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1. DHP13-001: Humeral Head Intraosseous Training System

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: To develop a simulation-based training system to assist teaching and training the use of intraosseous (IO) devices in the humeral head to administer fluid to patients at point of injury. DESCRIPTION: Over the past few years, the British Medical Emergency Response Team (MERT) and US Air Force Search and Rescue Unit (aka, PEDRO) have been administering fluids to patients at point o ...

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2. DHP13-002: Automated Non-Invasive Cognitive Load Assessment for Medical Training Effectiveness and Safety

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: Effective team performance is critical during medical emergencies and combat trauma situations. The goal is to make medical team training exercises more useful to participants and more readily interpretable by instructors. The desired result is improved capability to measure -- automatically & noninvasively -- team performance, team dynamics, individual performance, individual cognitiv ...

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3. DHP13-003: Long-lasting Disposable Insecticidal / Repellent Fabric Barrier for Personal or Area Protection Against Biting Arthropods

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: Develop fabric barrier with long-lasting repellent and/or insecticide for protecting deployed personnel against biting arthropods, for military use. Product must have potential for EPA registration and use compounds with low mammalian toxicity. DESCRIPTION: Protection of deployed ground forces from disease-carrying insects requires the immediate and safe use of insecticides, repell ...

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4. DHP13-004: Militarized Formulation and EPA Registerable Attractive Targeted Sugar Bait for Insect Vector Control

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: Develop sugar-based vector control bait product, formulated and packaged for military use, with potential for EPA registration. Product must use insecticides effective for killing target vectors, but have low mammalian toxicity and minimal impacts on non-targets. DESCRIPTION: Protection of deployed ground forces from disease-carrying insects requires the immediate and safe use of ...

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5. DHP13-005: Rapid ID of Microbial Pathogens From Food, Water and Environmental Samples

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: To develop a field-ready kit for the rapid (max 8 hours) identification, quantification, and viability of microbial pathogens (bacterial, viral, and eukaryotic) from food matrices, water, and environmental samples. Direct or indirect detection of biological toxins is also desired. A developed kit will emphasize ease of use by technicians who are relatively lab-inexperienced, and an a ...

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6. DHP13-006: Sporozoite Vaccine Administration Method

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: To develop an innovative method for administering a malaria sporozoite vaccine that provides efficient access by the sporozoites to the intravascular space, thereby mimicking direct intravenous (IV) delivery. This innovative method should contrast with traditional intramuscular (IM), subcutaneous (SC) or intradermal (ID) methods delivering sporozoites primarily to the interstitial spac ...

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7. DHP13-007: Development of a Vector Arthropod (Tick and Flea) Pitfall or Sticky Trap with CO2 Attractant

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: The development of a tick and flea sticky or pitfall style trap to be used for field surveillance which employs a deployment sound source of CO2. DESCRIPTION: Current methods for trapping ticks and fleas by DoD personnel are not as effective as should be given the peer reviewed literature which documents what serves to attract and trap off-host tick and flea species known to carry ...

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8. DHP13-008: A software tool to assess injury risk and maximum allowable exertions for repetitive, forceful one hand and two hand shoulder push/pull motions

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: Develop injury criteria, an assessment methodology, a risk analysis software tool and design criteria for repetitive, forceful one and two hand shoulder push/pull motions performed for variable (brief to long) durations while operating military equipment. The injury criteria, assessment methodology and analysis software will be used to evaluate injury risk from man-machine interaction ...

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9. DHP13-009: A Software Tool to Assess Injury Risk Associated with Mechanical Exposures From Wearing Head Supported Mass

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: Develop injury criteria, methodology, and a software tool to assess the risk of neck injury from loads sustained while wearing head supported mass. The software will characterize the hazards endemic to the ground combat environment and will be used to evaluate products and recommend less hazardous designs and usage scenarios. DESCRIPTION: It is imperative that equipment issued to S ...

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10. DHP13-010: A Human Body Model for Computational Assessment of Blast Injury and Protection

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: Formulate, develop and demonstrate anatomically consistent, articulated human body model for computational assessment of explosion blast injury loads, body responses and casualty estimation and for analysis of personal protective equipment. DESCRIPTION: Blasts from improvised explosive devices (IEDs) are the most common cause of wounded-in-action injuries and death in recent milita ...

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