## **Equity-focused Dissemination & Implementation Webinar Series**

October 24, 2022 4-5 PM EST	Principles, Methods, and Systems for Designing for Dissemination, Sustainability, and Equity Bethany M. Kwan, Ph.D., M.S.P.H., University of Colorado
November 1, 2022 4-5 PM EST	Leveraging Technology and Community Engagement to Address Barriers to Care for People with Fetal Alcohol Spectrum Disorders Christie Petrenko, Ph.D., URMC.
November 8, 2022 3-4 PM EST	Equity-Oriented Implementation Studies: Reflections from a Learner Ana A. Baumann, Ph.D., Washington University School of Medicine
November 15, 2022 4-5 PM EST	Advancing Quality Improvement with Implementation Science Amy Tyler, M.D., M.S.C.S., University of Colorado





Principles, Methods, and Systems for Designing for Dissemination, Sustainability, and Equity

Bethany M. Kwan, PhD, MPSH October 24, 2022 Presentation to UR CTSI EQ-DI



## Learning Objectives

Upon completion of this session, participants will be able to:

- Describe the principles of Designing for Dissemination, Sustainability, and Equity (D4DSE): beginning with the end in mind, ensuring innovation-context fit, and planning for active dissemination
- Identify frameworks and methods useful for designing and disseminating a range of research products from a D4DSE perspective
- 3. Describe the phases of the Fit to Context Framework for D4DSE

### Barriers to Dissemination and Sustainability







Poor fit between health innovations and intended context for use

Research paradigms used to develop and test programs

Cultures and systems that fail to incentivize and support active dissemination and translation of evidence into practice

## Designing for Dissemination and Sustainability (D4DS)



#### **Principles and methods for:**

Enhancing the fit between a health program, policy, or practice and the context in which it is intended to be adopted

Early and active dissemination and sustainability planning.



#### **Designing for dissemination**

the process of ensuring that the products of research are developed to match the contextual characteristics of the target audience and setting for intended use

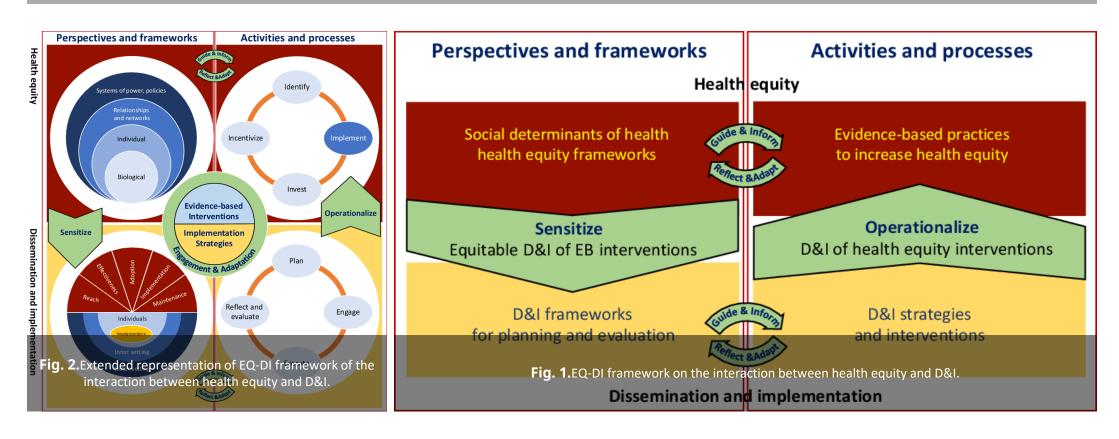


#### **Designing for sustainability**

early planning and design processes designed to increase the likelihood of sustainment of an evidence-based program or practice after initial implementation

<u>Designing for Dissemination and Sustainability to Promote Equitable Impacts on Health</u> Bethany M. Kwan, Ross C. Brownson, Russell E. Glasgow, Elaine H. Morrato, Douglas A. Luke, Annual Review of Public Health 2022 43:1, 331-353

## Designing for Equity



Yousefi Nooraie, R., Kwan, B., Cohn, E., AuYoung, M., Clarke Roberts, M., Adsul, P., & Shelton, R. (2020). Advancing health equity through CTSA programs: Opportunities for interaction between health equity, dissemination and implementation, and translational science. *Journal of Clinical and Translational Science*, *4*(3), 168-175. doi:10.1017/cts.2020.10

## Innovations: The Products of Research

#### **Evidence**

 The generalizable knowledge resulting from the conduct of research and evaluation

## Programs, Treatments, Interventions, and Services

 Health promotion and/or disease prevention or educational programs, interventions, initiatives, treatments, or services

#### **Technology and Infrastructure**

 Devices, software, hardware, web-based and other tools and equipment for disease prevention or management, research, evaluation, or educational purposes

## Dissemination and Implementation Strategies

 Methods, approaches, guides, or materials, for dissemination, implementation, and sustainment of effective, equitable, and efficient public health and health care practices in real world settings

#### **Policy and Guidelines**

 Local and/or national public health and health care guidelines, standards, and policies emerging from the evidence base

#### Methods

 Research and evaluation techniques, instruments, tools, models, measures and/or equipment

What is being designed for dissemination, sustainability, and equity?



Beginning with the end in mind

## Principles of D4DS

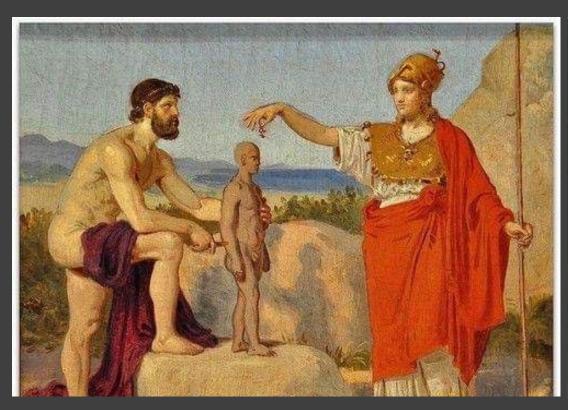


Ensuring innovation-context fit



Planning for active dissemination and sustainment

## Beginning with the end in mind

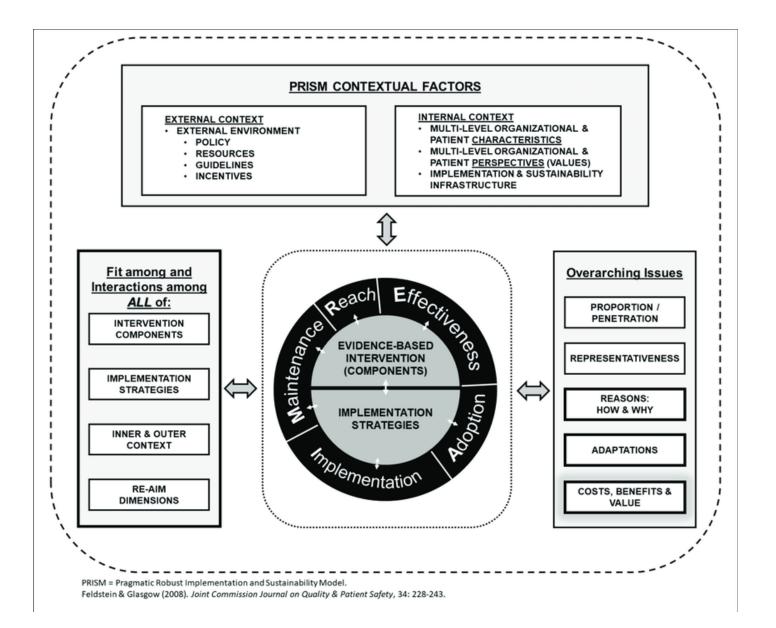


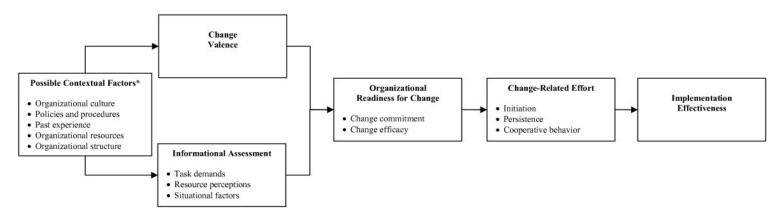


## Target Audience and Desired Impact



# Ensuring Innovation-Context Fit





<sup>\*</sup> Briefly mentioned in text, but not focus of the theory

#### **Implementation Science**



Debate

**Open Access** 

## **A** theory of organizational readiness for change Bryan J Weiner

Address: Department of Health Policy and Management, Gillings School of Global Public Health, University of North Carolina Chapel Hill, Chapel Hill, North Carolina, USA

