

NACDD Convenes Arthritis Expert Panel and Design Team to Co-Create a Public Health Framework for Collaborative Arthritis Management and Wellbeing

Key partners are developing an evidence-informed public health framework for healthcare providers to conduct function, pain, and physical activity screenings; patient counseling on the benefits of physical activity; and referrals to arthritis-appropriate, evidence-based interventions and other non-pharmacological interventions to help patients manage their arthritis and improve their wellbeing.

Background/Challenge

According to the Centers for Disease Control and Prevention (CDC), an estimated 53.2 million adults in the U.S. have been diagnosed with arthritis. Arthritis limits physical function and quality of life. Additionally, it frequently co-occurs with other chronic conditions that are common causes of death, such as heart disease, diabetes, and obesity, and can interfere with management of these conditions through its effects on limiting physical activity. Physical activity, self-management education programs, and other non-pharmacological approaches can potentially decrease the impact of arthritis; however, there is no consistent or standardized approach for healthcare providers to integrate these interventions throughout the clinical healthcare delivery system.³ Under the CDC-RFA-DP21-2106 five-year cooperative agreement, CDC awarded funding to the National Association of Chronic Disease Directors (NACDD) in September 2021 to develop a clinic-tocommunity framework for arthritis care that enhances healthcare provider awareness, knowledge, and skills in promoting self-management interventions, including physical activity and lifestyle change, as effective, drug-free ways to relieve or manage arthritis pain, improve function, and limit arthritis progression. Key partners in this work include CDC Arthritis Management and Wellbeing Program, Leavitt Partners, Comagine Health, and the Dartmouth Institute for Health Policy and Clinical Practice.

Approach

NACDD, CDC, and other key partners convened the Arthritis Expert Panel and Design Team in November 2022 to provide guidance on the development of an evidence-informed public health framework for healthcare providers to conduct function, pain, and physical activity screenings; patient counseling on the benefits of physical activity; and referrals to community-based Arthritis Appropriate, Evidence-Based interventions (AAEBI) and other non-pharmacological interventions. AAEBIs are scientifically tested programs that have been shown to improve arthritis management and quality of life. Expert panelists used the results from a landscape assessment conducted by Leavitt Partners to guide the discussion. Panelists were identified and selected by NACDD based

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¹ Centers for Disease Control and Prevention, National Statistics | CDC," November 28, 2023, https://www.cdc.gov/arthritis/data_statistics/national-statistics.html.

² Centers for Disease Control and Prevention, "FAQs about Arthritis | CDC," October 12, 2021, https://www.cdc.gov/arthritis/basics/faqs.htm.

³ Leavitt Partners landscape assessment "Key Considerations and Barriers to Creating an Evidenced-Informed Approach for Screening, Counseling, and Referral to Arthritis Appropriate Evidence-Based Interventions: A Landscape Assessment," https://chronicdisease.org/wp-content/uploads/2022/10/Arthritis-Landscape-Assessment_Final-Report_10.27.22.pdf



on professional experience and innovation in the field of arthritis and/or lifestyle interventions. See Table 1 for a complete list of Expert Panel and Design Team members.

Table 1: Arthritis Expert Panel and Design Team Members

Name	Organization	Name	Organization
Dr. Adam Burch	New Hampshire Department of Health and Human Services	Dr. John Andrawis	Torrance Memorial Medical Center & Harbor-UCLA Medical Center
Alisa Vidulich	Arthritis Foundation	Dr. Jonathan Kirschner	Hospital for Special Surgery/USBJI
Dr. Anita Bemis- Dougherty	American Physical Therapy Association	Katie Huffman	Osteoarthritis Action Alliance
Carrie Harnish	Consultant	Lesha Spencer- Brown	Administration for Community Living
Dr. Clifton Bingham	Johns Hopkins Arthritis Center	Mamta Gakhar	YMCA of the USA
Dr. Elizabeth Fallon	CDC	Nick Turkas	Arthritis Foundation
Dr. Elizabeth Joy	Intermountain Healthcare	Dr. Paul Woods	Orcinus Health Solutions
Dr. Erica Anderson	Humana	Robyn Stuhr	Exercise is Medicine®
Dr. Erica Odom	CDC	Starla Blanks	American College of Rheumatology
Gail Hirsch	Massachusetts Department of Public Health	Dr. Tamara Huff	Vigeo Orthopedics, LLC
Dr. Gregory Welk	Iowa State University	Timothy McNeill	Freedmen's Health
Heather Hodge	YMCA of the USA	Tiff Cunin	National Recreation and Park Association
Dr. Heather Kitzman	UT Southwestern Medical Center	Yvonne Dorsey	Humana
Jennifer Raymond	AgeSpan		

Impact

Since the kickoff meeting in November 2022, members of the Arthritis Expert Panel and Design Team participated in three Human-Centered Design (HCD) and eight design sessions to share barriers, discuss solutions, and brainstorm and gain consensus on key considerations for the public health framework for arthritis management and wellbeing.⁴ Refer to Table 2 for additional details about the sessions.

Table 2: Arthritis Expert and Design Team Sessions

Date	Topic	Meeting Overview
November 18,	Kickoff Meeting – Arthritis	Discuss key elements of the public health
2022	management and wellbeing	arthritis framework for collaborative arthritis
	strategy and objectives	management and wellbeing.
January 10, 2023	HCD Session 1 –	Create a shared understanding of the problem
	Generating solutions for	and environment, create empathy for the
	public health arthritis	individuals of focus, and begin to brainstorm
	framework	potential stakeholder involvement.

