





THE ROCKEFELLER UNIVERSITY HOSPITAL

CENTER FOR CUNICAL AND TRANSLATIONAL SCIENCE





CENTER FOR CLINICAL AND TRANSLATIONAL SCIENCE



PRESENTATION OVERVIEW

- Provide an overview of Clinical Directors Network (CDN), the practice-based research network (PBRN)
- Describe CDN's work with CTSAs, and with The Rockefeller University Center for Clinical and Translational Science (RU-CCTS)
- Describe the research and training partnerships both academic and community
- Highlight selected examples of Community-Academic Collaborative Community Engaged Research (CEnR) studies



ABOUT US

MISSION

We exist to advocate for meeting the health needs of underserved populations, while providing access to high quality health care, and greater social justice for all.

Clinical Directors Network, Inc. (CDN) is a not-for-profit clinician membership organization, practice-based research network (PBRN), and clinician training organization, founded to provide peer-initiated activities for clinicians practicing in low income, minority, and other underserved communities.

Translating research into practice for the enhancement of health equity and improvement of public health

VALUES

We believe that:

- 1. All people have the right to high quality, community-based health care
- 2. Practicing in a community-based health care center is a desirable, viable long-term career choice for clinicians
- 3. Practice-based research should be relevant, practical and timely
- 4. Research at the community-based health care center level supports the dissemination, adoption and implementation of new knowledge, resulting in sustained high quality of care, increasing health equity, and the improvement of public health

CDN'S PRIMARY ACTIVITIES

RESEARCH

We accelerate research translation. CDN has over 25 years of experience developing, conducting, implementing and evaluating practice-based research with Community Health Centers and other safety-net practices.

EDUCATION

We provide peer support through training and education that integrates online and on-site didactic and experiential learning. Collaborate with us to meet your training needs.



PARTNERSHIP

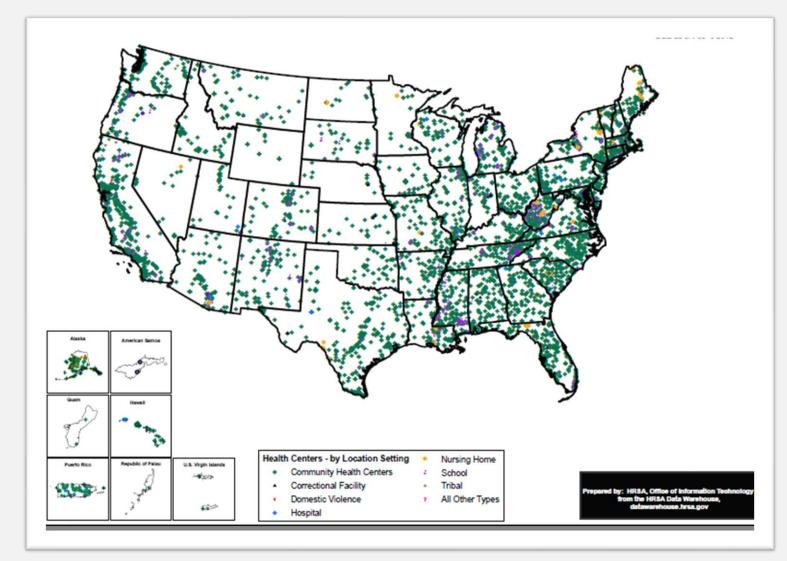
We conduct research and educational activities in partnership with government, academic, not-for-profit, and for profit organizations. CDN has an extensive network of multidisciplinary researchers, clinicians, clinical leaders and policy-makers.

DISSEMINATION

We provide dissemination services through webcasts for public health and clinical research projects. CDN has extensive experience disseminating research and training programs to our extensive network of multidisciplinary researchers, clinicians, clinical leaders and policy-makers.

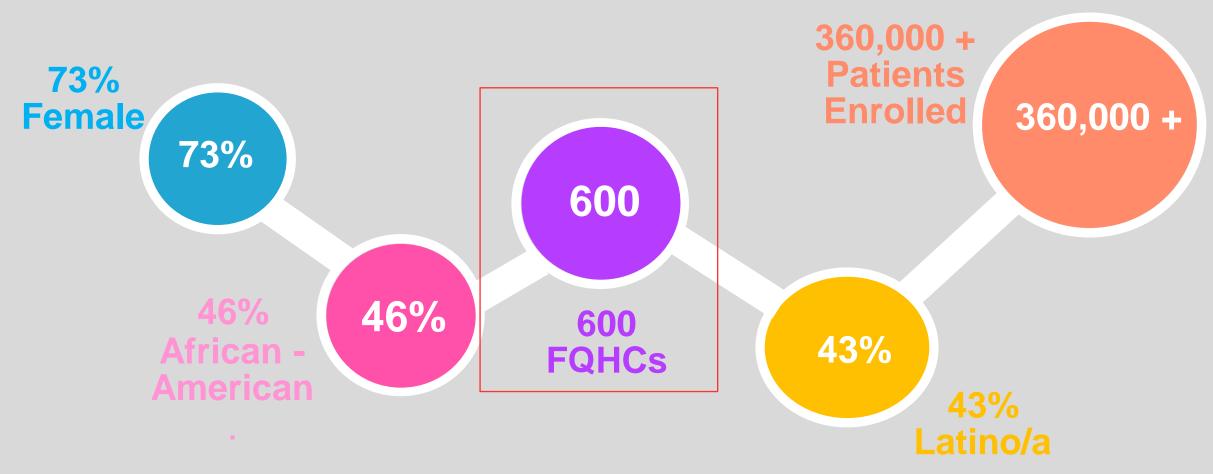


DHHS – HRSA: The Primary Health Care Safety-Net



FACILITIES, PATIENTS &		
<u>VISITS</u>	<u>National</u>	<u>New York</u>
Total # Orontooo	4 007	~~
Total # Grantees	1,367	65
Total # Delivery Sites	10,847	676
Total # Medical Users	21,880,295	1,698,867
Total # Medical Encounters	71,297,375	6,174,700
Total # Dental Users	5,656,190	466,656
Total # Dental Encounters	14,420,355	1,198,612
Total # Medical/Dental Users	25,860,296	2,038,538

CDN'S RECRUITMENT PORTFOLIO 1992-PRESENT



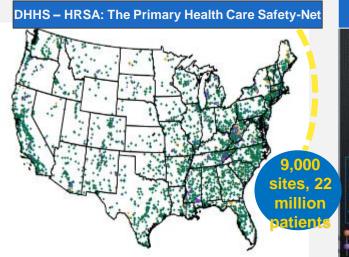


CDN has enrolled >13670,000 low income, minority, medically underserved patients into clinical trials and observational studies

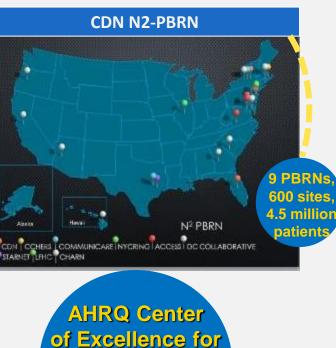




A PRACTICE-BASED RESEARCH NETWORK (PBRN) THAT WORKS WITH FEDERALLY QUALIFIED HEALTH CENTERS (FQHCS) AND OTHER PRIMARY HEALTH CARE SAFETY-NET PRACTICES



FACILITIES, PATIENTS & VISITS	<u>National</u>	<u>New York</u>
Total # Grantees	1,367	65
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Practice-based

Research

and Learning

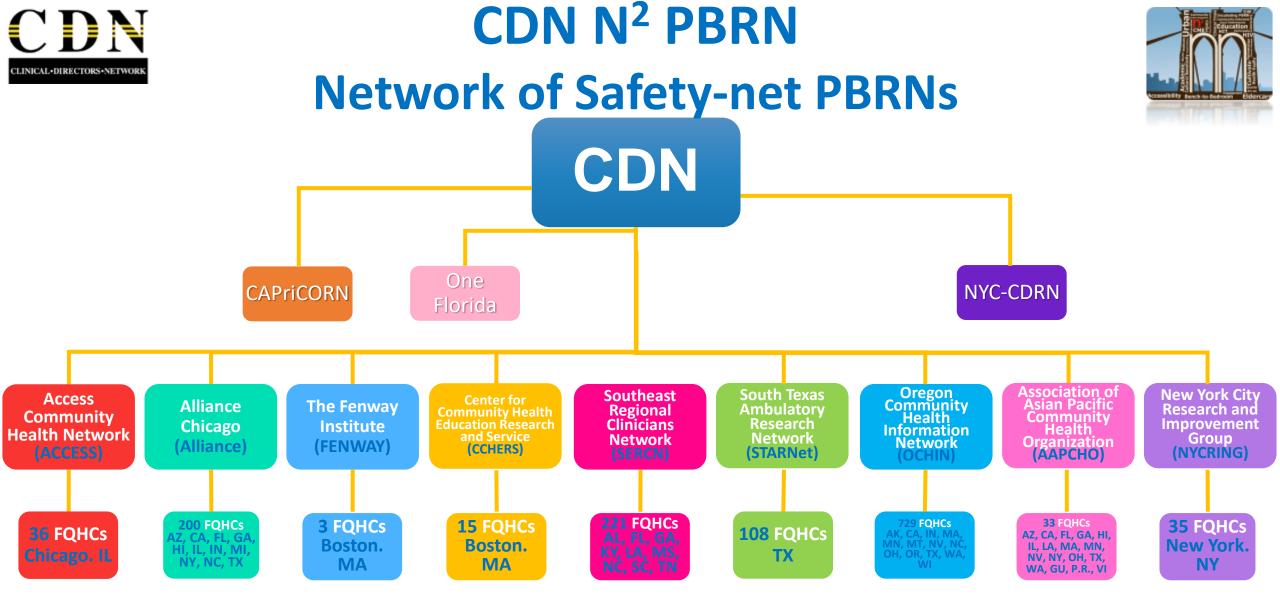
CDN has built a scalable research infrastructure to serve the needs of the clinicians who practice in the health care safety-net by building on existing infrastructure, creating new relationships, providing external practice facilitators (online, remote), and dissemination channels

PBRN Partners

- Access Community Health Network (ACCESS)
- Alliance of Chicago (ALLIANCE)
- Association of Asian Pacific Community Health Organization (AAPCHO)
- Center for Community Health Education Research and Service (CCHERS)
- Clinical Directors Network (CDN) [LEAD PBRN]
- Community Health Applied Research Network (CHARN)
- Fenway Institute (FENWAY)
- New York City Research and Improvement Group (NYCRING)
- Oregon Community Health Information Network (OCHIN)
- South Texas Ambulatory Research Network (STARNet)
- Southeast Regional Clinicians Network (SERCN)
- Florida Clinical Research Consortium (One Florida)









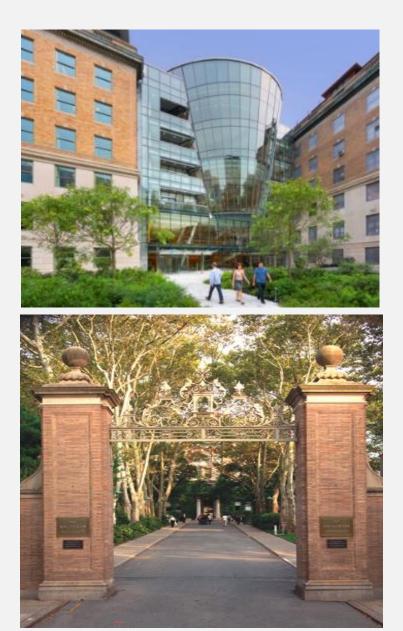
- Albert Einstein College of Medicine/
 Montefiore Medical Center
- Boston University
- Columbia University
- Dartmouth Medical School
- Harvard University
- Kaiser Permanente Center for Health
 Policy Research
- New York University
- Northwestern University
- Oregon Health and Science University
- University of California/San Francisco (UCSF)

N² PBRN ACADEMIC PARTNERS & VIRTUAL FACULTY



- University of California/Los Angeles (UCLA)
- RAND Corporation
- The Rockefeller University
- Tufts University
- University of Chicago
- University of Illinois at Chicago
- University of Miami
- University of Michigan
- University of Oregon
- University of Washington
- Weill Cornell
- Yale University





The Rockefeller University

- Unique structure
 - 82 heads of labs
 - 26 Nobel prizes, 24 Lasker Awards, 20+ National Medals of Science
 - 100+ year tradition of translational research
 - 40 bed JCAHO-accredited research-only hospital
 - AAHRPP-accredited
- 250 protocols
 - 80% investigator initiated
 - 20% phase I, II, III or device trials
- Center for Clinical Translational Science (2006 Present)
- Community Engaged Research Core:
 - Addressing Basic Mechanistic Questions
 - Within Community-based Comparative Effectiveness Studies

Clinical Directors Network, Inc. (CDN)



CDN N²: Building a Network of Safety Net PBRNs AHRQ Center of Excellence for Practice-based Research and Learning

A Practice-based Research Network (PBRN) that works with Federally Qualified Health Centers (FQHCs) and other Primary Health Care Safety-net Practices

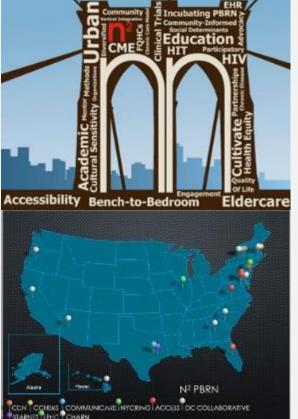
Research Infrastructure to build a Learning Healthcare System

• A collaboration among:

- Access Community Health Network (ACCESS)
- Alliance of Chicago (ALLIANCE)
- Association of Asian Pacific Community Health Organization (AAPCHO)
- Center for Community Health Education Research and Service (CCHERS)
- Clinical Directors Network (CDN) [LEAD PBRN]
- Community Health Applied Research Network (CHARN)
- Fenway Institute (FENWAY)
- New York City Research and Improvement Group (NYCRING)
- Oregon Community Health Information Network (OCHIN)
- South Texas Ambulatory Research Network (STARNet)
- One Florida

Funded by AHRQ Grant: P30 HS 021667 Principal Investigator: Jonathan N. Tobin, PhD (CDN)







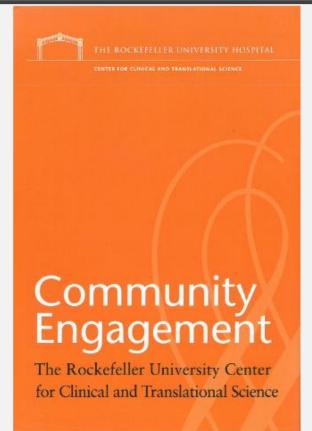


THE ROCKEFELLER UNIVERSITY CENTER FOR CLINICAL AND TRANSLATIONAL SCIENCE COMMUNITY-ENGAGED RESEARCH CORE



RHONDA G. KOST, M.D. & JONATHAN N.TOBIN, Ph.D.

