

Systematic Review: Diagnosis and Treatment for ADHD in Children and Adolescents

A PCORI Virtual Multi-Stakeholder Workshop

November 10, 2021

This Webinar Is Being Recorded



Please note that this webinar is being recorded. The recording will be posted publicly to PCORI's website after this event.



Welcome

And thank you for
participating!



Agenda



- Housekeeping
- Introductions
- Background and Your Perspective
- Prepared Comments
- Moderated Discussion
- Summary and Closing Remarks

Housekeeping



- Participants' lines are live – please mute your line when you are not speaking
- Today's conversation is being recorded and will be posted to the PCORI website
- During the Prepared Comment period, we will take stakeholder comments in the order indicated
- During the moderated discussion, attendees can use the Q&A section to share questions, comments, or to indicate that you would like to speak.
- Please introduce yourself when you begin to speak

Welcome to Webex: Attendees



The screenshot shows the Webex interface with a dark theme. At the top, there are navigation icons for Webex, Event Info, and a Show Menu Bar dropdown. The main content area displays a "Please note:" section with two bullet points:

- Attendees must be unmuted by the host before speaking.
- Attendees do not have the ability to share their video.

Below this, there is a "Questions and Answers will appear here" callout with a red arrow pointing to the "Q & A" section in the sidebar. Another callout with a red arrow points to a text input field with the placeholder "Type the question or comment you want to send and press enter".

The sidebar on the right contains the following sections:

- Participants (2)
- Panelists (1)
 - PCORI AV - Mich... Host
- Attendees (1)
- Q & A

The "Q & A" section is expanded, showing a list of options for selecting panelists:

- Host
- Presenter
- Host & Presenter
- All Panelists
- All Cohosts
- PCORI AV - Michele

The "Ask:" dropdown is set to "All Panelists". A callout with a red arrow points to this dropdown with the text "Select All Panelists when submitting a question." Another callout with a red arrow points to the ellipsis button in the "Ask:" dropdown with the text "Click the ellipses and select Q&A".

At the bottom, there are standard Webex controls for Mute, Chat, Participants, and a three-dot menu. The number "6" is in the bottom right corner.

Introductions



Introductions



Today's PCORI Representatives:

- Bill Lawrence, MD, MS, Senior Clinical Advisor, Engagement, Office of the Chief Engagement and Dissemination Officer
- Jennie Dalton, MPH, Program Officer, Research Synthesis and New Technology
- Tara Lucian, MPH, Program Associate, Public and Patient Engagement

In Collaboration with AHRQ and AAP



Agency for Healthcare Research and Quality (AHRQ)

Kim Wittenberg, MS
Task Order Officer



Agency for Healthcare
Research and Quality

American Academy of Pediatrics (AAP)

American Academy
of Pediatrics



DEDICATED TO THE HEALTH OF ALL CHILDREN™

PCORI helps people make informed healthcare decisions, and improves healthcare delivery and outcomes, by producing and promoting high-integrity, evidence-based information that comes from **research guided by patients, caregivers, and the broader healthcare community.**

Our Strategic Goals:

-  Increase quantity, quality, and timeliness of useful, trustworthy research information available to support health decisions
-  Speed the implementation and use of patient-centered outcomes research evidence
-  Influence research funded by others to be more patient-centered

Today's Participants



American Academy of Child & Adolescent Psychiatry

American Academy of Pediatrics

Boston Medical Center

Boston Children's Hospital

Children and Adults with Attention-Deficit/Hyperactivity Disorder (CHADD)

Children's Mercy Hospital

Cincinnati Children's Hospital Medical Center

Elliot Health System

Florida International University

ImpactParents

Inattentive ADHD Coalition

National Alliance on Mental Illness

National Center for Learning Disabilities

Rainbow Babies and Children's Hospital

Seattle Children's Hospital

Society for Developmental and Behavioral Pediatrics

Understood

University of Arkansas for Medical Sciences

University of Michigan

University of Southern California

University of Texas Southwestern Medical Center

UW Health

Background and Your Perspective



Background



PCORI is partnering with the **Agency for Healthcare Research and Quality (AHRQ)** and the **American Academy of Pediatrics (AAP)** to update a systematic evidence review on diagnosis and treatment for attention deficit hyperactivity disorder (ADHD) in children and adolescents.

Goals

Support the possible update of the existing evidence-based guideline

Summarize existing research to support patients and clinicians in treatment decisions

Identify key areas for future clinical studies

What is a systematic review?



