

# **SNOCAP ANNUAL REPORT**

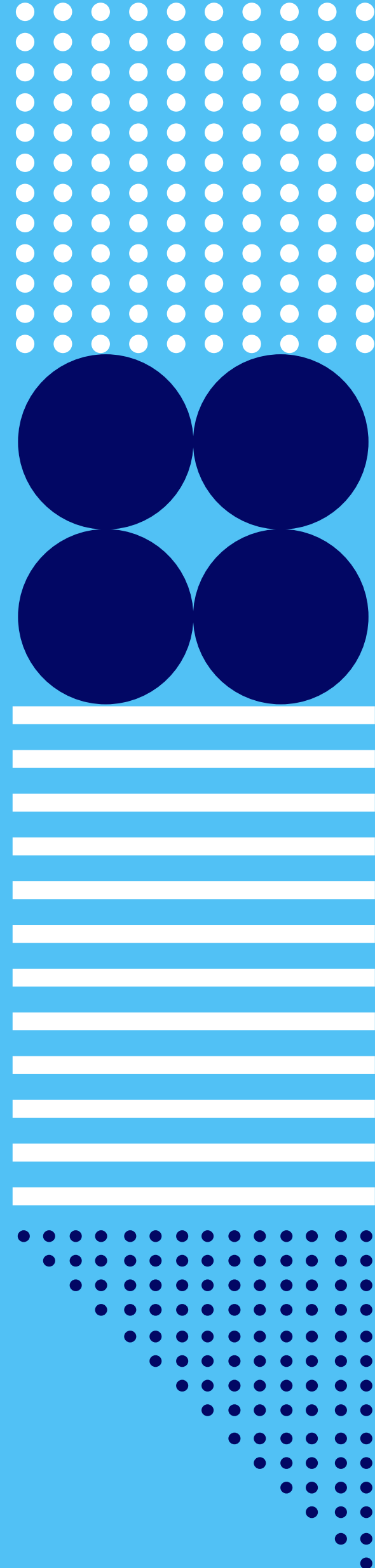


# **SNOCAP**

**State Networks of Colorado Ambulatory Practices & Partners**

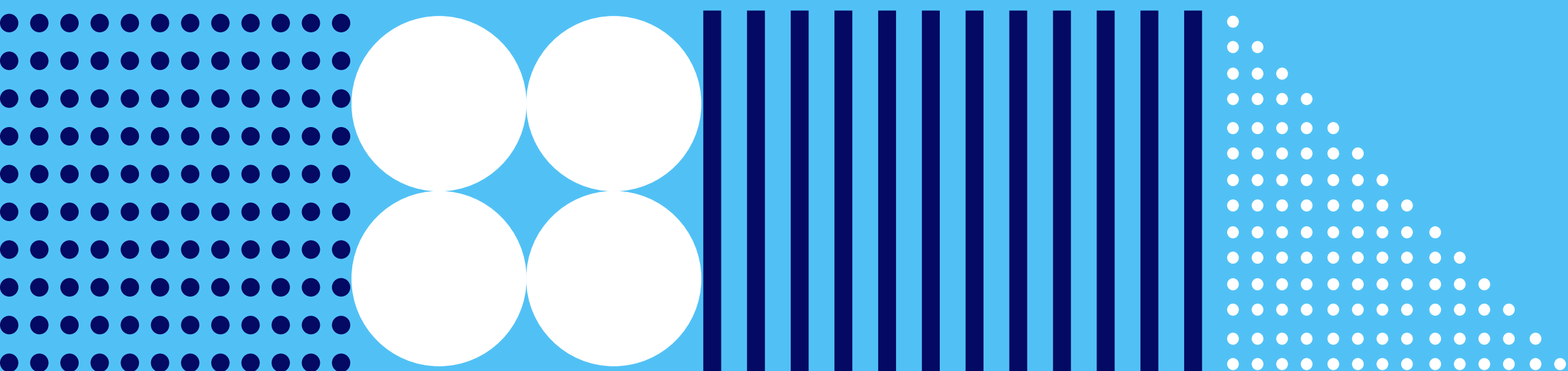
# **2022**

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Scan to view this report's appendices  
and glossary on our website



# Letter from our Director

Dear SNOCAP friends and colleagues,

We are pleased to present this 2022 Annual Report to you. In it you will find news of our activities this past year which included lots of project work and a return to meeting and presenting our work in person at conferences and gathering at the Convening Across Sectors for Colorado's Health Equity and Wellness (CASCHEW) conference in October.

