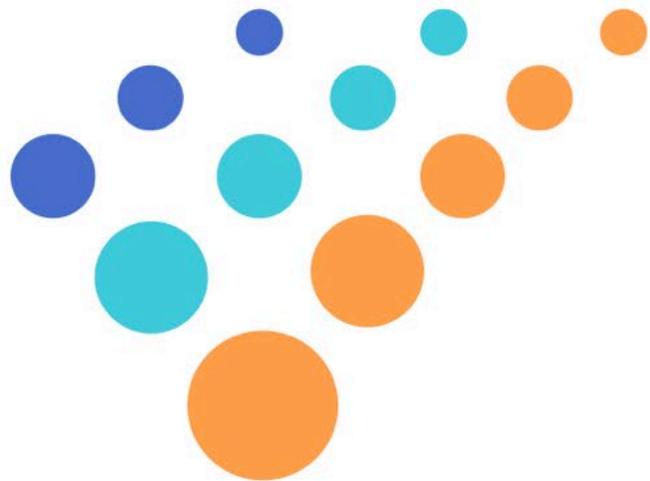




AGENCY FOR HEALTHCARE RESEARCH AND QUALITY



April 2021 CDS Connect Work Group Call



CDS Connect

Meeting Agenda

Schedule	Topic
3:00 - 3:02	<ul style="list-style-type: none">• Roll Call, Michelle Lenox (MITRE)
3:02 - 3:05	<ul style="list-style-type: none">• Review of the Agenda, Maria Michaels (CDC)
3:05 - 3:50	<ul style="list-style-type: none">• Discussion Part 2: Partnering with the Patient and Caregiver Community - Sharing Lessons Learned with CDS: Person-First Safe Living in a Pandemic (Danny van Leeuwen and Laura Haak Marcial)
3:50 - 3:55	<ul style="list-style-type: none">• What's New with CDS Connect This Month (MITRE)
3:55 - 4:00	Open Discussion and Close Out, Maria Michaels (CDC) <ul style="list-style-type: none">• Open discussion and announcements• Concluding comments, review next steps and adjourn

Objectives

- Second of two-part discussion on partnering with the patient/caregiver Community
 - ▶ Today: Explore issues of partnering from the use case of Person-First Safe Living in a Pandemic
- Share new features and resources available for CDS Connect
- Discuss topics of interest to members relating to opportunities for CDS Connect

SHARING LESSONS LEARNED WITH CDS: Person-First Safe Living in a Pandemic

Safe Living Team Members



Facilitators:

- Danny van Leeuwen*, RN MPH, Health Hats, PCORI Board of Governors, Patient-Caregiver Activist
- Laura Haak Marcial, PhD, RTI, Health Informaticist

Participants:

