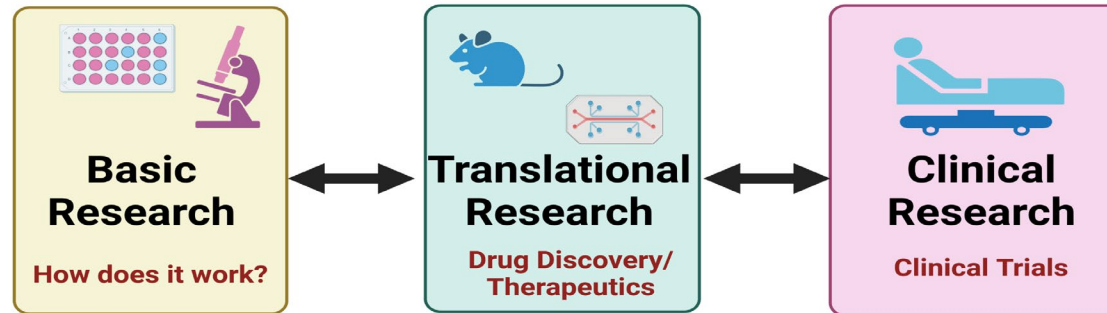
 @ShockSociety

MISSION of the Shock Society - to improve the care of victims of trauma, shock, and sepsis, by:

- Promoting clinically relevant research into the basic biology of trauma, shock, and sepsis
- Providing a multidisciplinary forum to integrate and disseminate new knowledge in trauma, shock, and sepsis
- Supporting the education and mentoring of the next generation of investigators in the field of trauma, shock, and sepsis

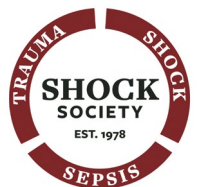


What is unique about the Shock Society?



Shock Society members focus on clinically relevant problems in the field of critical care and seek multidisciplinary approaches to studying them

Small size meeting allowing trainees access to more senior members and leadership



MEMBERSHIP - Who are we?

Full membership and multiple categories of **trainee membership categories**

Membership as of November 2022

| | |
|----------------------|------------|
| Emeritus Members | 51 |
| Trainee members | 89 |
| Full Members | 347 |
| TOTAL MEMBERS | 487 |

Composed of MDs, PhDs, MD/PhDs
and DVMs from 17 countries

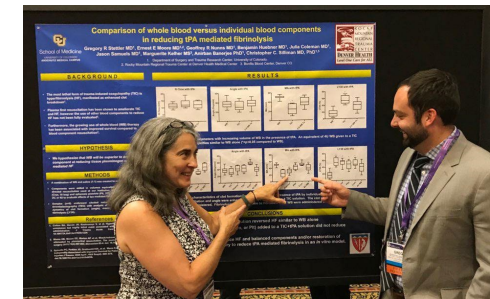
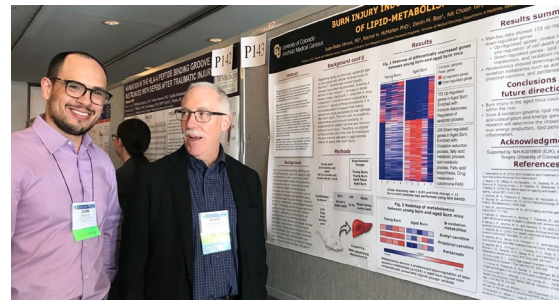
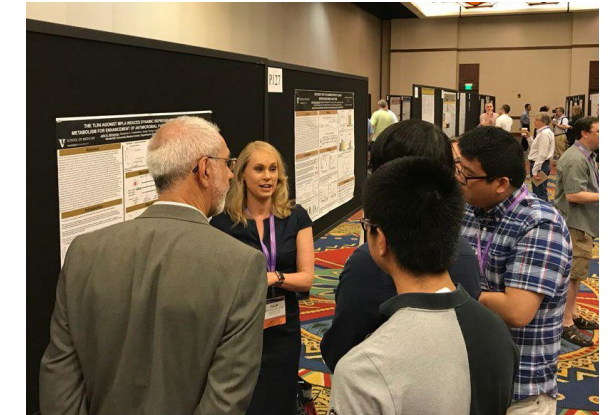
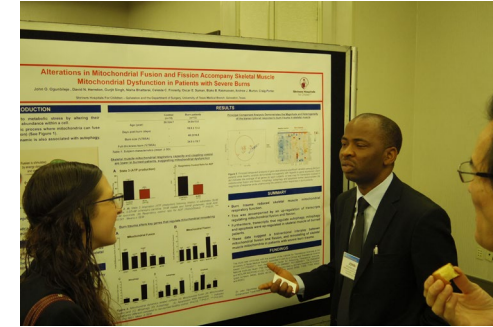