It's been a year when we've begun to see the light at the end of the tunnel with the COVID-19 pandemic, but we know that the impacts are still being acutely felt in our partner practices and communities. Reflective of this, the priority setting session at the CASCHEW conference highlighted the importance of work on Social Determinants of Health and overall Mental Health issues, both of which were negatively impacted during the pandemic.

We've tried to make the report a bit more succinct this year, with embedded links to places on our website where you can go for more information. Please take advantage of these!

Lastly, this report would not exist without the efforts of Mary Fisher, SNOCAP Associate Director and Allison Sands, SNOCAP Administrative Coordinator. They have done an amazing job of pulling these pages together. Please express your thanks to them when you have a chance.

Thank you for your ongoing interest and support of our work,

Don Nease



None of this would be possible without the generous support from the University of Colorado's Department of Family Medicine, ACCORDS, CCTSI, and our many other partners.



Colorado Clinical and Translational Sciences Institute (CCTSI)

UNIVERSITY OF COLORADO DENVER | ANSCHUTZ MEDICAL CAMPUS



ACCORDS

ADULT AND CHILD CONSORTIUM FOR HEALTH OUTCOMES RESEARCH AND DELIVERY SCIENCE

UNIVERSITY OF COLORADO | CHILDREN'S HOSPITAL | COLORADO

# What is SNOCAP?

SNOCAP (State Networks of Colorado Ambulatory Practices and Partners) is the collaborative affiliation of practice-based research networks (PBRNs) in Colorado that joined together around 2004 to improve communication, facilitate joint research projects, and share research staff and resources.

Together, we are  
leading the charge for  
healthier communities

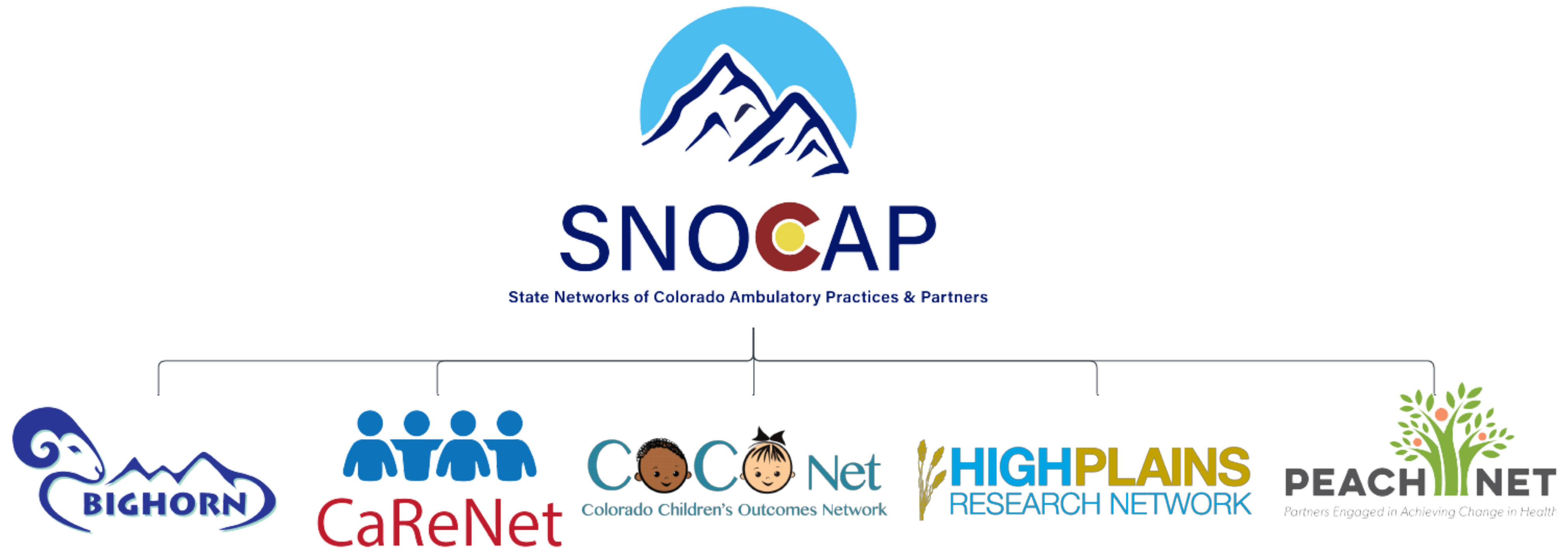


**SNOCAP**

State Networks of Colorado Ambulatory Practices & Partners

# Network Structure

SNOCAP currently includes five separate practice-based research networks (PBRNs), each with their own staff and unique structures. Because of the variation in size, location, populations served, and organizational structures, research conducted across SNOCAP is more generalizable than that conducted in more uniform PBRNs elsewhere.

