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Medicine
Nephrology
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Research interests

Acute Kidney Injury
Long-term outcomes of combat trauma

Qualifications

Fellowship, Nephrology, University of Texas Health Science
2009 → 2011

Residency, Internal Medicine, San Antonio Uniformed Services Health Education Consortium
2006 → 2009

MD, Keck School of Medicine of USC
2002 → 2006

Microbiology, Bachelor, University of California San Diego
1997 → 2001

Employment

Medicine
Uniformed Services University of the Health Sciences
7 Jul 2020 → present

Nephrology
Uniformed Services University of the Health Sciences
7 Jan 2011 → present

Secretary, Air Force Chapter
American College of Physicians
Philadelphia, United States
1 Jan 2021 → present

Air Force Medical Service (AFMS) End User Representative
Joint Program Committee 6
United States
1 Jan 2017 → present

Ex Officio Member, Advisory Council
National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)
Bethesda, MD, United States
1 Jan 2016 → present

Research outputs

Efficacy of cilastatin sodium in a translational large animal crush syndrome model
Munhall, A. C., Eiwaz, M. B., Hebert, J. F., Groat, T., Andeen, N. K., Muruve, D., Stewart, I. J., Loss, L., Buzzard, L., Liu, M., Pierre, L., Tinoco-Garcia, L., Durbin, S., Beiling, M., Minoza, K., Garay, J. P., Schreiber, M. A. & Hutchens, M. P., Dec 2026, In: Communications Medicine. 6, 1, 246.

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Suicide Rate Trends for Post-September 11, 2001, US Military Veterans
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A study protocol for determining the role of Sympathetic activity in Post-injury outcomes: Impact on sleep and caRdiovascular health InvesTigation (SPIRIT)
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Mitigation of Acute Kidney Injury by Canagliflozin is associated with Increased Apoptosis and Mitochondrial Fission in a Porcine Model of Hemorrhagic Shock
Killingsworth, Z., Mares, J. A., Hutzler, J. D., Rowe, C., Stewart, I., Walker, P. & Burmeister, D., 7 Mar 2025.

Cancer Mortality Rates in Female Veterans With and Without TBI
Destefano, C. B., Cheever, K., Howard, J. T., Amuan, M., Stewart, I. J. & Pugh, M. J., 3 Mar 2025, In: JAMA Network Open. 8, 3, p. e250194

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A Multicenter Evaluation of the Seraph 100 Microbind Affinity Blood Filter for the Treatment of Severe COVID-19
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Resuscitative endovascular balloon occlusion of the aorta: Review of the literature and applications to veterinary emergency and critical care
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US military service and racial/ethnic differences in cardiovascular disease: An analysis of the 2011-2016 behavioral risk factor surveillance system
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Response to 'Presenting hypertension, burn injury, and mortality in combat casualties: Methodological issues'
Janak, J. C., Davidson, A. J., Sosnovc, J. A., Stewart, I. J. & Howard, J. T., Aug 2018, In: Burns. 44, 5, p. 1373-1375 3 p.

Acute kidney injury
Stewart, I. J. & DuBose, J. J., 3 May 2018, *Surgical Critical Care Therapy: A Clinically Oriented Practical Approach.* Springer International Publishing, p. 281-287 7 p.

Associations of initial injury severity and posttraumatic stress disorder diagnoses with long-term hypertension risk after combat injury
Howard, J. T., Sosnov, J. A., Janak, J. C., Gundlapalli, A. V., Pettey, W. B., Walker, L. E. & Stewart, I. J., 1 May 2018, In: Hypertension. 71, 5, p. 824-832 9 p.

Coagulopathy and Mortality in Combat Casualties: Do the Kidneys Play a Role?
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Presenting hypertension, burn injury, and mortality in combat casualties
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Acute kidney injury following resuscitative endovascular balloon occlusion of the aorta: A systematic review
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Chung, K. K., Stewart, I. J., Howard, J. T., Burmeister, D. M., Rizzo, J. A., Salinas, J., Dubick, M. A. & Cancio, L. C., 1 Dec 2017, In: Annals of surgery. 266, 6, p. e107

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Linden, K., Stewart, I. J., Kreyer, S. F. X., Scaravilli, V., Cannon, J. W., Cancio, L. C., Batchinsky, A. I. & Chung, K. K., Sep 2014, In: Burns. 40, 6, p. 1071-1078 8 p.