CO-DIRECTORS, COMMUNITY-ENGAGED RESEARCH CORE



DISCOVERIES ADVANCING MEDICINE



BUILDING COMMUNITY-ACADEMIC TRANSLATIONAL RESEARCH PARTNERSHIPS

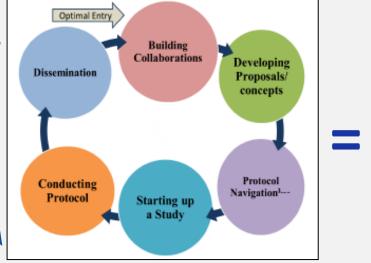


CDN/N² = PBRN INFRASTRUCTURE¹

- Quality Improvement
- Clinical Outcomes
- Comparative Effectiveness Research Patient Centered Outcomes Research (CER/PCOR)
- Training Clinician Investigators
- Implementation Science
- Disseminating Methods & Clinical Outcomes Results

ROCKEFELLER = CTSA INFRASTRUCTURE²

- Laboratory Investigation
- Mechanistic Questions
- Protocol Navigation
- Clinical Scholars
- Bioinformatics/Phenotyping
- Disseminating Translational Research Methods



CEnR-Navigation Process (CEnR-Nav)² [Investigators and partners may enter at any stage]



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KEY ATTRIBUTES OF THE RU-CDN TRANSLATIONAL RESEARCH MODEL



- Conducting rigorous practice-based comparative effectiveness/health outcomes research in collaboration with academic investigators, community-based clinicians and staff, patients, and other stakeholders
- Engaging FQHCs and Primary Care Clinicians as investigators
- Embedding basic science & mechanistic questions into clinical studies conducted in practice-based settings



LITTLE DATA

CAMP1 & CAMP2 Stakeholders and Partners

The Rockefeller University

Barry Coller, MD Rhonda G. Kost, MD Alexander Tomasz, PhD Herminia de Lencastre, PhD Maria Pardos de la Gandara, MD, PhD Marilyn Chung, BA Cameron Coffran, MS Joel Correa da Rosa, PhD Kimberly Vasquez, MPH Teresa Evering, MD, MS Mina Pastagia, MD, MS Maija Neville-Williams, MPH

CDN

Jonathan N. Tobin, PhD Chamanara Khalida, MD, MPH Brianna D'Orazio, BA Tameir Holder, MPH Musarrat Rahman, BS Sisle Heyliger, BA Anthony Rhabb Cynthia Mofunanya Jessica Ramachandran Uma Siddiqui

Metropolitan Hospital Center

Getaw Worku Hassen, MD, PhD Jessica Ramachandran, MBBS *Van Johnson

Coney Island Hospital

Regina Hammock, DO Slava Gladstein, DO Rosalee Nguyen, DO, MS *Ronnett Davis

Community Healthcare Network

Satoko Kanahara, MD Katrina Adams

Academic Stakeholders

Christopher Frei, PharmD, MSc, FCCP, BCPS South Texas Ambulatory Research Network/UTHSCSA Christopher Mason, PhD Weill Cornell Medical College Eric Lofgren, PhD Washington State University College of Veterinary Medicine Susan Huang, MD, MPH University of California Irvine



NYU Lutheran Family Health Centers

William Pagano, MD, MPH Paula Clemons, PA Jason Hyde, MA Jasbir Singh, MBBS *Keenan Millan **Open Door Family Medical Center** Daren Wu, MD

Asaf Cohen, MD

Urban Health Plan

Samuel DeLeon, MD Franco Barsanti, PharmD Shirish Balachandra, MD Claude Parola, MD Tracie Urban, RN *Brenda Gonzalez

Hudson River Health Care

Carmen Chinea, MD Nancy Jenks, NP

ancy Jenks, NP

Manhattan Physician's

Group

Ronda Burgess, RN

PCORI Project Officers

Anne Trontell, MD, MPH Jess Robb

Funded by:

Patient Centered Outcomes Research Institute (PCORI, CONTRACT # CER-1402-10800) The Rockefeller University Center for Clinical and Translational Science (CCTS) Pilot Grant and Administrative Supplement (NIH-NCATS Grant # 8-UL1-TR000043) AHRQ Grant # P30 HS 021667



Community Health Centers Community Hospitals

* Participated in Previous MRSA Studies

CAMP1 (Observational Cohort) & CAMP2 (CER/PCOR RCT) Stakeholders and Partners

The Rockefeller University

Barry Coller, MD Rhonda G. Kost, MD Alexander Tomasz, PhD Herminia de Lencastre, PhD Maria Pardos de la Gandara, MD, PhD Marilyn Chung, BA Cameron Coffran, MS Joel Correa da Rosa, PhD Kimberly Vasquez, MPH Teresa Evering, MD, MS Mina Pastagia, MD, MS Maija Neville-Williams, MPH

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*Patient/Community Stakeholders

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Daren Wu, MD Asaf Cohen, MD

Urban Health Plan

Samuel DeLeon, MD
ranco Barsanti, PharmD
Shirish Balachandra, MD
Claude Parola, MD
racie Urban, RN
Brenda Gonzalez

Denny Moe's Superstar Barbershop

*Dennis "Denny Moe" Mitchell

PCORI Project Officers

Anne Trontell, MD, MPH Jess Robb

<u>Funded by:</u> Patient Centered Outcomes Research Institute (PCORI, CONTRACT # CER-1402-10800)

The Rockefeller University Center for Clinical and Translational Science (CCTS) Pilot Grant and Administrative Supplement (NIH-NCATS Grant # 8-UL1-TR000043)

AHRQ Grant # P30 HS 021667



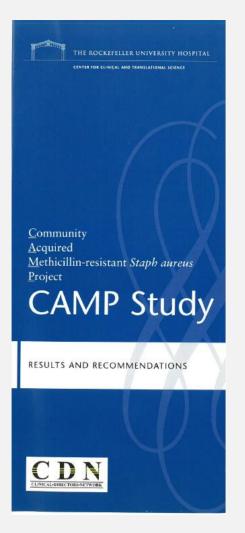




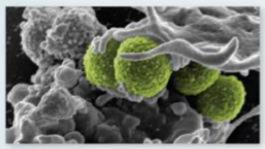


Community Associated MRSA Projects (CAMP 1&2)





Using Community Engagement to Tackle a Hard-to-Treat Bacterial Infection



Interaction of MRSA (green bacterial with a human white cell. The bacteria shown is strain MRSA252, a leading cause of hospital-associated infections in the United States (National Institute of Biomedical Imaging and Bioengineering Photo).

Community and patient engagement are priorities for the CTSA program. The Rockefeller University CTSA's Community Engagement (CE) Core teamed with the Clinical Directors Network, a primary care practicebased research network that works with Federally Qualified Health Centers (FQHCs), to conduct a study on the significance of community-acquired methicillinresistant Staphylococcus aureus (CA-MRSA) infection in the health care setting. For the initiative, called the Community Acquired MRSA Project (CAMP), clinicians were engaged around the unmet clinical need related to MRSA, and basic scientists were involved to gain a better understanding of the molecular basis of MRSA bacteria. Using a team science-based approach and combining expertise in basic science with patient and community-driven research can simultaneously advance discovery that translates into improved patient care.

MRSA bacteria are resistant to many commonly used antibiotics and cause several hard-to-treat infections in humans. Although MRSA traditionally infects hospital patients, CA-MRSA also can infect healthy people who have not been hospitalized. Community clinicians identified CA-MRSA skin infection as an emerging problem in the FQHCs' patient population. The Rockefeller CE group provided training to community clinicians on best practices for treating CA-MRSA. Following the training, clinicians helped the project's MRSA scientific expert to design research questions related to the molecular biology of MRSA. In addition, the team developed a protocol for carrying out best practices and met regularly to advance the project at continuing medical education workshops.

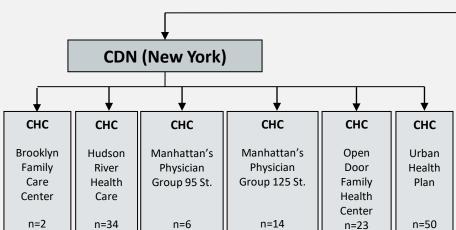
The clinicians engaged MRSA patients at Community Health Center town hall meetings, focus groups and information sessions to learn about their MRSA experiences and identify patients' priorities. Patients were most concerned about increasing their knowledge of MRSA infection. As a result, the interdisciplinary CE team developed a MRSA education and outreach project with local barbershops, an initiative that significantly increased community awareness and knowledge about MRSA infection and its prevention. The outcomes of this effort resulted in a second grant that began in November 2014. In the second phase of the project, patients, clinicians, scientists and local community health workers will be engaged to conduct household visits to test. the effectiveness of strategies for preventing MRSA recurrence and reducing household transmission.

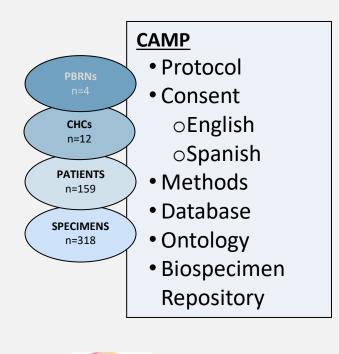
CCTS Pilot \rightarrow CTSA Administrative Supplement \rightarrow PCORI CER R01



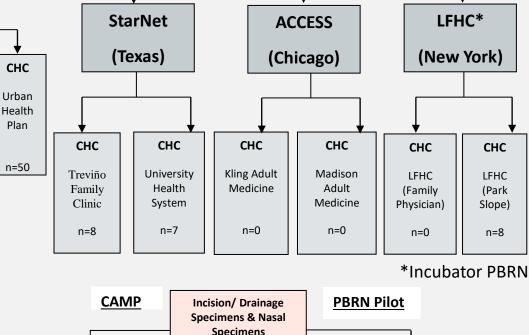
CDN PBRN²







N² PBRN **AHR**

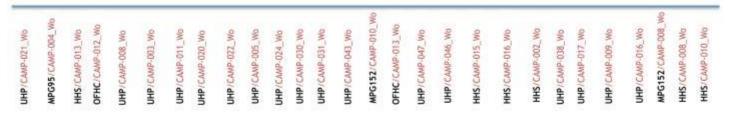


Specimens **BioReference Labs** (Culture & Sensitivity) Local (Antibiograms) (Purified Sub-Cultures) Clinical (+) Labs MRSA & (Culture & MSSA Sensitivity) Rockefeller/ Tomasz Lab for Molecular EPI & Whole Genome Seq

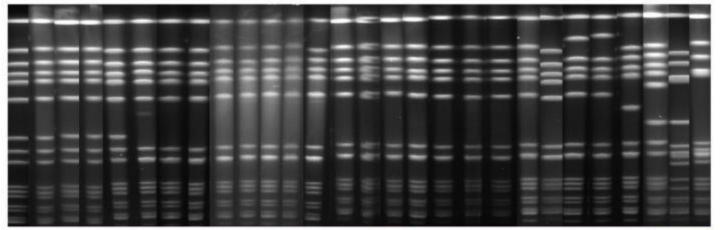
CA-MRSA Molecular Epidemiology:

(T1 Laboratory Investigator Expertise/Interest)

Molecular profile of USA 300 MRSA wound isolates



t008 t008 t008 t008 t008 t008 t008 t121 t052 t008 t008 t008 t008 t043 t596 t008 t008 t008 t008 t008 t2849 t068 t121 t008 t008 t211 t008



SCCmec

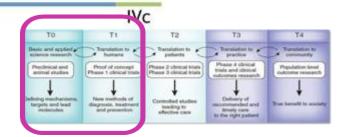


All MRSA wound isolates belonging to the USA 300 clone (ST 8) were:

– pvl +

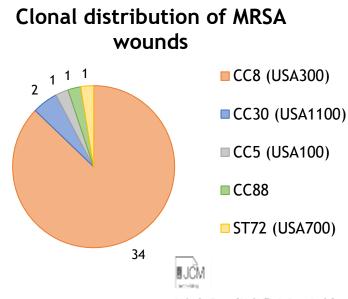
ACME type I

IVa









Molecular Types of Methicillin-Resistant Staphylococcus aureus and Methicillin-Sensitive S. aureus Strains Causing Skin and Soft Tissue Infections and Nasal Colonization, Identified in Community Health Centers in New York City

Mais Netro de la Gaetro " familitaria Regista Gaes," Mideo Meragi" Seatro H. Table, "Asaect Tang." Otoroas (Malatz Brown O'Louis): Netro G. Kaz, "Anno Labboya Alat", Cancon Oltro, "Asaect Reening" Rang S. Celle, "Santo Balance et " note: "Calab Posta," Sciett Santo, "Netro John," Encod Romon, " Main, Oltro, "Lemite de Lacode, " Annote: "Danat

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Patient-Centered CER Study of Home-based Interventions to Prevent CA-MRSA Infection Recurrence: CA-MRSA Project 2 (CAMP2)

> Patient Centered Outcomes Research Institute (PCORI), Grant # CER-1402-10800 The Rockefeller University Clinical and Translational Science Award Program (CTSA) and an Administrative Supplement and Pilot Project Awards (NIH-NCATS Grant #UL1-TR-000043) N²-PBRN: Building a Network of Safety Net PBRNs (AHRQ Grant #1 P30-HS-021667)







OBJECTIVES

To evaluate the comparative effectiveness of a CHW/Promotora-delivered home intervention (Experimental Group) as compared to Usual Care (Control Group) on the primary patient-centered and clinical outcome (SSTI recurrence rates) and secondary patient-centered outcomes (pain, depression, quality of life, care satisfaction) and public health outcomes (household transmission) using a two-arm randomized controlled trial (RCT).





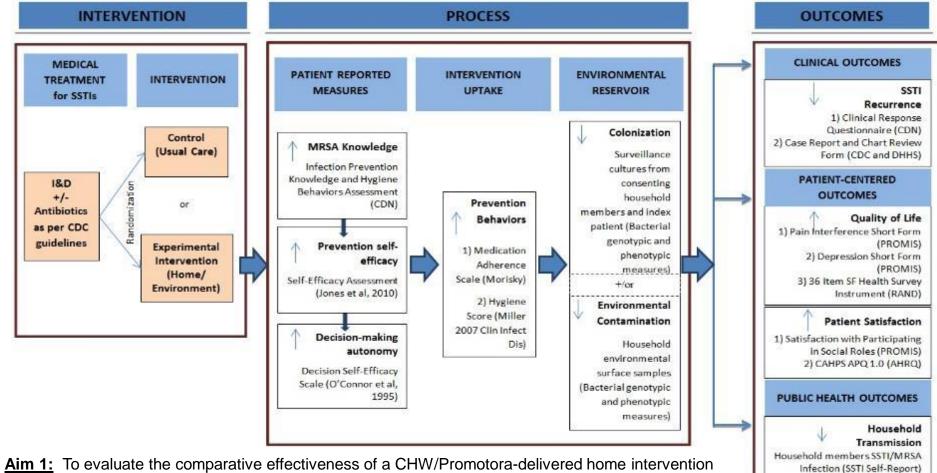


CAMP2 Specific Aims

- Aim 1: To evaluate the comparative effectiveness of a CHW/Promotora-delivered home intervention (Experimental Group) as compared to Usual Care (Control Group) on the primary patient-centered and clinical outcome (SSTI recurrence rates) and secondary patient-centered and clinical outcomes (pain, depression, quality of life, care satisfaction) using a two-arm randomized controlled trial (RCT)
- <u>Aim 2:</u> To understand the patient-level factors (CA-MRSA infection prevention knowledge, self-efficacy, decision-making autonomy, prevention behaviors/adherence) and environmental-level factors (household surface contamination, household member colonization, transmission to household members) that are associated with differences in SSTI recurrence rates
- Aim 3: To understand interactions of the intervention with bacterial genotypic and phenotypic variables on decontamination, decolonization, SSTI recurrence, and household transmission
- Aim 4 [Exploratory]: To explore the evolution of stakeholder engagement and interactions among patients and other community stakeholders with practicing community-based clinicians and academic laboratory and clinical investigators over the duration of the study period







<u>Aim 1:</u> To evaluate the comparative effectiveness of a CHW/Promotora-delivered home intervention (Experimental Group) as compared to Usual Care (Control Group) on the primary patient-centered

and clinical outcome (SSTI recurrence rates) and secondary patient-centered and clinical outcomes (pain, depression, quality of life, care satisfaction) using a two-arm randomized controlled trial (RCT).

