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1. DHP12-001: Junctional and Non-Compressible Hemorrhage Control Training System

   Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

   OBJECTIVE: To develop a simulation-based training system to assist in teaching and training junctional and non-compressible hemorrhage control. The primary target is existing US Army / DOD military medical special operations training programs, but a secondary target could be other government agencies upon coordination with the government topic manager. The system could also have application to me ...

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2. DHP12-002: s Performance Measurement

   Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

   OBJECTIVE: To accelerate the integration of advanced sensor technology into synthetic mannequins to facilitate objective measurement of user metrics during both training and education activities. At the end of Phase I, a proof of concept must be demonstrated and at the end of Phase II an integrated prototype (Beta) must be developed and demonstrated. DESCRIPTION: Mannequins are currently a co ...

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3. DHP12-003: Anatomic 3D Synthetic Tissue Printer for Medical Training

   Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

   OBJECTIVE: Create a multi-substrate 3D printer with the ability to render high-fidelity anatomically accurate synthetic physical tissue models that can be used for anatomy, trauma and surgical training purposes. It is desired that such simulated tissue consist of multiple substances with varying physical properties, so that bone, muscle, vessels, skin and adipose or organ tissue can be simulated. ...

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4. DHP12-004: Prototype, Open-Source, Universal Healthcare Exchange Language

   Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

   OBJECTIVE: Prototype architecture to execute an open source, universal health exchange language, as described in a recent President"s Council Of Advisors On Science And Technology (PCAST) Report. DESCRIPTION: Most DOD, VHA, and civilian healthcare systems encounter significant challenges in exchanging health information due to the lack of a universal health exchange language. Without effective ...

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## 5. DHP12-005: Prototype Application of Mobile, Cloud-based, Watson-Like Technologies for TBI/PTSD Clinical Decision Support and Predictive Analytics

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Explore the use of natural language and clinical language understanding technologies, combined with IBM Watson-like technologies, to predict provisional diagnosis, provide clinical decision support, predictive analytics, and improved outcomes for mild TBI and PTSD patients. Develop a mobile, cloud-based architecture that can integrate with existing or improved clinical workflow, and tie ...

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## 6. DHP12-006: Cohort Builder for Healthcare Quality Assurance and Comparative Health Effectiveness Research

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Define and prototype architectural alternatives resulting in an easy-to use cohort builder for clinicians, nurses, and QA personnel. The cohort builder would be used for conducting quality assurance and comparative health effectiveness research; to recapitulate findings in the literature; and to remediate patient care issues for chronically ill patients. DESCRIPTION: The mantra of t ...

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## 7. DHP12-007: Novel Sampling Device for the Surveillance of Adult Flying Insect Vectors

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Develop a novel freestanding, lightweight, compact, portable sampling device to collect a broad spectrum of adult flying insect disease vectors. DESCRIPTION: Vector borne disease historically ranks among the leading causes of Disease and Injury (D&I) among U.S. service members deployed in support of military operations. Entomologists perform vector surveillance in order to mitigate t ...

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## 8. DHP12-008: Multisegmental Sensor Integration for Balance Control

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Develop and optimize integration of networked sensors located on torso and appendages of body to assess accurate center of-gravity and center-of-pressure in real time. DESCRIPTION: The most frequent and challenging symptom experienced by military personnel exposed to IED or concussive events is dizziness or loss of balance (Balaban 2009). Balance is also an issue for warfighters who ...

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## 9. DHP12-009: Ear Protection Validation System

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Develop a user-friendly, portable, universal hearing protection device (HPD) field attenuation estimation system (FAES) that deployed or garrison personnel can use to measure the effective noise protection provided by a hearing protection device or system that is fit and worn in the field. DESCRIPTION: It is generally understood that hearing protection devices typically fail to provi ...

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## 10. DHP12-010: Self Powered Biosensors

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Self-powered wearable biosensors will be developed to provide continuous health monitoring, in particular respiratory effort, and ECG monitoring. It will be demonstrated that wearable biosensors can be self-powered by harvesting ambient energy or monitored physiological signals. DESCRIPTION: Self-powered wearable biosensors could provide a powerful tool for continuous medical monit ...

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