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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

**Director, Division of Nephrology**  
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

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., 13 Mar 2025, In: JAMA Network Open. 8, 3, p. e250194

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Kravitz, M. S., Kattouf, N., Stewart, I. J., Ginde, A. A., Schmidt, E. P. & Shapiro, N. I., Dec 2024, In: *Critical Care*. 28, 1, 254.

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Alcover, K. C., Howard, K., Poltavskiy, E., Derminassian, A. D., Nickel, M. S., Allard, R. J., Dao, B., Stewart, I. J. & Howard, J. T., 1 Sep 2024, In: *Military Medicine*. 189, p. 21-30 10 p.

**The Seraph 100® Microbind Affinity Blood Filter Does Not Alter Levels of Circulating or Mucosal Antibodies in Critical COVID-19 Patients**

Conner, T. L., Vir, P., Laing, E. D., Stewart, I. J., Mitre, E. & Pratt, K. P., Sep 2024, In: *Antibodies*. 13, 3, 65.

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Advancing Combat Casualty Care Statistics and Other Battlefield Care Metrics

Janak, J. C., Kotwal, R. S., Howard, J. T., Gurney, J. M., Eastridge, B. J., Holcomb, J. B., Shackelford, S. A., De Lorenzo, R. A., Stewart, I. J. & Mazuchowski, E. L., 1 Jun 2024, In: *Journal of Special Operations Medicine*. 24, 2, p. 11-16 6 p.

The degree of aortic occlusion in the setting of trauma alters the extent of acute kidney injury associated with mitochondrial preservation

Abel, B., Mares, J., Hutzler, J., Parajuli, B., Kurada, L., White, J. M., Propper, B. W., Stewart, I. J. & Burmeister, D. M., Apr 2024, In: *American Journal of Physiology - Renal Fluid and Electrolyte Physiology*. 326, 4, p. F669-F679

Traumatic Brain Injury and Subsequent Risk of Brain Cancer in US Veterans of the Iraq and Afghanistan Wars

Stewart, I. J., Howard, J. T., Poltavskiy, E., Dore, M., Amuan, M. E., Ocier, K., Walker, L. E., Alcover, K. C. & Pugh, M. J., 15 Feb 2024, In: *JAMA Network Open*. 7, 2, p. E2354588

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Harea, G. T., Threlkill, M., Garcia, I., Beely, B. M., Wendorff, D. S., Roberts, T. R., Golobish, T. D., Gruda, M., Kovacs, T., Guliashvili, T., Chan, P. P., Stewart, I. J., Chung, K. K., Guda, T. & Batchinsky, A. I., Jan 2024, In: *Perfusion (United Kingdom)*. 39, 1, p. 134-141 8 p.

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Associations between health-related behaviors and self-reported cognitive symptoms in U.S. military personnel injured on deployment

Jurick, S. M., McCabe, C. T., Watrous, J. R., MacGregor, A. J., Walton, S. R., Stewart, I. J., Walker, L. E. & Galarneau, M. R., Sep 2023, In: Journal of Psychiatric Research. 165, p. 48-55 8 p.

**Adsorption of Pathogens and Blockade of Sepsis Cascade**

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**Long-Term Health Care Costs for Service Members Injured in Iraq and Afghanistan**

Stewart, I. J., Ambardar, S., Howard, J. T., Janak, J. C., Walker, L. E., Poltavskiy, E., Alcover, K. C., Watrous, J., Gundlapalli, A. V., Pettey, W. B. P., Suo, Y. & Nelson, R. E., 1 Jul 2023, In: Military Medicine. 188, 7-8, p. E2431-E2438

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Seraph-100 Hemoperfusion in SARS-CoV-2-Infected Patients Early in Critical Illness: A Case Series  
Rifkin, B. S. & Stewart, I. J., 1 Apr 2022, In: Blood Purification. 51, 4, p. 317-320 4 p.

A Multicenter Evaluation of the Seraph 100 Microbind Affinity Blood Filter for the Treatment of Severe COVID-19  
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**Obstructive sleep apnea among survivors of combat-related traumatic injury: a retrospective cohort study**  
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**Traumatic Brain Injury and Early Onset Dementia in Post 9-11 Veterans**  
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Persistent Opioid Use after Combat Injury and Subsequent Long-term Risk of Abuse: A Retrospective Cohort Study  
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Urinary metabolites predict mortality or need for renal replacement therapy after combat injury  
Gisewhite, S., Stewart, I. J., Beilman, G. & Luszczek, E., Dec 2021, In: Critical Care. 25, 1, 119.

