CUSP2CT:

Connecting Underrepresented Populations to Clinical Trials

Clinical Trials and Translational Research Advisory Committee

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Multilevel Barriers to CT Referral of Racial and Ethnic Minorities

- There are multiple barriers at different levels that keep racial and ethnic minority patients from being referred to Clinical Trials (CTs)
- It is necessary to address barriers at all levels to impact referral, and future recruitment into CTs using an integrated team approach



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Strategies to Increase Participation in Clinical Trials



Prioritize Inclusive Community-Engaged Research

- Involving community as equal partners
- Conducting needs
 assessments
- Optimizing inclusive consent, recruitment, and retention strategies
- Building trust and maintaining relationships



Establish Metrics and Evaluate Impact

Implementing multifaceted approaches for evaluating:Scientific outcomes

- Clinical trials
- Patient health and behavioral outcomes
- Community engagement (reach, collaborations, partnerships, education, awareness, etc.)



Build Academic and Community Partnerships

- Leveraging resources, facilities, and expertise
- Championing community health workers and educators to establish programs, projects and community events
- Assessing collaboration readiness/processes



Promote Bidirectional Communication and Shared Decision Making

- Culturally tailoring mutually beneficial communication approaches
- Offering multi-channel communication platforms
- Leveraging catchment area data
- Reporting back results in a community-friendly manner

CUSP2CT Purpose: To **develop** and/or **adapt**, **implement**, **and evaluate** multi-level and culturally tailored outreach and education interventions with the primary goal to increase <u>referral</u> of racial and ethnic minority populations to NCIsupported clinical trials.

> CUSP2CT enhances CT participation among racial and ethnic minority populations through integrated partnerships of healthcare professionals and collaborators

A communication behavior or an action conducted by an individual (e.g., health care provider, clinical coordinator, lay health worker, patient caregiver (care partner, loved ones, friends and family, paid or unpaid, etc.)) to link a potential participant to a clinical trial.

CUSP2CT: Enhancing Existing NCI CT Programs

National Clinical Trial Network (NCTN)	NCI's Community Oncology Research Program (NCORP)	Experimental Therapeutics Clinical Trials Network (ETCTN)	Community Outreach and Engagement (COE)
Coordinates and supports cancer clinical trials at more than 2,200 sites	CT conduction and care delivery: 7 Research Bases and 46 Comm Sites & 14 minority sites	Conducting early- stage trials of cancer treatment therapies	Embedded within CCs, addresses cancer concerns in respective catchment areas

CUSP2CT: Enhances CT participation among racial and ethnic minority populations through a partnership of Community Health Educators (CHEs)/ Lay Health Advisors (LHAs), CT Coordinators (CTCs), and referring providers (PCPs and Oncologists)

NCI CTAC Strategic Planning Working Group

Recommendation PA2. Identify and pilot tactics that have high potential to improve patient recruitment and retention, including for minority and underserved patients

The CUSP2CT Program supports the Recommended Implementation Actions for PA2:

- Determine which multi-level strategies for CT participation are most successful
- Identify successful dissemination strategies
- Assess the potential value of new strategies that are of value to focal communities
 - Equitable communication
 - Outcomes valued by patients and communities
 - Expansion of workforce to ensure investigators and navigators are reflective of focal communities
- Implement strategies with flexibility and cultural humility

CUSP2CT Network Structure



Program Expectations of each U01 Grantee Site

- Leverage existing partnerships and foster new partnerships with community-based organizations to collaborate in tandem with CHEs/LHAs
- Leverage existing partnerships and foster new partnerships with referring providers to enhance the identification of potential racial and ethnic minority referrals to CTs
- Identify available and appropriate CTs that have a strong potential for positively impacting cancer health disparities
- Establish baseline data regarding community members awareness and knowledge of CTs as well as referring providers' referral of racial and ethnic minority patients to CTs
- Implement, and evaluate novel multilevel interventions to enhance racial and ethnic diversity in NCI-supported (CTs)



CUSP2CT Program U01 Sites





Intervention Example: Leveraging Artificial Intelligence (AI)

ALEX: Agent Leveraging Empathy for eXams

- Increase referral of AA/B and H/L populations to CTs in FL
- Virtual Human Technology intervention including virtual CHEs (vCHEs)

Aims & Intervention

- Assess baseline referrals and adapt scalable resources
- Implement and evaluate ALEX Research Portal with vCHEs, (n=350)
 - **Control**: Portal, CHEs + CT resources (n=175);
 - **Experimental**: Control + vCHEs (n=175)
- Disseminate ALEX portal using OneFlorida



Stefan H, Pratik, S, Bhavna A, Jiannying H. (2019). Artificial Intelligence for CT Design, Trends in Pharmalogical Sciences. 40 (8), 577-591.

