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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

### Sex Differences in Cardiovascular Disease Outcomes After Traumatic Brain Injury

Balke, J. E., Stewart, I., Amuan, M. E., Howard, J. T., Brown, J., Kennedy, E., Haigney, M. & Pugh, M. J., Apr 2026, In: JACC: Advances. 5, 4, 102658.

**Canagliflozin Mitigates Acute Kidney Injury Secondary to Resuscitative Endovascular Balloon Occlusion of the Aorta in a Porcine Model of Hemorrhagic Shock**

Tallowin, S., Abel, B., Mysore, B., Mares, J., Anderson, J. A., Propper, B. W., Stewart, I. J. & Burmeister, D. M., Mar 2026, In: *Annals of surgery*. 283, 3, p. 519-527 9 p.

**Mitigation of Ischemia/Reperfusion-Induced Acute Kidney Injury by Canagliflozin Is Associated with Altered Mitochondrial Dynamics and Reduced Proliferation in Swine**

Killingsworth, Z. K., Chaudhary, M., Mares, J. A., Ellery, H., Rowe, C. J., Stewart, I., Walker, P. & Burmeister, D. M., 10 Feb 2026, In: *Biomolecules*. 16, 2, 279.

**A Narrative Review of Erythropoietin Stimulating Agents for Trauma**

Peckham, J. D., Rizzo, J. A., April, M. D., Maddry, J. K., Meledeo, M. A., Stewart, I. J. & Schauer, S. G., 1 Jan 2026, In: *Military Medicine*. 191, 1-2, p. e85-e94

**Evaluation of a powerless portable dialysate generator in a porcine model of continuous renal replacement therapy**

Zain Baig, M., Baker, M. F., Mares, J., Chaudhary, M., Hutzler, J., Metcalf, N., Srinivas, G., Walker, P. F., Stewart, I. J. & Burmeister, D. M., 2026, In: *BMJ Military Health*.

**Suicide Rate Trends for Post-September 11, 2001, US Military Veterans**

Howard, J. T., Stewart, I. J. & Pugh, M. J., 2 Sep 2025, In: *JAMA Network Open*. 8, 9, p. e2530216

**A study protocol for determining the role of Sympathetic activity in Post-injury outcomes: Impact on sleep and cardiovascular health InvesTigation (SPIRIT)**

Walker, L. E., Jurick, S. M., Thomas, V., Arnold, T., Elisman, K., Kalra, S., Mains, A., Rioux, S., Galarneau, M., McCabe, C., Lavender, J. M., Collen, J., Haigney, M. C., Solhjoo, S. & Stewart, I. J., Jul 2025, In: *PLoS ONE*. 20, 7, p. e0321035 e0321035.

**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

**Deceased donor blood transfusion in emergency resuscitation: A scoping review of historical evidence for military and mass casualty applications**

Wang, J. C., Remondelli, M. H., Rhee, J., Patterson, K., Lackie, M., Nye, K., Atwood, R. E., Green, J. T., Do, W., Schechtman, D., Weeks, S. R., Bozzay, J. D., Radowsky, J. S., Powell, E. K., Stewart, I. J., Burmeister, D. M., Elster, E. A., Bradley, M. J. & Walker, P. F., Jan 2025, In: *Transfusion*. 65, 10, p. 1936-1953 18 p.

**Advances in the Classification of Patients With Traumatic Brain Injury**

Howard, J. T. & Stewart, I. J., 2025, In: *Neurology*. 106, 4

**Disease and non-battle injury incidence rate trends in the US military, 2010–2021**

Alcover, K. C., Howard, K. J., Poltavskiy, E., Dao, B., Stewart, I. & Howard, J. T., 2025, (Accepted/In press) In: *BMJ Military Health*. 003027.

**Lessons Learned From Large Animal Models of Trauma-Induced AKI**

Burmeister, D. M., Nguyen, J. N. & Stewart, I. J., 2025, In: *Seminars in Nephrology*. 46, 1, 151670.