Email: Bryan J Weiner - bryan\_weiner@unc.edu

 Published: 19 October 2009
 Received: 20 March 2009

 Implementation Science 2009, 4:67
 doi:10.1186/1748-5908-4-67

Accepted: 19 October 2009

This article is available from: http://www.implementationscience.com/content/4/1/67

InnovationContext Fit:
System
Capacity and
Organizational
Readiness

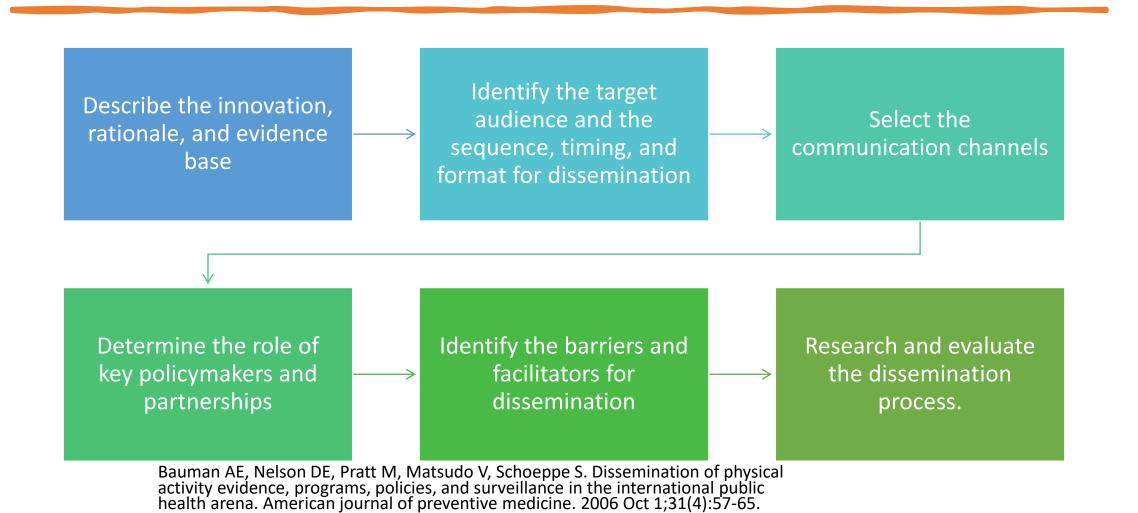
#### 100 75 Early Early Laggards Innovators Late 2.5 % Adopters Majority Majority 16 % 13.5 % 34 % 34 %

Diffusion curve

## Dissemination

 An active approach of spreading evidence-based interventions to the target audience via determined channels using planned strategies

## Planning for Active Dissemination: Six-Step Dissemination Framework



## Design Processes



The methods, frameworks or approaches used to develop and test the research product; product messages, packaging, and distribution plans; and sustainability plans

Kwan BM, Brownson RC, Glasgow RE, Morrato EH, Luke DA. Designing for Dissemination and Sustainability to Promote Equitable Impacts on Health. Annual Review of Public Health. 2022 Jan 4:43.

## 7Ps Framework for Stakeholder\* Engagement

Patients and the public

**Providers** 

Policymakers

**Purchasers** 

**Payers** 

**Product makers** 



### Principal investigators

Concannon TW, Meissner P, Grunbaum JA, McElwee N, Guise JM, Santa J, Conway PH, Daudelin D, Morrato EH, Leslie LK. A new taxonomy for stakeholder engagement in patient-centered outcomes research. J Gen Intern Med. 2012 Aug;27(8):985-91. doi: 10.1007/s11606-012-2037-1. Epub 2012 Apr 13. PMID: 22528615; PMCID: PMC3403141.

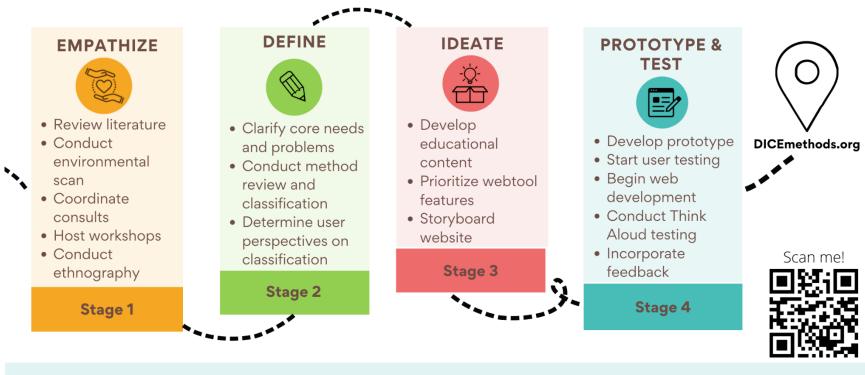


#### Using Design Thinking Methods to Create a Stakeholder Engagement Method Navigator Webtool for Clinical and Translational Science



@MatthewWynia

**Purpose:** The Stakeholder Engagement Navigator is an interactive webtool designed for use by researchers. It was created to help researchers choose engagement strategies while considering budget, timeline, stakeholder availability, and team expertise.



Kwan, B. M., Ytell, K., Coors, M., DeCamp, M., Morse, B., Ressalam, J., Reno, J. E., Himber, M., Maertens, J., Wearner, R., Gordon, K., & Wynia, M. K. A stakeholder engagement method navigator webtool for clinical and translational science. J Clin Transl Sci. 2021;5(1):e180. Published 2021 Sep 13. doi:10.1017/cts.2021.850

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8596067/

Moullin et al. Implementation Science (2019) 14 https://doi.org/10.1186/s13012-018-0842-6