<u>Aim 2:</u> To understand the patient-level factors (CA-MRSA infection prevention knowledge, self-efficacy, decision-making autonomy, prevention behaviors/adherence) and environmental-level factors (household surface contamination, household member colonization, transmission to household members) that are associated with differences in SSTI recurrence rates.

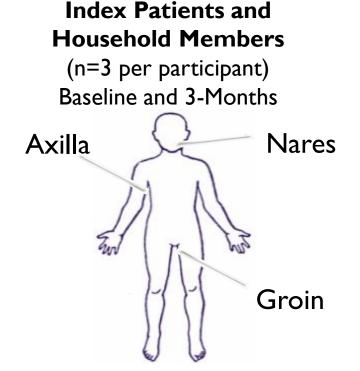
<u>Aim 3:</u> To understand interactions of the intervention with bacterial genotypic and phenotypic variables on decontamination, decolonization, SSTI recurrence, and household transmission.

<u>Aim 4 [Exploratory]</u>: To explore the evolution of stakeholder engagement and interactions among patients and other community stakeholders with practicing community-based clinicians and academic laboratory and clinical investigators over the duration of the study period.

CAMP2 Home Visit Assessment: Household Surface Sampling

Collected at Baseline and 3 Months Post Intervention from:

- Index patients (n=186)
- Consenting household members
- Home Environment Surfaces



Environment (n=13 surfaces per household)

Surface to Swab

Front doorknob	Kitchen floor
TV remote	Bathroom sink handle
Telephone	Hair brush
Kitchen light switch	Toilet seat
Kitchen countertop	Bedroom floor
Refrigerator door	
handle	Favorite child's toy (non-plush)
Kitchen sink handle	







CA-MRSA Molecular Epidemiology:

(T1 Laboratory Investigator Expertise/Interest)

CAMP2 Case #32: Clinical samples

Household #32, T1 Results

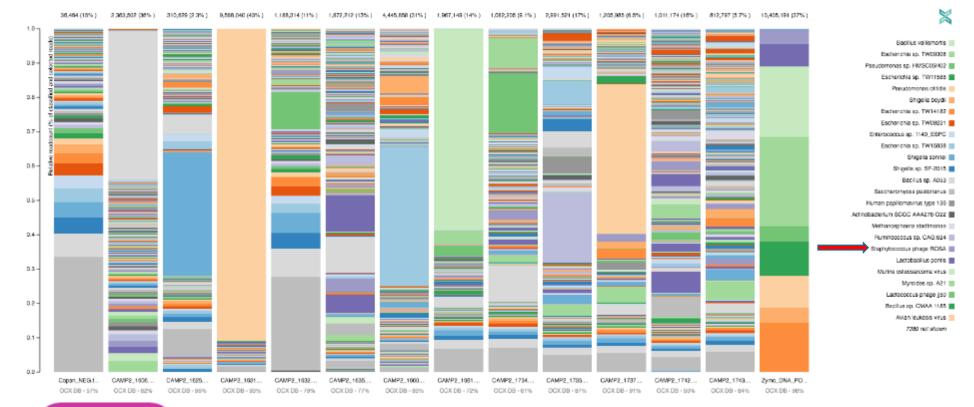




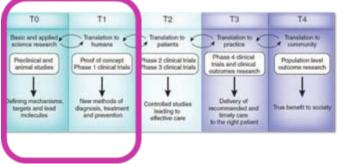




Environmental Samples vs. Isolates:



One Codex: A Sensitive and Accurate Data Platform for Genomic Microbial Identification, Samuel S Minot, Niklas Krumm, Nicholas B Greenfield bioRxiv 027607; doi: https://doi.org/10.1101/027607







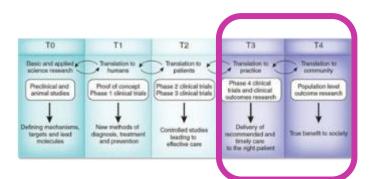


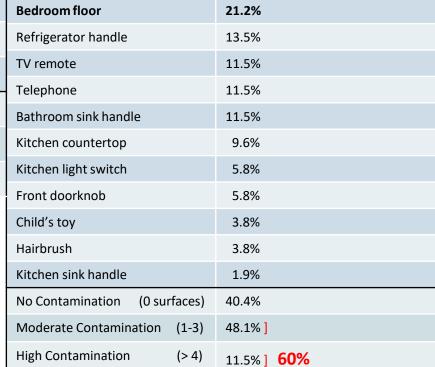


(T3/T4 Clinician & Public Health Investigators Expertise/Interest)

CAMP2 Baseline Results (4117117)

			Household Surface Site	Household Surface Contamination (n=52)	
Surveillance Site	Colonization	Colonization	Kitchen floor	19.2%	
	(n=135)	(n=40)	Toilet seat	23.1%	
Nares	51.9%	10.0%	Bedroom floor	21.2%	
Axilla	17.8%	17.5%	Refrigerator handle	13.5%	
Groin	34.1%	25.0%	TV remote	11.5%	
		Telephone	11.5%		
0 Colonized sites	33.3%	67.5%	Bathroom sink handle	11.5%	
1 Colonized site	35.6%]	15.0%]	Kitchen countertop	9.6%	
2+ Colonized sites	29.7% 65%	17.5%] 33%	Kitchen light switch	5.8%	
			Front doorknob	5.8%	









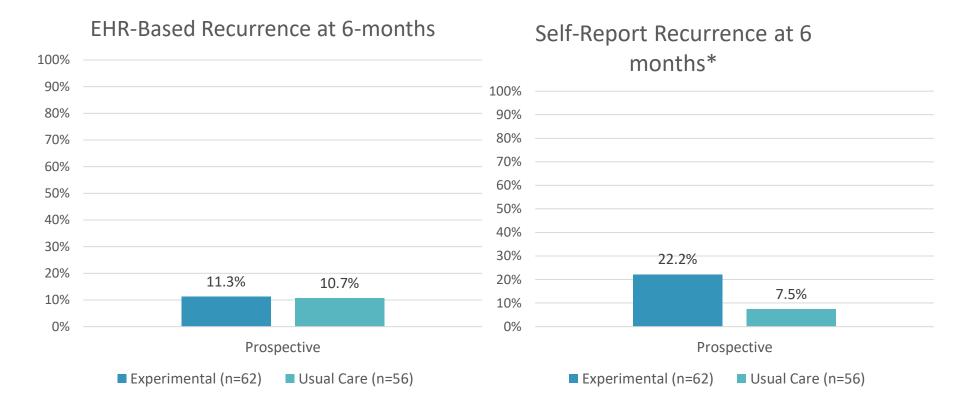


Clinical & Secondary Outcomes

Aim 1

- To evaluate the comparative effectiveness of a CHW/Promotoradelivered home intervention (Experimental group) as compared to usual care (Control group) on the primary patient-centered and clinical outcome (SSTI recurrence rates)
- Secondary outcomes included patient-centered and clinical outcomes (pain, depression, quality of life, care satisfaction)

SSTI Recurrence at Six-Month Follow-Up^{1,2}



Notes:

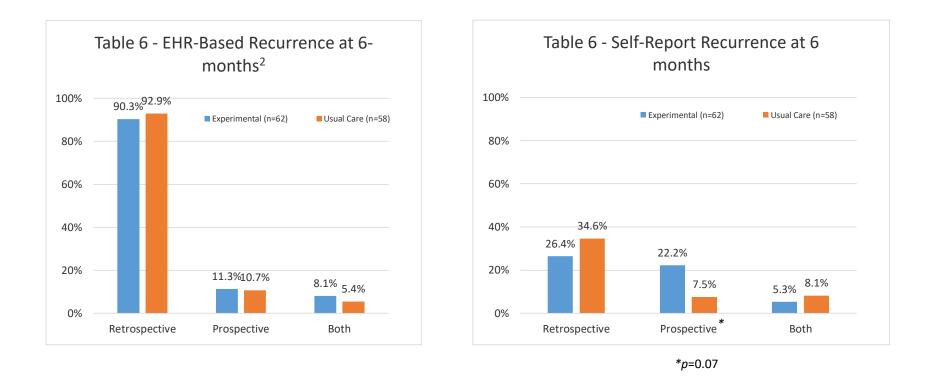
¹Prospective recurrence is defined as report of a new SSTI in the 6-month period following the initial (baseline) infection for which the participant was recruited. EHR-based outcomes were assessed at 6-months post-baseline and include the time period 12 months prior and 6 months after the baseline infection. Self-report

*p=0.07

prospective recurrence was assessed at the 6-month telephone assessment (T4).

²The observed prospective recurrence rate at 6 month EHR review for the Observation Only Group (n=66, 10.5%) was not different from either the Experimental (11.3%) or Usual Care (11.0%) or Total (10.8%).

SSTI Recurrence at Six-Month Follow-Up¹



Notes:

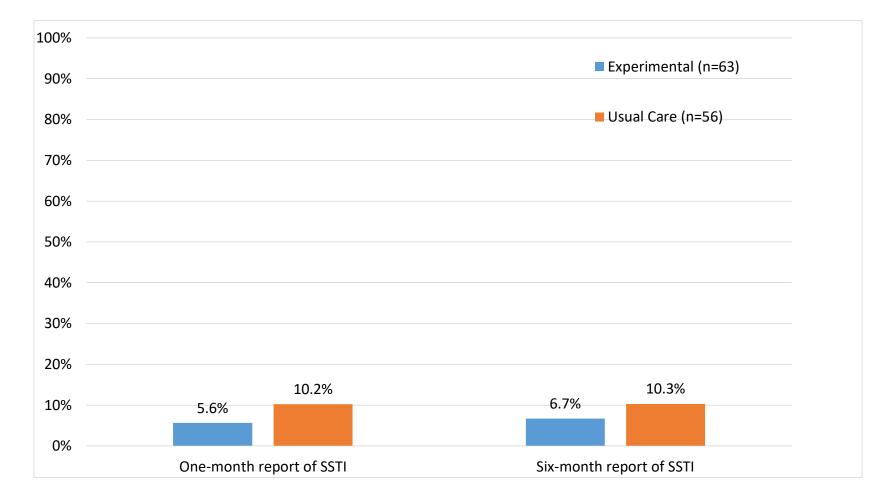
¹Prospective recurrence is defined as report of a new SSTI in the 6-month period following the initial (baseline) infection for which the participant was recruited. Retrospective recurrence is defined as a report of SSTI prior to the initial (baseline) infection for which the participant was recruited. EHR-based outcomes were assessed at 6-months post-baseline and include the time period 12 months prior and 6 months after the baseline infection. Self-report retrospective recurrence was assessed at the baseline telephone assessment (T0), and prospective recurrence was assessed at the 6-month telephone assessment (T4).

²The observed prospective recurrence rate at 6 month EHR review for the Observation Only Group (n=66, 10.5%) was not different from either the Experimental (11.3%) or Usual Care (11.0%) or Total (10.8%).

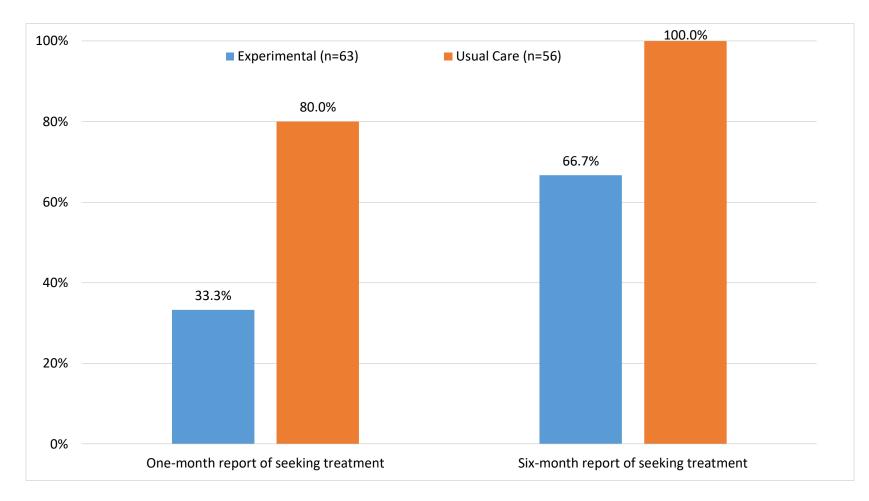
Summary of Logistic Regression Analyses of SSTI Recurrence Within Six-Months By Key Subgroups (Heterogeneity of Treatment Effects)

Model	Outcome: SSTI Recurrence within 6 months by EHR	Odds	95%CI	95%Cl	p-
	(1=Experimental, 0=Usual Care)	Ratio	Lower	Upper	value
	Planned Subgroup Analyses				
1	Overall	1.14	0.36	3.65	0.82
2	By Culture Type (MRSA vs MSSA)	1.03	0.22	4.7	0.96
3	Non-USA Born	2.36	0.35	15.87	0.38
	USA Born	1.12	0.23	5.46	0.89
4	High Household Contamination Level	1.385	0.213	9.009	0.73
	Low Household Contamination Level	1.042	0.234	4.651	0.96
5	Household Members Colonization Present	UE*	UE	UE	0.95
	Household Members Colonization Absent	0.83	0.24	2.95	0.78
	Unplanned Subgroup Analyses				
7	Emergency Department (ED)	1.44	0.42	4.88	0.56
	Federally Qualified Health Center (FQHC)	UE*	UE	UE	0.96
8	I&D Treatment	0.80	0.17	3.90	0.78
	No I&D Treatment	1.58	0.25	9.80	0.62
	*Unestimatable due to sparse data				

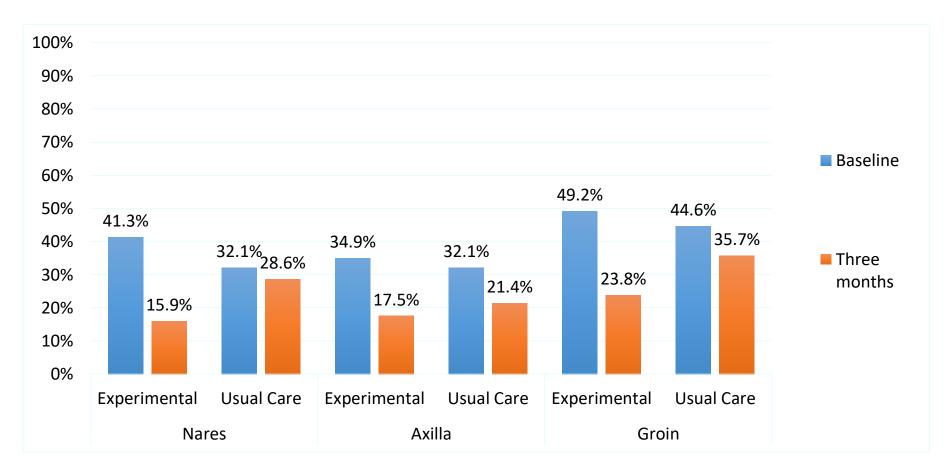
Self-Report From Index Patient of Household Member SSTI