**Seraph-100 hemoperfusion for management of severe COVID-19: Assessment of serum and plasma analytes pre- and post-filtration**

Rouse, M., Gann, E. R., Brandsma, J., Sugiharto, V. A., Robertson, H., Genzor, P., Chen, H.-W., Simons, M. P., Schobel, S. A., Chenoweth, J. G., Jenkins, S. A., Clark, D. V., Della Volpe, J., Chitty, S., Rivera, I. M., Lewis, M., Park, C., Parikh,

A., Vir, P. & Stewart, I. J. & 1 others, Pratt, K. P., 11 Dec 2024, (E-pub ahead of print) In: Blood Purification. p. 1-16 16 p.

### **Disease and Non-Battle Injury in Deployed Military: A Systematic Review and Meta-analysis**

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, Suppl 3, p. 21-30 10 p.

### **The Seraph 100<sup>®</sup> 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.

### **Plasma for prevention and treatment of glycocalyx degradation in trauma and sepsis**

Kravitz, M. S., Kattouf, N., Stewart, I. J., Ginde, A. A., Schmidt, E. P. & Shapiro, N. I., 20 Jul 2024, In: Critical Care. 28, 1, p. 254 254.

### **A Novel Peritoneal Packing Method for Management of Hyperkalemia During Acute Kidney Injury in Trauma**

Zimmerman, E. M., Stewart, I. J., Graham, T. L., Kovacs, T. J., Guliashvili, T., Golobish, T. D. & Ross, J. D., 1 Jul 2024, In: Military Medicine. 189, 7-8, p. e1432-e1436

### **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

### **Seraph 100 Microbind Affinity Blood Filter Does Not Clear Antibiotics: An Analysis of Antibiotic Concentration Data from PURIFY-OBS**

DeLuca, J. P., Selig, D. J., Vir, P., Vuong, C. V., Della-Volpe, J., Rivera, I. M., Park, C., Levi, B., Pratt, K. P. & Stewart, I. J., 13 Jan 2024, In: Blood Purification. 53, 5, p. 284-290 7 p.

### **Association of Traumatic Brain Injury and Glioblastoma Multiforme: A Case Series**

An, J., Freeman, E., Stewart, I. J. & Dore, M., 1 Jan 2024, In: Military Medicine. 189, 1-2, p. E27-E33

### **K<sup>+</sup>ontrol rapidly and efficiently reduces potassium in donor blood during ex vivo circulation**

Harea, G. T., Thrailkill, 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.

### **Comparison of Racial and Ethnic Mortality Disparities among Post-9/11 Veterans with and without Traumatic Brain Injury to the Total U.S. Adult Population**

Howard, J. T., Stewart, I. J., Walker, L. E., Amuan, M., Rayha, K., Janak, J. C. & Pugh, M. J., 2024, (Accepted/In press) In: Journal of Racial and Ethnic Health Disparities.

### **Proteomic analyses of urinary exosomes identify novel potential biomarkers for early diagnosis of sickle cell nephropathy, a sex-based study**

Packialakshmi, B., Limerick, E., Ackerman, H. C., Lin, X., Nekhai, S., Oliver, J. D., Stewart, I. J., Knepper, M. A., Fitzhugh, C. & Zhou, X., 2024, In: Frontiers in Physiology. 15, 1300667.

**Traumatic brain injury is associated with the subsequent risk of atrial fibrillation or atrial flutter**

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Trends in Suicide Rates among Post-9/11 US Military Veterans with and Without Traumatic Brain Injury from 2006-2020  
Howard, J. T., Stewart, I. J., Amuan, M. E., Janak, J. C., Howard, K. J. & Pugh, M. J., 9 Oct 2023, In: *JAMA Neurology*. 80, 10, p. 1117-1119 3 p.

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

Stewart, I. J., McCrear, K., Chawla, L. & Chung, K. K., 1 Aug 2023, *Contributions to Nephrology*. Bellomo, R. & Ronco, C. (eds.). S. Karger AG, p. 123-132 10 p. (Contributions to Nephrology; vol. 200).

**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

Suicide attempts and mental health diagnoses in combat-injured service members: A retrospective cohort study

Walker, L. E., Poltavskiy, E., Howard, J. T., Janak, J. C., Watrous, J., Alcover, K., Pettey, W. B. P., Ambardar, S., Meyer, E., Gundlapalli, A. V. & Stewart, I. J., Apr 2023, In: *Suicide and Life-Threatening Behavior*. 53, 2, p. 227-240 14 p.