Implementation Scie

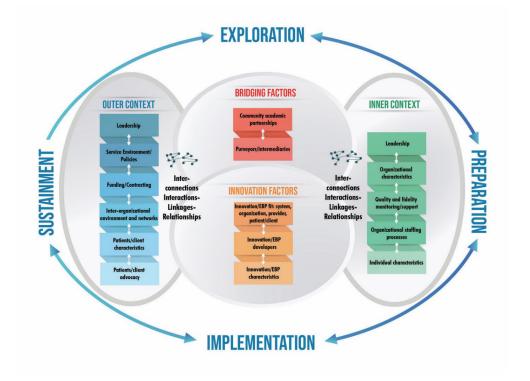
#### SYSTEMATIC REVIEW

Open Acc

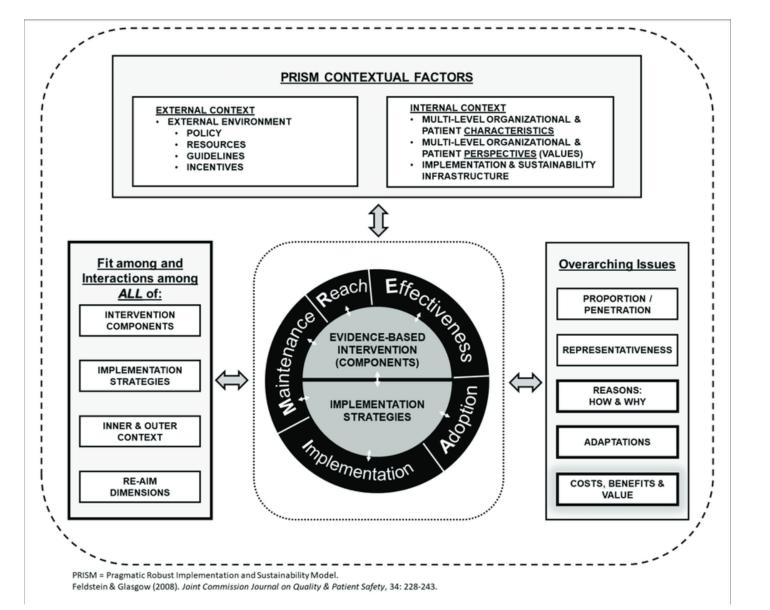
Cros

Systematic review of the Exploration, Preparation, Implementation, Sustainment (EPIS) framework

Joanna C. Moullin<sup>1,2</sup>, Kelsey S. Dickson<sup>2,3</sup>, Nicole A. Stadnick<sup>2,4</sup>, Borsika Rabin<sup>5</sup> and Gregory A. Aarons<sup>2,4</sup>\*

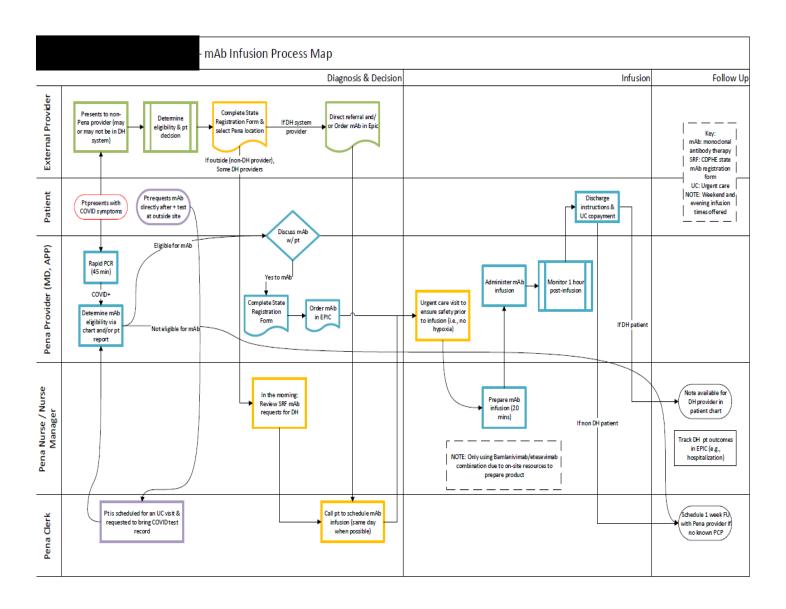


Application of D&I Context, Determinants, and Evaluation Frameworks



## Context and Situation Analysis

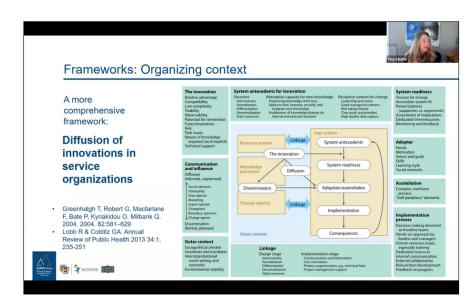
• A formal assessment of the audience, needs, setting, workflows, processes, policies, resources, and systems in which a health innovation is intended to be used.



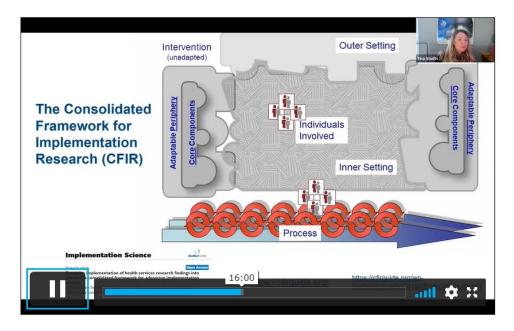
Credit: Mika Hamer

## Assessing Context

- https://vimeo.com/555249057/0ba549be69
- Dr. Christina Studts, Univ of Colorado Anschutz Medical Campus

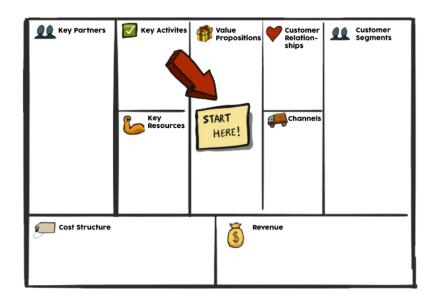


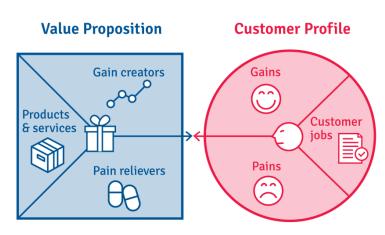
**COPRH Con 2021 | Identifying Multilevel Contextual Factors** 

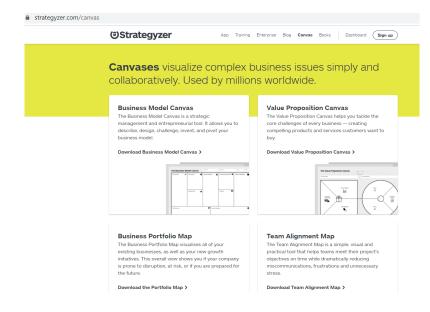


**COPRH Con 2021 | Identifying Multilevel Contextual Factors** 

## Marketing and Business Approaches







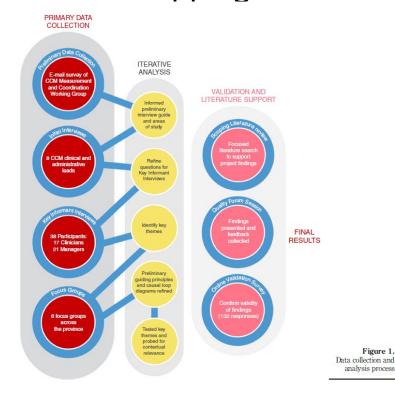
Multi-stage development process: (1) problem-solution fit; (2) product-market fit; and (3) business model fit

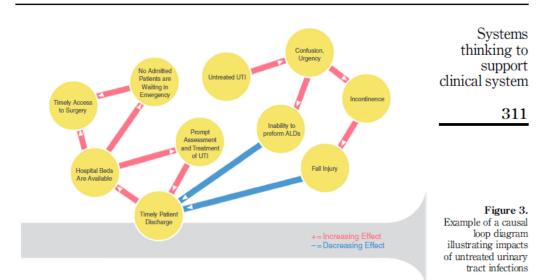
## Systems and Complexity Science

• Systems thinking: The process of understanding how things influence one another within a whole (Rabin & Brownson, 2017)

 Complex adaptive systems with systems dynamic mapping

Figure 1

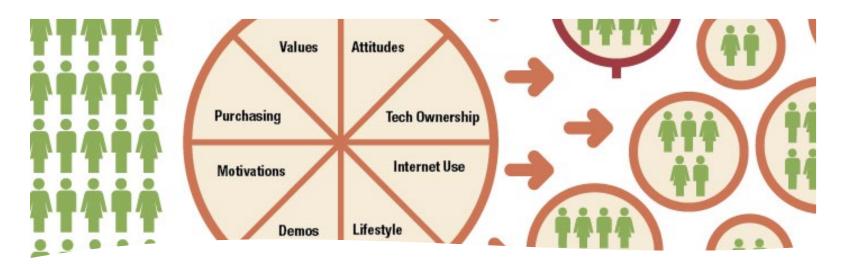




Best A. Berland A. Herbert C. Bitz J. van Dijk MW. Krause C. Cochrane D, Noel K, Marsden J, McKeown S, Millar J. Using systems thinking to support clinical system transformation. Journal of health organization and management. 2016 May 16.