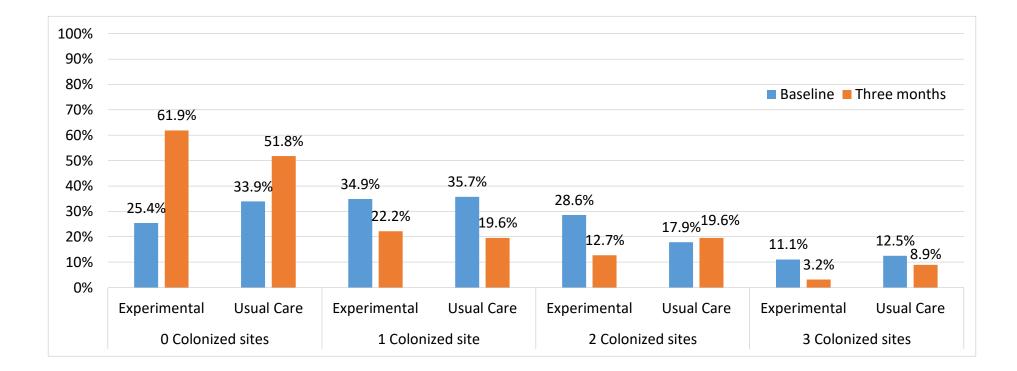
Self-Report From Index Patient of Household Member Seeking Treatment for SSTI



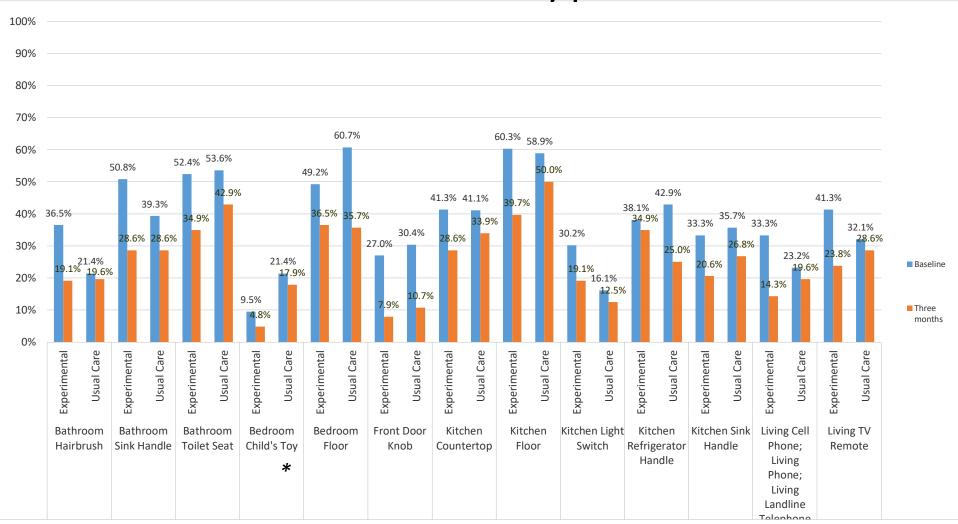
Proportion of Index Patient Colonization at Household Visits by Site



Proportion of Index Patient Colonization at Household Visits by Number of Sites

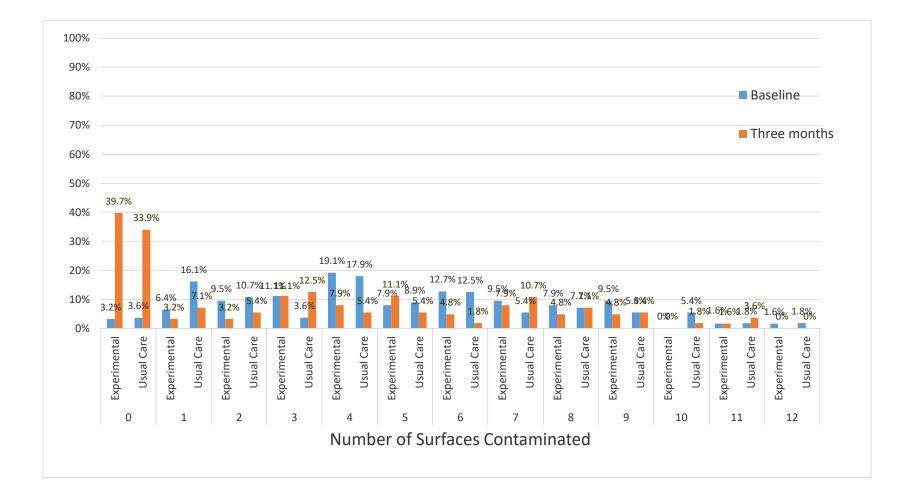


Household Contamination by Surface Type



**p*=0.0614

Household Contamination by Surface Amount





Conducting Community-Engaged Team Science Across the Translational Research Spectrum



MICROBIAL DRUG RESISTANCE Volume 21, Number 2, 2015 C Mary Ann Liebert, Inc. DOI: 10.1069/mdr 2014.0283

Recurrent Furunculosis Caused by a Community-Acquired Staphylococcus aureus Strain Belonging to the USA300 Clone

Shirish Balachandra,1.* Maria Pardos de la Gandara,2.* Scott Salvato,1 Tracie Urban,1 Claude Parola,1 Chamanara Khalida,3 Rhonda G. Kost,4 Teresa H. Evering,4 Mina Pastagia,4 Brianna M. D'Orazio,3 Alexander Tomasz,² Herminia de Lencastre,²⁵ and Jonathan N. Tobin^{3,4}

ticenter observational cohort study conducted by a practice-based research network (PBRN) on comy-acquired methicillin-resistant Staphylococcus aureus (CA-MRSA). Methods: Strains were charactery pulsed-field gel electrophoresis (PFGE), spa typing, and multilocus sequence typing. MRSA strains analyzed for SCCmec type and the presence of the Panton-Valentine leukocidin (PVL) and arginine plic mobile element (ACME) using PCR. Results: In the first episode, S. aureus was recovered from the d and inguinal folds; in the second, S. aureus was recovered from a lower abdomen furuncle, inguinal and patellar fold. Molecular typing identified CA-MRSA clone USA300 in all samples as spa-type t008, SCCmecIVa, and a typical PFGE pattern. The strain carried virulence genes pvl and ACME type I. Five episodes were documented despite successful resolution by antibiotic treatment, with and without incision rainage. Conclusions: The source of the USA300 strain remains unknown. The isolate may represent a tent strain capable of surviving extensive antibiotic pressure or a persistent environmental reservoir may source, possibly in the patient's household, from which bacteria were repeatedly introduced into the skin with subsequent infections.

(18.7) Paired t tot conducted on new scores. Conducted 1 month post-in

Table 3. Intervention Outcomes: CA-MRS

Performance, Mean (SD)

86.0 (11.5) 87.7 (10.2)

6.7 (1.7)

74.9

2

From the Bench to the Barbershop: Community Engagement to Raise Awareness About Community-Acquired Methicillin-Resistant Staphylococcus aureus and Hepatitis C

Andrea Leinberger-Jahari, MPR¹, Rhonda G. Kost, MD¹, Brianna D'Orgeio, 88⁴, Rhonda Bargess, 88⁴, Chamanara Khalida, MD MPR⁴,

Teresa H. Evering, MD. M9¹⁴, Tameir Holder, MPH², Barry S. Coller, MD¹, Ionathan N. Tohin, Pat^{y=1}

eniton of CA-MRSA and

sures (p < .0001), as well as hepathis C

75.2 (17.0)

Background: Infectious diseases, such as hepatitis C and

community-acquired methicillin-resistant Slaphylococcur aureus (CA-MISSA), are emerging health issues.

Objectives: The CA-MRSA Project (CAMPI) extended its earning collaborative to the barbershop/hair salon settings

Methods: Education sessions on CA-MRSA and hepatitis C

vere conducted with 43 esthelicians all nine harbershop/hair alons in New York City. All completed pre-post intervention

knowledge tests. Low-cost primary care referral cards were

Results: Knowledge about CA-MRSA risks (p < 0003) and

also distributed in the CA-MRSA education project.

Amanda Tsang, MHI¹, Dennis Mitchell⁴, Alexander Tomasz, PhD¹, Herminia de Lencastre, PhD⁴, Maria Pardos de la Gandara, MD. PhD⁴,

doctal Sciences, The Rockeleliele University; [2] Clinical Directors Network (CDN); (3) Advantage Can

reported.

knowledge and prevention (both p < .0001) increased. Nine shops received referral cards (n = 500) and 4% of the cards (n = 19) were distributed to clients. No self-referrals were

Conclusions: CAMPI successfully recruited and trained

cadre of estheticians on CA-MRSA and hebalitis C prever

tion increasing their health knowledge deepening our

search, health disparities, health promotion, bacterial

6.6 0.9 (<0.0001) (0.3625)

Pre-Post Test Comparison, I Value (p):

0.4 (0.6811)

engagement with the commonity

Community health not

Baseline* Follow-Up (T1)* Follow-Up (T2)* Baseline to T1 T1 to T2 Baseline to T

WORK-IN-PROGRESS & LESSONS LEARNED

Virus Infection

infaction preven

Raw score

Raw score

Percent correct

ercent correct

SA infection prevention (IP)

Available online at www.sciencedirect.com ScienceDirect Ser. Sel

Differences in prevalence of communityassociated MRSA and MSSA among U.S. and non-U.S. born populations in six New York **Community Health Centers**

N. Piper Jenks^{a,b,1}, M. Pardos de la Gandara^{c,1}, B.M. D'Orazio^a, J. Correa da Rosa ^d, R.G. Kost ^d, C. Khalida ^a, K.S. Vasquez ^d, C. Coffran ^d, M. Pastagia ^d, T.H. Evering ^d, C. Parola ^e, T. Urban e, S. Salvato e, F. Barsanti , B.S. Coller d, J.N. Tobin a,d,*

Clinical Directors Network, Inc (CDN), 5 West 37th Street, 10th Floor, New York, NY 10018, USA Climica Intercess Netlenos, Inte (LAN), 5 Ness Jun Sartest, Iota Nicolo, New Fork, NY 1000, USA Mudan Netre Headfacen, 1021 Min Storeet, Peeskill, Min Y0566, USA ¹ Laboratory of Microbiology & Infectious Diseases, The Rickefeller University, 1220 York Avenue, New York, NY 10066, USA ² Center for Clinical and Translational Science (CCTS), The Rockefeller University, 1220 York Avenue, New York, NY 10066, USA Urban Health Plan. Inc. 1065 Southern Boulevard. Branx. NY 10459. USA

Differences in prevalence of community-associated MPSA and ASSA

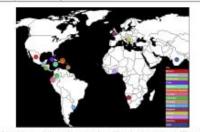


Fig. 2 Data mark the geographic location of the countries of origin at horego-loom patients in the mody. Different colors rent cautities and both the size of dob and the number inside the dots constant with the number of patients from each country. Mexico, Central and South America, and the Caribbean were categorized as Latin America.

🛛 JČM Molecular Types of Methicillin-Resistant Staphylococcus aureus and

Methicillin-Sensitive S. aureus Strains Causing Skin and Soft Tissue Infections and Nasal Colonization, Identified in Community Health Centers in New York City

Maria Pardos de la Gandara,^a Juan Antonio Raygoza Garay,^b Michael Mwangi,^b Jonathan N. Tobin,^{c,d} Amanda Tsang,^{c,} Chamanana Khalida.^c Brianna D'Orazio.^c Rhonda G. Kost.^d Andrea Leinberger-Jabari.^d Cameron Coffran.^d Teresa H. Everino. Barry S. Coller,^d Shirish Balachandra,^a Tracie Urban,^a Claude Parola,^a Scott Salvato,^a Nancy Jenks,[†] Daren Wu,^a Rhonda Burgess,^b Marilyn Chung," Herminia de Lencastre,^{8,1} Alexander Tomasz^a

Laborary of Microbiology and Infections Diessen, The Rockelfele University, New York, New York, USA⁶, Department of Electemistry and Molecular Electory, New York, New York, New York, USA⁶, The Infection State Diversity, University Full, Yorky Markan, USA⁶, Charal Decision Network, USA, New York, New York, USA⁶, The Infection State Contents Journe, New York, New York, USA⁶, Usan Landik Lorenty, Borce, New York, USA⁶, Harden New York, USA⁶, The Infection State Contents, USA⁶, The Infection State Contents, USA⁶, Theorem S Owining, New York, USAP, Manhattan Physicians Group-125th Street Clinic, New York, New York, USAP: Laboratory of Molecular Genetics, Instituto de Tecnologia Outmics of Biologics (FORAIN.) Online, Portugal

In November 2011, The Rockefeller University Center for Clinical and Translational Science (CCTS), the Laboratory of Microbiology and Infectious Diseases, and Clinical Directors Network (CDN) launched a research and learning collaborative project with six community health centers in the New York City metropolitan area to determine the nature (clonal type) of community-acquired Staphylococcus aureus strains causing skin and soft tissue infections (SSTIs). Between November 2011 and March 2013, wound and nasal samples from 129 patients with active SSTIs suspicious for S. aureus were collected and characterized by molecular typing techniques. In 63 of 129 patients, the skin wounds were infected by S. aureus: methicillinresistant S. aurrus (MRSA) was recovered from 39 wounds and methicillin-sensitive S. aurrus (MSSA) was recovered from 24. Most-46 of the 63-wound isolates belonged to the CC8/Panton-Valentine leukocidin-positive (PVL*) group of S. aureus clone USA300: 34 of these strains were MRSA and 12 were MSSA. Of the 63 patients with 5, aureus infections, 30 were also colonized by S. aureus in the nares: 16 of the colonizing isolates were MRSA, and 14 were MSSA, and the majority of the colonizing isolates belonged to the USA300 clonal group. In most cases (70%), the colonizing isolate belonged to the same clonal type as the strain

Molecular profile of USA 300 MRSA wound isolates



ground: A 24-year-old female with recurrent skin and soft tissue infections (SSTI) was enrolled as part of

(1.5) 81.0 CA-MESA, community-accurred methicillin-resistant Statylydocecus games: HCV, heratitis C virus * Pre-intervention, n - 42. * Total amount of items - 10. Total amount of items - 5

> Study ID: HHS/CAMP-004 ACTION &

8.8

HP/CAMP-046 THE MORE MORE MORE MORE MORE MORE THAT ANY THEY AND A DOME MORE MORE MORE AND A DOME THAT WAS AND A DOME THAT A DOME A DOME Study ID: SCCmec (Va IVg-IVc.