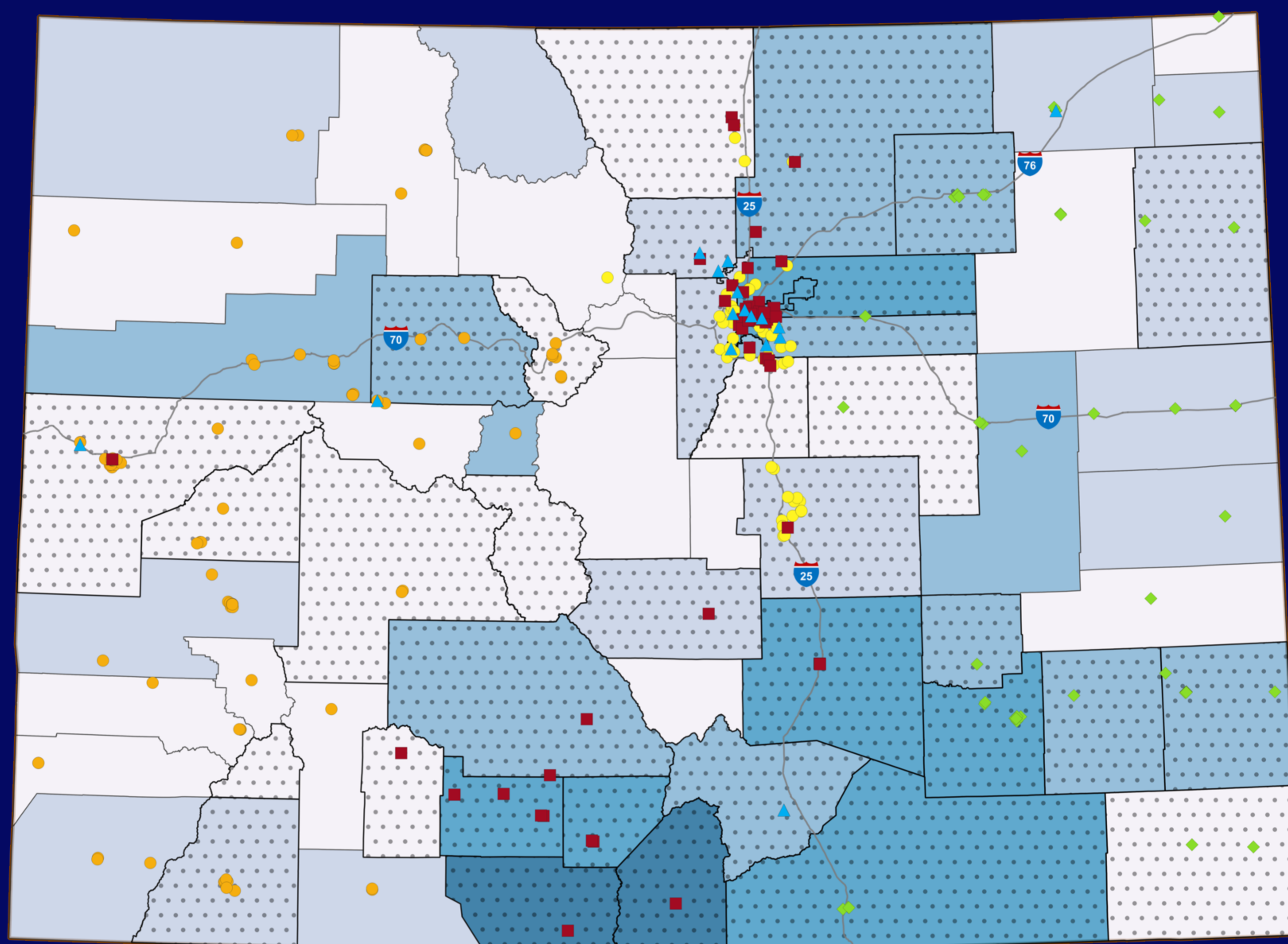


**282** SNOCAP-affiliated practices across Colorado

SNOCAP's practices are...