### Communication and the Arts

- Social marketing
  - "a social influence technology involving the design, implementation and control of programs aimed at increasing the acceptability of a social idea or practice in one or more groups of target adopters" (Kotler and Roberto, 1989).
- Audience Segmentation



## Arts-Based Dissemination: Data Visualization and Graphic Design



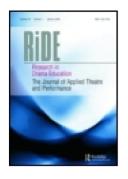
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#### Research in Drama Education: The Journal of Applied Theatre and Performance

Publication details, including instructions for authors and subscription information:

http://www.tandfonline.com/loi/crde20

## Genetic testing in a drama and discussion workshop: exploring knowledge construction

Emily Dawson  $^{\rm a}$  , Anne Hill  $^{\rm b}$  , John Barlow  $^{\rm b}$  & Emma Weitkamp  $^{\rm a}$   $^{\rm a}$  Science Communication Unit , The University of the West of England , Bristol, UK

Faculty of Media, Arts and Society , Southampton Solent University , Southampton, UK



## Fit to Context Framework



Four-phase process framework



Considers design of a research product and dissemination and sustainability plans from the perspective of ensuring fit to context



Products being designed are:

Culturally appropriate

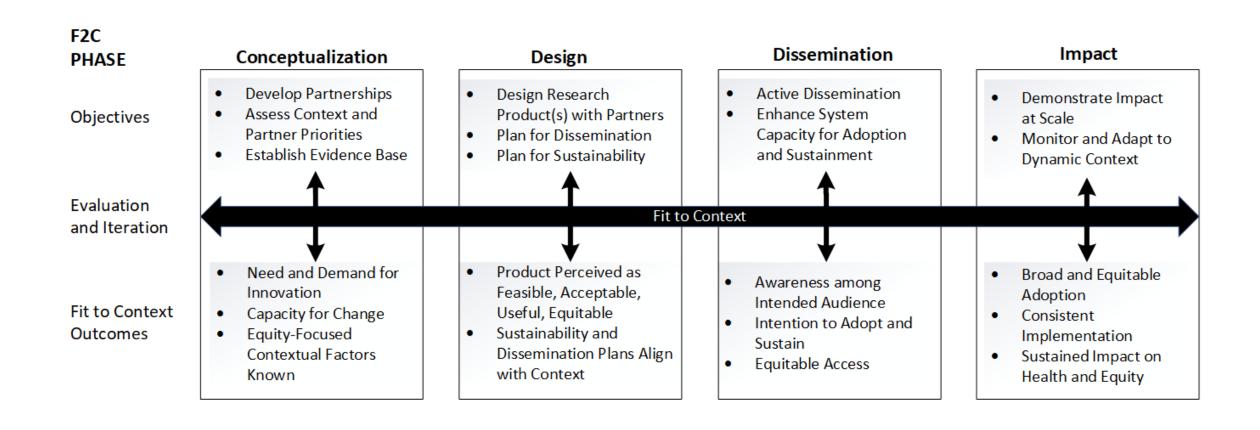
Feasible for use in resource-limited settings

Align with the strengths and assets of the intended audience and setting

Impact outcomes that matter to communities and partners

Kwan BM, Luke DA, Adsul P, Koorts H, Morrato EH, Glasgow RE. Designing for Dissemination and Sustainability: Principles, Methods, and Frameworks for Ensuring Fit to Context. In: Dissemination and Implementation Research in Health: Translating Science to Practice, 3rd ed. Forthcoming.

### Fit to Context (F2C) Framework for Designing for Dissemination



## F2C Conceptualization Phase

### F2C PHASE QUESTIONS AND OUTCOMES

KEY QUESTIONS TO BE ANSWERED AND TEAM AND PARTNERS **OUTCOMES** TO BE ASSESSED

#### **F2C PHASE OBJECTIVES**

ACTIONS TO BE TAKEN BY THE RESEARCH TEAM AND PARTNERS

#### **F2C PHASE EXEMPLAR METHODS**

RESEARCH METHODS PARTICULARLY
RELEVANT TO CO-DESIGN RESEARCH
PRODUCTS AND EVALUATE AND ITERATE
"FIT TO CONTEXT" OUTCOMES

#### F2C PHASE RESEARCH APPROACH

RESEARCH APPROACHES
PARTICULARLY RELEVANT

#### F2C Conceptualization Phase

Based on evidence and partner input, to what extent is there a **need, demand, and capacity** for a new approach, product, or change in practice or policy in the context for intended use? To what extent are **contextual factors** relevant to equitable impact known?

Based on evidence and partner Develop partnerships to address a input, to what extent is there a priority health problem with an **need. demand. and capacity** established evidence base.

Assess the context (the characteristics of the recipients, the delivery setting, systems of communication and influence, and implementation and sustainability infrastructure) for which an innovative and equity-focused research product will be used.

- Literature review
- Community-based participatory research
- Partner + community engagement
- Customer discovery
- Situation/SWOT analysis
- Process evaluation
- Context analysis
- Determinants analysis
- Systems mapping and modeling
- Social network analysis
- Market research
- Logic models
- Needs assessment

- Partnership development
- Partner engagement in research conceptualization and planning
- Formative research
- Baseline evaluation
- Developmental/ exploratory research

## F2C Design Phase

#### F2C PHASE QUESTIONS AND OUTCOMES

KEY QUESTIONS TO BE ANSWERED AND **OUTCOMES** TO BE ASSESSED

#### **F2C PHASE OBJECTIVES**

ACTIONS TO BE TAKEN BY THE RESEARCH TEAM AND PARTNERS

#### **F2C PHASE EXEMPLAR METHODS**

RESEARCH METHODS PARTICULARLY RELEVANT TO CO-DESIGN RESEARCH PRODUCTS AND EVALUATE AND ITERATE "FIT TO CONTEXT" OUTCOMES

#### F2C PHASE RESEARCH APPROACH

RESEARCH APPROACHES
PARTICULARLY RELEVANT

#### **F2C Design Phase**

To what extent is the new approach, device, or change in practice or policy perceived as feasible, acceptable, useful, effective, and equitable by the intended audience in the intended setting? How well do plans for active dissemination and sustainability align with context?

Co-design research products(s) with partners that meet the needs, demand, and capacity for change established in the conceptualization phase.

Create plans for active dissemination that align with the messaging, packaging, and distribution channels best suited for the intended audience and setting.

Determine a viable strategy for sustainability of the research product(s) in real-world contexts for intended use.

