

### Enhancing Cancer Care of Rural Dwellers Through Telehealth and Engagement

### June 11, 2021 12:00 PM - 1:00PM EST

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#### **Featured Presenter**



#### Debra L. Friedman, M.D., M.S.

Associate Director for Community Science and Health Outcomes Co-Leader, Cancer Health Outcomes and Control Research Program E. Bronson Ingram Chair in Pediatric Oncology Professor of Pediatrics (Pediatric Hematology and Oncology) Director, Pediatric Hematology and Oncology Vanderbilt University

Title: Enhancing Cancer Care of Rural Dwellers Through Telehealth and Engagement

# **Background: Rural Health**

20% of Americans live in rural areas

Elevated cancer incidence and/or mortality in rural compared to urban communities

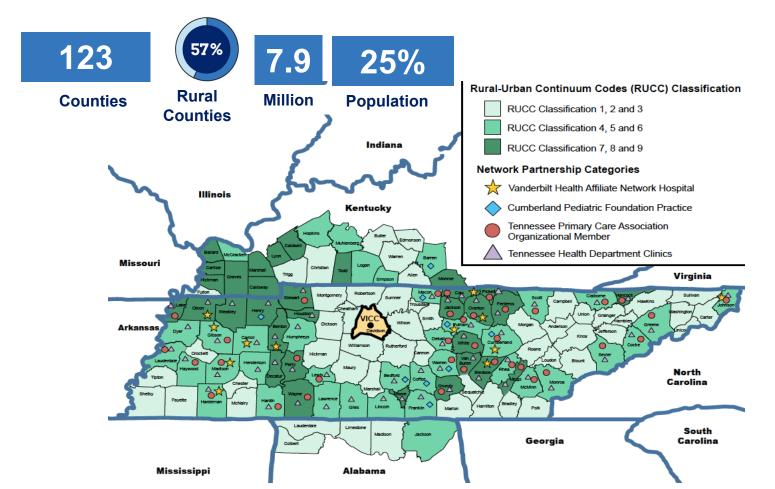
Rural counties have amongst the highest rates of poverty

Challenges: Cancer treatment, supportive care services, transportation & finances

Providers have limited access to comprehensive care



## **VICC Catchment Area**





#### EXPANDING OPPORTUNITIES AND BUILDING CAPACITY TO BRING CANCER PREVENTION AND CONTROL EFFORTS TO RURAL DWELLERS

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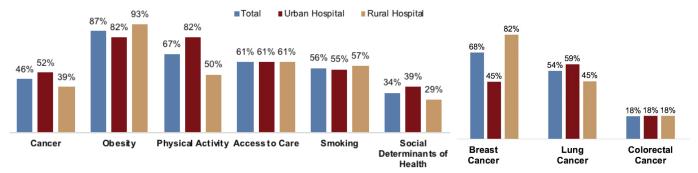
#### Expanding Opportunities and Building Capacity to Bring Cancer Prevention and Control Efforts to Rural Dwellers

- Multi-level cancer care needs assessment in 70 rural counties of the VICC catchment area
- Establish network of rural healthcare providers

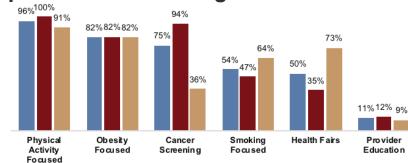


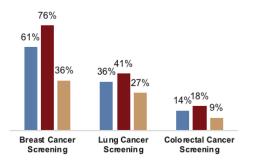
## **Community Health Needs Assessments: Comparison of Rural vs. Urban Hospitals**

#### **Priorities Selected:**



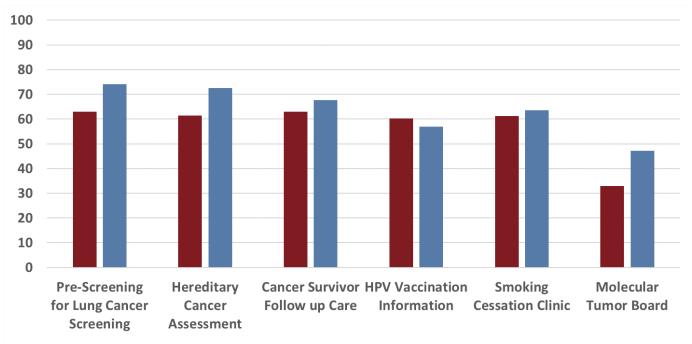
#### Implementation Strategies:





## **Telehealth Interest Survey:**

#### High/Very High Interest in Services by Rural Classification



# Advisory, Focus Groups & Key Informant Interviews

#### **Top Needs:**

- 1.Access to educational information
  - Nutrition & behavioral changes to decrease cancer risk (prevention)
     & enhance health after cancer care

#### 2.Barriers to care

- Fear of detecting cancer, lack of education
- Distance to facilities, inadequate transportation
- Insurance concerns
- 3.Better support for patients and caregivers
  - Support groups and patient navigators

#### **Recommended Strategies:**

- Access Barriers: Telehealth services and local on-site patient navigators
- Improved coordination between oncology and primary care



