**Gulf War Research Portfolio**

**VHA Office of Research and Development / Victor Kalasinsky**

June 18, 2012

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### 10-Year (FY 2001-2010) Funding Trends for GW Research in Millions of Dollars

<table>
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*(DoD estimate for FY 2010 does not include CDMRP funds.)*
Gulf War Research Funding – DoD, HHS, VA

10-Year (FY 2002-2011) Funding Trends for GW Research in Millions of Dollars

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(DoD estimate for FY 2011 does not include CDMRP funds.)

Funded Gulf War Research Projects – DoD, HHS, VA

Cumulative Number of Funded Projects (FY2002 – FY2011)
Recent Gulf War Research Projects

Completed in FY2010:
- Effects of Gulf War Illness on Brain Structure, Function and Metabolism: MRI/MRS at 4 Tesla
- Immunologic Mechanisms and Biomarkers in Gulf War Illness
- Diarrhea-Predominant Irritable Bowel Syndrome in Persian Gulf Veterans
- Behavior of Neural Stem Cells in a Rat Model of GWS
- Multiple Sclerosis in Gulf War Veterans

Completed in FY2011:
- Tissue Factor and Gulf War-Associated Chronic Coagulopathies
- Autonomic Functions of Gulf War Veterans with Unexplained Illnesses
- Motor Neuron Function of Gulf War Veterans with Excessive Fatigue
- Genetic Epidemiology of ALS Veterans
- Testing the Feasibility of MC CBT for Veterans with IBS
- A Pilot study of CPAP Adherence Promotion by Peer Buddies with Sleep Apnea
- Transcription factors regulating sensory gene expression and pain pathways
Active Gulf War Research Projects

Active:
- Bacterial Overgrowth Associated with Chronic Multi-Symptom Illness Complex
- Differential Gene Expression in Pathologies Associated with Neuronal Hyperexcitability: Links to Gulf War Illness
- Imaging Pain Modulation in Gulf War Veterans with Chronic Muscle Pain
- Bacterial Host Defense Mechanisms in Polyaromatic Hydrocarbon Carcinogenesis
- Somatic hypersensitivity in Veterans with IBS
- Lipoic Acid Therapy for Experimental Autoimmune Encephalomyelitis
- Multiple Antigenic Peptides to Alter the Course of Autoimmune Disease
- Immunoregulation of Myelin Specific T Lymphocytes
- Central Mechanisms Modulating Visceral Sensitivity
- Evaluation of MEG Synchronous Neural Interaction Test in PTSD
- Neuroprotection and Myelin Repair Mechanisms in Multiple Sclerosis

Active Gulf War Research Projects

Active:
- Sleep Neurobiology and Circuitry
- Prevention of Hippocampal Neurodegeneration Due to Age and Apnea
- Epigenetic Mechanisms Relevant to the Pathogenesis of ALS
- A randomized controlled trial of a mindfulness based intervention for Gulf War Syndrome
- Impact of exercise training on pain and brain function in Gulf War Veterans
- Nanoparticle Coupled Antioxidants for Respiratory Illness in Veterans
- Understanding Pain of Gastrointestinal Origin in Women that Serve in OEF/OIF
- Randomized Trial of a Formal Group Program for Fatigue in Multiple Sclerosis
- Memory and Mood Enhancing Therapies for Gulf War Illness
- MEG Synchronous Neural Interactions (SNI) in Gulf War Veterans
- rTMS for the Treatment of Chronic Pain in GW1 Veterans
Gulf War Research – Requests for Applications (RFAs)

Biomedical Laboratory Research & Development (BLR&D):

BX-12-011
Award for Research on Gulf War Veterans’ Illnesses (GWVI)
BX-12-012
Pilot Projects for Research on Gulf War Veterans’ Illnesses (GWVI)

Clinical Science Research & Development (CSR&D):

CX-12-011
Award for Research on Gulf War Veterans’ Illnesses (GWVI)
CX-12-012
Pilot Projects for Research on Gulf War Veterans’ Illnesses (GWVI)
CX-12-013
Award for Research on Treatments for Gulf War Veterans’ Illnesses (GWVI) – (clinical trial)

Gulf War Research – Other Activities

• Cooperative Studies Program (CSP)
• Institute of Medicine (IOM) – Treatments for Gulf War Veterans’ Illnesses
• Gulf War Veterans’ Illnesses Task Force (GWVI-TF)
• Annual Report to Congress
• Research Meeting (Fall, 2012)
• Gulf War Research Strategic Plan