- Human & user-centered design/user testing
- Participatory methods and codesign
- Value proposition design
- Market viability analysis
- Business model generation
- Intervention/implementation mapping
- Optimization methods
- Adaptation methods
- Logic models
- Rapid prototyping
- Graphic design + other art forms

- Developmental/ exploratory research
- Pilot/feasibility studies
- "Proof of concept" studies
- Small scale pragmatic trials

## F2C Dissemination Phase

#### **F2C PHASE OBJECTIVES F2C PHASE RESEARCH F2C PHASE QUESTIONS AND** F2C PHASE EXEMPLAR METHODS **OUTCOMES** APPROACH ACTIONS TO BE TAKEN BY THE RESEARCH TEAM RESEARCH METHODS PARTICULARLY **KEY QUESTIONS TO BE** AND PARTNERS RESEARCH APPROACHES RELEVANT TO CO-DESIGN RESEARCH ANSWERED AND **OUTCOMES** TO PRODUCTS AND EVALUATE AND ITERATE PARTICULARLY RELEVANT "FIT TO CONTEXT" OUTCOMES BE ASSESSED F2C Dissemination Phase How well does the active. Enact design phase plans for active Dissemination trial designs Larger scale, planned dissemination dissemination of the research Hybrid implementation/ pragmatic trials effectiveness trials strategy work to create product(s) to intended audiences Demonstration awareness and intention using appropriate distribution Adaptation frameworks and projects channels and leveraging known **to adopt and sustain** the methods Quality product? To what extent systems of communication and Logic models improvement does the system capacity influence. Program for adoption and evaluation Build and leverage system capacity sustainment create Learning Health for broad and equitable adoption equitable access? Systems research and sustainment in the intended context.

## F2C Impact Phase

F2C PHASE QUESTIONS AND OUTCOMES  KEY QUESTIONS TO BE ANSWERED AND OUTCOMES TO BE ASSESSED	F2C PHASE OBJECTIVES  ACTIONS TO BE TAKEN BY THE RESEARCH TEAM  AND PARTNERS	RESEARCH METHODS PARTICULARLY RELEVANT TO CO-DESIGN RESEARCH PRODUCTS AND EVALUATE AND ITERATE "FIT TO CONTEXT" OUTCOMES	F2C PHASE RESEARCH APPROACH RESEARCH APPROACHES PARTICULARLY RELEVANT	
To what extent does the	Domonatusta aguitable immed of of	- Due monetic twick de siene		
product demonstrate a  sustained equitable impact on health and continued fit to context over time in real-world contexts?	Demonstrate equitable impact of research product(s) and active dissemination and sustainability plans at scale.  Monitor and adapt research product(s), dissemination, and sustainment plans to ensure fit to dynamic context in real-world settings and populations.	<ul> <li>Pragmatic trial designs</li> <li>Real-world         evidence/observational         methods</li> <li>Economic and cost analysis</li> <li>Hybrid         implementation/effectiveness         trials</li> <li>Policy analysis</li> <li>Fidelity and adaptation         methods</li> </ul>	<ul> <li>Larger scale,         pragmatic trials</li> <li>Demonstration         projects</li> <li>Quality         improvement</li> <li>Public health         surveillance</li> <li>Program evaluation         <ul> <li>Learning Health</li> <li>Systems research</li> </ul> </li> </ul>	

De-implementation methods





Designing for Dissemination and Scale-Up of Equitable Access to Treatment for COVID-19

Case Example







## mAb Colorado Specific Aims

## Dissemination, Implementation, and Real-World Effectiveness of Neutralizing Monoclonal Antibody Therapy for COVID-19

#### Using a type 2 hybrid implementation-effectiveness design:

- Aim 1: Assess barriers and facilitators to use of mAbs statewide, based on diffusion of innovations theory
- Aim 2: Develop, implement, and evaluate innovative strategies statewide to optimize equitable mAb access
- Aim 3: Determine the real-world effectiveness and safety of mAb treatment in high-risk COVID-19 outpatients

#### Goals

- Develop scalable infrastructure for real-time, implementation and realworld effectiveness data for mAb treatment
- Help policymakers, clinicians, and patients manage issues of uncertainty, risk, urgency, equity, and resource limitation
- Create a model for rapidly generating high quality real-world evidence in infectious disease pandemics and other future public health emergencies

NCATS 3UL1TR002535-03S3; 3UL1TR002535-04S2 (03/15/2021-04/30/2023)

#### ORIGINAL ARTICLE

July 14, 2021

## Bamlanivimab plus Etesevimab in Mild or Moderate Covid-19

M. Dougan, A. Nirula, M. Azizad, B. Mocherla, R.L. Gottlieb, P. Chen, C. Hebert,

#### ORIGINAL ARTICLE

September 29, 2021

## REGEN-COV Antibody Combination and Outcomes in Outpatients with Covid-19

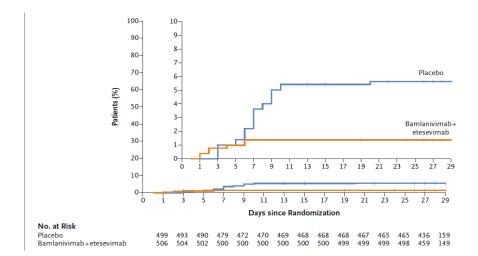
D.M. Weinreich, S. Sivapalasingam, T. Norton, S. Ali, H. Gao, R. Bhore, J. Xiao,

#### ORIGINAL ARTICLE

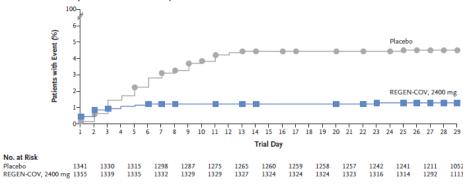
October 27, 2021

#### Early Treatment for Covid-19 with SARS-CoV-2 Neutralizing Antibody Sotrovimab

Anil Gupta, M.D., Yaneicy Gonzalez-Rojas, M.D., Erick Juarez, M.D.,







Outcome	Sotrovimab (N = 291)	Placebo (N = 292)
Primary outcome		
Hospitalization for >24 hr for any cause or death from any cause — no. (%)	3 (1)	21 (7)
Hospitalization for >24 hr for any cause	3 (1)	21 (7)
Death from any cause	0	1 (<1)†
Severe or critical progression — no. (%)††	2 (<1)	19 (7)
Low-flow nasal cannula or face mask	2 (<1)	11 (4)
Nonrebreather mask, high-flow nasal cannula, or noninvasive ventilation	0	5 (2)
Invasive mechanical ventilation	0	2 (<1)
Death from any cause	0	1 (<1)
Admission to ICU for any cause — no. (%)	0	5 (2)



This PDF is available at http://nap.naptionalacademies.org/26063









Rapid Expert Consultation on Allocating COVID-19 Monoclonal Antibody Therapies and Other Novel Therapeutics (January 29, 2021) (2021)

#### DETAILS

34 pages | 8.5 x 11 | PDF ISBN 978-0-309-27008-3 | DOI 10.17226/26063

### Proposed factors related to low utilization of COVID-19 mAbs

- Lack of awareness, interest, confidence in therapies among patients and providers
- Lack of interest/ability/resources to travel to treatment sites
- Requirement to defer vaccination
- Lack of access to health care
- Out of pocket costs
- Seeking treatment too late

National Academies of Sciences, Engineering, and Medicine. 2021. Rapid Expert Consultation on Allocating COVID-19 Monoclonal Antibody

## D4DS: Fit to Context Phases applied to mAbs



Conceptualization: Assessing context & barriers and facilitators to equitable mAb access

Establish partnerships

Diffusion of innovations

Surveys and interviews with clinicians

Surveys and focus groups with community members

Stakeholder advisory panel

Community engagement studios

Community messaging and materials

Implementation blueprint & provider referral checklist



Dissemination: Leveraging Existing Capacity and Distribution Channels

Design: Co-design activities

Regional Health Connectors: distribution of messages and materials to regional contacts

