

# LIMBIC-CENC KNOWLEDGE TRANSLATION

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Ronald T. Seel, PH.D.

David X. Cifu, M.D.



# Bottom Line Up Front

- **Main Aim**: Develops and disseminates LIMBIC-CENC evidence-based products on mTBI and associated health conditions tailored to each user's needs to improve knowledge, clinical practice, and people's lives
- **Current Status**: Have worked with Consumer Advisory Board (CAB) and other end users to polish products
- **Clinical Deliverables**:
  - Dementia risk prognostic tool is ready for deployment; lay abstracts and post cards are completed for all LIMBIC-CENC registry studies
  - LIMBIC-CENC research publication database is deployed with ~300 peer-reviewed articles
- **1-year goal**: to establish broad communications network to disseminate LIMBIC-CENC evidence and products using targeted delivery strategies
- **End of Cycle Goal**: to create and disseminate clinician training modules and webinars



# Overarching Goal, Impact of Knowledge Translation Core

- KTC provides consumers, clinicians, researchers, and the public with evidence-based information on mTBI to improve knowledge, clinical care and people's lives
  - LIMBIC-CENC grant closes military and veteran knowledge gaps on mTBI and associated psychological health conditions
  - KTC translates mTBI evidence to improve decision-making capabilities, interventions and outcomes across the continuum of care
- KTC products empower consumers and clinicians to...
  - access the right health information for the right medical condition at the right time
  - feel knowledgeable, weigh options, and make informed 'next step' decisions to personalize care
  - take proactive steps to live healthy lifestyle, prevent health conditions, and reduce dementia risk



# Project Status

- Progress →
  - On target with clinical and research deliverables
  - Expanding use of Consumer Advisory Board for input and feedback
  - Website as 'record of truth' continues to expand, evolve and improve
- Challenge →
  - Balancing 'four-legged table': **Best Practice — Product Volume — Time — Cost/Budget**
- Opportunities →
  - Seeking additional funds to increase product volume and reduce time
- COVID-19, external factor impacts →
  - Dominion Energy Charity Golf Classic (Pandemic)
  - Biogen (External scientific review)



# Clinical Deliverable Updates

- **My Dementia Risk Profile** for Servicemembers and Veterans
  - Survey → Identifies modifiable risk factors and level of dementia risk
  - Personalized report → Provides recommendations to reduce dementia risk
  - [DEMONSTRATION]
- **Dementia Risk Fact Sheet**
  - Clinician, Veteran versions
  - [DEMONSTRATION]
- **Other Updated Products**
  - Postcards, lay abstracts
  - ‘LIMBIC-CENC Clinic Care Monograph’
- **Target April 2022** → Create 2-minute audiovisual presentations on core findings



# Research Deliverable Updates

- **LIMBIC-CENC Searchable Publication Database**
  - Long-term research publication storage; search filter to identify research articles of interest
  - Table of filtered articles sortable by Title, Author(s), Publication Journal, or Year Published
  - 290+ LIMBIC-CENC related research abstracts and articles (thru 2/28/2021)
  - **[DEMONSTRATION]**
- **Special Issue, *Brain Injury (Journal)***
  - *Practical Approaches to Assessing and Mitigating the Risk of Cognitive Decline after Concussion: Findings from the Long-term Impact of Military-relevant Brain Injury Consortium (LIMBIC)*
- **Veterans Dementia Awareness and Education Campaign, \$1.5M proposal, Biogen**
- **Target April 2022** → *Brain Injury*, Special Issue; associated products completed



# Best Practice, Lessons Learned

- Is “the best the enemy of the good” or is “good the enemy of great”?
  - Recognize point of diminishing returns
  - Popper rules science; Darwin rules the rest of the world
  - Phased approach; release often (a product stuck in development helps no one)
- Biogen proposal provided unanticipated learning opportunities
  - Developed cognitive map for leading awareness and education campaigns
  - Evaluations of previous Veterans Education and Awareness Campaigns
- Use of consumer input, feedback
  - End goal is saturation, not consensus
  - Maintain the value of knowledge, evidence and clinical expertise



# Summary

- **Research Deliverables:**
  - Dementia risk prognostic tool is ready for deployment; lay abstracts and post cards are completed for all LIMBIC-CENC registry studies
  - LIMBIC-CENC research publication database is deployed with ~300 peer-reviewed articles
- **One-Year Goals**
  - Create 2-minute audiovisual presentations on core evidence-based findings
  - Establish broad communications network to disseminate evidence and products using targeted delivery strategies
  - Set-up comprehensive analytics to track impact: product access, change in access following announcements, newsletter distribution, etc.
  - *Brain Injury Special Issue* and associated products completed
- **End of Cycle Goals**
  - Clinician Training Modules, Webinars
  - External funding for KT initiatives