**Incidence of cancer among U.S. combat casualties: a DoD Trauma Registry study**

Destefano, C., Shaw, K., Gundlapalli, A. V., Chung, K., Poltavskiy, E. & Stewart, I. J., 1 Sep 2021, In: American Journal of Hematology. 96, 9, p. E324-E327

**Risk factors of persistent insomnia among survivors of traumatic injury: A retrospective cohort study**

Haynes, Z. A., Collen, J. F., Poltavskiy, E. A., Walker, L. E., Janak, J., Howard, J. T., Werner, J. K., Wickwire, E. M., Holley, A., Zarzabal, L. A., Sim, A., Gundlapalli, A. & Stewart, I. J., 1 Sep 2021, In: Journal of Clinical Sleep Medicine. 17, 9, p. 1831-1840 10 p.

**Traumatic injury and atrial fibrillation among deployed service members**

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**Longitudinal mental health outcomes of combat-injured service members**

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**The Enduring Health Consequences of Combat Trauma: a Legacy of Chronic Disease**

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**Telomere shortening and accelerated aging in US military veterans**

Howard, J. T., Janak, J. C., Santos-Lozada, A. R., McEvilla, S., Ansley, S. D., Walker, L. E., Spiro, A. & Stewart, I. J., 2 Feb 2021, In: International Journal of Environmental Research and Public Health. 18, 4, p. 1-13 13 p., 1743.

**Endovascular to Extracorporeal Organ Support for Vascular Trauma and Shock**

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**A 30% incidence of renal cysts with varying sizes and densities in biomedical research swine is not associated with renal dysfunction**

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**Hypertension in military veterans is associated with combat exposure and combat injury**

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**Exploring Disparities in Awarding VA Service-Connected Disability for Post-Traumatic Stress Disorder for Active Duty Military Service Members from Recent Conflicts in Iraq and Afghanistan**

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Predicting and Planning for Musculoskeletal Service-Connected Disabilities in VA Using Disability for Active Duty OEF/OIF Military Service Members

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Large animal models for translational research in acute kidney injury

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Point-of-Care Urinary Biomarker Testing for Risk Prediction in Critically Injured Combat Casualties

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Using the injury severity score to adjust for comorbid trauma may be double counting burns: implications for burn research  
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Acute kidney injury

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Presenting hypertension, burn injury, and mortality in combat casualties

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Hypertension after injury among burned combat veterans: A retrospective cohort study  
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Dysnatremias and survival in adult burn patients: A retrospective analysis

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**Retrospective review of serum creatinine and creatinine-based measures of estimated glomerular filtration rate in an amputee population**

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Is there any role for sodium modeling in the prevention of intradialytic hypotension in patients with large interdialytic fluid gains?