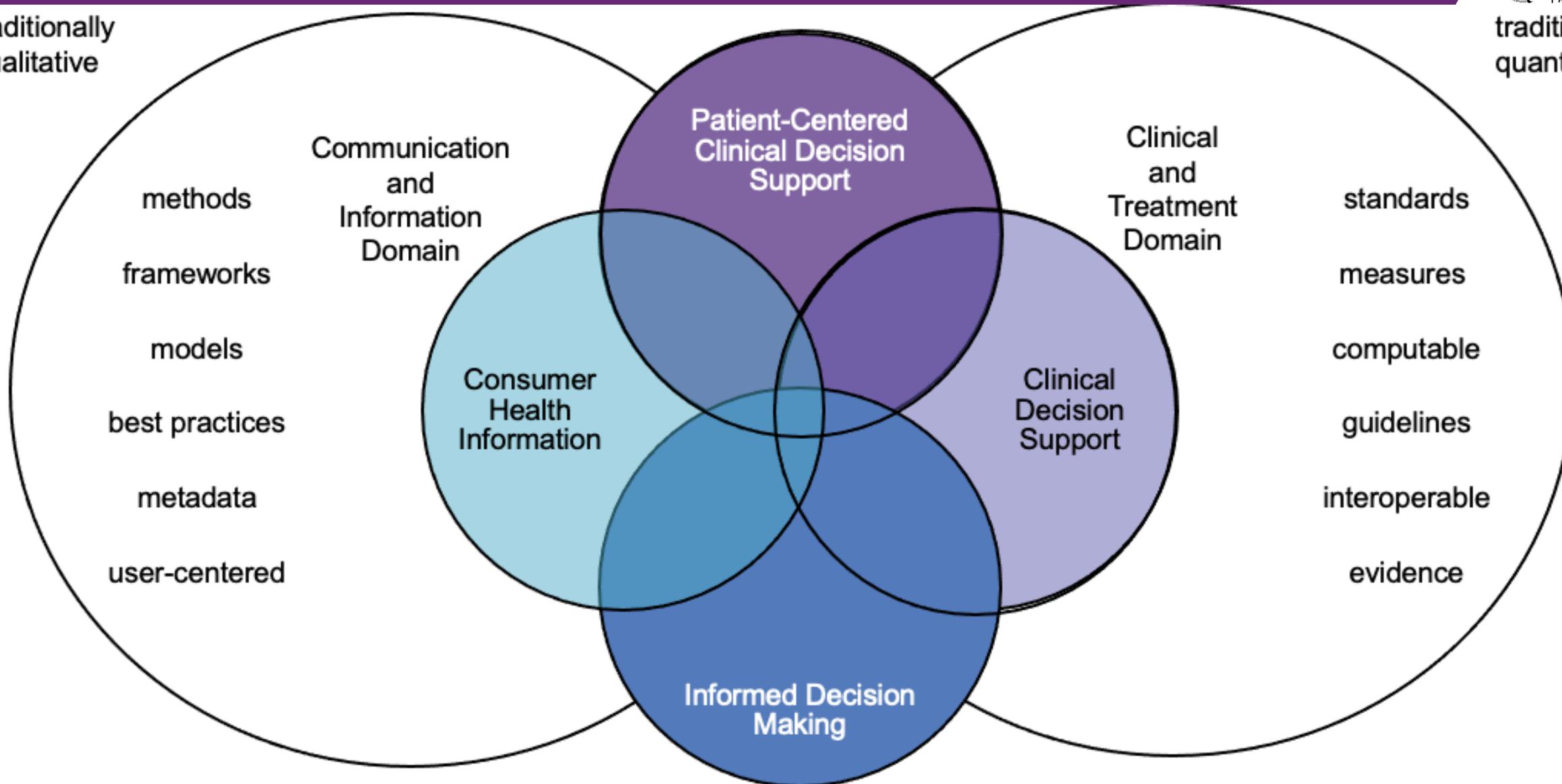
- Michael Mittleman, Jefferson Healthcare System, American Living Donor Assoc, Cybersecurity, Patient Activist
- June Levy, MS, EBSCO, Library Science
- Victoria Lyon, MPH, PMP, U Wash, Healthcare Research, Digital Health Technology
- Kelly Reeves, BSN, UXC Atrium Health, Clinical Research and Quality
- Kayla Nelson, Social Media, Web Design
- Natalka Slabyj, MD, AI, Digital Health
- Maria Michaels, MBA, PMP, CDC, Policy, Public Health, Informatics
- Sameemuddin Syed, MD, CDC, HL7 Standards, CDS

Safe Living and Computable Decision Science



- Individual, caregivers, and communities seek evidence informed guidance to live safely, that answers the questions they have, in a familiar manner, that they can trust, and find when they need it.
- Computable decision science can help with relevance, findability, speed, standards, and use for people with a wide variety of abilities

Intersection Study – Standards Engagement



Uncertainty and Risk

Consider when you last tried to answer a question about COVID-19 for yourself, a friend or family member:

- ▶ Did you search for solutions?
- ▶ Were you able to give a satisfactory answer?
- ▶ What were your sources or resources?
- ▶ What was your role?
- ▶ Where are you on the spectrum of a communicator?
 - Maven, Connector, Salesperson (archetypes)
 - Scientist, clinician, media expert, other (profession)

Managing our Bubbles

- In our COVID-19 situation, we seek to manage our exposure (or risk) in our own bubbles
- In information seeking, we tend to reinforce what we believe or already know
- How do we disrupt the one AND reinforce the other?