All MRSA wound isolatus belonging to the USA 300 clone (ST 8) were: Gel + ACME type I

Translational Research & NIH "Blue Highways" SOURCE: Westfall, et al., "Practice-Based Research—"Blue Highways'

on the NIH Roadmap" JAMA 2007; 297: 403-406 What made BENCH BEDSIDE PRACTICE the **Basic Science Research** Human Clinical Research **Clinical Practice** T1 T2 Case Series Delivery of Recommended Care Controlled Observational partnership Preclinical Studies to the Right Patient at the Right Time Studies Phase 1 and 2 Animal Research Identification of New Clinical Questions Phase 3 Clinical Trials Clinical Trials work: and Gaps in Care TRANSLATION TO HUMANS T₀ T2 Practice-Based Research т3 Basic 📫 ТĄ Guideline Development Dissemination T5 Phase 3 and 4 Clinical Trials Science Research Meta-analyses Public Observational Studies Implementation Systematic Reviews Health Survey Research Research Health Policy Impact TRANSLATION TRANSLATION TO PATIENTS TO PRACTICE

■Aim 3: To understand interactions the of intervention with bacterial genotypic and phenotypic variables on decontamination. decolonization, SSTL recurrence, and household transmission

patient-level factors (CA-MRSA infection prevention knowledge, self-efficacy, decisionmaking autonomy, prevention behaviors/adherence) and environmental-level factors (household surface contamination, household colonization, member transmission to household members) associated w/ diffs in SSTI recurrence rates

To understand

■Aim 2:

To evaluate the •Aim 1: comparative effectiveness of To explore the evolution of a CHW/Promotora-delivered intervention home (Experimental Group) as compared to Usual Care (Control Group) on the primary patient-centered and clinical (SSTI outcome rates) and recurrence patient-centered secondary and clinical outcomes (pain, period depression, quality of life, care satisfaction) using a twoarm randomized controlled trial (RCT)

■Aim 4 stakeholder engagement and interactions among patients and other community stakeholders with practicing communitybased clinicians and academic laboratory and clinical investigators over the duration of the study



CENTER FOR CLINICAL AND TRANSLATIONAL SCIENCE

THE ROCKEFELLER UNIVERSITY HOSPITAL

Big Data





CENTER FOR CLINICAL AND TRANSLATIONAL SCIENCE











Obesity, Cardiometabolic Risk and Adolescent Pregnancy:

Building a De-Identified EHR Research Database to Examine the Biological and Social Determinants of Nutritional Status, Pregnancy and Birth Outcomes

FUNDED BY:

The Sackler Center for Biomedicine and Nutrition (SCBN) Research at The Rockefeller University; The Sackler Institute for Nutrition Science at The New York Academy of Sciences; (3) N²: Building a Network of Safety-Net PBRNs (AHRQ 1-P30-HS-021667); (4)The National Center for Advancing Translational Sciences/The Rockefeller University Center for Clinical and Translational Science (NIH-NCATS Grant #UL1-TR-000043)





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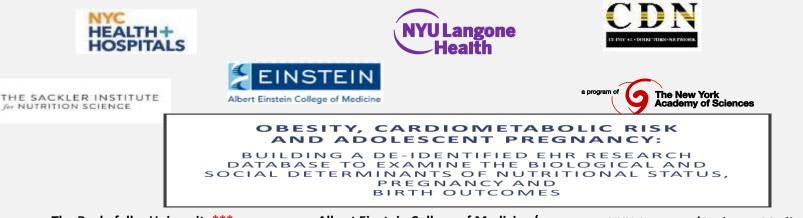


TYPES OF STAKEHOLDERS

- Physicians
 - Pediatrics
 - OBGYN
 - Family Medicine
 - Bariatric Surgery
- Midwives
- Nurses

- Nutritionists
- Researchers
- IT Analysts
- Biostatisticians
- Bioinformaticians
- Basic Scientists
- Funders
- Scientific
 Publishers





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- Rhonda G. Kost, MD
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- Joel Correa da Rosa, PhD
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- ****Principal Investigator**
- ***CTSA hubs



FUNDED BY:

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CROSS-CTSA COLLABORATION

Rockefeller

University





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OBJECTIVES

This community-academic partnership involves the creation of a **multisite de-identified Electronic Health Records (EHR) database** that will demonstrate the feasibility of using available measures conducted as part of routine clinical care to explore associations and identify targets for future interventions that address adolescent nutritional and pregnancy outcomes.

This "Big Data" EHR-based study addresses the disproportionate health burdens experienced by overweight and obese adolescents and their infants up to the age of 24 months.



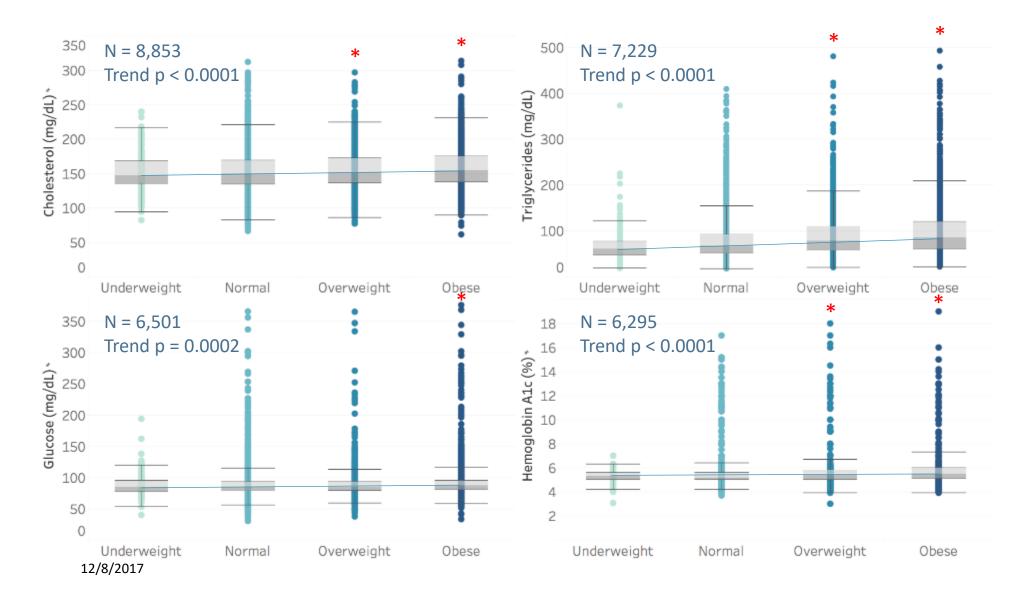








All Females Cardiometabolic Measures (Sites A, B, C, D; n=6,295-8,853)





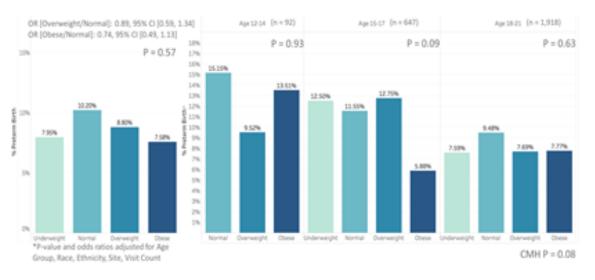




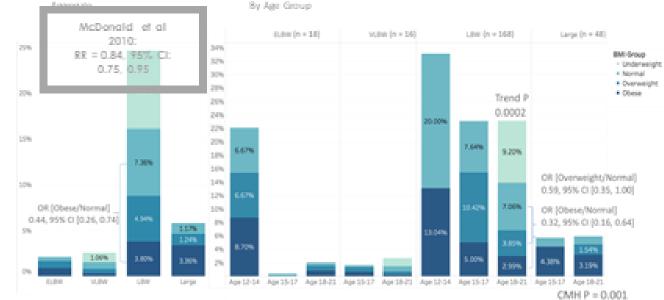




Linking Maternal & Neonatal EHR Data: Maternal Weight Influences Birthweight



Birth Weight by Maternal BMI Group States A, B, C, D (n=2,866)



*P-value and odds ratios adjusted for Age Group, Race, Ethnicity, Site, Visit Count

Source: McDonald SD, Han Z, Mulla S, Beyene J, Knowledge Synthesis Group. Overweight and obesity in mothes: and risk of preterm birth and low birth weight infants: systematic review and meta-analyses. BMU [Internet]. 2010 [cited 2016 Aug 31];341(2)::3428.





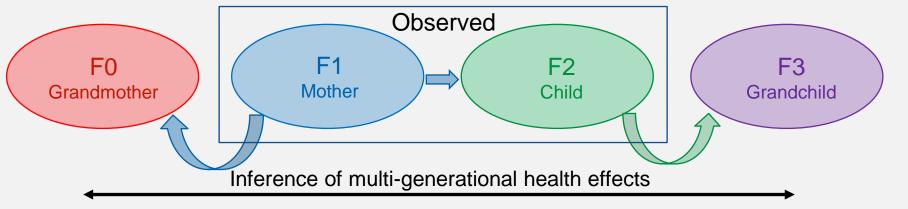




Baby Birth Weight by Maternal BMI Group for Pregnant Adolescents (Sites A, B, C, D: n=2,866)

	Birth Weight Group	U	nderweight (n=94) (3%)	Normal (n=1,278) (45%)	Overweight (n=809) (29%)	Obese (n=685) (23%)	Total (n=2,866) (100%)	P-value
$\left(\right)$	Extremely LBW		0%	0.5%	0.7%	0.9%	0.6%	0.001*
	Very LBW		1.06%	0.7%	0.5%	0.3%	0.6%	
	LBW		8.5%	7.4%	4.9%	3.8%	5.9%	
ſ	Normal		90.4%	90.3%	92.6%	91.7%	91.3%	
	Large		0%	1.2%	1.2%	3.4%	1.7%	

*P-value from logistic regression after combining [ELBW, VLBW, LBW] and [Normal, Large] with BMI group as a continuous variable for trend testing and site as a fixed effect.



50





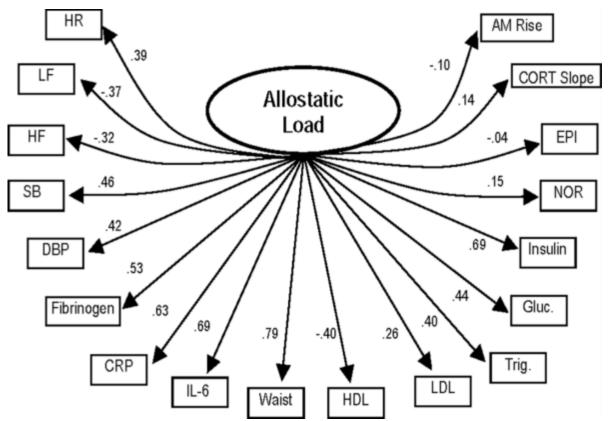
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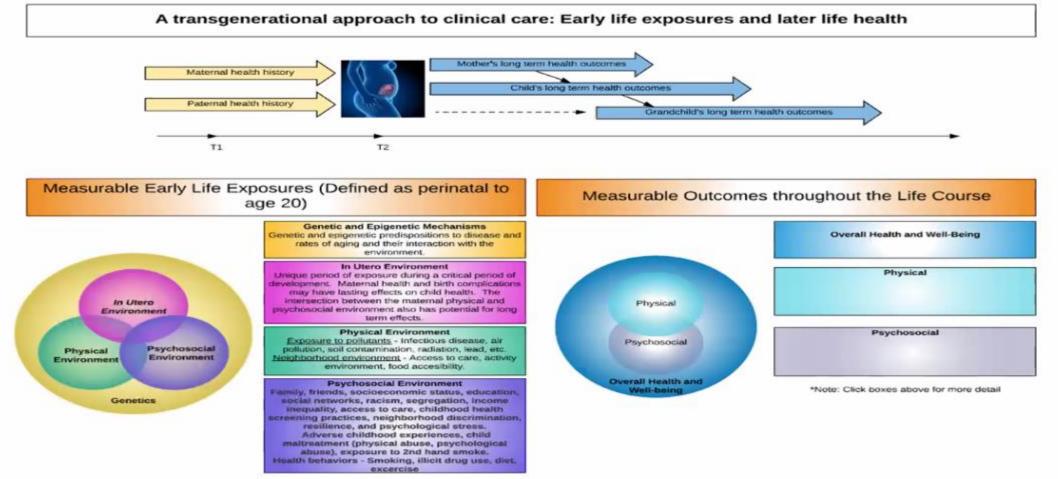
Allostatic Load

- The wear and tear on the body over time
- Reflects impact of life experiences, genetic load, lifestyle habits, developmental experiences, patterns of behavior and physiological reactivity



McEwen BS. Protective and damaging effects of stress mediators: central role of the brain. <u>Dialogues in clinical neuroscience</u>. 2006 Dec;8(4):367. Seeman T, Gruenewald T, Karlamangla A, Sidney S, Liu K, McEwen B, PhD, Schwartz J, "Modeling multi-system biological risk in young adults: the Coronary Artery Risk Development in Young Adults Study (CARDIA)" <u>Am J Hum Biol.</u> 2010 Jul-Aug; 22(4): 463–472.

ELE Conceptual Model



*Note: Click boxes above for more detail



National Center for Advancing Translational Sciences















Intergenerational Consequences: Women's Experiences of Discrimination in Pregnancy Predict Infant Social-Emotional Development at 6 Months and 1 Year

Lisa Rosenthal, PhD,* Valerie A. Earnshaw, PhD,† Joan M. Moore, MA,* Darrah N. Ferguson, BA,* Tené T. Lewis, PhD,‡ Allecia E. Reid, PhD,§ Jessica B. Lewis, MFT, Emily C. Stasko, MPH,¶ Jonathan N. Tobin, PhD,**†† Jeannette R. Ickovics, PhD

ABSTRACT: Objective: Racial/ethnic and socioeconomic disparities in infant development in the United States have lifelong consequences. Discrimination predicts poorer health and academic outcomes. This study explored for the first time intergenerational consequences of women's experiences of discrimination reported during pregnancy for their infants' social-emotional development in the first year of life. Methods: Data come from a longitudinal study with predominantly Black and Latina, socioeconomically disadvantaged, urban young women (N = 704, Mage = 18.53) across pregnancy through 1 year postpartum. Women were recruited from community hospitals and health centers in a Northeastern US city. Linear regression analyses examined whether women's experiences of everyday discrimination reported during pregnancy predicted social-emotional development outcomes among their infants at 6 months and 1 year of age, controlling for potentially confounding medical and sociodemographic factors. Path analyses tested if pregnancy distress, anxiety, or depressive symptoms mediated significant associations. Results: Everyday discrimination reported during pregnancy prospectively predicted greater inhibition/separation problems and greater negative emotionality, but did not predict attention skills or positive emotionality, at 6 months and 1 year. Depressive symptoms mediated the association of discrimination with negative emotionality at 6 months, and pregnancy distress, anxiety, and depressive symptoms mediated the association of discrimination with negative emotionality at 1 year. Conclusion: Findings support that there are intergenerational consequences of discrimination, extending past findings to infant social-emotional development outcomes in the first year of life. It may be important to address discrimination before and during pregnancy and enhance support to mothers and infants exposed to discrimination to promote health equity across the life span.

(J Dev Behav Pediatr 39:228-237, 2018) Index terms: discrimination, disparities, infant development, intergenerational, life span, pregnancy, socialemotional development.