- A systematic review is a way to summarize what existing research says about a given topic.
- They are conducted using rigorous methods.
- The results can have many potential uses:
 - Informing clinical guidelines
 - Helping patients and clinicians with treatment decisions
 - Identifying areas for future research
 - Supporting policy initiatives

Your Perspective



A systematic review is a powerful tool. We want it to be as useful as possible to patients, caregivers, clinicians, and decision makers.

We need your personal and professional expertise to do this.

Proposed Systematic Review Questions



Key Question 1



For the diagnosis of ADHD:

- a) What is the diagnostic accuracy of approaches among individuals **younger than 7 years of age**?
- b) What is the diagnostic accuracy of EEG, imaging, or approaches assessing executive function used in individuals **aged 7 through 17**?
- c) For both populations, how does the diagnostic accuracy vary by **clinical setting** or **patient subgroup**, including age, sex, or other risk factors?
- d) What are the **adverse effects** associated with being labeled correctly or incorrectly as having ADHD?

PICOTS for Key Question 1



- **Population:** **KQ1a.** Individuals under 7 yo. **KQ1b.** Individuals 7-17 yo. **KQ1c-d.** Individuals up to 17 yo.
- **Interventions:** **KQ1a.** Standard diagnostic strategies for individuals under 7 yo. **KQ1b.** Specific diagnostic strategies (e.g. EEG-based systems, imaging, or assessment of executive function) in individuals 7-17 yo.
- **Outcomes:** Accuracy of diagnostic strategy. **KQ1d.** Any measure of stigma following diagnosis comparing those with and without ADHD.

Key Question 2 and PICOTS



What are the safety and effectiveness of pharmacologic and/or nonpharmacologic treatments in improving outcomes? How do outcomes vary by presentation or comorbid conditions? What is the risk of diversion?

- **Population:** Individuals (0-17) with a diagnosis of ADHD
- **Interventions:** Pharmacologic or nonpharmacologic treatment alone or in combination
- **Comparators:** Treatments compared with others or no treatment.
- **Outcomes:** Intermediate outcomes (e.g. changes on standardized symptom scores, acceptability of treatment, functional impairment); final outcomes (i.e. academic performance); adverse effects

Key Question 3 and PICOTS



What are the comparative safety and effectiveness of different empirical monitoring strategies to evaluate the effectiveness of treatment in improving ADHD symptoms or other long-term outcomes?

- **Population:** Individuals (0-17) being treated for ADHD
- **Interventions & Comparators:** Various methods and timing of follow-up visits for monitoring
- **Outcomes:** Changes in treatment or dose, adverse effects of treatment, changes in intermediate or long-term outcomes.

*The official draft Key Questions, PICOTS, and analytic framework are posted on AHRQ's website: <https://effectivehealthcare.ahrq.gov/products/attention-deficit-hyperactivity-disorder/draft-comments>

Prepared Comments



Order of Prepared Comments Representative & Organization



Dr. Max Wiznitzer

*Children and Adults with Attention-Deficit/Hyperactivity Disorder (CHADD)
Co-Chair, Professional Advisory Board*

Cynthia Hammer

*Inattentive ADHD Coalition
Executive Director*

Jeremy Didier

*ImpactParents
Coach*

Moderated Discussion

Quick reminders:

- Use the Q&A section to indicate you have a question or comment
- Introduce yourself when you begin to speak



- Do these key questions capture the most crucial issues related to diagnosis and treatment of ADHD in children and adolescents? Are important issues overlooked?

DIAGNOSIS



- Do parents and children/adolescents prefer particular ways of diagnosing ADHD?
- Do care providers prefer certain diagnostic tools for patients with different characteristics (sex, race, comorbidities, etc.) and in different settings? How do they balance ease of use with quality?
- In your experience, what are the possible harms of a child or adolescent being CORRECTLY or INCORRECTLY diagnosed with ADHD?

TREATMENT



- What are the patient and caregiver preferences for medication and non-medication treatment options?
- What is your perspective on non-medication treatments (e.g., diet, behavioral therapies, homeopathy, devices, etc.)?
- After an adolescent or child has been diagnosed with ADHD, how are they monitored over time—by themselves, clinicians, parents, and teachers? How are treatment adjustment decisions made?

OUTCOMES



- How do children and adolescents define successful treatment? Parents? Clinicians? Teachers and schools?

ADDITIONAL QUESTIONS



- How concerned are clinicians and parents about diversion (distribution of prescription drugs for purposes not intended by the provider) of ADHD medications?

Summary and Closing Remarks



Additional input



- We welcome any future thoughts and comments. Please send them by **November 17th, 2021**, via email to **IDD PCORI at iddpcori@pcori.org**
- Opportunity to provide public comment on draft report in fall of 2022. PCORI will email webinar attendees when it is posted.

Contact Information



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Thank you!