**51%**  
rural/frontier

**49%**  
urban/suburban



CCTSI Community Engagement & Health Equity Community Research Liaison activity	% People of Color	SNOCAP Practices
	7 - 19%	BIGHORN
	19 - 31%	CaReNet
	31 - 43%	COCONet
	43 - 55%	HPRN
	55 - 67%	PEACHnet

# Year at a Glance

**29**  
active  
projects

**24**  
funding  
sources

**16**  
priority  
topics

**31**  
presentations

**19**  
publications

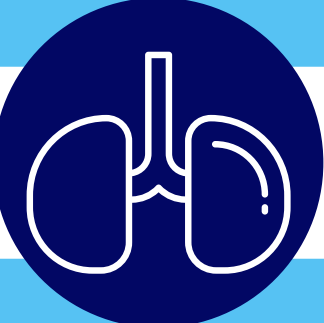
## Self Study and External Review

In 2022, SNOCAP began an external review process involving each network and SNOCAP overall preparing self-study reports, a site visit by our external reviewers in October, and a final report that was shared near the end of the year. As of early 2023, we are working through a process of digesting the report and listening to our stakeholders to decide next steps. Overall, the reviewers acknowledged our past success and leadership, but encouraged us to re-imagine how we do our work in several areas. We are excited to move this process forward.

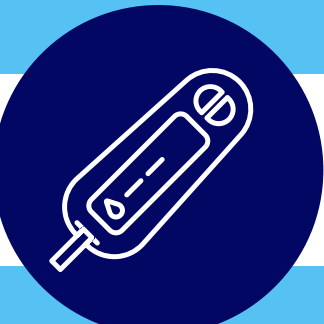
# Projects and Priorities Addressed

Below are topics from SNOCAP priority setting session in recent years. Look for these icons throughout the report to find where these topics are being addressed within our current work.

## Health Topics



COPD



Diabetes



Dementia



Elderly Health



Alcohol & Drug Misuse Interventions



Substance Abuse/Mental Health Overlap



Pediatric Mental Health

## Social Topics



Social Determinants of Health



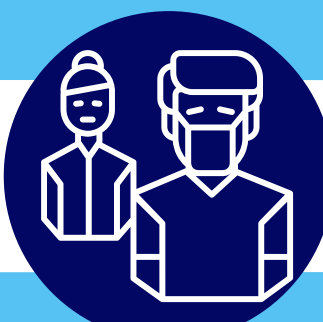
Health Equity



Immunization Delivery, Hesitancy, and Refusal



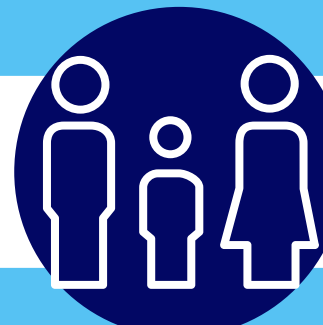
Reproductive Health & Justice



Social Isolation & Loneliness



Mental Healthcare Access and Community Resources



Affordable/High Quality Childcare

## Practice Resources



Workforce Burnout and Staffing



Implementation & Patient Resources

Priority items marked with a star were identified at SNOCAP's priority setting session at CASCHEW in October 2022.



The complexity and overlap between these priority topics reflect the rich concerns and needs of our practices and communities.



# Building Investigative practices for better Health Outcomes Research Network

Director: Doug Fernald [doug.fernalld@cuanschutz.edu](mailto:doug.fernalld@cuanschutz.edu)

BIGHORN is a network of private primary care practices in Colorado comprised of practices representative of busy community practices in both urban and rural areas across the state. BIGHORN's mission is to transform a network of private practices into a community of reflective, investigative practices and their patients, thereby enhancing the quality, safety, efficiency, and accessibility of primary care health through practice-based research. BIGHORN has completed studies on patient safety, underinsurance, direct-to-consumer advertising, health information technology, and chronic pain with funding from the Centers for Disease Control and Prevention, Agency for Healthcare Research and Quality (AHRQ), and National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK).

## Active Projects



### Practice Facilitation to Enhance Implementation of a Pediatric Suicide Prevention Care Pathway

**Funded by:** National Institute of Mental Health (NIMH)

*This project is a pilot test of practice-based education and screening intervention in primary care.*

## Dissemination

### "We've Really Built Something": Why Family Medicine Program Directors Stay in Their Positions - A Qualitative Study

Published in the *Journal of Graduate Medical Education*, August 2022.

### Growing and Adapting PBRN Research During a Pandemic: A CASFM PBRN Workshop

Presented at NAPCRG Practice-Based Research Network Conference in Bethesda, MD, June 2022.

