Cancer Prevention & Outcomes Data Support Shared Resource

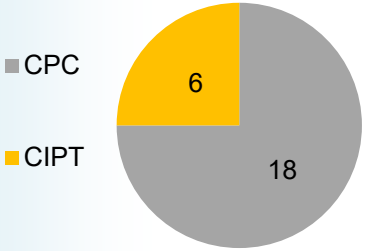
RUTGERS Cancer Institute of New Jersey
RUTGERS HEALTH

NCI Comprehensive Cancer Center
A Cancer Center Designated by the National Cancer Institute

CPODS Aims (*New* Shared Resource)

- Support developing and implementing population-science research relevant to catchment area
- Enhance impact of the Cancer Prevention and Control research program
- Provide automation of participant recruitment, tracking, data collection, and management
- Improve diversity in research by assisting catchment area studies in health disparities
- Facilitate inter-program and intra-program collaborations

Productivity, 2019-2022 (*No* CCSG support)



24 Members
New in 2023: 4

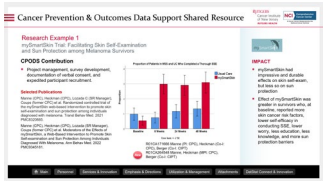
Publications

Total	19
New in 2023	3

Peer-Reviewed Grants

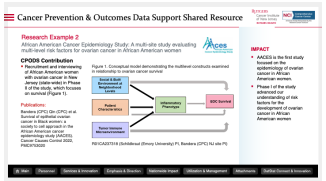
All (NCI)	9 (8)
New in 2023 (NCI)	4 (3)

CPC, CIPT



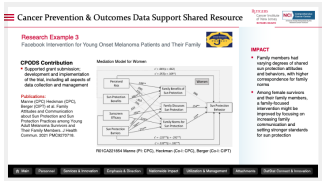
R01CA171666

CPC



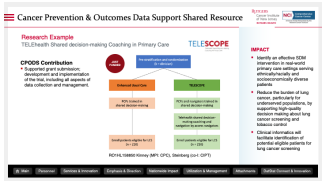
R01CA237318

CPC, CIPT



R01CA221854

CPC, CIPT



R01HL158850

Leading Personnel & Roles

Elisa V. Bandera, MD, PhD
Director

Professor and Chief, Cancer Epidemiology
CPC Program Leader, Rutgers CINJ
RWJ Medical School, Medical Oncology

Jeanne Ferrante, MD, MPH
Co-Director

Professor, RWJ Medical School
Family Medicine & Community Health
CPC Member, Rutgers CINJ

Carolina Lozada, MPH
Manager

Myneka Macenat, MPH
Research Coordinator
Qualitative Research

Jenna Howard, PhD
Research Associate
Qualitative Research

Trainees/Interns
(Spring 2023)

Aurora Lewis
Medical student, RWJMS

Nimi Patel
Medical student, RWJMS

Andrea Potesta-Oliva
Rutgers, BS in Public Health student

Services, Innovation & Growth

CPODS supports data collection and management of diverse research projects, including epidemiologic studies, randomized controlled trials of behavioral, psychosocial, or other interventions, and cross-sectional surveys and qualitative studies

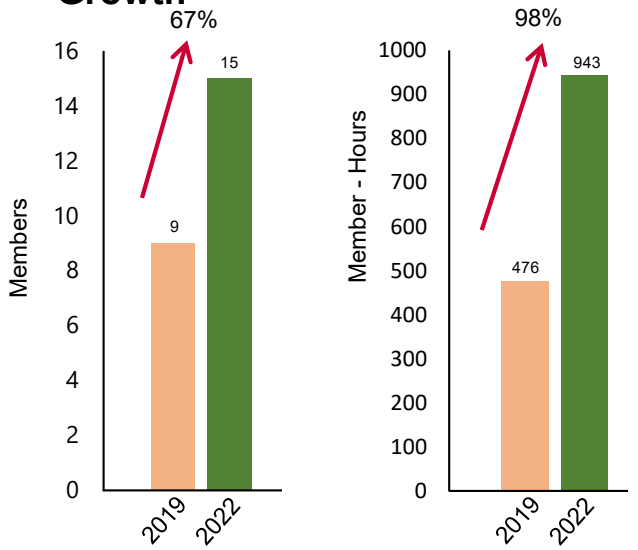
Services

- Consultation, Education, and Training
- State-of-the-Art Customized Automation
  - Sophisticated workflow engine for complex intervention studies
  - Participant Screening, Recruitment, Enrollment & Monitoring
  - Flexible Data Capture
  - Project Management
- Survey Data Collection and Management
- Qualitative Data Collection, Management, and Analysis
- Facilitation of COE research relevant to Catchment Area