MEETINGS - annually in June

2016 to 2019 ~450 registrants, ~300 abstracts
2020 Cancelled due to COVID
2021 (virtual) ~300 registrants, ~200 abstracts
2022 ~300 registrants, ~200 abstracts

Trainee focused activities

Professor Rounds at poster sessions
New investigator competition
Session on diversity with NIGMS program officers
Mentoring dinner (>90 attendees in 2022)



AWARDS

>\$150K in awards annually

- >40 travel awards in 2022 including Diversity Enhancement Awards
- Research Investigator Fellowship
- Faculty Research Award
- New Investigator Awards



- Scientific Achievement Award
- Distinguished Service Award
- Mentoring Award

*Shock leadership and
2022 award recipients*



JOURNAL

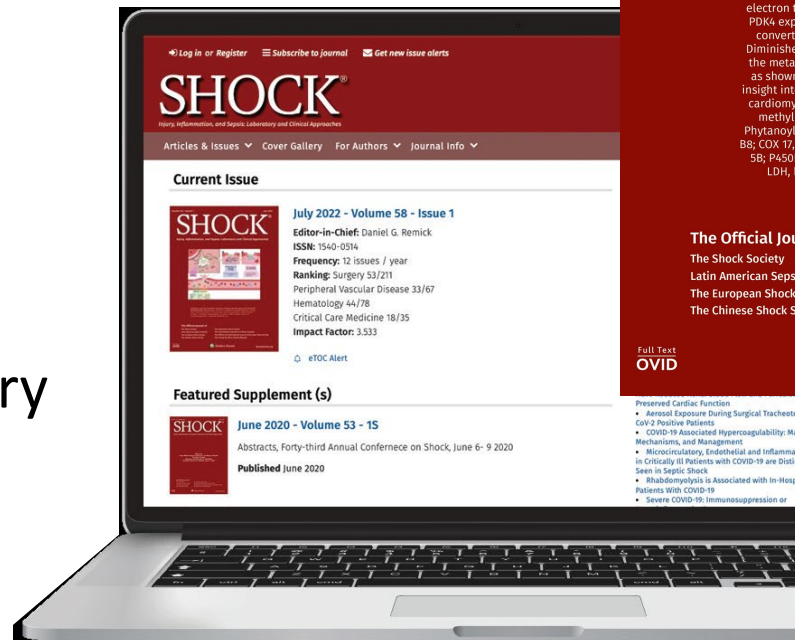
SHOCK®: Injury, Inflammation, and Sepsis: Laboratory and Clinical Approaches

Editor-in-Chief

Daniel G Remick, MD

Professor of Pathology & Laboratory Medicine, Boston University

Visit: ShockJournal.org



Impact IF (2021-2022) = 3.454

SHOCK®
Injury, Inflammation, and Sepsis: Laboratory and Clinical Approaches

Pyruvate metabolism
PDK4
Fatty acid metabolism
MCE, CBR2, PH1Y
Electron transport chain
NDUFB8, COX17, COXS8, P450R