Hemoperfusion with Seraph 100 Microbind Affinity Blood Filter Unlikely to Require Increased Antibiotic Dosing: A Simulations Study Using a Pharmacokinetic/Pharmacodynamic Approach

Selig, D. J., Reed, T., Chung, K. K., Kress, A. T., Stewart, I. J. & Deluca, J. P., 1 Jan 2023, In: *Blood Purification*. 52, 1, p. 25-31 7 p.

**A clinically-relevant mouse model that displays hemorrhage exacerbates tourniquet-induced acute kidney injury**

Packialakshmi, B., Burmeister, D. M., Anderson, J. A., Morgan, J., Cannon, G., Kiang, J. G., Feng, Y., Lee, S., Stewart, I. J. & Zhou, X., 2023, In: *Frontiers in Physiology*. 14, 1240352.

**Post-Combat-Injury Opioid Prescription and Alcohol Use Disorder in the Military**

Alcover, K. C., Poltavskiy, E. A., Howard, J. T., Watrous, J. R., Janak, J. C., Walker, L. E. & Stewart, I. J., Dec 2022, In: *American Journal of Preventive Medicine*. 63, 6, p. 904-914 11 p.

**Association between Traumatic Brain Injury and Subsequent Cardiovascular Disease among Post-9/11-Era Veterans**

Stewart, I. J., Amuan, M. E., Wang, C. P., Kennedy, E., Kenney, K., Werner, J. K., Carlson, K. F., Tate, D. F., Pogoda, T. K., Dismuke-Greer, C. E., Wright, W. S., Wilde, E. A. & Pugh, M. J., 14 Nov 2022, In: *JAMA Neurology*. 79, 11, p. 1122-1129 8 p.

A Review of Extracorporeal Blood Purification Techniques for the Treatment of Critically Ill Coronavirus Disease 2019 Patients

Niazi, N. S., Nassar, T. I., Stewart, I. J., Honore, P. M., Sharma, K. & Chung, K. K., 1 Oct 2022, In: *ASAIO Journal*. 68, 10, p. 1219-1227 9 p.

**Prevalence and correlates of self-reported cognitive difficulties in deployment-injured U.S. military personnel**

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**Prospective Evaluation of Health Outcomes in a Nationwide Sample of Aeromedical Evacuation Casualties: Methods From a Pilot Study**

Walker, L. E., McCabe, C. T., Watrous, J. R., Poltavskiy, E., Howard, J. T., Janak, J. C., Migliore, L., Stewart, I. J. & Galarneau, M. R., 1 Jul 2022, In: *Military Medicine*. 187, 7-8, p. 978-986 9 p.

**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**

Chitty, S. A., Mobbs, S., Rifkin, B. S., Stogner, S. W., Lewis, M. S., Betancourt, J., Dellavolpe, J., Abouzahr, F., Wilhelm, A. M., Szerlip, H. M., Parikh, A., Gaeta, R. M., Rivera, I., Park, C., Levi, B., Anesi, G. L., Alcover, K. C., Arnold, T. B., Howard, J. T. & Sharma, K. & 3 others, Pratt, K. P., Stewart, I. J. & Chung, K. K., 25 Mar 2022, In: Critical Care Explorations. 4, 4, p. E0662

**Association of Traumatic Brain Injury with Mortality among Military Veterans Serving after September 11, 2001**

Howard, J. T., Stewart, I. J., Amuan, M., Janak, J. C. & Pugh, M. J., 11 Feb 2022, In: JAMA Network Open. 5, 2, e2148150.

**Tourniquet-induced lower limb ischemia/reperfusion reduces mitochondrial function by decreasing mitochondrial biogenesis in acute kidney injury in mice**

Packialakshmi, B., Stewart, I. J., Burmeister, D. M., Feng, Y., McDaniel, D. P., Chung, K. K. & Zhou, X., Feb 2022, In: Physiological Reports. 10, 3, e15181.