Software

- DATSTAT Connect
- REDCap
- Qualtrics
- SNAP Scanning
- ATLAS.ti

Growth



Research Example 1

mySmartSkin Trial: Facilitating Skin Self-Examination and Sun Protection among Melanoma Survivors

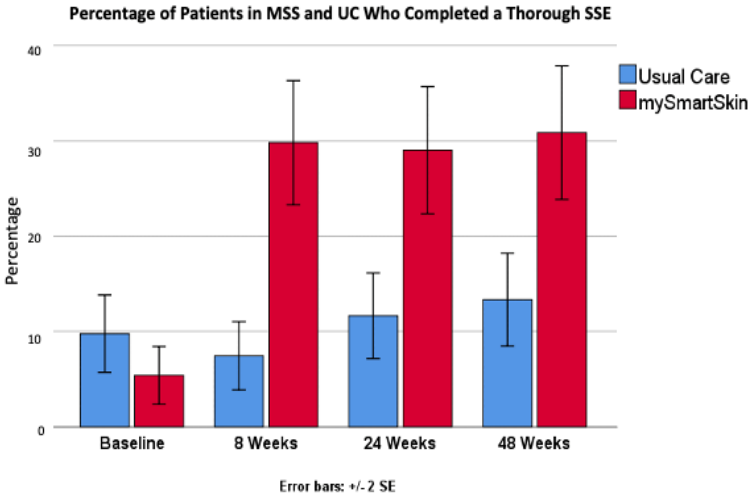
CPODS Contribution

- Project management, survey development, documentation of verbal consent, and expedited participant recruitment

Selected Publications

Manne (CPC), Heckman (CPC), Lozada C (SR Manager), Coups (former CPC) et al. Randomized controlled trial of the mySmartSkin web-based intervention to promote skin self-examination and sun protection among individuals diagnosed with melanoma. Transl Behav Med. 2021 PMC8320885

Manne (CPC), Heckman (CPC), Lozada (SR Manager), Coups (former CPC) et al. Moderators of the Effects of mySmartSkin, a Web-Based Intervention to Promote Skin Self-examination and Sun Protection Among Individuals Diagnosed With Melanoma. Ann Behav Med. 2022 PMC9345181



R01CA171666 Manne (PI: CPC), Heckman (Co-I: CPC), Berger (Co-I: CIPT)
R01CA264548 Manne, Heckman (MPI: CPC), Berger (Co-I: CIPT)

New

mySmartSkin

IMPACT

- mySmartSkin had impressive and durable effects on skin self-exam
- Effect of mySmartSkin was greater in survivors who, at baseline, reported more skin cancer risk factors, lower self-efficacy in conducting SSE, lower worry, less education, less knowledge, and more sun protection barriers
- Led to new R01 hybrid effectiveness-implementation study

Research Example 2- **Ongoing**

African American Cancer Epidemiology Study: A multi-site study evaluating multi-level risk factors for ovarian cancer in African American women

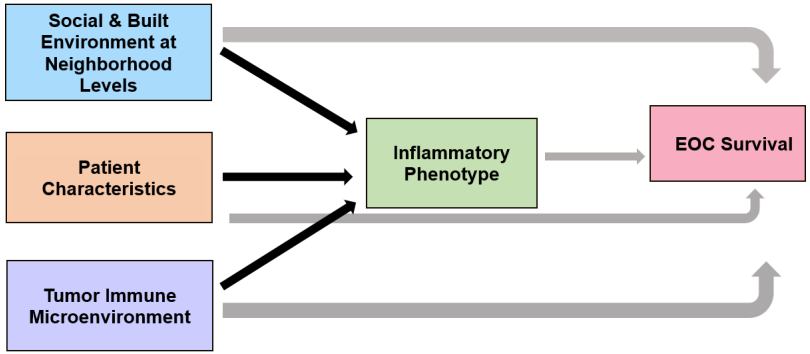
CPODS Contribution

- Recruitment and interviewing of African American women with ovarian cancer in New Jersey (state-wide) in Phase II of the study, which focuses on survival (Figure 1)