### Building on the Six Building Blocks: Supporting Colorado Safety-Net Clinics to Implement Safe Opioid Management

Presented at NAPCRG Practice-Based Research Network Conference in Bethesda, MD, June 2022.

### Scaling Up Field Notes for Research: What We Learned About Using Field Notes in Multiple Practice-Based Interventions

Presented at NAPCRG Practice-Based Research Network Conference in Bethesda, MD, June 2022.

### Why Do Program Directors Leave Our Positions? And Why Do We Stay?

Presented at AAFP Residency Leadership Summit in Kansas City, MO, March 2022.

### The PRimary care Education and Practice Adoption Resource Evaluation for Continuous Glucose Monitoring (PREPARE 4 CGM) Study

Presented at 50th NAPCRG Annual Meeting in Phoenix, AZ, November 2022.

*For more information about BIGHORN, visit our website.*





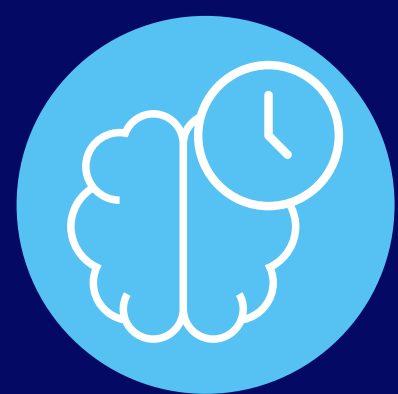
# Colorado Research Network

Director: Don Nease [donald.nease@cuanschutz.edu](mailto:donald.nease@cuanschutz.edu)  
Manager: Mary Fisher [mary.fisher@cuanschutz.edu](mailto:mary.fisher@cuanschutz.edu)

CaReNet is a network of practices that care for vulnerable populations, including Federally Qualified Health Centers (FQHCs), FQHC look-alikes, and residency practices. CaReNet is a network of nearly 450 clinicians (family physicians, general internists, general pediatricians, and nurse practitioners) in both urban and rural practices, located along the front range, as well as in the San Luis Valley (SLV) in south central Colorado.

The purpose of CaReNet is to improve health and well-being by the application of the methods of science to questions important to primary care clinicians, their patients, and their communities. CaReNet is committed to questions with the potential to understand health, disease, and illness, and the roles and values of primary care, with a particular focus on disadvantaged populations.

## Active Projects



### Extraordinary Partners in Dementia: UCHealth Capacity for Pragmatic Interventions

**Funded by: National Institute on Aging**

*To understand Persons Living with Dementia and care partner perspectives on dementia health IT tools, focusing on underserved populations; to assess clinician preferences related to implementation and sustainability of dementia health IT tools in outpatient workflows; and to plan for embedded dementia health IT tool trials through building EHR capacity.*

## Dissemination

### Engaging a Diverse Patient and Care Partner Council to Redefine Dementia Care Digital Health Tools

Presented at the Gerontological Society of America Annual Scientific Meeting in Indianapolis, IN, November 2022

### NAPCRG Diamonds: Patient Clinician Dyads

Presented by Marcia and Kenneth Dailey, along with Don Nease, at the 50th NAPCRG Annual Meeting in Phoenix, AZ, November 2022.

## CaReNet Patient Partners Research Council (PPRC)

Formed in 2010, the CaReNet PPRC gathers regularly (every other month) to serve as patient experts, fully involved in research processes from inception to dissemination. The CaReNet PPRC consists of 12 patient partners, mainly retired professionals from a variety of fields: engineering, education, sales, nursing, accounting, real estate, and government, who live, work, and play in the Denver/Aurora metro area of Colorado. This group is staffed out of the University of Colorado Anschutz Medical Campus in the Department of Family Medicine.



*Pictured: CaReNet Patient Partners Research Council (PPRC), 2018*

**For more information about CaReNet, visit our website.**





# Colorado Children's Outcomes Network

Director: Sean O'Leary [sean.oleary@cuanschutz.edu](mailto:sean.oleary@cuanschutz.edu)  
Associate Director: Sarah Brewer [sarah.brewer@cuanschutz.edu](mailto:sarah.brewer@cuanschutz.edu)

COCONet is a network of pediatric and child health focused practices that works to improve the health and well-being of Colorado children and families. COCONet's mission is to conduct collaborative practice-based research and quality improvement that informs real-world clinical practice to improve the health and well-being of Colorado children and families. COCONet supports and conducts studies and projects to improve children's health and is committed to connecting practicing physicians and researchers to examine the most pressing questions facing pediatric providers in Colorado.