Stress exposure in intrauterine life is associated with shorter telomere length in young adulthood

Sonja Entringer^a, Elissa S. Epel^b, Robert Kumsta^c, Jue Lin^d, Dirk H. Hellhammer^e, Elizabeth H. Blackburn^d, Stefan Wüst^f, and Pathik D. Wadhwa^{ag,1}

¹Department of Pediatrics, University of California, Irvine, CA 92697, ¹Department of Psychiatry, University of California, San Francisco, CA 94143; ¹Department of Psychology, University of Freiburg, 79104 Freiburg, Germany; ⁴Department of Biochemistry and Biophysics, University of California, San Francisco, CA 94143; ¹Department of Clinical and Physiological Psychology, University of Trier, 54290 Trier, Germany; ²Department of Genetic Epidemiology in Psychiatry, Central Institute of Mental Health, 68159 Mannheim, Germany; and ⁹Departments of Psychiatry and Human Behavior, Obstetrics and Gynecology, and Epidemiology, University of California, Irvine, CA 92697

Edited by Bruce S. McEwen, The Rockefeller University, New York, NY, and approved July 15, 2011 (received for review June 3, 2011)

Leukocyte telomere length (LTL) is a predictor of age-related disease onset and mortality. The association in adults of psychosocial stress or stress biomarkers with LTL suggests telomere biology may represent a possible underlying mechanism linking stress and health outcomes. It is, however, unknown whether stress exposure in intrauterine life can produce variations in LTL, thereby potentially setting up a long-term trajectory for disease susceptibility. We, therefore, as a first step, tested the hypothesis that stress exposure during intrauterine life is associated with shorter telomeres in adult life after accounting for the effects of other factors on LTL. LTL was assessed in 94 healthy young adults. Forty-five subjects were offspring of mothers who had experienced a severe stressor in the index pregnancy (prenatal stress group; PSG), and 49 subjects were offspring of mothers who had a healthy, uneventful index pregnancy (comparison group; CG). Prenatal stress exposure was a significant predictor of subsequent adult telomere length in the offspring (178-bp difference between prenatal stress and CG; d = 0.41 SD units; P < 0.05). The effect was substantially unchanged after adjusting for potential confounders (subject characteristics, birth weight percentile, and early-life and concurrent stress level), and was more pronounced in women (295-bp difference; d = 0.68 SD units; P < 0.01). To the best of our knowledge, this study provides the first evidence in humans of an association between prenatal stress exposure and subsequent shorter telomere length. This observation may help shed light on an important biological pathway underlying the developmental origins of adult health and disease risk.

developmental programming | fetal origin

Telomeres are DNA-protein complexes that cap chromosomal ends, promoting chromosomal stability. When cells divide, the telomere is not fully replicated because of limitations of the DNA polymerases in completing the replication of the ends of the linear molecules, leading to telomere shortening with every replication (10). Telomeres that are shortened past a critical length cause the cell to enter a state of arrest (i.e., cell senescence) when cells can no longer divide. Telomeres shorten with age in all replicating somatic cells, including leukocytes (11). Telomerase, a cellular enzyme, provides maintenance of telomeres and can counteract shortening and its functional consequences by adding telomeric DNA to shortened telomeres. Telomere maintenance has relevance for long-term health. Shortened telomere length and/or reduced telomerase activity have been consistently associated with health risk and diseases (12-15). Declines in the telomere/telomerase maintenance system may play a causal role in aging, serve as a biomarker of aging, or both. A recent study in mice suggests that telomerase plays a causal role in aging and regeneration of cells, tissues, and physiological function (16).

Several cross-sectional studies in humans have reported associations between telomere biology and high levels of psychosocial stress exposure (8, 17, 18) or stress biomarkers (17, 19), suggesting that stress-related changes in telomere integrity may be one possible mechanism linking psychosocial stress and agerelated disease (20). Experimentally, high levels of cortisol exposure (a potent stress hormone) have been shown to dampen telomerase activity in leukocytes (21). Behavioral interventions that reduce stress have also been linked to higher telomerase activity. For example, in one study, an intensive lifestyle change roorsam consisting of disting counseling and stress manage-











SACKLER DISSEMINATION

- NIH-NIMHHD/Weill Cornell-Hunter CTSA Conference: "Stress & Resilience: The Science of Adapting to a Challenging World Symposium – 30th Annual Symposium of the Center for Translational and Basic Research Conference" (NYC May 15, 2017)
 Received Best Poster Award: 1st Place (out of 81 posters).
- NIH-NCATS article entitled "NCATS Enables Scientists, Community Clinicians to Collaborate on Health Initiatives" (Posted August 2017 at <u>https://ncats.nih.gov/pubs/features/rockefeller</u>)





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SPECTRUM OF TRANSLATIONAL RESEARCH

	TO	T1	T2	Т3	T4
	Basic and applied science research Preclinical and animal studies	Proof of concept Phase 1 clinical trials	Phase 2 clinical trials Phase 3 clinical trials	Translation to practice Phase 4 clinical trials and clinical	Translation to community Population level outcome research
	Defining mechanisms, targets and lead molecules	New methods of diagnosis, treatment and prevention	Controlled studies leading to effective care	Delivery of recommended and timely care to the right patient	True benefit to society
CAMP2	Metagenomics	Molecular Epidemiology/ Genotyping	Incision & Drainage Antibiogram	CDC Guidelines Dissemination and Implementation	Prevention of Recurrence and Transmission
Sackler	Micronutrient & Macronutrient	Allostatic Load Index	Efficacy and Effectiveness Studies of Health Care: Preconception Prenatal Postnatal Pediatric	Implementation and Dissemination Studies of Health Care: Preconception Prenatal Postnatal Pediatric	Validation with NCHS Surveys and Meta-Analysis

55







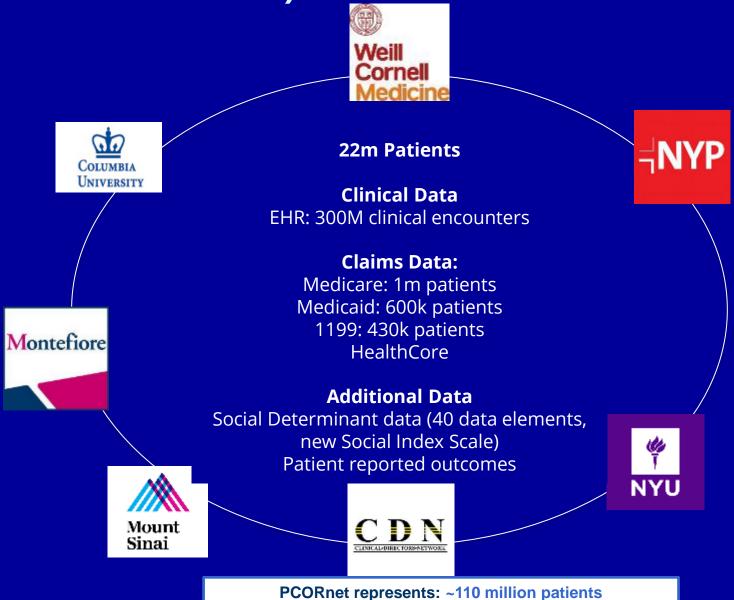


CONDUCTING FULL-SPECTRUM TRANSLATIONAL RESEARCH: BIG DATA MEETS EMBEDDED MECHANISTIC STUDIES

Ana Emiliano, MD MSc Assistant Professor of Medicine Columbia University Medical Center Rockefeller University Clinical Scholar Alumna Rabih A. Nemr, MD FACS General Surgery, Bariatric Surgery Assistant Professor of Surgery NYU Langone Brooklyn (Lutheran) Medical Center Rhonda G. Kost, MD Director, Clinical Research Support Office Co-Director, Community Engaged Research Associate Professor of Clinical Investigation The Rockefeller University Center for Clinical and Translational Science

Jonathan N. Tobin, PhD President/CEO Clinical Directors Network, Inc. Co-Director, Community Engaged Research The Rockefeller University Center for Clinical and Translational Science Professor, Department of Epidemiology & Population Health Albert Einstein College of Medicine/Montefiore Medical Center

NYC Clinical Data Research Network (NYC-CDRN) INSIGHT Network



who have had a medical encounter in the past 5 years

Bariatric Metabolic Outcomes Project (BMOP)

Ana Emiliano MD MSc (2014-2015)

Retrospective Study

Using Electronic Health Records (EHR) data to Examine Measures of change in cardiometabolic parameters (BMI; BP; A1c; FBG; LDL, HDL, TG) and medications before and after bariatric surgery overall and by clinical subgroups (*Diabetes; Obstructive Sleep Apnea; Rheumatoid Arthritis; Depression*)

Prospective Study

Consecutively enrolled bariatric surgery patients will be invited to undergo a brief series of

Questionnaires (completed by a telephone online interview with NYC-CDRN Funding)

- Quality of life SF12; NYC-CDRN Obesity Measures
- Depression PHQ9;
- OSA Eppworth and Stopbang;
- RA Rapid3

Biological Specimens:

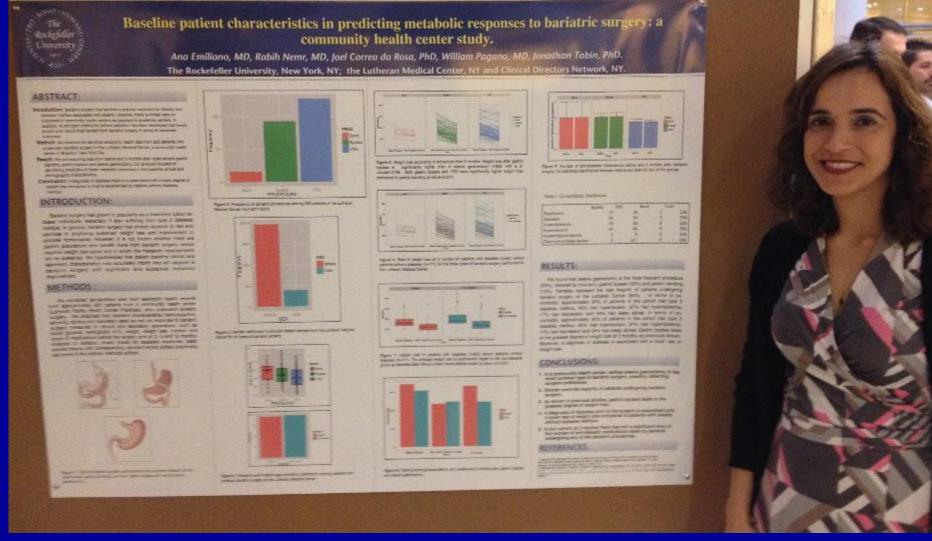
- Blood CRP, ESR, IL-6, leptin, ghrelin, adiponectin
- Rectal swab to characterize the microbiome







58



"Comparative Effectiveness of Bariatric Procedures for Weight Loss and Safety: A PCORnet Cohort Study"

Annals of Internal Medicine – In Press, 2018

M17-2786



Baseline Patient Characteristics in Predicting Metabolic Response to Bariatric Surgery: A Community Health Center Study



Ana Emiliano, MD, Rabih Nemr, MD, Joel Correa da Rosa, PhD, William Pagano, MD, MPH Jonathan N. Tobin, PhD.

The Rockefeller University, New York, NY; the NYU Lutheran Medical Center, Brooklyn, NY and Clinical Directors Network, Inc. (CDN), New York NY

ABSTRACT:

- riatric surgery has become a popular treatment for obesity an diabetes mellitus associated with obesity. However, there is limited data on outcomes in community health centers as opposed to academic centers. In addition, no stringent criteria for patient selection has been developed that would predict who would most benefit from bariatric surgery in terms of metabolic outcomes
- Method: We obtained de-identified electronic health data from 236 patients who underwent bariatric surgery in the NYULutheran Medical Center, a Community Health Center in Brooklyn, New York City.
- Result: We are reporting data from before and up to 6 months after laparoscopic gastric banding, gastric bypass and sleeve gastrectomy. Our analysis focused on identifying predictors of better metabolic outcomes in the baseline clinical and demographic characteristics.
- Conclusion: A diagnosis of diabetes mellitus is associated with a lower degree of weight loss compared to what is experienced by patients without INTRODUCTION:

Bariatric surgery has grown in popularity as a treatment option for obese individuals, especially if also suffering from type 2 diabetes mellitus. In general, bariatric surgery has proven superior to diet and exercise in producing sustained weight loss and improvement in glucose homeostasis. However, it is not known whether there are patient populations who benefit more from bariatric surgery versus medical weight loss alone and in whom the metabolic improvements will be sustained. We hypothesized that patient baseline clinical and laboratory characteristics may accurately inform who will respond to bariatric surgery with significant and sustained metabolic improvement.

METHODS:

We extracted de-identified data from electronic health records from approximately 200 patients from a community health center (Lutheran Family Health Center Practices), who underwent bariatric surgery. We analyzed their baseline characteristics (demographics, ethnicity, clinical and laboratory data) as well as response to bariatric surgery measured in clinical and laboratory parameters, such as blood glucose, hemoglobin A1C, weight, weight loss, number and types of medications before the surgery and a

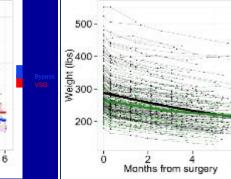




Figure 1. Types of bariatric surgery performed at the Lutheran Medical Center aparoscopic gastric banding; roux-en-Y gastric bypass and vertical sleeve gastrectomy

Characteristic	Bypass (n=93)	VSG (n=122)	P-value	
Age (years)	42.2 ± 10.5	$\textbf{38.9} \pm \textbf{11.4}$	0.03	_
Female (%)	89.2%	81.1%	0.10	Hemoglobin .2
Hispanic ethnicity	53.8%	46.7%	0.30	e
BMI	47.8 ± 6.6	48.5 ± 9.4	0.54	ũ 7.
Weight (lbs)	283.3 ± 54.1	295.1 ± 74.4	0.20	Ξ, '.
Systolic BP (mm Hg)	124.2 ± 15.5	124.5 ± 16.9	0.87	-
Diastolic BP (mm Hg)	77.4 ± 8.4	77.5 ± 9.7	0.92	
Hemoglobin A1c (%)	7.5 ± 1.7	6.5 ± 0.9	0.02	5.
Glucose	134.0 ± 33.5	154.3 ± 30.9	0.25	5.





Months from surgery Figure 2. Both gastric bypass and VSG groups showed decreasing BMI postsurgery with a steeper decrease in the bypass group.

1000

80

60

40

BMI

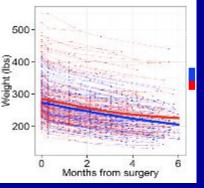


Figure 3. Both gastric bypass and VSG groups lost weight over time with more weight loss in the bypass group.



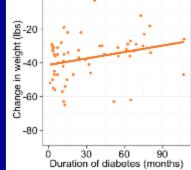


Figure 6. Longer duration of diabetes was associated with less weight loss from bariatric surgery in the subset of 57 subjects with diabetes.

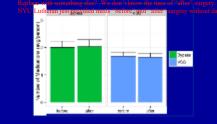


Figure 7. Number of anti-diabetes medications before and after bariatric surgery. No statistical significance between before and after for either group.