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Neff, L. P., Cannon, J. W., Stewart, I. J., Batchinsky, A. I., Zonies, D. H., Pamplin, J. C. & Chung, K. K., Aug 2013, In: Journal of Trauma and Acute Care Surgery. 75, 2 SUPPL. 2, p. S120-S128

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Association of rhabdomyolysis with renal outcomes and mortality in burn patients
Stewart, I. J., Cotant, C. L., Tilley, M. A., Huzar, T. F., Aden, J. K., Snow, B. D., Gisler, C., Kramer, K. W., Sherratt, J. R., Murray, C. K., Blackbourne, L. H., Renz, E. M. & Chung, K. K., May 2013, In: Journal of Burn Care and Research. 34, 3, p. 318-325 8 p.

Dysnatremias and survival in adult burn patients: A retrospective analysis
Stewart, I. J., Morrow, B. D., Tilley, M. A., Snow, B. D., Gisler, C., Kramer, K. W., Aden, J. K., Renz, E. M. & Chung, K. K., 2013, In: American Journal of Nephrology. 37, 1, p. 59-64 6 p.

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Chung, K. K., Stewart, I. J., Gisler, C., Simmons, J. W., Aden, J. K., Tilley, M. A., Cotant, C. L., White, C. E., Wolf, S. E. & Renz, E. M., Jul 2012, In: Journal of Burn Care and Research. 33, 4, p. 483-490 8 p.

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Is there any role for sodium modeling in the prevention of intradialytic hypotension in patients with large interdialytic fluid gains?
Stewart, I. J. & Henrich, W. L., Jul 2011, In: Seminars in Dialysis. 24, 4, p. 422-423 2 p.

Chronic kidney disease management in an academic internal medicine clinic
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Successful treatment of severe pneumocystis pneumonia with clindamycin-primaquine in an HIV-negative patient
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Stewart, I. J., Gallagher, J. P. & Dahms, W. J., Dec 2008, In: Gastroenterology and Hepatology. 4, 12, p. 877-878 2 p.

Activities

Selective Leukapheresis for Immunomodulation in Sepsis
Stewart, I. (Speaker)
16 Apr 2025

Potassium Removal in-vivo: How Would I do it on the Battlefield?
Stewart, I. (Speaker)
3 Apr 2025

Minimum Essential Data Set for a Database
Stewart, I. (Speaker)
31 Mar 2025

Tales of Combat Nephrology: Implications for Future Large Scale Combat Operations
Stewart, I. (Speaker)
23 Oct 2024

The Career of a US Air Force Academic Physician
Stewart, I. (Speaker)
29 May 2024

Sepsis: the Military Perspective
Stewart, I. (Speaker)
13 Sep 2023

Association Between Traumatic Brain Injury and Subsequent Cardiovascular Disease Among Post-9/11-Era Veterans
Stewart, I. (Speaker)
2 May 2023

Kidney Replacement Therapy in the Austere Setting
Stewart, I. (Speaker)
13 Jan 2023

Evaluation of the Seraph 100 Microbind Affinity Blood Filter for the Treatment of Severe COVID-19
Stewart, I. (Speaker)
12 Sep 2022

The consequences of combat trauma–the US experience
Stewart, I. (Speaker)
1 Sep 2022

Long-term mental and physical health after combat trauma
Stewart, I. (Speaker)
23 Jun 2021

Long-term Health Outcomes after Trauma
Stewart, I. (Speaker)
11 Apr 2019

AKI After Trauma and Burns: Combat Nephrology
Stewart, I. (Speaker)
19 Sep 2018

Long-term Outcomes After Combat Trauma
Stewart, I. (Speaker)
18 Sep 2018

The Emerging Concept of Bridge Dialysis
Stewart, I. (Speaker)
6 Sep 2018

Renal Replacement Therapy in AKI
Stewart, I. (Speaker)
20 Mar 2018

AKI after Burns and Trauma: Combat Nephrology
Stewart, I. (Speaker)
27 Apr 2017

AKI in the Setting of Combat Trauma
Stewart, I. (Speaker)
9 Mar 2017

AKI in Rhabdomyolysis
Stewart, I. (Speaker)
18 Oct 2016

University of California Davis, Division of Nephrology, Journal Club
Stewart, I. (Speaker)
16 Feb 2016

Long-term Outcomes After Combat Injury
Stewart, I. (Speaker)
30 Sep 2015

Prizes

Deans Impact Award
Stewart, I. (Recipient), 2022

Donahue Award for Research Excellence
Stewart, I. (Recipient), 2016

James J. Leonard Award for Excellence in Teaching Medical Students
Stewart, I. (Recipient), 2008

John F. Maher Award for Research Excellence
Stewart, I. (Recipient), 2019

Major General Archie Hoffman Award
Stewart, I. (Recipient), 2012

Most Valuable Integrated Product Team Member
Stewart, I. (Recipient), 2019

Outstanding Graduate, UTHSCSA Nephrology
Stewart, I. (Recipient), 2011

Outstanding Teaching Fellow, SAMMC Internal Medicine Residency
Stewart, I. (Recipient), 2011