COCONet has a Network Advisory Board (NAB), as well as a Steering Committee, that both meet as-needed to discuss priority topics and to participate in projects and grant writing. The COCONet NAB meets each quarter and focuses meetings on current and developing projects.

## Dissemination

### **Motivational Interviewing for Maternal Immunizations: Intervention Development**

Published in *Vaccine*, November 2022.

Presented at the Pediatric Academic Societies (PAS) Meeting, April 2022.

### **Parent Attitudes Towards Childhood Vaccines After the Onset of SARS-CoV-2 in the United States**

Published in *Academic Pediatrics*, November-December 2022.

### **Multi-tiered Intervention to Increase Maternal Immunization Coverage: A Randomized, Controlled Trial**

Published in *Vaccine*, June 2022.

### **MomsTalkShots, tailored educational app, improves vaccine attitudes: a randomized controlled trial**

Published in *BMC Public Health*, November 2022.

For more information about COCONet, visit our website.



## Active Projects



### **Evaluation of the Presumptively Initiating Vaccination and Optimizing Talk with Motivational Interviewing (PIVOT with MI) Intervention**

**Funded by:** National Institutes of Health (NIH)

*PIVOT with MI aims to adapt motivational interviewing to the ob-gyn setting to provide information about how to improve provider communication and increase vaccine uptake among pregnant women.*



### **Engaging practices and communities in the development of interventions to promote HPV vaccine uptake**

**Funded by:** National Institutes of Health (NIH)

*The overall goal of this project is to engage key stakeholders with providers and researchers to develop and evaluate the impact of a novel and innovative, community-engaged intervention strategy for improving the uptake of HPV vaccine in the primary care setting.*



### **Adapting Motivational Interviewing for Maternal Immunization (MI4MI)**

**Funded by:** National Institutes of Health (NIH)

*A significant barrier to vaccine uptake is the lack of evidence to guide provider communication with patients who have concerns about vaccines. This novel study adapts motivational interviewing to the OB-GYN setting to provide information about how to improve provider communication and increase vaccine uptake among pregnant women.*



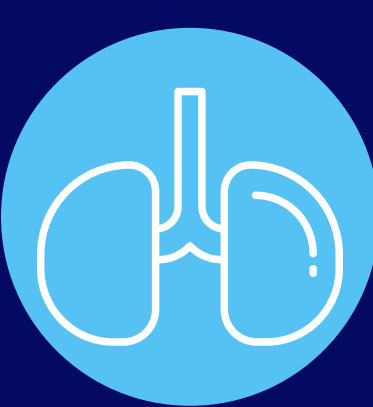
### **The HPV9-10 Trial: Early Initiation of HPV Vaccination**

**Funded by:** National Institutes of Health (NIH) and National Cancer Institute (NCI)

*This cluster-randomized trial among >30 practices in Colorado and Southern California seeks to assess the comparative effectiveness of recommending the HPV vaccine at ages 9-10 vs. ages 11-12 years for improving HPV vaccination uptake.*

HPRN is a geographically based network of health care teams in rural eastern Colorado. Established in 1997, HPRN is an integrated rural network of clinicians and health care facilities located in the 16 counties of eastern rural Colorado. The HPRN region covers 30,000 square miles and is home to approximately 150,000 people, 30% of whom are Hispanic. HPRN includes 16 hospitals ranging from six to forty acute care beds all between 50 and 180 miles from the closest tertiary care center, 53 primary care practices, 15 nursing homes, 3 home health agencies, 4 public health departments, and 3 hospice organizations. Eight of the Colorado counties served by HPRN clinics have been officially designated Health Professional Shortage Areas, and 4 are Medically Underserved Areas. HPRN's mission is to provide excellent rural health care by translating the best scientific evidence into every day clinical practice.

## Active Projects



### COPD Assessment in Primary Care to Identify Undiagnosed Respiratory Disease and Exacerbation Risk (CAPTURE)

**Funded by:** National Heart, Lung, and Blood Institute of the National Institutes of Health

*A partnership with the Cornell University to conduct a randomized clinical trial testing a simple case finding tool to identify individuals in primary care settings with "clinically significant COPD," those most likely to benefit from currently available therapies.*



### Tackling Loneliness with Communities (TLC)

**Funded by:** Colorado Clinical and Translational Sciences Institute's Community Engagement Pilot Grant Awards

*A pilot study using a community-engaged approach to partner with community members in eastern Colorado to better understand loneliness and social connection and coping strategies.*



### Changing Our Mental and Emotional Trajectory (COMET)

**Funded by:** SNOCAP Internal Funds

*A very upstream approach to address mental and emotional health issues before they become a crisis. Offering the COMET Train the Trainer Program and ongoing evaluation.*

## Dissemination

**Informing a Randomized Control Trial in Rural Populations: Adaptation of a Diabetes Self-Management Education and Support Intervention**  
Published in *JMIR Diabetes*, June 2022

**The Balance Between Serving the Community and the Reality of Treating Opioid Use Disorder in Rural Primary Care Practices**  
Published in the *Journal of Health Care for the Poor and Underserved*, February 2022.