Table 2. Comorbid conditions					
Comorbidity	Bypass (n=93)	VSG (n=122)	P-value		
Depression	18.3%	18.0%	0.96		
Diabetes	36.6%	23.8%	0.04		
Hyperlipidemia	31.2%	23.0%	0.18		
Hypertension	49.5%	43.4%	0.38		
Hypertriglyceridemia	3.2%	2.5%	1.00		
Sleep apnea	54.8%	59.8%	0.46		

RESULTS: Non-diabetes

> We found that sleeve gastrectomy is the most frequent procedure (55%), followed by roux-en-y gastric bypass (35%) and gastric banding (10%). Females represent the vast majority of patients undergoing bariatric surgery at the Lutheran Center (90%). In terms of co-morbidity, approximately 30% of patients in this cohort had type 2 diabetes mellitus, 40% had hypertension, 27% had hyperlipidemia, 17% had depression and 54% had sleep apnea. In terms of co-morbidity, approximately 30% of patients in this cohort had type 2 diabetes mellitus, 40% had hypertension, 27% had hyperlipidemia, 17% had depression and 54% had sleep apnea. Gastric bypass leads to the greatest degree of weight loss at 3 months, as previously shown. Moreover, a diagnosis of diabetes is associated with a lower rate of weight loss.

CONCLUSIONS:

- In a Community Health Center, vertical sleeve gastrectomy is the most common type of bariatric surgery, possibly reflecting surgeon preference.
- 2. Women were the majority of patients undergoing bariatric surgery.
- As shown in previous studies, gastric bypass 3. leads to the greatest degree of weight loss.
- A diagnosis of diabetes prior to the surgery is 4. associated with a lower rate of weight loss compared to patients with obesity without diabetes mellitus
- In our cohort, at 3 months there was not a

REFERENCES:

5.

Medicine 2012: 366(17)-1567-76 16 diabetes--3-year outcomes. N

6



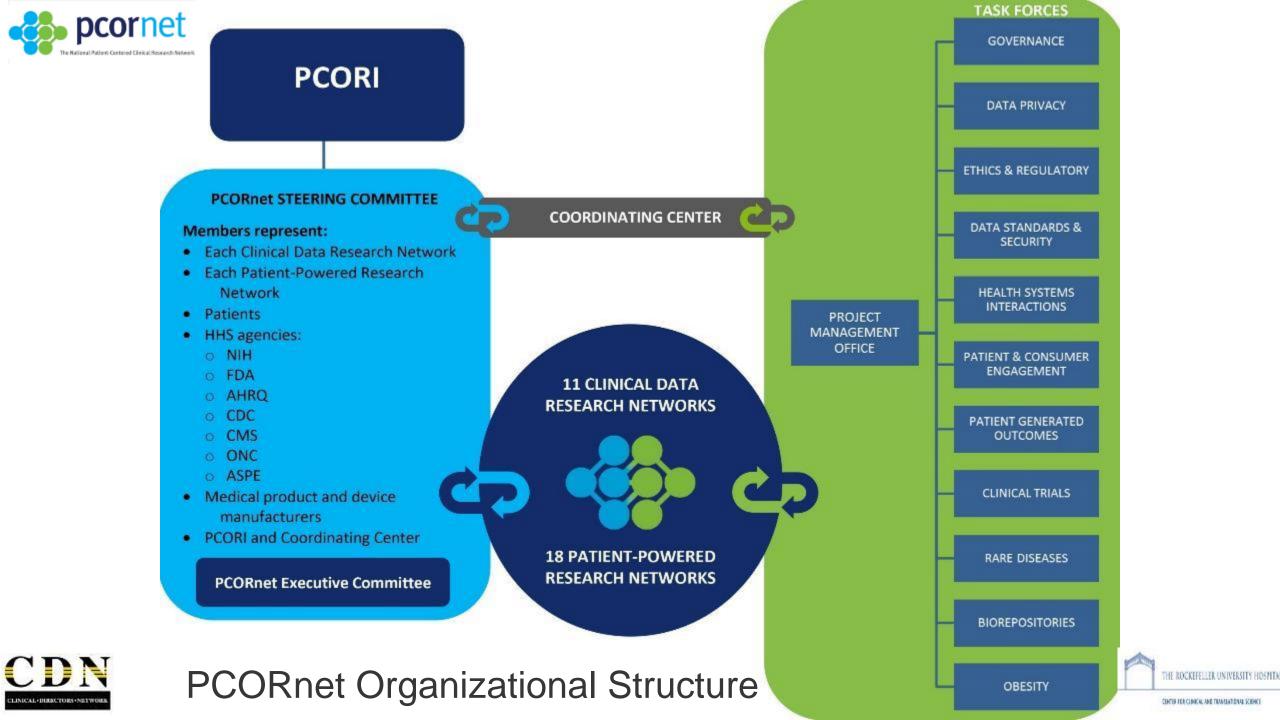
Research." Clinical Epidemiology, 2018, 10:1773-1786. PMID: 30568510

Collaboration with PCORnet Bariatric Study





Paudees, CA. USA: "Department of Medicine, University of Prinburgh. Prinburgh, Prinburgh, VISA portecting methods





- Large diverse population
- Geographic co-location in a fragmented healthcare market
- Centralized structure
- Largest concentration of AMCs





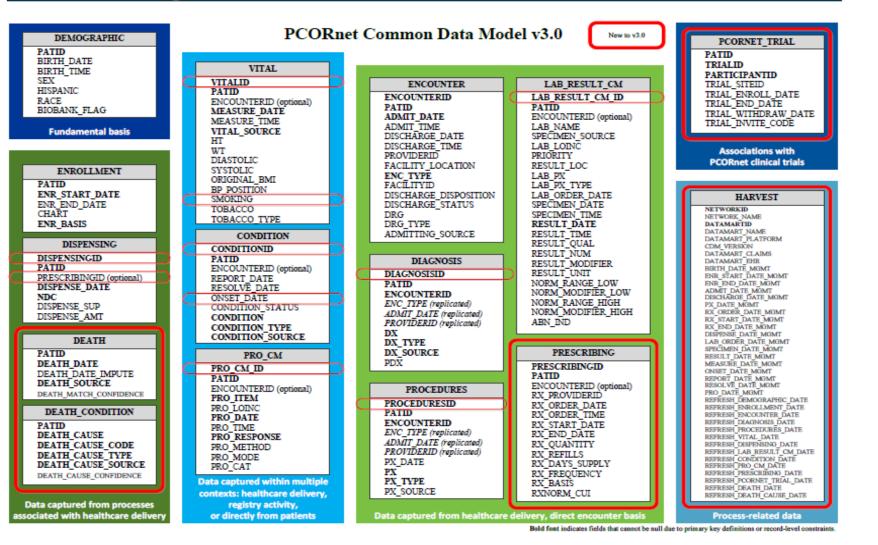
Source: "Introducing PCORnet: The National Patient-Centered Clinical Research Network," http://pcornet.org/resource-center/other-resources/

CENTER FOR CLINICAL AND TRANSLATIONAL SCIENCE



COMMON DATA MODEL

2.4. Overview Diagram







THE ROCKEFELLER UNIVERSITY HOSPITAL

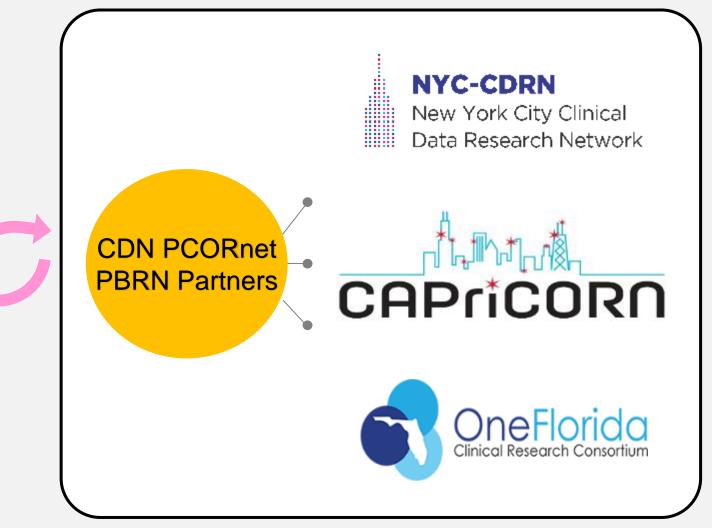


CLINICAL DATA RESEARCH NETWORKS (CDRNs)



CLINICAL DATA RESEARCH NETWORKS (CDRNS)

System-based networks that originate in healthcare systems, such as hospitals, health plans, or practicebased networks, and securely collect health information during the routine course of patient care





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Brief communication



Changing the research landscape: the New York City Clinical Data Research Network

Rainu Kaushal, ^{1,2} George Hripcsak, ³ Deborah D Ascheim, ⁴ Toby Bloom, ⁵ Thomas R Campion Jr, ¹ Arthur L Caplan, ⁶ Brian P Currie, ⁷ Thomas Check, ¹² Emme Levin Deland, ² Marc N Gourevitch, ⁶ Raffaella Hart, ⁸ Carol R Horowitz, ⁴ Isaac Kastenbaum, ² Arthur Aaron Levin, ⁹ Alexander F H Low, ¹ Paul Meissner, ⁷ Parsa Mirhaji, ⁷ Harold A Pincus, ^{2,3} Charles Scaglione, ¹³ Donna Shelley, ⁶ Jonathan N Tobin, ^{10,11} on behalf of the NYC-CDRN

For numbered affiliations see **ABSTRACT**

Correspondence to

end of article.

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Received 28 February 2014 Revised 15 March 2014 Accepted 25 March 2014 The New York City Clinical Data Research Network (NYC-CDRN), funded by the Patient-Centered Outcomes Research Institute (PCORI), brings together 22 organizations including seven independent health systems to enable patient-centered clinical research, support a national network, and facilitate learning healthcare systems. The NYC-CDRN includes a robust, collaborative governance and organizational infrastructure, which takes advantage of its participants' experience, expertise, and history of collaboration. The technical design will employ an information model to document and manage the collection and transformation of clinical data, local institutional staging areas to transform and validate data, a centralized data processing facility to aggregate and share data, and use of common standards and tools. We strive to ensure that our project is patient-centered; nurtures collaboration among all stakeholders; develops scalable solutions facilitating growth and connections; chooses simple, elegant solutions wherever possible; and explores ways to streamline the administrative and regulatory approval process across sites.

health management, patient-centered clinical trials, observational studies, and precision medicine. Specific goals include aggregating data on a minimum of 1 million patients, engaging patients and front-line clinicians in all phases of the project, embedding research activity into the delivery of healthcare, aligning regulatory oversight across multiple health systems, and disseminating study results across healthcare systems.

This paper describes the project's goals, governance and organizational structure, and technical approach.

ORGANIZATIONAL AND SCIENTIFIC APPROACH

The NYC-CDRN includes a robust and collaborative governance and organizational infrastructure, which takes advantage of its participants' experience, expertise, and history of collaboration.

Participating institutions

The NYC-CDRN's participating institutions (table 1) have several notable features that provide an important foundation for the consortium. The NYC-CDRN includes six Clinical and Translational Science Award (CTSA), contemp², which, cleader, collaborate, or



end of article.

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Received 25 March 2014

Revised 4 April 2014

Accepted 8 April 2014

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CAPriCORN: Chicago Area Patient-Centered Outcomes Research Network

Abel N Kho,¹ Denise M Hynes,^{2,3} Satyender Goel,¹ Anthony E Solomonides,⁴ Ron Price,⁵ Bala Hota,⁶ Shannon A Sims,⁶ Neil Bahroos,⁷ Francisco Angulo,⁸ William E Trick,⁸ Elizabeth Tarlov,⁹ Fred D Rachman,¹⁰ Andrew Hamilton,¹⁰ Erin O Kaleba,¹⁰ Sameer Badlani,¹¹ Samuel L Volchenboum,¹² Jonathan C Silverstein,⁴ Jonathan N Tobin,¹³ Michael A Schwartz,³ David Levine,¹⁴ John B Wong,¹⁵ Richard H Kennedy,⁵ Jerry A Krishnan,^{2,7} David O Meltzer,¹¹ John M Collins,¹⁶ Terry Mazany,¹⁷ for the CAPriCORN Team

For numbered affiliations see ABSTRACT

The Chicago Area Patient-Centered Outcomes Research Network (CAPriCORN) represents an unprecedented collaboration across diverse healthcare institutions including private, county, and state hospitals and health systems, a consortium of Federally Oualified Health Centers, and two Department of Veterans Affairs hospitals. CAPriCORN builds on the strengths of our institutions to develop a cross-cutting infrastructure for sustainable and patient-centered comparative effectiveness research in Chicago. Unique aspects include collaboration with the University HealthSystem Consortium to aggregate data across sites, a centralized communication center to integrate patient recruitment with the data infrastructure, and a centralized institutional review board to ensure a strong and efficient human subject protection program. With coordination by the Chicago Community Trust and the Illinois Medical District Commission, CAPriCORN will model how healthcare institutions can overcome barriers of data integration, marketplace competition, and care fragmentation to develop, test, and implement strategies to improve care for diverse populations and reduce health disparities.

PARTICIPATING HEALTH SYSTEMS

CAPriCORN brings together an unprecedented Chicago-wide collaboration between 11 diverse healthcare institutions and multiple partner institutions (table 1). Healthcare institutions include: academic medical centers (Loyola University Health System (LUHS), Northwestern Medicine (NM), NorthShore University HealthSystem (NS), Rush University Medical Center (RU), University of Chicago (UC), and the University of Illinois Hospital and Health Sciences System (UI)); Cook County Health and Hospital System (CCHHS): the Alliance of Chicago's FQHCs (Alliance); two local Department of Veteran's Affairs Hospitals and clinics (HinesVAH and Jesse Brown VA (JBVAMC); and leading pediatric hospitals (Lurie Children's Hospital, Children's Hospital of University of Illinois, and University of Chicago Medicine Comer Children's Hospital). Together, CAPriCORN healthcare institutions provide primary healthcare to over one million patients who mirror the great socioeconomic and racial diversity of our region. Insurance coverage varies from over 70% uninsured

Brief communication





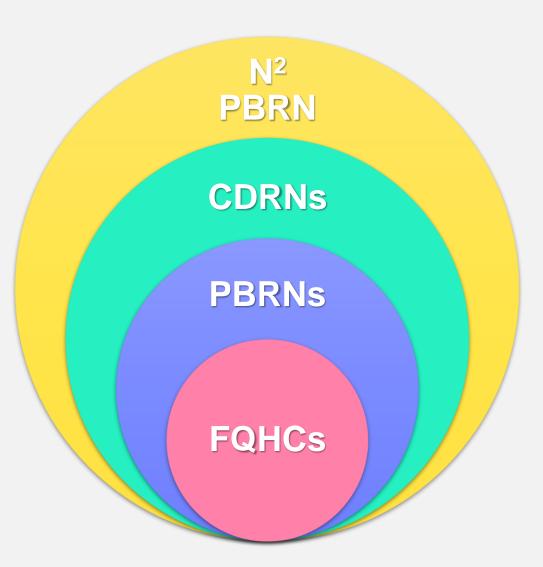
http://jamia.oxfordjournals.org/content/21/4/578