USAF Outstanding Achievement in Clinical Research Award
Stewart, I. (Recipient), 2016

Press/Media

48 recent hospital, health system executive moves
Stewart, I.
20/02/26
1 item of Media coverage

Cancer summit at Walter Reed focuses on prevention, warrior readiness
Stewart, I., Shriver, C. & Lin, J.
18/12/25
1 item of Media coverage

Do you know Simon and Garfunkel's original name? Here are the early acts of 50 iconic musicians.
Stewart, I.
11/08/24
1 item of Media coverage

Do you know Simon and Garfunkel's original name? Here are the early acts of 50 iconic musicians.
Stewart, I.
7/08/24
1 item of Media coverage

Do you know The Beatles' original band name? Here are the early acts of 50 famous musicians.
Stewart, I.
4/07/24
1 item of Media coverage

Do you know the original band name of Simon & Garfunkel? Here are the early acts of 50 famous musicians.
Stewart, I.
2/06/24
1 item of Media coverage

Do you know the original band name of Simon & Garfunkel? Here are the early acts of 50 famous musicians.
Stewart, I.
29/05/24
1 item of Media coverage

Do you know the original band name of Simon & Garfunkel? Here are the early acts of 50 famous musicians.
Stewart, I.
30/05/24
1 item of Media coverage

Do you know The Rolling Stones' original band name? Here are the early acts of 50 famous musicians.
Stewart, I.
7/03/25

1 item of Media coverage

Do you know The Rolling Stones' original band name? Here are the early acts of 50 famous musicians.
Stewart, I.
24/03/25
1 item of Media coverage

Do you know The Rolling Stones' original band name? Here are the early acts of 50 iconic musicians.
Stewart, I.
30/01/25
2 items of Media coverage

Do you know The Rolling Stones' original band name? Here are the early acts of 50 iconic musicians.
Stewart, I.
13/02/25
1 item of Media coverage

Do you know The Rolling Stones' original band name? Here are the early acts of 50 legendary musicians.
Stewart, I.
26/04/25
1 item of Media coverage

Huawei kicked out of EU solar industry association | Mideast titans step back from AI model race as US, China dominate | America's coming brain drain
Stewart, I.
6/05/25
1 item of Media coverage

Jimmy Stewart: A man of the 1940s; Icon of the silver screen Service to his nation Spirit of the age The same offscreen The 1940s and beyond
Stewart, I.
11/02/25
1 item of Media coverage

Jimmy Stewart: Man of the decade for the 1940s
Stewart, I.
11/02/25
1 item of Media coverage

Jimmy Stewart: Man of the decade for the 1940s
Stewart, I.
11/02/25
1 item of Media coverage

New Data from Uniformed Services University of the Health Sciences Illuminate Findings in Acute Kidney Injury (Mitigation of Ischemia/Reperfusion-Induced Acute Kidney Injury by Canagliflozin Is Associated with Altered Mitochondrial Dynamics and ...)
Stewart, I., Walker, P., Burmeister, D. & Rowe, C.
9/03/26
1 item of Media coverage

New Findings on Veterans Described by Investigators at Uniformed Services University of the Health Sciences (Traumatic Brain Injury Is Associated With the Subsequent Risk of Atrial Fibrillation or Atrial Flutter)
Stewart, I. & Haigney, M.
31/03/25
1 item of Media coverage

Only true music buffs know about the early acts of these 50 iconic musicians
Stewart, I.
15/01/26
1 item of Media coverage

On this day -- August 10
Stewart, I.
10/08/24
1 item of Media coverage

On this day -- August 10
Stewart, I.
10/08/25
1 item of Media coverage

On this day -- July 15
Stewart, I.
15/07/24
1 item of Media coverage

On this day -- July 15
Stewart, I.
15/07/25
1 item of Media coverage

On this day -- July 15
Stewart, I.
15/07/26
1 item of Media coverage

On this day -- July 18
Stewart, I.
18/07/24
1 item of Media coverage

On this day -- July 18
Stewart, I.
18/07/25
1 item of Media coverage

On this day -- July 18
Stewart, I.
18/07/26
1 item of Media coverage

Reports Outline Military and Defense Study Findings from Uniformed Services University of the Health Sciences (Sex Differences in Cardiovascular Disease Outcomes After Traumatic Brain Injury)
Stewart, I., Haigney, M. & Brown, J.
30/03/26
1 item of Media coverage

Researchers from Uniformed Services University of the Health Sciences Detail New Studies and Findings in the Area of COVID-19 [The Seraph 100® Microbind Affinity Blood Filter Does Not Alter Levels of Circulating or Mucosal Antibodies in .
Stewart, I., Pratt, K., Laing, E. & Mitre, E.
10/10/24