Publications:

Bandera (CPC) Qin (CPC) et al. Survival of epithelial ovarian cancer in Black women: a society to cell approach in the African American cancer epidemiology study (AACES). Cancer Causes Control 2022, PMC9753020

Figure 1. Conceptual model demonstrating the multilevel constructs examined in relationship to ovarian cancer survival



R01CA237318 (Schildkraut (Emory University) PI, Bandera (CPC) NJ site PI)

AACES African American Cancer Epidemiology Study

IMPACT

- AACES is the first study focused on the epidemiology of ovarian cancer in African American women
- Phase I of the study advanced our understanding of risk factors for the development of ovarian cancer in African American women
- Data collection is ongoing

Research Example 3- **Ongoing**

Facebook Intervention for Young Onset Melanoma Patients and Their Family

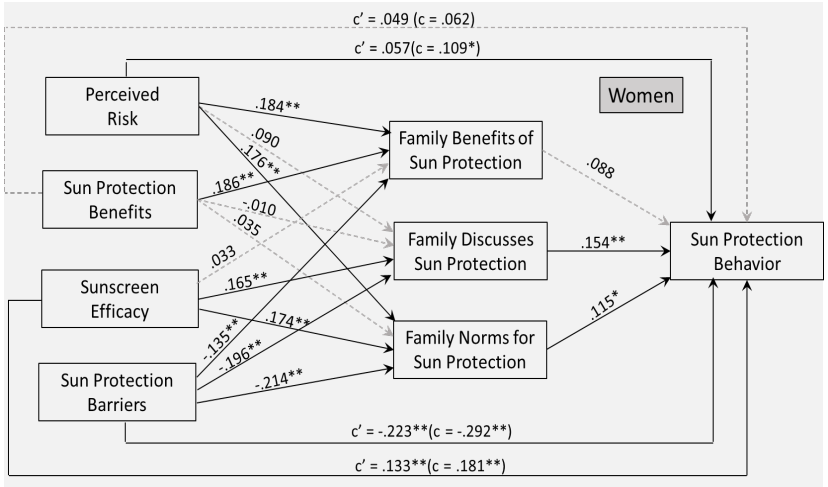
CPODS Contribution

- Supported grant submission; development and implementation of the trial, including all aspects of data collection and management

Publications:

Manne (CPC) Heckman (CPC), Berger (CIPT) et al. Family Attitudes and Communication about Sun Protection and Sun Protection Practices among Young Adult Melanoma Survivors and Their Family Members. J Health Commun. 2021 PMC9270718

Mediation Model for Women



R01CA221854 Manne (PI: CPC), Heckman (Co-I: CPC), Berger (Co-I: CIPT)

IMPACT

- Family members had varying degrees of shared sun protection attitudes and behaviors, with higher correspondence for family norms
- Among female survivors and their family members, a family-focused intervention might be improved by focusing on increasing family communication and setting stronger standards for sun protection
- Intervention is ongoing