A N² PBRN SCALE-UP MODEL



CDN N²-PBRN HAS BUILT A **SCALABLE RESEARCH INFRASTRUCTURE TO SERVE THE** NEEDS OF THE CLINICIANS WHO **PRACTICE IN THE HEALTH CARE SAFETY-NET BY BUILDING ON EXISTING** INFRASTRUCTURE, CREATING NEW **RELATIONSHIPS PROVIDING EXTERNAL PRACTICE FACILITATORS** (ONLINE, REMOTE), AND **DISSEMINATION CHANNELS**



EXERCISE #2

Translational Research Spectrum

CE Research Partnership Continuum

Exercise #2: Moving Towards More Engaged Translational Research: An Exercise

- 1. Form 2-4 academic and community groups
- 2. Select a health need
- 3. Write your research question
- 4. Brainstorm study aims (minimum 1 community and 1 academic) Hint: Try to span the Translational Research spectrum!
- 5. Indicate with a "X" where your aims and partnership fall on the *Translational Research vs CE Partnership* plot
- 6. Indicate on the CE Partnership Continuum how you could make your project more engaged

The Rockefeller University Clinical Directors Network Introductory Clinical and Translational Science Course 2020-2021 Lecture Four: Full Spectrum Community Engaged Research Exercise 2

Name:

Date:

1. Role (Community or Academic): _

2. Health Need (e.g. Zika, HIV/AIDS, Cardiovascular Disease, Asthma)

3. Research Question

4. Study Aims: (Minimum one each)

Scientific Aim (e.g. reliable diagnosis, HIV vaccine, new statin, development of oral treatment)

Community/Patient-Centered Aim (e.g. avoid mosquito bites, prevent transmission and recurrence)

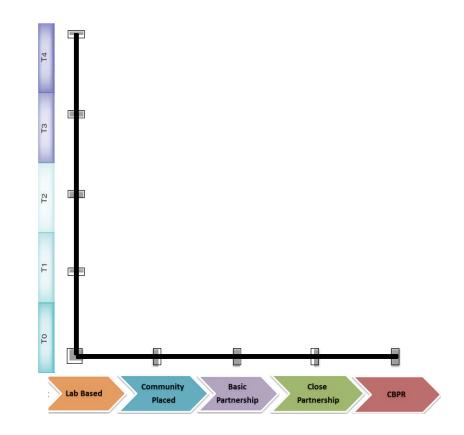
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The Rockefeller University Clinical Directors Network Introductory Clinical and Translational Science Course 2020-2021 Lecture Four: Full Spectrum Community Engaged Research

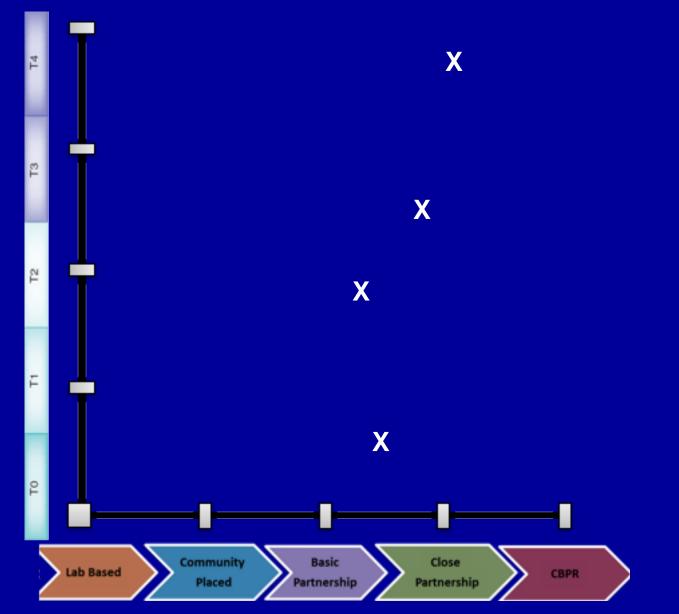
5. Indicate with a "X" where your aims and partnership fall on the *Translational Research vs. Community Engagement/Partnership* Plot.





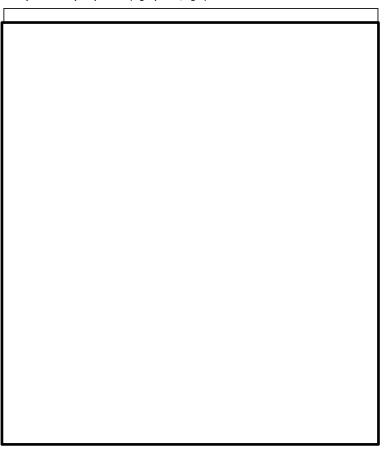


Translational Research vs. CE Partnership



The Rockefeller University Clinical Directors Network Introductory Clinical and Translational Science Course 2020-2021 Lecture Four: Full Spectrum Community Engaged Research

6. How can you make the project more engaged (minimum 3 ideas)? Hint: What activities would allow you to shift your position (e.g. upward, right)







3



Clinical Directors Network, Inc. (CDN) is a not-for-profit clinician membership organization, practice-based research network (PBRN), and clinician training organization, founded to provide peer-initiated activities for clinicians practicing in low income, minority, and other underserved communities. CDN's overall goal is to translate clinical research into clinical practice for the enhancement of health equity and improvement of public health. MORE





Research

CDN was designated a "Best Practice" Clinical Research Network by the NIH (2006).

We accelerate research translation. CDN has over 25 years of experience developing, conducting, implementing and evaluating practice-based research with Community Health Centers and other safetynet practices. MORE



Education

CDN is an AHRQ designated Center of Excellence for Primary Care Practice-Based Research and Learning (2012).

We provide peer support through training and education that integrates online and on-site didactic and experiential learning. Collaborate with us to meet your training needs. MORE



Partnership

CDN has an extensive network of multidisciplinary researchers, clinicians, clinical leaders and policy-makers.

We conduct research and educational activities in partnership with government, academic, not-for-profit, and for profit organizations. Our national network represents an enormous resource for change. MORE



Dissemination

CDN has extensive experience disseminating research and training programs to our extensive network of multidisciplinary researchers, clinicians, clinical leaders and policy-makers.

We provide dissemination services through webcasts for public health and clinical research projects. MORE

www.CDNetwork.org



CTSA Dissemination & Implementation Research Work Group Webcast:

Dissemination and Implementation Science:

What is it and Why is it Critical to Translational Science?

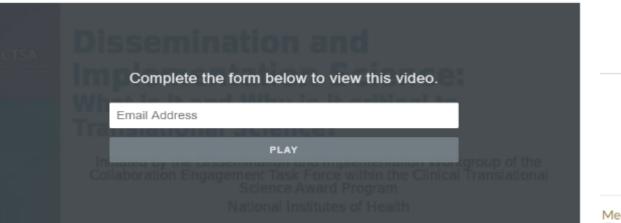




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Dissemination and Implementation Science: What is it and Why is it Critical to Translational Science?



Innovative Strategies to Eliminate HCV June 7, 2019

Q

Medicaid Delivery and Payment Reform: Experience of MA and NY Community Health Centers April 25, 2019

Enola Proctor, PhD, MSW

Speakers:

Director, Center for Dissemination and Implementation at the Institute for Public Health; Director, Center for Mental Health Services Research and Shanti K. Khindka Distinguished Professor at the Brown School

Stephen Bartels, MD, MS

Professor of Geriatrics, and Professor of Psychiatry, Community & Family Medicine, and of Health Policy at The Dartmouth Institute

Laura-Mae Baldwin, MD, MPH (Moderator)

Professor, Department of Family Medicine, Director, Community Engagement, Institute of Translational Health Sciences, University of Washington

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Dissemination of the Rockefeller-CDN Translational Research Model

Innovation Report

Helping Basic Scientists Engage With Community Partners to Enrich and Accelerate Translational Research

Rhonda G. Kost, MD, Andrea Leinberger-Jabari, MPH, Teresa H. Evering, MD, MS, Peter R. Holt, MD, Maija Neville-Williams, MPH, Kimberly S. Vasquez, MPH, Barry S. Coller, MD, and Jonathan N. Tobin, PhD

Abstract

Problem

Engaging basic scientists in communitybased translational research is challenging but has great potential for improving health.

Approach

In 2009, The Rockefeller University Center for Clinical and Translational Science partnered with Clinical Directors Network, a practice-based research network (PBRN), to create a communityengaged research navigation (CEnR-Nav) program to foster research pairing basic science and community-driven scientific aims. The program is led by an academic navigator and a PBRN navigator. Through meetings and joint activities, the program

OPEN BLOG

results through presentations or publi-

cations, and 5 (71%) of 7 projects

publishing results included a community

partner as a coauthor. Of projects with

long-term navigator participation, 9 (of

19; 47%) incorporated T3-T4 aims and

7 (of 19; 37%) secured external funding.

The CEnR-Nav program provides a

model for successfully engaging basic

scientists with communities to advance

and accelerate translational science. This

model's durability and generalizability

have not been determined, but it

achieves valuable short-term goals

community-academic partnerships.

and facilitates scientifically meaningful

Next Steps



hen

uesday, June 19, 2018 from 12:00 PM to 1:00 PM

Add to Calendar

ontact

linical Directors Network, Inc. (CDN) 12-882-0699 ext 248 earning2@CDNetwork.org

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www.CDNetwork.org

Dissemination and Implementation Science: What is it and Why is it Critical to Translational Science?

SPEAKERS:

Enola Proctor, PhD, MSW



Director, Center for Dissemination and Implementation at the Institute for Public Health; Director, Center for Mental Health Services Research and Shanti K. Khindka Distinguished Professor at the Brown School

Stephen Bartels, MD, MS

Professor of Geriatrics, and professor of Psychiatry, Community & Family Medicine, and of Health Policy at The Dartmouth Institute

Laura-Mae Baldwin, MD, MPH

Professor, Department of Family Medicine, Director, Community Engagement, Institute of Translational Health Sciences, University of Washington

Acad Med. 2017;92:374-379.

facilitates basic science-community

conduct of joint research protocols.

From 2009–2014, 39 investigators

the CEnR-Nav program; 25 of those

became 23 approved protocols and

pursued 44 preliminary projects through

2 substudies. They involved clinical scholar

trainees, early-career physician-scientists,

faculty, students, postdoctoral fellows, and

others. Nineteen (of 25: 76%) identified

community partners, of which 9 (47%)

named them as coinvestigators. Nine (of

aims. Seven (of 25; 28%) secured external

25: 36%) included T3–T4 translational

funding, 11 (of 25; 44%) disseminated

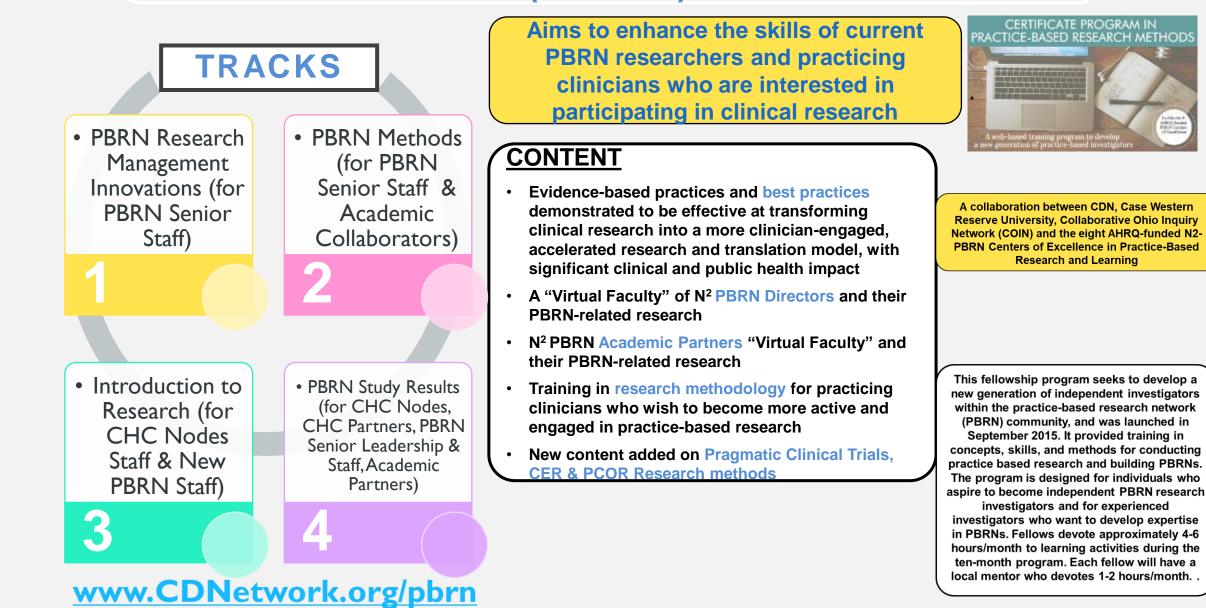
Outcomes

partnerships and the development and

Science?

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THE N² PBRN ONLINE RESEARCH TRAINING CERTIFICATE PROGRAM CURRICULUM (CPBRN)

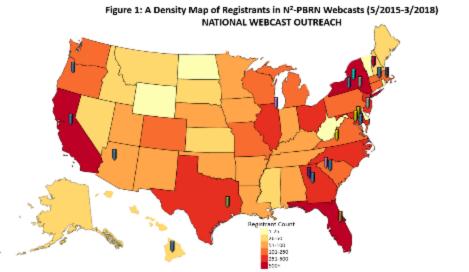




ROCKEFELLER - CDN DISSEMINATION & REACH:



As part of N²-PBRN, a total of **93** N²-PBRN webcasts have been conducted and disseminated to clinicians and researchers across the CTSA, N2-PBRNs, FQHCS (9/2012-3/2018)
 http://www.CDNetwork.org/Rockefeller



• 82 CME credits awarded to participants from 50 US states and territories, including Puerto Rico and the US Virgin Islands

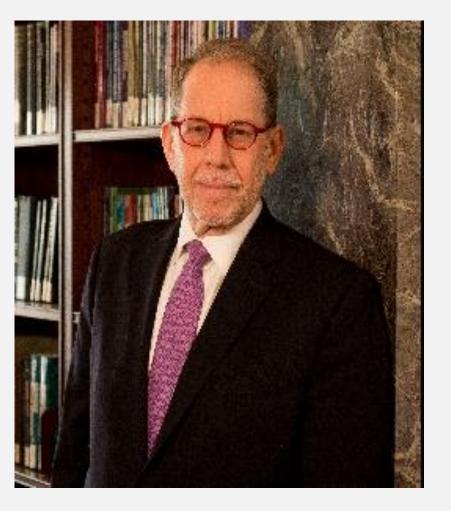
CDN CCHERS NYCRING ACCESS Collaborative CHARN STARNET OneFlorida SERCN CCI Dartmouth

CDN N²-PBRN – Center of Excellence for Primary Care Practice-based Research and Learning funded by AHRQ Grant: P30HS021667

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	Live Viewers	Enduring Viewers	Total Viewers	Credit(s)	% Rated Good to Excellent
Total	10,998	2,860	13,858	89	98 sessions
Averag e	115	30	143	1.11	\bigcirc

Jonathan N. Tobin, PhD, FAHA, FACE





Co-Director, Community Engaged Research Senior Epidemiologist & Adjunct Professor The Rockefeller University Center for Clinical and Translational Science New York NY

Professor, Department of Epidemiology & Population Health Albert Einstein College of Medicine Montefiore Medical Center Bronx NY

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