**Changing Our Mental and Emotional Trajectory to Improve Mental Health in Rural Communities: the COMET Program**  
Presented at the NAPCRG Annual Meeting in Phoenix, AZ, November 2022.  
Presented at Public Health in the Rockies in Keystone, CO, September, 2022.

**Qualitative Findings of a Culturally-Tailored Rural Diabetes One-Day DSMES Program in Eastern Colorado**  
Presented at the American Diabetes Association's 82nd Scientific Sessions in New Orleans, LA, June 2022.

## HPRN Community Advisory Council (CAC)

The HPRN has an active Community Advisory Council (CAC) that was established in 2003 and consists of 12 local residents of eastern Colorado, including farmers, ranchers, teachers, para-health professionals, small business workers, office workers, students, and retirees. By joining the best science with the best community knowledge, HPRN and the CAC can produce something better than either could alone.

*For more information about HPRN, visit our website.*



Starting in 2017, interest for a new PBRN on the Western Slope grew as a few practices became involved in PBRN projects and recognized that very few others were involved. In addition, there are issues specific to the geographic region that likely require asking different questions and potentially using different research strategies to answer them. The model for this PBRN is one that includes health care related organizations as well as practices and practitioners, as well as several different organizations ranging from academic institutions to Health Information Technology companies. Due to this scope of involvement, the network is called PEACHnet, which stands for Partners Engaged in Achieving Change in Healthcare Network.

## Active Projects



### Campeones de la Salud (Health Champions)

**Funded by:** Eagle County Department of Public Health and Environment/US Department of Health and Human Services

*Campeones de la Salud (CDLS) is a two-year initiative to improve health literacy and the accessibility of the health care system to Hispanic/Latinx patients and Spanish speakers in Eagle, Lake, Garfield, and Mesa counties.*



### Recognizing Adults with Developmental Disabilities in Self-Advocacy Through Engagement (RADIATE)

**Funded by:** Patient-Centered Outcomes Research Institute (PCORI)

*RADIATE is a project supported by a Eugene Washington Engagement Award intended to develop community coalitions and a research agenda focused on young adults with intellectual and developmental disabilities, health promotion and social needs.*



### COIS3: Pragmatic Approaches to Assess and Enhance Value of Cancer Prevention and Control in Rural Primary Care

**Funded by:** National Institutes of Health (NIH) and National Cancer Institute (NCI)

*The COISC3 is a P50 Cancer Center exploring new approaches using implementation science for cancer prevention and control. PEACHnet practices participated in pilot programs, a needs assessment and an administrative supplement exploring cancer screening and social needs.*



**For more information about PEACHnet, visit our website.**

## Dissemination

### IMAGINE: A Trial of Messaging Strategies for Social Needs Screening and Referral

Published in the *American Journal of Preventative Medicine*, September 2022.

### Implementing Health-Related Social Needs Screening in Western Colorado Primary Care Practices

Published in *Health & Social Care in the Community*, February 2022.

### Multi-stakeholder Perspectives on Data Sharing to Address Patient Food Insecurity

Published in the *Journal of the American Board of Family Medicine*, January 2022

### Growing PEACHnet: Building a Practice-Based Research Network in Western Colorado

Published in the *Journal of the American Board of Family Medicine*, January 2022.

### Suicide Prevention - Unified Research: Developing Capacity for Community-Engaged Suicide Prevention Research in Western Colorado

Presented at the NAPCRG Annual Meeting in Phoenix, AZ, November 2022.

### "What Business is it of Yours?": Patient Recommendations for Communication about Health-Related Social Needs Screening in Western Colorado Primary Care Practices

Presented at the Public Health in the Rockies Conference in Keystone, CO, September 2022.



*Pictured: PEACHNet Regional Advisory Board (RAB), 2022*

# SNOCAP Projects

SNOCAP-wide projects are collaborations between two or more practice-based research networks (PBRNs). Selected SNOCAP-wide projects are highlighted on this page.