#### EXPANDING RURAL HEALTH CANCER CONTROL CAPACITY: FOCUS ON CANCER SURVIVORSHIP

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## **Focus on Cancer Survivorship**

To improve long-term health outcomes for underserved rural cancer survivors by building capacity to deliver risk-adapted guideline-based care focused on the unique needs of cancer survivors

Aim 1	Pilot test the implementation of guideline-based survivorship care planning in a rural setting using patient navigation plus telehealth
Aim 2	Identify the facilitators & barriers to future larger scale implementation of guideline-based survivorship care planning in rural settings





#### ENHANCING CANCER CARE OF RURAL DWELLERS THROUGH TELEHEALTH AND ENGAGEMENT (ENCORE)

R01CA240093

## Aims



Test a multi-level telehealth-based intervention for rural hospitals

Provider level: Molecular tumor board



#### **Patient level:** Supportive care intervention



Cancer: Thriving and Surviving



Study facilitators & barriers to large-scale dissemination & implementation





# **Study Sites**

- Baptist Memorial Hospital North Mississippi Oxford, MS
- Baptist Memorial Hospital Golden Triangle Columbia, MS
- Baptist Memorial Hospital Bartlett, TN
- Baptist Cancer Center Memphis, TN
- Baptist Cancer Center Memphis, TN Breast Multi-Disciplinary
- Baptist Cancer Center Grenada, MS
- Baptist Cancer Center New Albany, MS
- Ballad Health Cancer Care Kingsport, TN
- Ballad Health Cancer Care Bristol, VA





## Outcomes

Provider	Patient
Use of and adherence to Molecular Tumor Board Recommendations	<ul> <li>Primary:</li> <li>Adherence to oncology treatment plan</li> </ul>
	Secondary:
	<ul> <li>Psychosocial and functional wellbeing</li> </ul>
	<ul> <li>Patient-provider communication</li> </ul>
	<ul> <li>Progression-free survival</li> </ul>



## **Implementation Questions**

Potential barriers/ facilitators to "real-world" implementation in rural areas?

Potential modifications to maximize implementation?

Problems associated with intervention delivery and translation to real-world implementation in other rural settings?

Promising potential implementation strategies?

Evaluation of process evaluation data to explain or provide context for outcome findings?

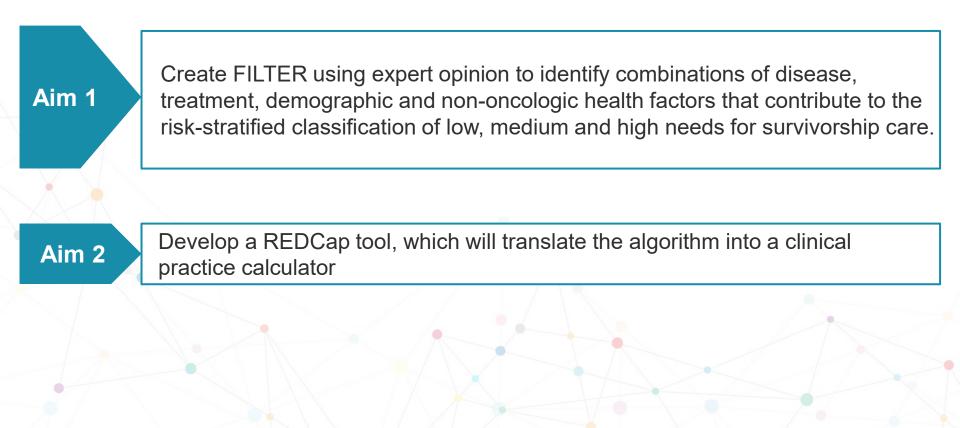
## **Patient Intervention Arms**

Weekly meetings - approx. 2 hours long via zoom - Facilitators will be at VICC streaming the weekly	Cancer Thrive & Survive: (virtual group program)	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	POST-SUPPORT INTERVENTION
	Example Content:	Fatigue Management	Problem Solving	Dealing with Emotions	Physical Activity	Pain Management	Changes to Your Body	Complete all post- intervention surveys
meetings	Location:	Patient will participate via reliable device with internet from home. If reliable device is not available, satellite site will be needed by patient.						
Intervention Arms								
	Control Arm: (online education program)	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	POST-SUPPORT INTERVENTION
Self navigated intervention - patient will receive login information for website containing all educational material	Example Content:	Overview of Self- Management	Cancer & Changes to Your Body	Making Treatment Decisions	Addressing Cancer Related Challenges	Phsycial Activity & Exercise	Pain Management	Complete all post- intervention surveys
	Location:	Patient will be	able to access edu	cational material c	omprised of 10 main	categories from a	ny reliable source	with internet/wifi.
	*Self-navigated arm which educ	will be monitored b ational material is r		0				