⁴ Human-centered design methodology. Accessed January 2023 from https://www.designkit.org/

chronicdisease.org November 2023 2



February 14, 2023 HCD Session 2 – Generating solutions for public health arthritis framework March 14, 2023 HCD Session 3 – Generating solutions for public health arthritis framework March 14, 2023 HCD Session 3 – Generating solutions for public health arthritis framework May 9, 2023 Design Session 1 – Continue to brainstorm potential stakeholder involvement, identify the tools that each stakeholder has that might influence behavior change, review, and add to the journey maps and begin to determine areas of opportunity. Explore key opportunities to increase self-management interventions that are viable, feasible, and desirable. Align on care team member involvement and end outcomes that would indicate success. May 9, 2023 Design Session 1 – Discuss options for Public Health Arthritis
public health arthritis framework March 14, 2023 HCD Session 3 – Generating solutions for public health arthritis framework May 9, 2023 Design Session 1 – Stakeholder has that might influence behavior change, review, and add to the journey maps and begin to determine areas of opportunity. Explore key opportunities to increase self-management interventions that are viable, feasible, and desirable. Align on care team member involvement and end outcomes that would indicate success. Discuss options for Public Health Arthritis
framework March 14, 2023 March 14, 2023 HCD Session 3 – Generating solutions for public health arthritis framework May 9, 2023 Generating Session 1 – Change, review, and add to the journey maps and begin to determine areas of opportunity. Explore key opportunities to increase selfmanagement interventions that are viable, feasible, and desirable. Align on care team member involvement and end outcomes that would indicate success. Discuss options for Public Health Arthritis
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Screening Framework and screening tools and proposed
workflow.
May 23, 2023 Design Session 2 – Examine methodology to support brief
Screening and brief advice/counseling and assess how
advice/counseling PROMIS® and Physical Activity Vital Sign
(PAVS) thresholds might drive care pathways
June 13, 2023 Design Session 3 – Brief Refine care pathway for the counseling
advice/counseling component and explore potential referral
mechanisms to physical activity and self-
management interventions.
June 27, 2023 Design Session 4 – Care Explore potential referral mechanism and
coordination refine care pathway for the Public Health
Arthritis Framework.
July 11, 2023 Design Session 5 – Explore referral mechanisms and assess
Reimbursement implications to Public Health Arthritis
mechanisms Framework.
July 25, 2023 Design Session 6 – Refining Solicit input on core measures of the draft
the care pathway, change implementation plan and review change
package, and evaluation package components.
framework
August 8, 2023 Design Session 7 – State Review and discuss state and health system
and health system criteria criteria for pilot demonstration project.
September 12, Design Session 8 – Solicit feedback on the evaluation framework
2023 Evaluation framework and determine next steps for the pilot
demonstration project.

Arthritis Expert and Design Team members were asked to provide feedback on the sessions by completing anonymous Qualtrics surveys and adding feedback via the virtual meetings. Overall feedback was positive and evaluation data suggests that participating in the Arthritis Expert and Design Team was an influential experience. Refer to Figure 1 for the latest iteration of the Public Health Framework for Collaborative Arthritis Management and Wellbeing that was co-created by the expert panel. This visual depiction captures the latest thinking of the expert panel around healthcare provider screening, counseling, and referral protocols and the importance of a community care hub in referring patients to appropriate evidence-based interventions and beyond.

- 100% of respondents agreed they can clearly describe the key elements that impact arthritis care as a result of attending the HCD sessions.
- 100% of respondents agreed they were able to contribute to the development of the public health arthritis framework and the care pathway for the screening, counseling, and referral protocol.
- 100% of respondents agreed the sessions encouraged them to think in a new way.

chronicdisease.org November 2023 3



- Panelists enjoyed hearing multiple perspectives, collaborating with others from multiple disciplines, and the overall thoughtful and comprehensive nature of the sessions design.
- Participants appreciated the great organization and facilitation by NACDD staff.
- Panelists noted that the participatory approach allowed everyone a chance to participate and provide feedback and influence.

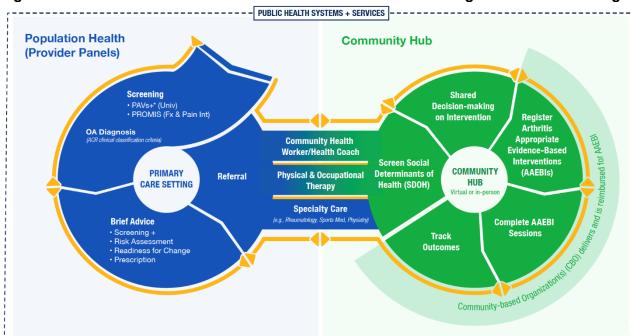


Figure 1: Public Health Framework for Collaborative Arthritis Management and Wellbeing

At A Glance

The NACDD Arthritis Team and key partners are working with diverse stakeholders to develop and implement an evidence-informed public heath framework for healthcare providers to conduct function, pain, and physical activity assessments, patient counseling on the benefits of physical activity, and referrals to arthritis-appropriate physical activity and self-management education programs. The public health framework for collaborative arthritis management and wellbeing is guided by the landscape assessment conducted in year one and the recommendations of the expert panel in year two. NACDD will pilot the framework in at least one health system in 2024, in the state of lowa.

Contact Information

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The <u>Arthritis Portfolio</u> is part of the <u>Center for Advancing Healthy</u> Communities

chronicdisease.org November 2023 4