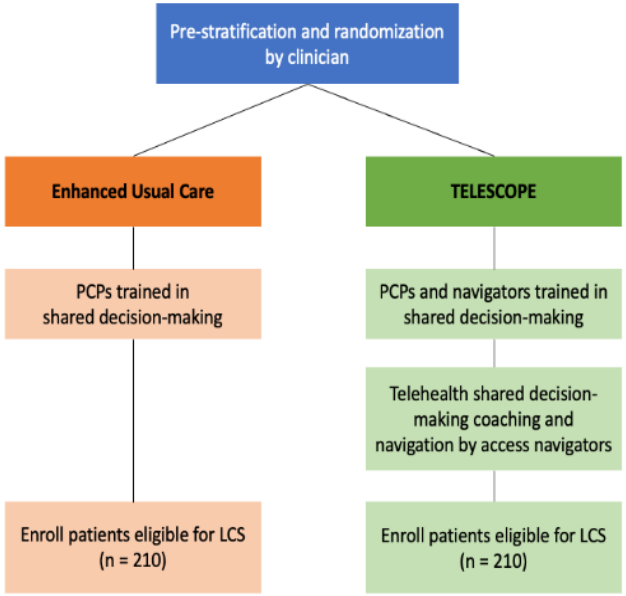
Research Example 4

JUST FUNDED

TELEhealth Shared decision-making Coaching in Primary Care

CPODS Contribution

- Supported grant submission; development and implementation of the trial, including all aspects of data collection and management



RO1HL158850 Kinney (MPI: CPC), Steinberg (co-I: CIPT)

TELESCOPE
Telehealth Shared Decision-Making Coaching in Primary Care

IMPACT

- Identify an effective SDM intervention in real-world primary care settings serving ethnically/racially and socioeconomically diverse patients
- Reduce the burden of lung cancer, particularly for underserved populations, by supporting high-quality decision making about lung cancer screening and tobacco control
- Clinical informatics will facilitate identification of potential eligible patients for lung cancer screening

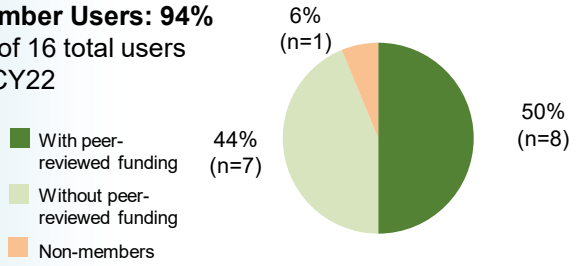
Emphasis & Future Directions

- **Support Catchment Area research**. Support CINJ strategic goal of conducting impactful, innovative, and collaborative research to address Catchment Area priorities and needs, optimize accrual of diverse populations into studies, with an emphasis towards cancer health equity
- **Leverage the resources of the new integrated health system.** Enhance participant recruitment and data capture through collaborations with the Office of Human Research Services, Biomedical Informatics, and Biostatistics to facilitate clinical trials, and use of EPIC® EHR throughout the RWJBarnabas Health system
- **Contribute to the CINJ education mission.** Develop educational seminars, workshops, and resources for Members and trainees in collaboration with Program Leaders and the CRTEC. Continue to provide opportunities for internships to undergraduate, medical, and graduate students

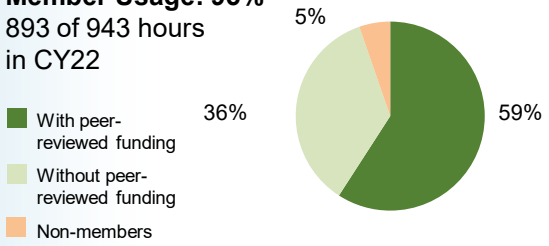
Cancer Prevention & Outcomes Data Support Shared Resource

Utilization & Management

Member Users: 94%
15 of 16 total users in CY22

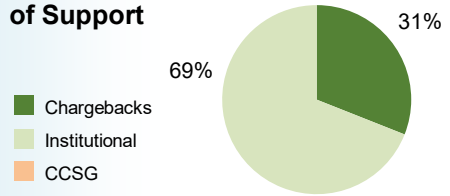


Member Usage: 95%
893 of 943 hours in CY22



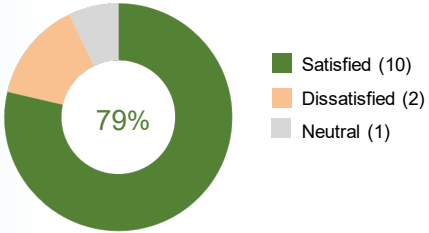
No CCSG Support to date

Sources of Support



FY24 Chargeback target: 30%

Satisfaction Survey for CY22 services



Participated:13 of 15 members (87%)