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## Activities

### Selective Leukapheresis for Immunomodulation in Sepsis

Ian Stewart (Speaker)  
16 Apr 2025

### Potassium Removal in-vivo: How Would I do it on the Battlefield?

Ian Stewart (Speaker)  
3 Apr 2025

### Minimum Essential Data Set for a Database

Ian Stewart (Speaker)  
31 Mar 2025

### Tales of Combat Nephrology: Implications for Future Large Scale Combat Operations

Ian Stewart (Speaker)  
23 Oct 2024

### The Career of a US Air Force Academic Physician

Ian Stewart (Speaker)  
29 May 2024

### Sepsis: the Military Perspective

Ian Stewart (Speaker)  
13 Sep 2023

### Association Between Traumatic Brain Injury and Subsequent Cardiovascular Disease Among Post-9/11-Era Veterans

Ian Stewart (Speaker)  
2 May 2023

### Kidney Replacement Therapy in the Austere Setting

Ian Stewart (Speaker)  
13 Jan 2023

### Evaluation of the Seraph 100 Microbind Affinity Blood Filter for the Treatment of Severe COVID-19

Ian Stewart (Speaker)  
12 Sep 2022

### The consequences of combat trauma—the US experience

Ian Stewart (Speaker)  
1 Sep 2022

**Long-term mental and physical health after combat trauma**  
Ian Stewart (Speaker)  
23 Jun 2021

**Long-term Health Outcomes after Trauma**  
Ian Stewart (Speaker)  
11 Apr 2019

**AKI After Trauma and Burns: Combat Nephrology**  
Ian Stewart (Speaker)  
19 Sep 2018

**Long-term Outcomes After Combat Trauma**  
Ian Stewart (Speaker)  
18 Sep 2018

**The Emerging Concept of Bridge Dialysis**  
Ian Stewart (Speaker)  
6 Sep 2018

**Renal Replacement Therapy in AKI**  
Ian Stewart (Speaker)  
20 Mar 2018

**AKI after Burns and Trauma: Combat Nephrology**  
Ian Stewart (Speaker)  
27 Apr 2017

**AKI in the Setting of Combat Trauma**  
Ian Stewart (Speaker)  
9 Mar 2017

**AKI in Rhabdomyolysis**  
Ian Stewart (Speaker)  
18 Oct 2016

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

**Long-term Outcomes After Combat Injury**  
Ian Stewart (Speaker)  
30 Sep 2015

## **Prizes**

**Deans Impact Award**  
Stewart, Ian (Recipient), 2022

**Donahue Award for Research Excellence**  
Stewart, Ian (Recipient), 2016

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

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

**Major General Archie Hoffman Award**  
Stewart, Ian (Recipient), 2012

**Most Valuable Integrated Product Team Member**  
Stewart, Ian (Recipient), 2019

**Outstanding Graduate, UTHSCSA Nephrology**  
Stewart, Ian (Recipient), 2011

**Outstanding Teaching Fellow, SAMMC Internal Medicine Residency**  
Stewart, Ian (Recipient), 2011

**USAF Outstanding Achievement in Clinical Research Award**  
Stewart, Ian (Recipient), 2016

## **Press/Media**

**Blood filtration system used in care against COVID-19 may provide novel treatment for Sepsis**  
Ian Stewart  
18/09/23  
1 item of Media coverage

**Blood Filtration System Used in Care Against COVID-19 May Provide Novel Treatment for Sepsis**  
Ian Stewart  
15/09/23  
1 item of Media coverage

**BLOOD FILTRATION SYSTEM USED IN CARE AGAINST COVID-19 MAY PROVIDE NOVEL TREATMENT FOR SEPSIS**  
Ian Stewart  
15/09/23  
1 item of Media coverage

**Brain Cancer Risk Higher in Troops With Moderate to Severe Brain Injuries**  
Ian Stewart  
21/02/24  
1 item of Media coverage

**Brain Cancer Risk Increased After Moderate/Severe, Penetrating TBI**  
Ian Stewart  
16/02/24  
2 items of Media coverage

**Brain Cancer Risk Increased After Moderate/Severe, Penetrating TBI; Risk for subsequent development of brain cancer increased in cohort of mostly male veterans.**  
Ian Stewart  
16/02/24  
1 item of Media coverage

**Brain Cancer Risk Rises in Vets After Serious Head Injury**

Ian Stewart

16/02/24

3 items of Media coverage

**Brain Cancer Risk Rises in Vets After Serious Head Injury.**

Ian Stewart

16/02/24

1 item of Media coverage

**Data on Antibiotics Discussed by Researchers at Uniformed Services University of the Health Sciences (Seraph 100 Microbind Affinity Blood Filter Does Not Clear Antibiotics: an Analysis of Antibiotic Concentration Data From Purify-obs)**

Kathleen Pratt & Ian Stewart

25/04/24

1 item of Media coverage

**ExThera Medical Successfully Completes First Phase of PURIFY Clinical Trial**

Ian Stewart

14/06/23

1 item of Media coverage

**ExThera Medical Successfully Completes Phase I of PURIFY RCT: US Investigational Device Exemption Trial Evaluating Seraph 100 for the Treatment of Septic Shock**

Ian Stewart

18/04/23

13 items of Media coverage

**Iraq, Afghanistan Vets' Brain Injury May Elevate Cancer Risk**

Ian Stewart

15/02/24

1 item of Media coverage

**Moderate or Severe Head Trauma Tied to Brain Cancer Risk in Young Veterans**

Ian Stewart

15/02/24

1 item of Media coverage

**Moderate or severe traumatic brain injury tied to subsequent development of brain cancer in young veterans: JAMA**

Ian Stewart

19/02/24

1 item of Media coverage

**Moderate to Severe Brain Injuries Significantly Increase Risk for Brain Cancer in Post-9/11 Veterans**

Ian Stewart

15/02/24

1 item of Media coverage

**Moderate to Severe Brain Injuries Significantly Increase Risk for Brain Cancer in Post-9/11 Veterans**

Ian Stewart

16/02/24

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)**

Ian Stewart & Mark Haigney

31/03/25

1 item of Media coverage

**Recent Studies from Uniformed Services University of the Health Sciences Add New Data to Military Medicine  
(Association of Traumatic Brain Injury and Glioblastoma Multiforme: a Case Series)**

Ian Stewart  
16/06/23  
1 item of Media coverage

**Researcher at Uniformed Services University of the Health Sciences Publishes Research in Veterans (Traumatic Brain Injury and Subsequent Risk of Brain Cancer in US Veterans of the Iraq and Afghanistan Wars)**

