

## DEMO DAY INNOVATIONS

### FRONTLINE INNOVATIONS: PRODUCTS

- **3 in 1 CT Cushion**

Comfortable and CT-compliant cushion during CT scans

Team: Melissa Wren, RT(R)(CT)

- **Automated Clinical Calculators – a VA SMART on FHIR project**

Prototype user interface (UI) that automatically calculates clinical scores using CPRS data

Team: T. Brady Wright, MD, MBI, FAMIA; Woon Chow, MD

- **The BRAM**

Prototype of a novel assistive device to be used during lateral transfers for SCI patients with upper extremity weight bearing restrictions

Team: Ricky Hawkins, PT, DPT, EP-C

- **Belongings Buddy**

Single patient use bag to store patient's personal items to reduce risk of loss

Team: Becky Gallo, RN; Cindie Rice, MSN, RN

- **Central Line Containment System**

Securement device designed to protect central lines from water encroachment

Team: Maria Applewood, RN, M.Ed, MSN

- **E-Learning Defibrillator Simulation Module**

An educational tool for advanced medical professionals on proper and timely use of defibrillators

Team: Michael Kazior, MD; Shay Samuels, MSN, RN

- **The Intelli-Cushion System**

An intelligent wheelchair cushion cover that allows Veterans to independently monitor their seating surface pressures through pressure mapping technology

Team: Katherine Kapus, MS, OTR/L; Kathryn Beckner, MS, OTR/L

- **Neuropsychological Assessment Clinic Kit (NPACK)**

A user-friendly, self-supported, and clinically optimized all-in-one shippable kit containing equipment necessary for in-home tele-neuropsychological assessment

Team: Jessica Alva, PhD; Cleveland Tech Transfer Assistance Program: Stephanie Bailey & Dakota Noble

## **FRONTLINE INNOVATIONS: PROGRAMS**

- **Biofeedback in an Immersive Environment**

A quiet, immersive space free of distractions for biofeedback treatment within the NeuroOrrb

Team: Daniel Muluneh, PT, DPT, RYT, CBIS

- **Champions of Sleep**

Effective distribution of Quiet Kits to inpatient Veterans

Team: Natasha Mroczek, PsyD

- **Cultivating Health**

An inclusive, green space aimed at connecting Veterans to nature using a Whole Health approach

Team: Bob Boismenu, MHA

- **eHealth**

A patient centered Spinal Cord Injury & Disorders (SCI&D) telehealth program focused on Veteran and caregiver learning preferences and needs

Team: Melodie L. Anderson, DNP, RN, CTC-TP; Teodoro Castillo, MD; Connie Robinson (Volunteer-CVHCS)

SEPTEMBER 12, 2024

11:00am - 2:00pm ET - Multipurpose Room

- **Eat, Sleep, Play, and Relax: A Comprehensive Program to Support Veteran Cancer Survivors**

A theoretically based intervention specifically targeted to enhancing well-being and other outcomes for Veteran cancer survivors

Team: Carl Williams, PhD; Paige Naylor, PhD; Carrie Miller, PhD; Bernard Fuemmeler, PhD

- **Empowering Mobility in Patients with Pressure Injuries**

Alternative to bedrest for Veterans with SCI and pressure injuries using a standing power wheelchair

Team: Kathryn Gates, PT, DPT; Lance Goetz, MD; Laurel Hackett, PT, DPT; Jean McCauley, PT, DPT, CWS

- **Evidence Based Innovation for Investigational Drugs**

Improved communication on Veterans' clinical trial status and the medications/therapies safe and approved for use with investigational drugs

Team: Charul Patel, RN, BSN, CCRN; Gilles Hochong, DNP, FNP-BC, AF-AASLD; Angela Davis; Lori Guthrie MBA, MT (ASCP); T. Brady Wright, MD, MBI, FAMIA; David Mangum; and MIRB Staff

- **Lifestyle Intervention using Digital Therapeutics for Veterans with NAFLD**

Prototype integrating a customized interactive digital therapeutics platform for lifestyle intervention for Veterans with Non-Alcoholic Fatty Liver Disease

Team: Puneet Puri, MD; Michael Fuchs, MD, PhD, FAASLD, AGAF, FEBGH; Hochong Gilles, DNP, FNP-BC, AF-AASLD

- **Less Gas, More Green**

A human-centered design approach to promote environmental sustainability through the incorporation of low-flow anesthesia practice across the VA

Team: Samuel Smith, CRNA, USN Veteran

- **Nurse-Led Transitional Stroke Clinic**

Specialized outpatient follow-up stroke care program for Veterans

Team: Christi Shah, BSN, RN, CCRN; Sherita Chapman, MD, FAHA; Kiyana Jenkins, BSN, RN; Natacha Jean-Noel, DNP, APRN, ANP-C, GNP-BC

