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1. DHP15B-001: Conversion to Universal Plasma

Release Date: 04-24-2015Open Date: 05-26-2015Due Date: 06-24-2015Close Date: 06-24-2015

Demand for plasma-based therapies continues to rise. In the US alone, there were ~29 million donations of plasma in 20131. Plasma-based therapies are also in high demand in the military. Warfighters with combat casualties often require massive plasma transfusions for trauma, shock, burn injury, and emergency surgery. Today, only Type AB blood donors, who account for only 4% of the overall donor po ...

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2. DHP15B-002: Laser and Lightwave Therapies for Wound Healing Application

Release Date: 04-24-2015Open Date: 05-26-2015Due Date: 06-24-2015Close Date: 06-24-2015

Since 8 December 2007, the war in the Middle East has seen over 30,000 soldiers injured in combat with the majority of these injuries occurring the last few years [1]. Despite the type of the injury, the majority of the wounded have suffered some degree of soft tissue injury which needs to be addressed. Since these soldiers endure harsh conditions and their wounds are much more likely to become in ...

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3. DMEA15B-001: Optimized Scintillator for High Resolution X-ray Imaging at 9keV

Release Date: 04-24-2015Open Date: 05-26-2015Due Date: 06-24-2015Close Date: 06-24-2015

Rapid Integrated Circuit (IC) inspection using x-ray microscopy requires novel x-ray scintillating materials with high efficiency and high spatial resolution. Current scintillator materials, such as Cesium Iodide (CsI), suffer from a trade-off between efficiency and spatial resolution. Novel materials with higher stopping power and light yields are necessary to address the stringent requirements o ...

STTR Defense Microelectronics ActivityDepartment of Defense

4. DHP14-001: Reducing the Burden on Military Tactical Networks by Lowering the Impact of Digital Medical Image Transmissions

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Seek methodologies and emerging technologies to reduce the burden on the military"s tactical networks derived from the transmission of digital medical imagery. DESCRIPTION: Recent military conflicts and humanitarian relief operations have placed new demands on healthcare providers in terms of providing medical diagnoses for injuries from remote locations as part of an ever-expanding ...

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5. DHP14-002: Computer-Generated, Synthetic Medical Images and Complex Narratives for Use in Healthcare Informatics Research

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: As a first objective, conduct basic and applied research surrounding new technologies to computer-generate completely synthetic, complex, medical text narratives for subsequent use in clinical informatics research and healthcare information technology feasibility studies. As a second objective, conduct basic and applied research surrounding new technologies to computer-generate complete ...

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6. DHP14-003: Mobile Application for Improved Sleep through Sleep Hygiene Training Feedback

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Design, develop and deploy a mobile application which provides sleep hygiene training feedback and cueing to improve sleep quantity and quality. DESCRIPTION: The U.S. Army Surgeon General has defined the Performance Triad as a component to improve the readiness and resiliency of U.S. Army personnel (Bermudez, 2013; USAPHC Public Affairs Office, 2012). The components of the Triad ar ...

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7. DHP14-004: Rapid Indicator of Potential for Weight Gain/Loss & Trending

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop a commercial; off the shelf test for daily assessing an individual"s biochemical modality for weight loss or gain potential before the weight change is observable (as measured on a scale in pounds). DESCRIPTION: Problem: Obesity in soldiers impacts operational readiness of personnel, increases in health care costs for treating obesity in active duty & retired soldiers, inc ...

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8. DHP14-005: Development of a Multiplex Bioassay for Early Predictors of Multiple Organ Injury

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Define and develop existing, validated, pre-clinical biomarkers of organ-specific injury that correlate with diverse types of injury to include but not limited to systemic toxicity. Define and resolve issues involved with the use of a diverse set of biomarkers with a single multiplexed methodology. Define and resolve issues related to the isolation and use of diverse biological sampl ...

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9. DHP14-006: Application of a Wireless Finger-mounted Ultrasound Transducer and Imaging Platform

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: The objective of this topic is to develop and demonstrate a wearable finger-mounted ultrasound transducer and ultrasound imaging platform that uses wireless connectivity for image display and operator interface functions on common commercially available hand held platforms. Medics in isolated environments are now conducting FAST exams in the field to determine internal injuries before ...

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10. DHP14-007: Non-Invasive, Head-Mounted Measures of Vestibular Function

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop and test a single head-mounted device capable of measuring vestibular function to include assessment of vestibular-ocular, vestibular-auricular, vestibular-perceptual and vestibular spinal reflexes. DESCRIPTION: Dizziness and vertigo are common in nearly all reported studies of mTBI and contribute disproportionately to disability (Terrio et al., 2009). The 2009 in-theater I ...

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