Karl Alcover & Ian Stewart  
5/03/24  
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 .**

Ian Stewart & Kathleen Pratt  
10/10/24  
1 item of Media coverage

**Research finds brain cancer risk increase after moderate/severe, penetrating TBI**

Ian Stewart  
20/02/24  
1 item of Media coverage

**Research on Nephropathy Detailed by Researchers at Uniformed Services University of the Health Sciences (Proteomic analyses of urinary exosomes identify novel potential biomarkers for early diagnosis of sickle cell nephropathy, a sex-based study)**

Xiaoming Zhou, James Oliver & Ian Stewart  
1/03/24  
1 item of Media coverage

**Risk of Brain Cancer Higher in Troops with Moderate to Severe Brain Injuries, Large Study Shows**

Ian Stewart  
15/02/24  
1 item of Media coverage

**Some traumatic brain injuries linked to increased risk of brain cancer**

Ian Stewart  
16/02/24  
1 item of Media coverage

**Some traumatic brain injuries linked to increased risk of brain cancer**

Ian Stewart  
16/02/24  
9 items of Media coverage

**Studies from Uniformed Services University of the Health Sciences Provide New Data on Veterans (Long-Term Health Care Costs for Service Members Injured in Iraq and Afghanistan)**

Karl Alcover & Ian Stewart  
20/02/23  
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)**

Ian Stewart, Henry Robertson, Eric Gann, Mark Simons, Kathleen Pratt, Michael Rouse & Seth Schobel-McHugh  
4/03/25

1 item of Media coverage

**TBI and Risk of Brain Cancer in Veterans of the Iraq and Afghanistan Wars**

Ian Stewart

21/02/24

1 item of Media coverage

**TBI link to cardiovascular disease in veterans**

Ian Stewart

25/01/23

1 item of Media coverage

**TB research will make 'enormous global health impact'**

Ian Stewart

13/10/21

1 item of Media coverage

**Tech companies are racing to crack the code of marijuana testing**

Ian Stewart

7/07/22

1 item of Media coverage

**The After Time The Future of Civilization after COVID-19.(ARTICLE)(Report)**

Ian Stewart

1/01/21

1 item of Media coverage

**The risk of brain cancer rises following moderate to severe penetrating traumatic brain injury (TBI)**

Ian Stewart

19/02/24

1 item of Media coverage

**Traumatic brain injury and subsequent risk of brain cancer in US veterans of the Iraq and Afghanistan wars**

Ian Stewart

15/02/24

2 items of Media coverage

**Traumatic brain injury, brain cancer linked in post 9/11 US military veterans**

Ian Stewart

20/02/24

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 ...)**

Ian Stewart, Brandon Propper, Simon Tallowin & Biebele Abel

9/09/24

1 item of Media coverage

**Uniformed Services University of the Health Sciences Researchers Update Understanding of Blood Transfusion (A clinically-relevant mouse model that displays hemorrhage exacerbates tourniquet-induced acute kidney injury)**

Xiaoming Zhou & Ian Stewart

23/11/23

1 item of Media coverage

**Urinary metabolites predict mortality or need for renal replacement therapy after combat injury**

Ian Stewart

23/03/21

1 item of Media coverage

**VA Office of R&D: Traumatic Brain Injury Carries Risk For Cardiovascular Disease In Post-9/11 Veterans**

Ian Stewart

25/01/23

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. & Stewart, I.

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.

1/10/20 → 30/09/23

**AKI Epi: Epidemiology of Acute Kidney Injury In Combat Casualties**

Stewart, I.

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. & Pugh, M. J.

1/10/20 → 30/09/24

**Long-term outcomes in US Service members after combat injury**

Stewart, I.

1/10/14 → 30/09/21

**MED READ PRO: Medical Readiness Project**

Stewart, I., Alcover, K. & Howard, J. T.

1/10/22 → 30/09/24

**MATES: Military Acute Kidney Injury and Therapeutic Extracorporeal Systems Program**

Stewart, I. & Burmeister, D.

1/10/22 → ...

**VentRight: Portable Ventilation Monitoring Optimizing Critical Care Across the Ventilation Continuum**

Stewart, I. & Johnson, M. A.

1/10/19 → 30/09/22

**SPIRIT: Sleep, hypertension, and cardiovascular disease in Injured veterans program**

Stewart, I., Haigney, M. & Solhjoo, S.

1/10/22 → ...

**AKI UB: Urinary Biomarkers of Acute Kidney Injury in Combat Casualties**

Stewart, I.

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., Zhou, X. & Burmeister, D.  
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. & Stewart, I.  
23/09/24 → 30/09/26