Practice-Based Research Networks: distribution to rural practices

mAb Colorado project website and social media

Echo Colorado

Paid media campaign



Impact: Use of Real-World Data to Evaluate Adoption and Reach

State health department's mAb connector tool

## mAb Colorado Partners



## mAb Stakeholder Advisory Panel



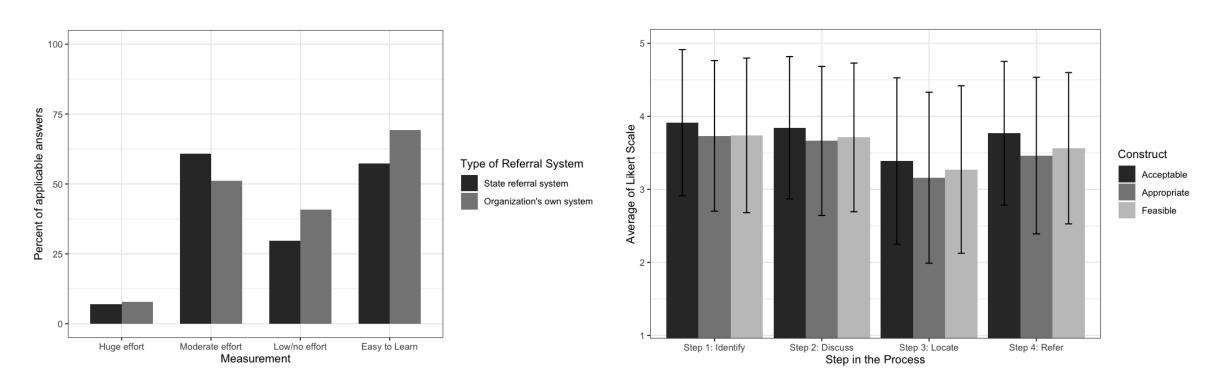
# Barriers and Facilitators to Use of mAbs for COVID-19

- Community awareness of the need for timely testing and effective treatment available for all (not just the wealthy and connected)
- Clinician education about monoclonal antibody treatment for COVID-19 including strength of evidence, eligibility criteria, and how to access treatment
- Clear guidance on implementation and use of referral processes
- Addressing inefficiencies in relying upon individual providers to identify eligible patients, discuss treatment, find a treatment location, and complete a referral
- Assurances regarding costs of care especially for the uninsured



# Clinician Experience with Referral Systems and Processes

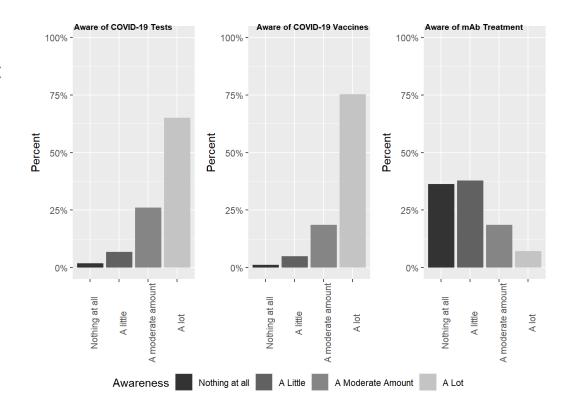
- mAb referral process
- **Step 1.** Assess eligibility
- **Step 2.** Discuss treatment with patient
- **Step 3.** Determine treatment location
- **Step 4.** Issue referral and order for treatment



Kwan BM, Sobczak C, Beaty L, Wynia MK, DeCamp M, Owen V, Ginde AA. Clinician Perspectives on Monoclonal Antibody Treatment for High-Risk Outpatients with COVID-19: Implications for Implementation and Equitable Access. Journal of general internal medicine. 2022 Oct;37(13):3426-34.

## Community Member Survey and Focus Group Insights

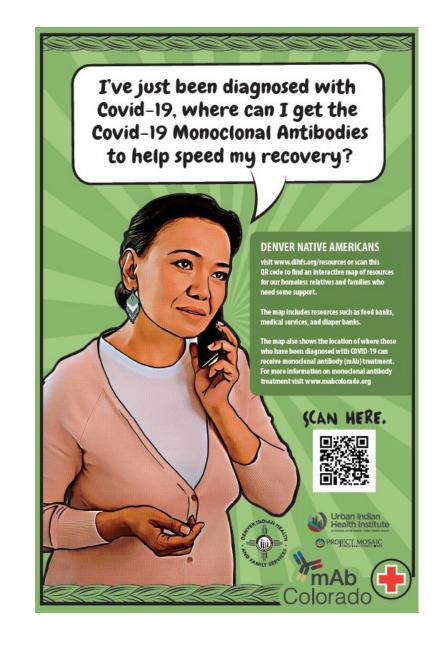
- Little baseline knowledge about monoclonal antibody treatment
  - Especially among Spanish-language participants
- Overall positive impression of monoclonal antibody treatment
- Key questions to be answered in information about mAb
  - Who can get it?
  - How can you get it?
  - How much does it cost?
  - What are the side effects?
- Priorities
  - Spread the Word-information about mAb should be shared across all available media
  - Make it easy-reduce barriers to obtaining mAb treatment when needed
  - Don't make it political-right now mAb treatment is not politicized, keep it that way
  - Equitable access



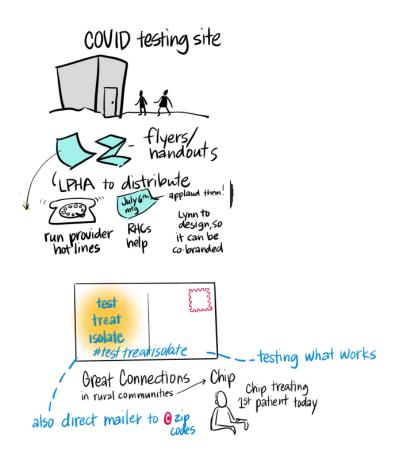
Kwan BM, Sobczak C, Gorman C, Roberts S, Owen V, Wynia MK, Ginde AA, Pena-Jackson G, Ziegler O, DeCamp LR. "All of the things to everyone everywhere": A mixed methods analysis of community perspectives on equitable access to monoclonal antibody treatment for COVID-19. medRxiv. 2022 Jan 1.

# Health Equity Focus

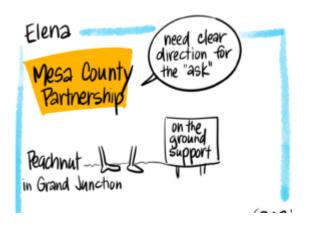
- Equitable access to care
  - Rural areas
  - Racial and ethnic minorities
    - Hispanic/Latino
      - Spanish-speaking communities
    - Native American communities
  - People who were:
    - Uninsured/underinsured
    - Undocumented
    - Unhoused

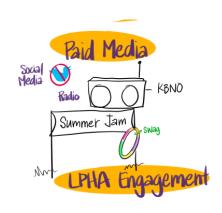


## Community Engagement Studios













Webmail ♠ | UCD Access ♠ | Canvas ♠ | Quick Links ▼ | Q

#### **Community Messaging Materials**

See below for materials you can share with members of your organization or community about monoclonal antibody (mAb) treatments for COVID-19.

We are able to provide a limited number of printed materials mailed to you free-of-charge. If you would like to distribute printed materials to members of your organization or community, complete this order form.



Download flyer versions in English and Spanish with basic information about mAb treatments. Can be printed

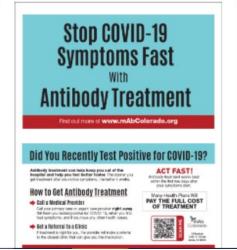


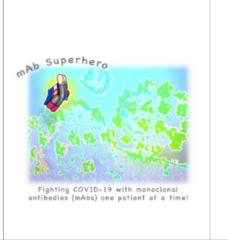


Download document versions in English and Spanish with answers to common questions about mAb treatments



Download images to be shared as social media posts.





## www.mAbColorado.org



# ¿Dio positivo para COVID-19?

Puede sentirse mejor mas rápido si recibe un tratamiento con anticuerpos. Puede ayudar a mantenerlo fuera del hospital. El tratamiento con anticuerpos funciona mejor si usted es tratado dentro de los primeros días después de haber dado positivo para COVID-19.