**Obstructive sleep apnea among survivors of combat-related traumatic injury: a retrospective cohort study**

Haynes, Z. A., Stewart, I. J., Poltavskiy, E. A., Holley, A. B., Janak, J. C., Howard, J. T., Watrous, J., Walker, L. E., Wickwire, E. M., Werner, K., Zarzabal, L. A., Sim, A., Gundlapalli, A. & Collen, J. F., 1 Jan 2022, In: Journal of Clinical Sleep Medicine. 18, 1, p. 171-179 9 p.

**Forever wounds of the forever war**

Stewart, I. J., 2022, In: Heart. 108, 5, p. 330-331 2 p.

**Traumatic Brain Injury and Early Onset Dementia in Post 9-11 Veterans**

Kennedy, E., Panahi, S., Stewart, I. J., Tate, D. F., Wilde, E. A., Kenney, K., Werner, J. K., Gill, J., Diaz-Arrastia, R., Amuan, M., Van Cott, A. C. & Pugh, M. J., 2022, In: Brain Injury. 36, 5, p. 620-627 8 p.

**Improvised Field Expedient Method for Renal Replacement Therapy in a Porcine Model of Acute Kidney Injury**

Hoareau, G. L., Beyer, C. A., Kashtan, H. W., Walker, L. E., Wilson, C., Wishy, A., Grayson, J. K. & Stewart, I. J., 2 Dec 2021, In: Disaster Medicine and Public Health Preparedness. 15, 6, p. 741-749 9 p.

**Persistent Opioid Use after Combat Injury and Subsequent Long-term Risk of Abuse: A Retrospective Cohort Study**

Beyer, C. A., Poltavskiy, E., Walker, L. E., Pettey, W., Suo, Y., Redd, A., Rittel, A. G., Kazanis, W. H., Dunham, J. R., Zarzabal, L. A., Rutter, W. C., Sim, A., Watrous, J. R., Howard, J. T., Janak, J. C., Stewart, I. J. & Gundlapalli, A., 1 Dec 2021, In: Annals of surgery. 274, 6, p. E957-E965

**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. B., Shaw, K., Gundlapalli, A. V., Chung, K. 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. B., 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**

Alcover, K. C., Ambardar, S. R., Poltavskiy, E., Nasir, J. M., Janak, J. C., Howard, J. T., Walker, L. E., Haigney, M. C. & Stewart, I. J., Sep 2021, In: Journal of Cardiovascular Electrophysiology. 32, 9, p. 2590-2594 5 p.

Longitudinal mental health outcomes of combat-injured service members

Walker, L. E., Watrous, J., Poltavskiy, E., Howard, J. T., Janak, J. C., Pettey, W. B. P., Zarzabal, L. A., Sim, A., Gundlapalli, A. & Stewart, I. J., May 2021, In: *Brain and Behavior*. 11, 5, e02088.

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

Stewart, I. J., Poltavskiy, E., Howard, J. T., Janak, J. C., Pettey, W., Zarzabal, L. A., Walker, L. E., Beyer, C. A., Sim, A., Suo, Y., Redd, A., Chung, K. K. & Gundlapalli, A., Mar 2021, In: *Journal of General Internal Medicine*. 36, 3, p. 713-721 9 p.

### **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.

### **Acute Kidney Injury During Hospitalization Increases the Risk of VTE**

McMahon, M. M. J., Collen, C. J. F., Chung, C. K. K., Stewart, L. I. J., Al-Eid, L. H. M., Moores, C. L. K. & Holley, C. A. B., Feb 2021, In: *Chest*. 159, 2, p. 772-780 9 p.

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

Chung, K. K., Batchinsky, A. I. & Stewart, I. J., 1 Jan 2021, *Rich's Vascular Trauma*. Elsevier, p. 158-165 8 p.

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

Gómez, B. I., Little, J. S., Leon, A. J., Stewart, I. J. & Burmeister, D. M., Sep 2020, In: *Animal Models and Experimental Medicine*. 3, 3, p. 273-281 9 p.