# Questions



# Acknowledgements

Knowledge Translation Faculty and Staff	Projects
Amma Agyemang, Asst. Prof., Data and Biostatistics Core Co-PI	Publication Database - Dementia Risk Tool
William Carne, Assoc. Prof., Sci. Advisory Board Director,	Dementia Risk Tool - Publication database - Consumer Products
David Cifu, Prof., M-PI, LIMBIC-CENC, Co-Director KTC	Dementia Risk Tool - Consumer Products - Funding - Collaborations
Kyle Healey, Full Stack Developer, Website Design, Programming	Publication Database - Dementia Risk Tool - Consumer Products
COL Sidney Hinds, (Retired), LIMBIC-CENC External Collaborations	Consumer Products –Funding – Collaborations
Sudeep Karki, Data Center Manager, Website Design and Review	Publication Database - Dementia Risk Tool - Consumer Products
Amol Karmarkar, Prof., Director, CERSE Health Services Research and Policy	Dementia Risk Tool
Lauren Nagasugi, Research Coordinator, Data Specialist	Publication Database - Consumer Products
Roxana Parnian, Research Coordinator, Graphic Design	Dementia Risk Tool - Consumer Products
Joseph Montanari, Military and Research Coordinator	Dementia Risk Tool - Consumer Products
Ronald Seel, Prof., Co-Director, LIMBIC-CENC Knowledge Translation Center	Pub. Database - Dementia Risk Tool - Consumer Products - Funding - Collaborations
LTC Kevin Sickinger (Retired), Director, LIMBIC-CENC Coordinating Center	Dementia Risk Tool - Consumer Products
William Walker, Prof., Chair, LIMBIC-CENC Prospective Longitudinal Study	Publication Database - Consumer Products
LIMBIC-CENC Consumer Advisory Board	Dementia Risk Tool - Consumer Products – More to Come
All LIMBIC-CENC Researchers	Publication Database - Consumer Products – Brain Injury Special Issue



# Project Status Table (if needed)

Major Task	Subtasks	Responsible	Due
<b>Clinician, Veteran, and Service Member Products</b>	Develop lay abstracts, key findings, 'postcards' for PLS pubs	RS, WC, LN	Monthly
	Incorporate new research findings into 'Clinical Pearls'	WW, WC, RS	Quarterly
	Update website with new products	KH, AA	Quarterly
	Develop new products, website updates, and user requested items	RS	On-going
<b>My Dementia Risk Profile</b>	User input, feedback on dementia risk profile and action steps	RS, KS	On-going
	Program-test-revise dementia risk factor survey risk profile	KH, AA, RS	On-going
	Deploy new 'My Dementia Risk Profile' on website	KH, AA, RS	~2-5-21
	Develop new features for usability, accessibility and user requests	RS, KH, AA	On-going
<b>Searchable Publication Database</b>	Literature search for LIMBIC and related research pubs	RS	Quarterly
	Organize data and format, code all research fields, quality test	LN, TBH, RS	Quarterly
	Program all new study information into database, quality test	KH, AA, RS	Quarterly
	Develop new features for usability, accessibility and user requests	RS, KH, AA	Quarterly
<b>Outreach</b>	Develop communication network for V.A., DoD clinicians, researchers	RS, RP, AA	5-1-2021
	Produce and disseminate announcements, news, newsletters	RS,	6-1-2021
	Identify and develop clinician training modules	TBH, KS?	12-1-2021
	Expand delivery strategies, social media, etc.	TBH	On-going
<b>Identify and Obtain KT-related grant funding</b>	Biogen Pharmaceuticals Dementia Awareness Campaign	RS, SH, DC	On-going
	KT Center Grant from V.A.?	RS	TBD
	Other funding opportunities	RS	On-going
<b>GSC and Other Administrative Reporting</b>	Update data dashboards	RP, AA, WW	Quarterly
	Further develop KT analytics, tracking and reporting data	RS, AA, Sudeep	Monthly
	BLUF finding(s) regarding the impact on SMs/Vs	RS	GSC Meet
	Best KT practices and/or lessons learned	RS	GSC Meet