- **Project X**

A standardized, comprehensive onboarding and training process for SCI Spoke Clinicians

Team: Melodie L. Anderson, DNP, RN, CTC-TP; Teodoro Castillo, MD

- **Rhythm, Purpose, Movement for Suicide Prevention**

A virtual health coaching program for Veterans using goals and routine to build resiliency, emotional regulation, and improved well-being

Team: Meghan Erboe, LCSW

- **Spinal Cord Injury Integrated Patient and Staff Wellness Program**

An Integrated Wellness Program on the SCI&D unit for patient and staff populations

Team: Cathy Williams-Sledge, PsyD, LCP; Kelvin Allen, LPN; Melodie Anderson, DNP, RN, CTC-TP; Mohammed Bhuiyan, MD; Amye Clites, LPN; Rochelle Daniels, RN; Lance Goetz, MD; Cadeidra Green, MS, KT; Keyshawn Simmons, CTRS

- **Veteran-Centric Healthcare Experience Tool**

Prototype software that improves Veteran experience before, during, and after appointments

Team: Jeffery Warner, MHA; Stefan Ianchulev, MD

- **Veterans SMART Network**

A program that helps Veterans overcome addictive behaviors by developing trained SMART Recovery® Facilitators and using a supportive network that aims for sustainable recovery and improved well-being

Team: Rob Martin, LCSW, CSAC; Greg Edwards; Archie Barnes-Bey, CPRS CSAC-S; Harry Simmons, EdD, DMin, LPC-R, CSAC-S; Greg Ruffin, CPRS

## EXTENDED REALITY

- **Immersive Therapy for Gynecologic and Urogynecologic Outpatient Procedures**

A survey-informed, personalized, audio-visual experience to improve Women Veterans' experience during in office urogynecologic and gynecologic procedures

Team: Lauren Siff, MD; Kayla Thompson, PT, DPT; Christine Farrell, MSN, WHNP-BC; Kathleen Jones, MSN, FNP-BC

- **Treating Veteran Substance Use Disorders with Transcending Self Therapy using Virtual Reality (TST-VR)**

VR platform that builds group and individual therapies for Veterans with substance use disorders

Team: Jarrod Reisweber, PsyD, EdS; Brian Meyer, PhD; Kathryn Pollack, PhD; David Pomm, PhD

- **Virtual Reality Rehab Pilot**

A national VR pilot project in collaboration with Penumbra, Inc. to use the REAL System y-series to develop targeted therapy software and program solutions that address the most critical needs within the Veteran population, particularly within rehabilitation

Team: Peter Disalvo, PT, DPT; Shannon Parker, PT, DPT; Smita Kastury, PT, DPT

- **VR Chronic Pain and Suicide Prevention Pilot**

A national VR pilot project in collaboration with Penumbra, Inc. to use the REAL X series designed to impact chronic pain and suicide prevention.

At CVHCS, headsets are being piloted in the area of Neuropsychology on Spinal Cord Injury and Polytrauma and in the Ketamine Clinic.

Team: Megan Geiss, PhD; Khaleedah Dannouf, DMSc; Tammy Wildgoose, PhD

## COLLABORATIONS

- **Aurie Reusable Catheter System**

Evaluation on the Aurie reusable intermittent catheter system to impact future design of the System and health care delivered to Veterans

Team: Shelia Wright, MSN, RN

- **Bridge the Gap**

Transfer board attachment for ease of transfers

Team: Luke Florio; Dane Nielsen; Michael Polhemus; Shannon Parker, PT, DPT

- **Medivis Surgical Augmented Reality**

3-dimensional renders of CT/MRI scans that can be viewed and manipulated using an AR device

Team: Jeffery Warner, MHA; Elle Beynnon (Medivis)

- **Richmond Office of Advanced Manufacturing (ROAM)**

A national program office in the VHA implementing cutting-edge manufacturing technologies, such as 3D printing, in health care

Team: Melissa Oliver, MS, OTR/L; Brian Burkhardt, ATP; Eric Bryant; Carson Stewart; Yeajin Cho; Grace Vanorman; Jeff Frankart; Brandon Sekle-Davies

- **VibroGuide**

A collaboration to expand the functional application of VibroGuide technology to assist blind patients, as well as others, for full immersions in their outdoor therapy experience

Team: Jim Riley

Participating Innovation Centers: Central Virginia VA Healthcare System; Gainesville VA Medical Center; VA Central Ohio Healthcare System; Minneapolis VA Health Care System; VA Greater Los Angeles Healthcare System; VA Sierra Nevada Health Care System