Comprehensive analysis of combat casualty outcomes in US service members from the beginning of World War II to the end of Operation Enduring Freedom

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

Howard, J. T., Stewart, I. J., Kolaja, C. A., Sosnov, J. A., Rull, R. P., Torres, I., Janak, J. C., Walker, L. E., Trone, D. W. & Armenta, R. F., 1 Jul 2020, In: *Journal of Hypertension*. 38, 7, p. 1293-1301 9 p.

### **Reference intervals for and the effects of sample handling and sex on rotational thromboelastometry in healthy adult pigs**

Hoareau, G. L., Barthelemy, A., Thollot, I. G., Nevoret, C. P., Beyer, C. A., Walker, L. E., Stewart, I. J. & Grayson, J. K., May 2020, In: *Journal of the American Association for Laboratory Animal Science*. 59, 3, p. 322-327 6 p.

### **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**

Redd, A. M., Gundlapalli, A. V., Suo, Y., Pettey, W. B. P., Brignone, E., Chin, D. L., Walker, L. E., Poltavskiy, E. A., Janak, J. C., Howard, J. T., Sosnov, J. A. & Stewart, I. J., 7 Jan 2020, In: *Military Medicine*. 185, p. 296-302 7 p.

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

Gundlapalli, A. V., Redd, A. M., Suo, Y., Pettey, W. B. P., Brignone, E., Chin, D. L., Walker, L. E., Poltavskiy, E. A., Janak, J. C., Howard, J. T., Sosnov, J. A. & Stewart, I. J., 7 Jan 2020, In: *Military Medicine*. 185, Suppl 1, p. 413-419 7 p.

### **Large animal models for translational research in acute kidney injury**

Packialakshmi, B., Stewart, I. J., Burmeister, D. M., Chung, K. K. & Zhou, X., 1 Jan 2020, In: *Renal Failure*. 42, 1, p. 1042-1058 17 p.

Assessing the NephroCheck<sup>®</sup> test system in predicting the risk of death or dialysis in burn patients

Suresh, M. R., Rizzo, J. A., Sosnov, J. A., Stacey, W. N., Howard, J. T., Tercero, J. R., Babcock, E. H. & Stewart, I. J., 2020, In: *Journal of Burn Care and Research*. 41, 3, p. 633-639 7 p.

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

Beyer, C. A., Burmeister, D. M., Gómez, B. I., Tercero, J., Babcock, E., Walker, L. E., Hoareau, G., Sosnov, J., Chung, K. K. & Stewart, I. J., Nov 2019, In: *Journal of the American College of Surgeons*. 229, 5, p. 508-515.e1

**Renal effects of three endoaortic occlusion strategies in a swine model of hemorrhagic shock**

Hoareau, G. L., Tibbits, E. M., Simon, M. A., Davidson, A. J., DeSoucy, E. S., Faulconer, E. R., Grayson, J. K., Stewart, I. J., Neff, L. P., Williams, T. K. & Johnson, M. A., Nov 2019, In: *Injury*. 50, 11, p. 1908-1914 7 p.

**Endocrine effects of simulated complete and partial aortic occlusion in a swine model of hemorrhagic shock**

Hoareau, G. L., Williams, T. K., Davidson, A. J., Russo, R. M., Ferencz, S. A. E., Neff, L. P., Grayson, J. K., Stewart, I. J. & Johnson, M. A., 1 May 2019, In: *Military Medicine*. 184, 5-6, p. e298-e302 usy287.

**Extracorporeal potassium binding for the management of hyperkalemia in an anephric model of crush injury**

Hoareau, G. L., Beyer, C. A., Wilson, C., Kashtan, H., Wishy, A., Grayson, J. K., Walker, L., Ross, J. D. & Stewart, I. J., 1 Apr 2019, In: *Journal of Trauma and Acute Care Surgery*. 86, 4, p. 694-701 8 p.

**A prospective evaluation of thromboelastometry (ROTEM) to identify acute traumatic coagulopathy and predict massive transfusion in military trauma patients in Afghanistan**

Cohen, J., Scorer, T., Wright, Z., Stewart, I. J., Sosnov, J., Pidcoke, H., Fedyk, C., Kwan, H., Chung, K. K., Heegard, K., White, C. & Cap, A., Apr 2019, In: *Transfusion*. 59, S2, p. 1601-1607 7 p.