## Home vs. Office Medication Effectiveness Research (HOMER)

**Funded by:** Patient-Centered Outcomes Research Institute (PCORI)

*HOMER is a randomized, parallel group, three-arm pragmatic comparative effectiveness trial that compares standard Medication-assisted treatment (MAT) office induction with induction that occurs at home, either through telehealth or with office support.*



## Patient-Perception of Primary Care Practice Burnout Card Study

**Funded by:** SNOCAP Internal Funding

*SNOCAP was tasked by patient, practice, and community partners to explore the prevalence of clinic staff burnout. Burnout is being described in this project as "physical or mental collapse caused by overwork or stress." The aim of this study is to examine the patient view of burnout at the clinic where they receive care, partnering patient views with a survey of clinic team members themselves.*



## MetaLARC: A Community-Based Assessment of Skin Care, Allergies, and Eczema (CASCADE)

**Funded by:** Oregon Health and Science University

*CASCADE is a pragmatic community-based randomized controlled trial investigating whether daily full-body emollient therapy starting in the first two months of life prevents atopic dermatitis (AD) and analyzes whether a family history of allergic disease and key early life exposures modify the preventive effect of emollient therapy on AD.*



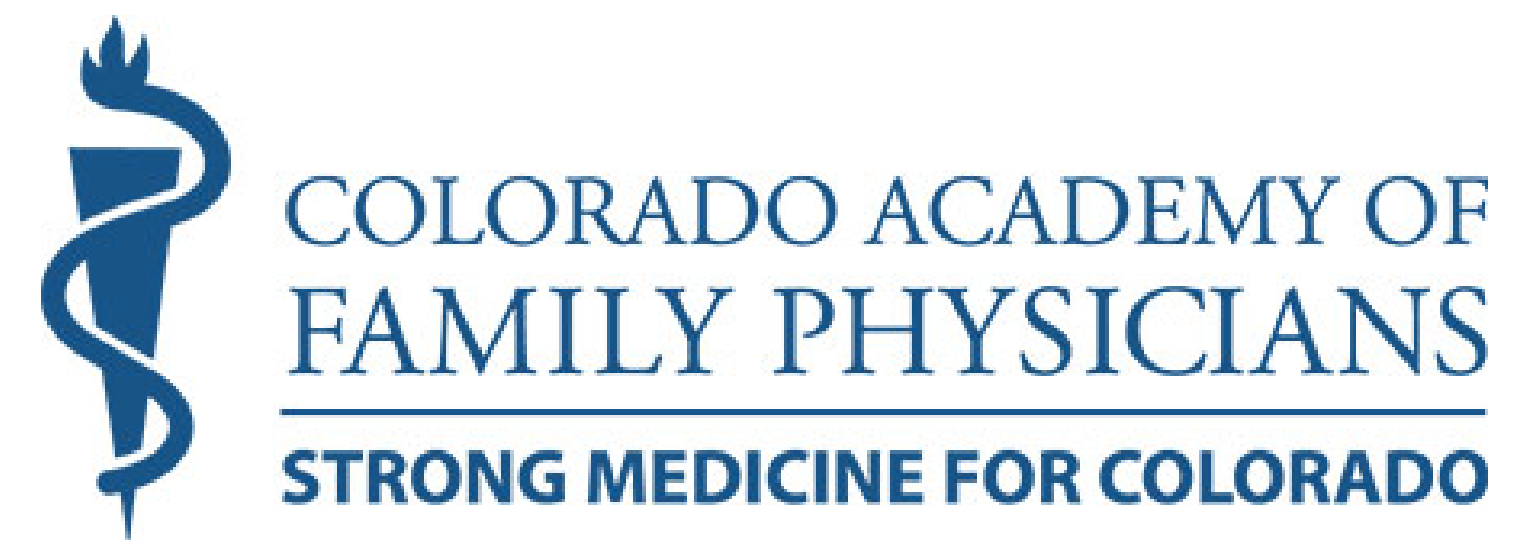
## Facilitating Alcohol Screening and Treatment (FAST)

**Funded by:** Agency for Healthcare Research and Quality

*Cluster randomized trial to examine effectiveness and relative value of two approaches to supporting primary care practices to improve their identification and treatment of unhealthy alcohol use among adults, including screening, brief intervention, medication assisted therapy, and referral to treatment.*



# Partners in this Work



Colorado Family Medicine Residencies



## SNOCCAP

State Networks of Colorado Ambulatory Practices & Partners

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