Lactic acidosis?
LDH

Sepsis

Proteomics

Cardiomyopathy

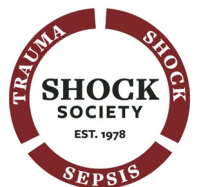
Molecular remodeling of cardiac mitochondrial in murine sepsis. Proteomic analysis of mitochondria from hearts with sepsis-induced cardiomyopathy revealed several mitochondria-specific proteins with altered expression including PDK4 and the electron transport chain proteins NDUFB8, COX17, COXS8, and P450R. Increase in PDK4 expression leads to phosphorylation and inactivation of PDH, the enzyme converting pyruvate, NAD⁺, and coenzyme A into acetyl-CoA, CO₂, and NADH. Diminished PDH activity limits the overall capacity of the mitochondria to utilize the metabolic substrate pyruvate resulting in a lower oxygen consumption rate as shown by the schematic above. These molecular modifications may provide insight into how the mitochondria are linked to the development of sepsis-induced cardiomyopathy. Abbreviations: PDK4, pyruvate dehydrogenase kinase 4; MCE, methylmalonyl-CoA epimerase; CBR2, carbonyl reductase [NADPH] 2; PH1Y, Phytanoyl-CoA 2-Hydroxylase; NDUFB8, NADH ubiquinone oxidoreductase subunit B8; COX 17, cytochrome c oxidase copper chaperone; COXS8, cytochrome c oxidase 5B; P450R, NADPH-cytochrome P450 reductase; OCR, oxygen consumption rate; LDH, lactate dehydrogenase; NADH, nicotinamide adenine dinucleotide (reduced form).

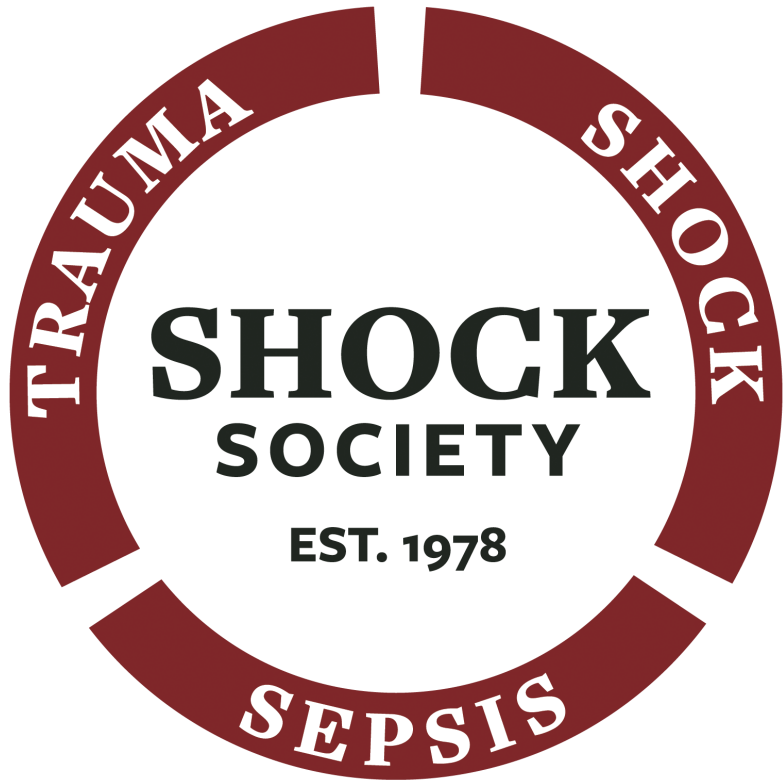
The Official Journal of
The Shock Society
Latin American Sepsis II
The European Shock Society
The Chinese Shock Society

Full Text
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Preserved Cardiac Function
• Anestol Exposure During Surgical Tracheotomy in COVID-19 Positive Patients
• COVID-19 Associated Hypercoagulability: Manifestations, Mechanisms, and Management
• Microcirculatory, Endothelial and Inflammatory in Critically Ill Patients with COVID-19 are Distinct from Sepsis
• Rhabdomyolysis is Associated with In-Hospital Patients With COVID-19
• Severe COVID-19 Immunosuppression or

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Thank
You!

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