**Renal Replacement Therapy Capability for the Treatment of Combat-Associated Acute Kidney Injury: A Historical Perspective to Plan for Future Conflicts**

Hoareau, G. L., Beyer, C. A., Walker, L. E., Chung, K. K. & Stewart, I. J., 1 Mar 2019, In: *Military Medicine*. 184, 3-4, p. 81-83 3 p.

**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**

Walker, L. E., Poltavskiy, E., Janak, J. C., Beyer, C. A., Stewart, I. J. & Howard, J. T., 2019, In: *Ethnicity and Disease*. 29, 3, p. 451-462 12 p.

**Rhabdomyolysis among critically ill combat casualties: Long-term outcomes**

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**Using the injury severity score to adjust for comorbid trauma may be double counting burns: implications for burn research**  
Janak, J. C., Clemens, M. S., Howard, J. T., Le, T. D., Cancio, L. C., Chung, K. K., Gurney, J. M., Sosnov, J. A. & Stewart, I. J., Dec 2018, In: *Burns*. 44, 8, p. 1920-1929 10 p.

**Extracorporeal Filtration of Potassium in a Swine Model of Bilateral Hindlimb Ischemia-Reperfusion Injury with Severe Acute Hyperkalemia**

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**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?**

Ferencz, S. A. E., Davidson, A. J., Howard, J. T., Janak, J. C., Sosnov, J. A., Chung, K. K. & Stewart, I. J., 1 Mar 2018, In: *Military Medicine*. 183, p. 34-39 6 p.

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**Acute kidney injury following resuscitative endovascular balloon occlusion of the aorta: A systematic review**

Hoareau, G. L., Cassiday, P. A., Stewart, I. J., Studer, A. C., Dubose, J. J., Neff, L. P., Williams, T. K. & Johnson, M. A., 2018, In: *Journal of Endovascular Resuscitation and Trauma Management*. 2, 2, p. 57-65 9 p.

**A novel perfusion system for damage control of hyperkalemia in swine**

Hoareau, G. L., Kashtan, H., Walker, L. E., Beyer, C., Wishy, A., Kevin Grayson, J., Ross, J. D. & Stewart, I. J., 2018, In: *Shock*. 50, 6, p. 677-683 7 p.

**Concerns about the Hold the Pendulum Paper**

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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**Hypertension after injury among burned combat veterans: A retrospective cohort study**

Stewart, I. J., Sosnov, J. A., Snow, B. D., Batou, A., Howard, J. T., Janak, J. C., Bollinger, M. & Chung, K. K., 1 Mar 2017, In: *Burns*. 43, 2, p. 290-296 7 p.

**Renal replacement therapy in the critically ill surgical patient**

Chung, K. K. & Stewart, I. J., 8 Oct 2016, *Principles of Adult Surgical Critical Care*. Springer International Publishing, p. 159-168 10 p.

**Acute Kidney Injury in Critically Injured Combat Veterans: A Retrospective Cohort Study**

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**Reciprocal Risk of Acute Kidney Injury and Acute Respiratory Distress Syndrome in Critically Ill Burn Patients**

Clemens, M. S., Stewart, I. J., Sosnov, J. A., Howard, J. T., Belenkiy, S. M., Sine, C. R., Henderson, J. L., Buel, A. R., Batchinsky, A. I., Cancio, L. C. & Chung, K. K., 1 Oct 2016, In: *Critical Care Medicine*. 44, 10, p. e915-e922

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### **Management of Crush Syndrome Under Prolonged Field Care**

Walters, T. J., Powell, D., Penny, A., Stewart, I., Chung, K., Keenan, S. & Shackelford, S., 1 Sep 2016, In: Journal of special operations medicine : a peer reviewed journal for SOF medical professionals. 16, 3, p. 78-85 8 p.

### **Rhabdomyolysis among critically ill combat casualties: Associations with acute kidney injury and mortality**

Stewart, I. J., Faulk, T. I., Sosnov, J. A., Clemens, M. S., Elterman, J., Ross, J. D., Howard, J. T., Fang, R., Zonies, D. H. & Chung, K. K., 2016, In: Journal of Trauma and Acute Care Surgery. 80, 3, p. 492-498 7 p.