Organization & Governance

CPODS SR

2.4 FTE

SRACs

- Advisory Committee meets annually
- Discusses operational and scientific progress
- SRM supports organization

SRM

- SR Faculty Directors report to the ADSR
- SRM tracks and supports SRAC recommendations, productivity, service development, outreach

CINJ Director

- RLC
- Finance & Admin
- EAB

Supporting Information

Productivity (with no CCSG Support to date)

- Publications
- Grants
- 4-Year User List
- Projects

Advisory Committee

- FY23 Presentation
- Action Items
- Notes

Quality Satisfaction

- Annual Survey Action Items

Usage

- CY22 Usage

Submitted Information

- Research Strategy
- Aims
- SRM Research Strategy

How DATSTAT contributes to innovation

Screening & Recruitment

- Patient-powered research registries
- Randomized controlled trials
- Onboard patients from the web or from existing populations
- Build digital screeners to verify study eligibility automatically

Patient Pre-Reg & eConsent

- Mobile responsive Patient Reported Outcome Measures (PROM), in and out of the clinic
- Validated PROM Standard Sets
- Do-It-Yourself and Customized PROMs
- Integrated longitudinal workflows
- Longform eConsent or interactive eConsent with scoring

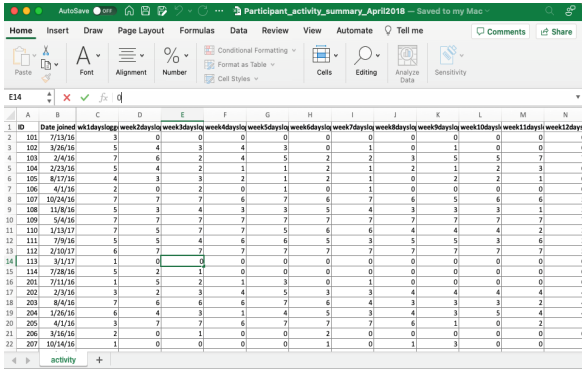
Patient Engagement & Virtual Trials

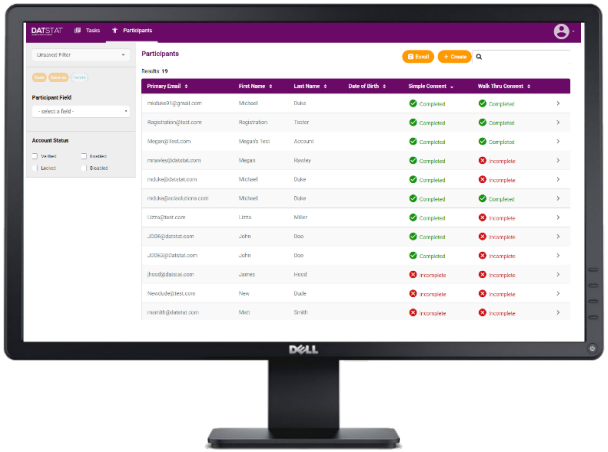
- Mobile-first solutions
- Patient outcomes, daily journal, adherence tracking
- Alerts & secure messaging
- Real-time insights, outcomes & data trends
- Longitudinal, multi-site studies
- 21 CFR Part 11 compliant

Remote Care Management

- Coaching and care management
- Real-time scoring and alerts
- Alerts & secure messaging
- Remote monitoring
- Shared decisions and longitudinal insights

Manual Tracking → Real-Time Study Monitoring





Calculated Columns – Indicators update in real-time to show how participants have screened or consented, and to monitor participant progress in the study

User-Based Filters – Researchers can leverage built-in filters for their participants or build their own filters

Quick Search – Track adherence to care plan or study protocol in real time

Task Management – Coordinators can filter and sort all of their tasks across the patient population for quick access

Prone to delays and errors
Requires much staffing time/effort

Increases efficiency and study quality
Decreases research staff FTE

Direct Integration

Capabilities:

- Pull and leverage EHR patient record data in DatStat Connect Activities
- Push DatStat Connect data to EHR for storage in patient record
- Extract data from Wearables Vendor Database
- Transforms data
- Load data into DatStat Connect

Requirements:

- Internet / Publically accessible EHR Application Programming Interface (API)
- Wearable Vendor API