#### Para obtener mas información acerca del tratamiento de anticuerpos siga estos pasos:

#### Llame a un proveedor médico de inmediato

- Llame a su proveedor de atención primaria o de atención urgente.
- Dígales cuándo tuvo los primeros síntomas de COVID-19.
- · Dígales si tiene algún otro problema de salud.
- Pregunteles si pueden ayudarle a obtener tratamiento con anticuerpos monoclonales.

#### Obtenga una referencia a una clínica

Si el tratamiento con anticuerpos es adecuado para usted, el proveedor hará una referencia a una clínica cercana a usted donde usted puede obtener el tratamiento. Le darán la dirección y el número de teléfono

Muchos planes de salud pueden pagar el costo total del tratamiento

El tratamiento con anticuerpos funciona contra la variante delta COVID-19



www.mAbColorado.org

## www.mAbColorado.org

## Health Care Provider Messages & Materials

## MONOCLONAL ANTIBODY TREATMENT TO PREVENT SEVERE COVID-19

#### GUIDE FOR HEALTH CARE PROVIDERS



Monoclonal antibody treatments are for outpatients with mild to moderate COVID-19 symptoms and who meet the eligibility criteria, including:

- Not hospitalized or on oxygen due to COVID-19
- High risk of developing severe disease and hospitalization
- Able to receive treatment within 10 days of developing symptoms

Patients who have been vaccinated may receive monoclonal antibody treatment.



Counsel patient on monoclonal antibody treatment.

- Patient must be provided with the 3-page EUA Fact Sheet.
- EUA Fact Sheet for Casirivimab and Imdevimab (Regeneron)
- EUA Fact Sheet for Bamlanivimab and Etesevimab (Eli Lilly)
- EUA Fact Sheet for Sotrovimab (GSK)
- Find updated information on benefits and risks of treatment.



#### Options to find an infusion center with your patient:

- Choose an infusion center on the <u>CDPHE website</u> and complete the online form, or
- Check Colorado Infusion Center Map.



The referral and ordering of monoclonal antibody treatment varies, depending on your clinic and/or health care system processes.

- If using the <u>enline CDPHE form</u> to send a referral to the selected infusion center, you will give the patient the infusion center phone number to call and schedule a same- or next-day appointment.
- If using an infusion center associated with your organization, you may generate the referral and order within your EHR.
- Assist patient with transportation, if needed. Safest travel is having the person with COVID-19 sit as far from the driver as possible, mask on, windows open. Avoid public transportation if possible.



6/26/2021

treatment?

- There is no cost for the medication; the federal government pays for the medication.
- The infusion facility fee is covered by Medicare, Medicaid, and commercial insurance. Patients may be billed co-pays and co-insurance. Self-pay patients may be charged a facility fee for the infusion.
- If patient is self-pay, ask if the infusion center will charge the patient for infusion. Patients without insurance who visit a federally-qualified health center for treatment, like Deriver Health Pena Urgent Care, would likely receive no bill.

For more information or to find an infusion center near you:

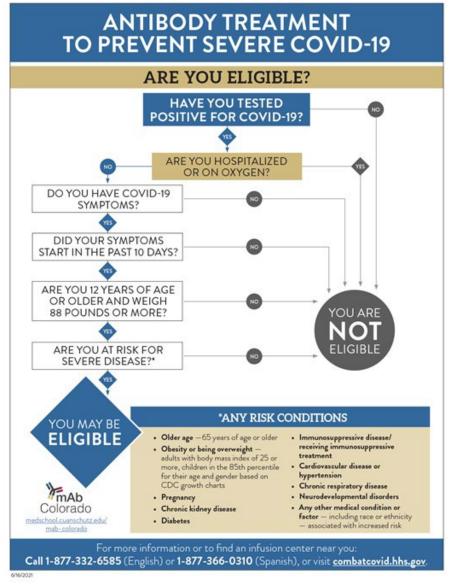
Call 1-877-332-6585 (English) or 1-877-366-0310 (Spanish),

or visit combatcovid.hhs.gov.



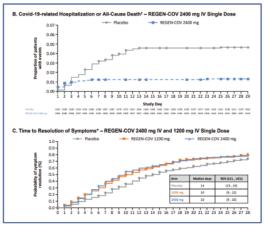








## COVID-19 Monoclonal Antibody (mAb) Implementation Blueprint



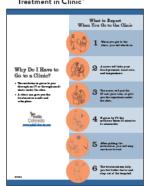
Reference: Weinreich DM et al. REGEN-COV Antibody Combination and Outcomes in Outnations with Covid-19

N Engl J Med 2021: 385:e81. DOI: 10.1056/NEJMoa2108163

#### III. Sample Shared Decision Making Language



IV.Patient Handout of "What to Expect for Treatment in Clinic"



#### How to Use This Document

This implementation blueprint includes common resources and specific modules. Modules can be reviewed individually.

#### Modules:



Referral to mAb Treatment Sites



Intravenous Treatment



Subcutaneous Treatment (only REGEN-CoV)



Local Public Health Processes

#### Appendix:

Educational Resources
Sample Discharge Instructions
Sample Standing Orders

## OVERALL PURPOSE Increasing Access to COVID-19 mAbs

This guide aims to provide practical guidance to help clinicians and other key stakeholders increase awareness and access to COVID-19 mAbs for outpatients with mild to moderate SARS-CoV-2 infection. In different Modules, we provide resources and examples of clinical workflows to increase:

- · Referral to health care settings offering mAbs
- · Intravenous treatment with mAb cocktails
- Subcutaneous treatment (e.g. REGEN-CoV)
- Local public health agency processes for increasing referrals to mAbs

This guide also includes patient and clinician handouts.

This implementation blueprint, including its component patient and clinician handouts, were developed between June 2021-December 2021. Information provided reflects information gathered prior to the rapid spread of the Omicron variant of the SARS-CoV-2 virus.

## Capacity Building

- CDPHE mAb Connector Tool and Infusion Center Map
- UCHealth Virtual Health Center (VHC)
- Tri-County Health
   Department case
   investigator referrals to the
   VHC
- Denver Health Urgent Care
- Mobile mAb buses
- Call center

### How to get monoclonal antibody therapy

UCHealth currently operates four infusion sites:
University of Colorado Hospital in Aurora, Memorial
Central Outpatient Infusion in Colorado Springs,
Poudre Valley Hospital in Fort Collins, and Yampa
Valley Medical Center in Steamboat Springs.

Please speak with your health care provider to determine if you are eligible for monoclonal antibody treatment and to discuss if it may be right for you.

Your provider will help you locate an infusion center and order the medication for you. You may also **set up** a **visit with UCHealth Virtual Urgent Care** who can help determine eligibility and order treatment.