#### FOLLOW-UP INTERACTIVE LONG-TERM EXPERT RANKING (FILTER)

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## Aims



## Approach

Develop a risk-stratified survivorship model

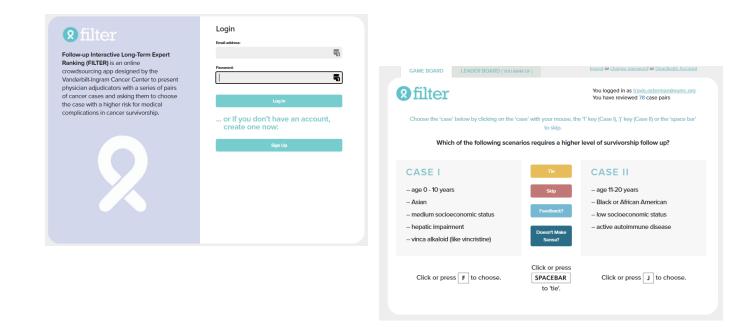
Ranking to judge the relative contribution to survivorship follow-up complexity

With iterations, a survivorship follow-up complexity score will be determined with elements will be partitioned into high, medium, and low risk categories

Using REDCap, an online calculator will be created to allow providers to enter the data and receive a recommendation of complexity survivorship follow up needs.

## **The Products**

Online expert crowdsourcing platform to assign risk scores for survivorship care using synthetic cases, generated from treatment, sociodemographic, and comorbidity risk factors



## **The Products**

A provider-facing REDCap risk calculator which will collect factors based on risk scores in the platform and return the risk level based on scores

To calculate relative risk in	survivorship, to guide survivors	hip care, please select all risk fa	ctors applicable to the patie			
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The risk score will be return SURGICAL RESECTIONS	ed below, along with resources	for the associated level of care.				
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esophagus resection	extremity resection	kidney resection	larynx resection			
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pancreas resection	prostate resection	small intestine resection	testicle resection			
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SURGICAL REMOVALS						
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#### TOOL FOR INHERITED CANCER PREDISPOSITION COUNSELING AND TESTING (TIPS) STUDY

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## Aims

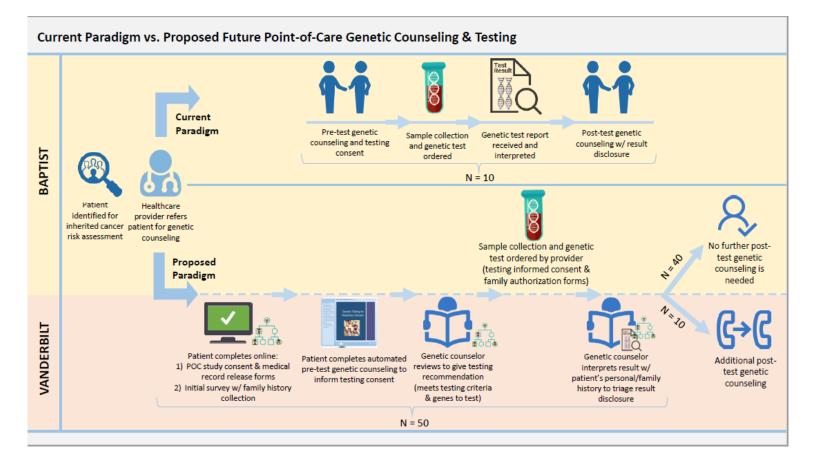


Develop and pilot test point of care genetic testing and germline genetic testing among rural cancer patients.



Assess barriers and facilitators to and impact of the process on patients and providers.

## **Point-of-Care Testing Schema**



# Value Added

#### **Prior to testing:**

#### Provide

 Inherited cancer education to patient

#### Generate

Family history

#### Determine

Whether patient meets clinical testing criteria

#### Guide

Specific tests that may be indicated

#### After testing:

 Interpret results in context of family history

Identify discrepant or complicated results

 Offer additional thoughts to interpret/clarify results for individual/family members Bringing Cancer Care To Rural Communities: Conclusions

Differences exist in cancer screening, early detection, incidence and mortality among rural counties

Rural communities are eager for increased services for their population

Partnerships must be bidirectional and take time to cultivate

Telehealth can be used to bring both research and clinical care to rural communities

## Acknowledgments



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#### RESEARCH and COMMUNITY OUTREACH TEAM

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# **Questions?**



NATIONAL CANCER INSTITUTE Division of Cancer Control & Population Sciences Healthcare Delivery Research Program

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## NCI Funding Opportunity

# Centers on Telehealth Research for Cancer-Related Care (P50 Clinical Trial Required)

#### RFA-CA-21-029

Please direct all inquiries to:

Roxanne Jensen, PhD National Cancer Institute (NCI) Telephone: (240) 276-7588 Email: roxanne.jensen@nih.gov

## Next Session – October 12, 2021



Dr. Ana Maria Lopez Sidney Kimmel Cancer Center at Jefferson

Optimizing Telehealth Across the Cancer Care Continuum During the COVID 19 National Emergency

Register: http://healthcaredelivery.cancer.gov/cyberseminars/



NATIONAL CANCER INSTITUTE Division of Cancer Control & Population Sciences Healthcare Delivery Research Program

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# **Thank You!**



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