Site-Specific Referral Pathway

WHO you touch	WHAT you do it	WHAT you use Participants' Clinical Trials Readiness Referral
 125 participants with or without CCT experience 350 <i>rural and</i> <i>ethnic/racial</i> <i>minority patients</i> Clinicians CHEs 	 Review all active Cancer Clinical Trial (CCT) and collect baseline data on the rate and source of patient referrals to CCTs by clinicians, CHEs and patients/community members. Stakeholder interviews (community members, PIs and coordinators) to finalize intervention. Deliver educational information and model behaviors to rural and ethnic/racial minority patients through engagement with the ALEX research portal. Evaluate the effectiveness of a vCHE intervention for increasing referral to CCTs; specifically navigating Black and Hispanic adult cancer patients and their 	 Use of virtual human technology (VHT) to improve communication with and willingness to participate in clinical research. Leverage technology (ALEX research portal) and vCHE to navigate racial and ethnic minority patients to active CCTs using digital patient-navigation resources (vCHEs). Improve communication with rural and entrollments among targeted racial/ethnic minority populations.

Program Expectations of the U24 DECC



THE DECC U24: Working Groups

The U24 DECC at Mayo Clinic provides project management expertise for CUSP2CT network activities, including data management and analysis. The DECC has formed 3 active Working Groups to support program activities.

Working Group 1:

Data Collection, Management, Statistical Analyses, Sharing and Research Dissemination

- Provide Expertise for the Collection, Harmonization, and Management of Data
- Provide Support for Networkwide Program Evaluation
- Foster Data Sharing and Dissemination of Findings

Working Group 2: Program Evaluation

- Foster Consensus Building Towards Shared Benchmarks, Metrics, and Measures
- Maintains Metrics
- Coordinated Program Evaluation Reports

Working Group 3: Learning Collaborative

- Facilitate Communication and Collaboration
- Develop Resources and Training Materials
- Disseminate Information to the Scientific and Public Communities

Constructs and Common Data Elements

The DECC is Working with U01 sites to establish Common Data Elements across seven constructs:

- CT Referral
- CT Accrual
- Minority Members' Awareness of CTs
- Minority Members' Knowledge of CTs
- Providers' Awareness of CTs
- Providers' Level of Engagement with CTs
- Providers' Levels of Referral to CTs



CUSP2CT Communication and Community









Engagement of Community Advisory Members

Developing Tailored Communication with Multichannel Approaches

Gathering Qualitative Data

Implementing Feedback Mechanisms

Active engagement of community representatives in discussions and decision-making processes for practical integration and implementation Developing targeted materials and utilizing various dissemination channels to increase reach and impact across different audiences Gathering quantitative data on user preferences, information needs, and satisfaction to make informed decisions about content and functionality improvements Establishing continuous feedback loops with audiences to refine and improve dissemination strategies to enhance the effectiveness and relevance of the communication efforts

Community Participation at 2024 Annual Meeting

- Community-led presentations
- Community roundtable
- Participation in strategy/decisions





Community Feedback from 2024 Annual Meeting

Category	Strategy	Description
Engagement & Connectedness	1. Build Relationships	Listen & engage with community members
	2. Compensation	Offer fair compensation (e.g., monetary, transportation vouchers)
	3. Public Outreach	Use Public Service Announcements in newspapers, radio, community events
	4. Storytelling	Share testimonials, spotlights, host gatherings or other culturally responsive activities that encourage storytelling
	5. Community Leaders	Train charismatic leaders as health educators and community workers
	6. Community Events	Host health fairs and workshops to educate & recruit champions
	7. Community Reports	Disseminate community reports & health letters
Decision-Making	1. Inclusive Study Design	Involve community representatives in study design, planning, implementation, and evaluation
	2. Bi-Directional Communication	Encourage open dialogue, co-learning, thoughtful feedback
	3. Representative Voices	Ensure diverse community needs are represented

CUSP2CT Accomplishments and Next Steps

Accomplishments

- U01 data collection and analysis being finalized
- **The DECC** formed three active working groups and the Steering Committee
- **Community members** as active participants
- Consensus process resulted in seven constructs
- The definition of clinical trial referral was operationalized

Next Steps

- Common Data Elements will be finalized
- **Community members** will be continuously integrated into program activities
- Interventions implemented
- **Program evaluation** ongoing

Thank you!

Collaborators and Contributors

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Discussion







How can we better engage with CTAC and leverage your expertise going forward? How **responsive** is the CUSP2CT Program to the CTAC Patient Access recommendations? What steps can we take to ensure **sustainability** of these efforts to preserve impact for years to come?

Thank you!