#### Costs

Currently, the medication used for COVID-19 monoclonal antibody treatment is free of charge, but infusion service fees to administer the drug may apply. If you have insurance, these fees will be billed to your



## Paid Media Campaign

- Website <u>www.mAbColorado.org</u>
- Facebook and Instagram ads
- Web banner ads
- Google Search ads
- Direct mail postcards (Adams, Pueblo, Weld Counties)
- Radio partnerships

Denver Metro Western Colorado

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O KKNN

## If You Have COVID-19 Symptoms





Treat COVID-19 with MONOCLONAL ANTIBODIES

Find out more at www.mAbColorado.org

## Paid Media Campaign

### **Persons Reached by Digital Ads**

• Banner Ads: 752,785

Facebook: 101,587

#### **Facebook Engagement**

• Reactions: 2,836

Comments: 644

Saves: 567

Shares: 1296

Expands reach exponentially

**Digital Ads Impressions Total: 8,733,962** 

**Direct Mail Households: 47,679** 

### Website Sessions Total: 23,540

Average Time Spent on Landing Page: 50 seconds

### **Top Website Sessions by City**

• Denver: 3,091

• Grand Junction: 1,256

Colorado Springs: 1,173

• Aurora: 795

• Greeley: 590

• Montrose: 566

Pueblo: 451

• Lakewood: 402

• Fort Collins: 380



## **Clinical Audiences**

Colorado Department of Public Health and Environment	Dept of Emergency Medicine Town Hall
Colorado Association of Local Public Health Officials	Urgent Care Association Members
MHHA (Mile High Health Alliance)	UCHealth Seniors Clinic
TCHD (Tri-county Health Department)	Berkeley Home Health
ECHO Webinars	CAFP (Colorado Academy of Family Physicians)
Practice Learning Collaborative group	CCTSI CU-CSU Summit
El Paso County Public Health	Geriatric Ground Rounds
El Paso Board of Commissioners	Quality Health Network (QHN)
COVID Check Colorado	Colorado Community Health Network (CCHN)
Pueblo County Provider Roundtable	Centennial LabX

## Number reached through mAb Colorado presentations:

2,000+ people

Fit to
Context:
Policy and
Public Health
Impact

# Ask your doctor about TREATMENTS FOR COVID-19

If you or a loved one test positive for COVID-19, treatments are available that can help prevent severe illness.



- ✓ Test early to see if you have COVID-19.
- ✓ Treatments are often only available if you take them within five days of when you first felt symptoms.



Some treatments help reduce the risk of hospitalization from COVID-19 by 90%.



✓ Have questions about COVID-19 treatments? Visit covid19.colorado. gov/treatments or call 877-CO-VAX-CO.



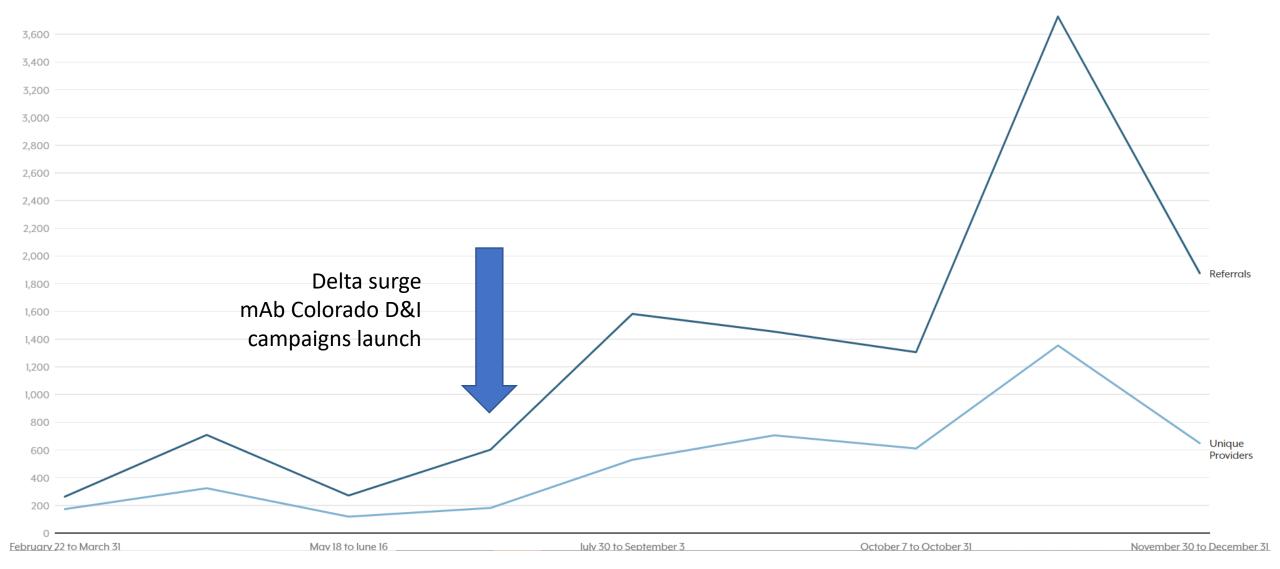
Treatments are available at nearly 600 locations across Colorado. Find the nearest location by scanning the QR below:

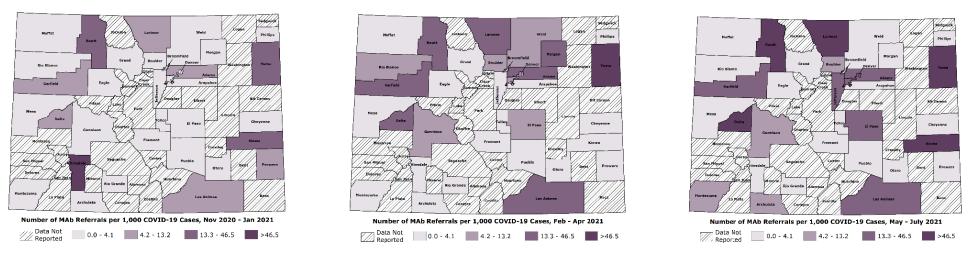




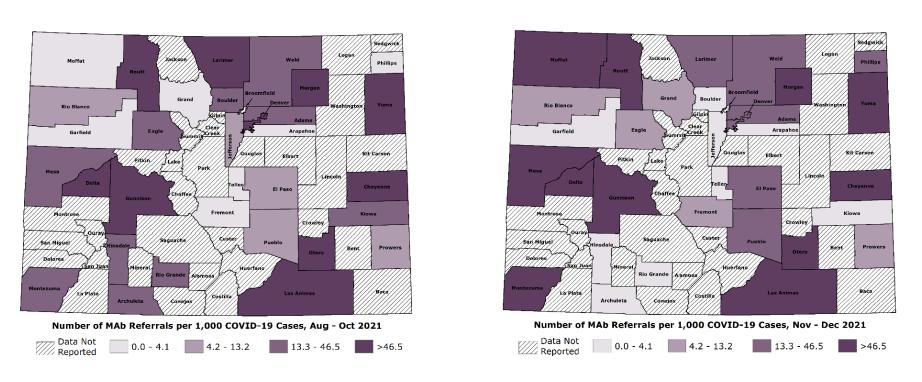
### Unique Providers Referring Monoclonal Antibody Treatment, Colorado, February to December 2021

Total number of unique providers referring patients for monoclonal antibody treatment across all sites (light blue line) and the total number of referrals from these providers (dark blue line)





Pre (Top) vs Post (Bottom) mAb Colorado Dissemination



Average weekly mAb referral rates by Colorado county over time (November 2020-December 2021)





## Colorado Clinical and Translational Sciences Institute (CCTSI)

UNIVERSITY OF COLORADO DENVER | ANSCHUTZ MEDICAL CAMPUS

- Principal Investigators
  - Adit Ginde, MD, MPH
  - Ron Sokol, MD (CCTSI PI)
- Dissemination and Implementation Lead
  - Bethany Kwan, PhD, MSPH
- Clinical Lead
  - Matt Wynia, MD, MPH
- Informatics Lead
  - Tellen Bennett, MD, MS
- Biostatistics Lead
  - Nichole Carlson, PhD
- Administrative Lead
  - Tim Lockie, MS, MBA





# Advancing a D4DSE Approach: Recommendations







**Enhance skills and capacity in the team** 

Consider who will use your product, under what circumstances, and to address what urgent need – design studies to test your product IN and FOR THAT CONTEXT

Expect the need to pivot and adapt over time

Team science

Communication

Graphic design

Systems and engineering

Data science



## Build and leverage systems and infrastructure for distribution and marketing

Practice-based research networks

**Cooperative Extension Services** 

**Public Health Agencies** 

**Health System Communications** 



# Incentivize dissemination beyond academic journals and conference presentations

Promotion criteria includes equity and impact

# Questions?

Thank you!

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