1 item of Media coverage

Researchers from Uniformed Services University of the Health Sciences Provide Details of New Studies and Findings in the Area of Military and Defense (Evaluation of a Powerless Portable Dialysate Generator In a Porcine Model of Continuous Renal ...)
Stewart, I., Walker, P. & Burmeister, D.
10/02/26
1 item of Media coverage

Richard Arndt, "Dick," 78, of Kenosha, dies April 28, 2025
Stewart, I.
7/05/25
1 item of Media coverage

Shockwaves from routine military duties associated with long-term anger and violence
Stewart, I.
22/06/26
1 item of Media coverage

Studies from Uniformed Services University of the Health Sciences Add New Findings in the Area of Department of Defense (Acetazolamide Protects Against Limb Ischemia/Reperfusion-Induced Acute Kidney Injury via NHE3 and Cathepsin D Inhibition)
Stewart, I., Burmeister, D. & Zhou, X.
1/06/26
1 item of Media coverage

Study Results from Uniformed Services University of the Health Sciences Broaden Understanding of COVID-19 (Seraph 100 Hemoperfusion for Management of Severe Covid-19: Assessment of Serum and Plasma Analytes Pre- and Post-filtration)
Stewart, I., Robertson, H., Gann, E., Simons, M., Pratt, K., Schobel-McHugh, S. & Rouse, M.
4/03/25
1 item of Media coverage

Uniformed Services University of the Health Sciences Researcher Describes Research in Acute Kidney Injury (Canagliflozin Mitigates Acute Kidney Injury Secondary to Resuscitative Endovascular Balloon Occlusion of the Aorta in a Porcine Model of ...)
Stewart, I., Propper, B., Tallowin, S. & Burmeister, D.
9/09/24
1 item of Media coverage

United States Courts Opinion: United States District Court for the District of Columbia: 19-2848 - ROSE, JR. et al v. AZAR, II et al
Stewart, I.
29/06/24
1 item of Media coverage

United States Courts Opinion: United States District Court for the District of Columbia: 22-1512 - FLORES et al v. ISLAMIC REPUBLIC OF IRAN et al
Stewart, I.
29/09/25
1 item of Media coverage

Grants

W81XWH-22-2-0068, Rapid Evaluation of Therapeutics to Extend the Golden Hour: Launch of a Murine Translational Platform, Supplemental
Zhou, X. (PI) & Stewart, I. (CoI)
Combat Casualty Care Division: $520,992.00

23/09/24 → 30/09/26

Projects

PURIFY: Blood Purification with Seraph® 100 Microbind® Affinity Blood Filter for the Treatment of Severe COVID-19
Stewart, I. (PI)
1/10/20 → 30/09/23

AKI Epi: Epidemiology of Acute Kidney Injury In Combat Casualties
Stewart, I. (PI)
1/10/12 → 30/09/16

LIMBIC: Long-term Impact of Military Relevant Brain Injury Consortium: Phenotypes of Persistent Comorbidity in Post-9/11 Era Veterans with mTBI
Stewart, I. (CoI) & Pugh, M. J. (PI)
1/10/20 → 30/09/24

Long-term outcomes in US Service members after combat injury
Stewart, I. (PI)
1/10/14 → 30/09/21

MED READ PRO: Medical Readiness Project
Stewart, I. (CoI), Alcover, K. (CoI) & Howard, J. T. (PI)
1/10/22 → 30/09/24

MATES: Military Acute Kidney Injury and Therapeutic Extracorporeal Systems Program
Stewart, I. (PI) & Burmeister, D. (CoI)
1/10/22 → …

VentRight: Portable Ventilation Monitoring Optimizing Critical Care Across the Ventilation Continuum
Stewart, I. (PI) & Johnson, M. A. (PI)
1/10/19 → 30/09/22

SPIRIT: Sleep, hypertensIon, and cardiovascular disease in Injured veterans program
Stewart, I. (PI), Haigney, M. (CoPI) & Solhjoo, S. (CoPI)
1/10/22 → …

AKI UB: Urinary Biomarkers of Acute Kidney Injury in Combat Casualties
Stewart, I. (PI)
1/10/12 → 1/10/19

W81XWH-22-2-0068, Rapid Evaluation of Therapeutics to Extend the Golden Hour: Launch of a Murine Translational Platform
Stewart, I. (CoI), Zhou, X. (PI) & Burmeister, D. (CoI)
1/10/22 → 30/09/26

W81XWH-22-2-0068, Rapid Evaluation of Therapeutics to Extend the Golden Hour: Launch of a Murine Translational Platform, Supplemental
Zhou, X. (PI) & Stewart, I. (CoI)
23/09/24 → 30/09/26