### **Retrospective Analysis of Long-Term Outcomes after Combat Injury: A Hidden Cost of War**

Stewart, I. J., Sosnov, J. A., Howard, J. T., Orman, J. A., Fang, R., Morrow, B. D., Zonies, D. H., Bollinger, M., Tuman, C., Freedman, B. A. & Chung, K. K., 1 Dec 2015, In: Circulation. 132, 22, p. 2126-2133 8 p.

### **The potential utility of urinary biomarkers for risk prediction in combat casualties: A prospective observational cohort study**

Stewart, I. J., Glass, K. R., Howard, J. T., Morrow, B. D., Sosnov, J. A., Siew, E. D., Wickersham, N., Latack, W., Kwan, H. K., Heegard, K. D., Diaz, C., Henderson, A. T., Saenz, K. K., Ikizler, T. K. & Chung, K. K., 16 Jun 2015, In: Critical Care. 19, 1, 252.

### **Early acute kidney injury in military casualties**

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### **A comparison of acute respiratory distress syndrome outcomes between military and civilian burn patients**

Waters, J. A., Lundy, J. B., Aden, J. K., Sine, C. R., Buel, A. R., Henderson, J. L., Stewart, I. J., Cannon, J. W., Batchinsky, A., Cancio, L. C. & Chung, K. K., Mar 2015, In: Military Medicine. 180, 3, p. 56-59 4 p.

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Sosnov, J. A., Stewart, I. J. & Chung, K. K., 2015, In: Critical Care. 19, p. 432 1 p.

### **Rhabdomyolysis and acute kidney injury in the injured war fighter**

Elterman, J., Zonies, D., Stewart, I., Fang, R. & Schreiber, M., 2015, In: Journal of Trauma and Acute Care Surgery. 79, 4, p. S171-S174

### **Extracorporeal blood purification in burns: A review**

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.

### **Vasopressin, sepsis, and renal perfusion -A VASST deficit in our understanding**

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### **Derivation of candidates for the combat casualty critical care (C4) database**

Stewart, I. J., Fang, R., Cannon, J. W., Zonies, D. H., Morrow, B. D., Orman, J. A., Oliver, J. D., Abbott, K. C., Jones, J. A. & Chung, K. K., 2014, In: Military Medicine. 179, 4, p. 370-374 5 p.

Extracorporeal organ support following trauma: The dawn of a new era in combat casualty critical care  
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Heegard, K. D., Tilley, M. A., Stewart, I. J., Edgecombe, H. P., Lundy, J. B., Renz, E. M. & Chung, K. K., May 2013, In: International Journal of Artificial Organs. 36, 5, p. 363-366 4 p.

#### **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.

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

Im, E. E., Stewart, I. J., Morrow, B. D., Tilley, M. A., Heegard, K. D., Aden, J. K., Chung, K. K. & Cotant, C. L., Aug 2012, In: Military Medicine. 177, 8, p. 952-956 5 p.

#### **The acute kidney injury network (AKIN) criteria applied in burns**

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.

#### **Association of AKI with adverse outcomes in burned military casualties**

Stewart, I. J., Tilley, M. A., Cotant, C. L., Aden, J. K., Gisler, C., Kwan, H. K., McCorcle, J., Renz, E. M. & Chung, K. K., 1 Feb 2012, In: Clinical Journal of the American Society of Nephrology. 7, 2, p. 199-206 8 p.

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**

Morrow, B. D., Stewart, I. J., Barnes, E. W. & Cotant, C. L., Apr 2010, In: Clinical and Experimental Nephrology. 14, 2, p. 137-143 7 p.

#### **Successful treatment of severe pneumocystis pneumonia with clindamycin-primaquine in an HIV-negative patient**

Crisp, H. C., Stewart, I. J., Blatz, P. J., Rice, D. H. & Okulicz, J. F., Nov 2009, In: Southern Medical Journal. 102, 11, p. 1161-1163 3 p.

#### **A case of new onset Crohn's disease after renal transplantation**

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

**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 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

**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

**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. (Col), Zhou, X. (PI) & Burmeister, D. (Col)

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. (Col)

23/09/24 → 30/09/26