Patient-Centered and Person-First



Providing care that is respectful of, and responsive to, individual patient preferences, needs and values, and ensuring that patient values guide all clinical decisions.

- Know audience and user
- Meet them where they are
- Learn where they find info
- Assess attitude and capacity
 - ▶ Risk tolerance
 - ▶ Individual rights /community responsibility
 - ▶ Comfort with uncertainty
 - ▶ Critical thinking skills

Carlos

- Symptoms
- Living and work density
- Job risk
- General health
- Primary transportation



Findability

Disorder



Order



Search Results: COVID-19 Testing for ICU Nurses



PubMed

- COVID-19: A perspective on Africa's capacity and response
- Use of personal protective equipment against coronavirus disease 2019 by healthcare professionals in Wuhan, China: a cross-sectional study
- Effect of Hydrocortisone on Mortality and Organ Support in Patients with Severe COVID-19: The REMAP-CAP COVID-19 Corticosteroid Domain Randomized Clinical Trial

Medline Plus

- A Guide to Surgical Specialists
- For Parents: Multisystem Inflammatory Syndrome in Children (MIS-C) associated with COVID-19
- What Is a Ventilator?

Google

- Guidance for Healthcare Workers about COVID-19 (SARS-CoV-2) Testing
- Clinical Care Guidance for Healthcare Professionals about Coronavirus (COVID-19)
- A Texas ICU nurse is hospitalized with COVID-19 after testing negative

Safe Living Resources

- Safe Living Website
 - ▶ <https://safeliving.tech/about>
- Trust label: Metadata Form
 - ▶ [Google Form for data entry](#)
- EBSCO Portal: Trusted Resources
 - ▶ <https://safeliving.ebmportal.com/>

TRUST: It's Complicated



trust: a person or thing in which confidence is placed

I know it when I lose it.

Objective: Easy to make computable, e.g.:

- Name of resource
- Link to resource
- Author of resource

Subjective: Harder to make computable, e.g.:

- Readability of resource
- Sponsor of resource
- Minutes to consume resource

[CDS Trust framework](#): 9 trust attributes = trust is complicated.

Context of Trust

- Circumstances, experience, historical identity
- Comfort with uncertainty (risk tolerance)
- Individual rights and social responsibility
- Critical thinking:
 - ▶ Managing trust in belief versus fact



COVID-19

RISK TOLERANCE SCALE

0

VERY STRICT

Stays in their personal "bubble" with no outside contact. Only socializes with people living in the same home. Avoids outside contact unless absolutely necessary. Goes outside only if it's possible to maintain 6 ft of distance. Follows strict infection protocols for items entering the home. Concerned because they are or live with someone who is immunocompromised.

1

STRICT

Leaves home for essentials only. Only socializes with people living in the same home. Follows strict etiquette including hand-washing, wearing a mask, and social distancing at a minimum of 6 feet 100% of the time. May be concerned because they are or live with someone who is immunocompromised.

2

FAIRLY STRICT

Leaves home for work, exercise, and minimizes trips out for groceries and essentials. May socialize in a socially-distanced way in outdoors spaces only. Follows strict etiquette including hand-washing, wearing a mask, and social distancing at a minimum of 6 feet 100% of the time outside the home.

3

SOMEWHAT OPEN

Leaves home for work, exercise, and essentials several times a week. Socializes with a small trusted group of less than 10 unique individuals but only in outdoors spaces. Follows hand-washing, wearing a mask, and social distancing at a minimum of 6 feet more than half of the time outside the home.

4

MODERATELY OPEN

Leaves home for work, exercise, shopping, and other activities as desired. Regularly socializes with more than 10 unique individuals outside their home. May invite a small number of trusted visitors, like neighbors, close friends, or family members inside the home. Practices hand-washing and wears masks sometimes. May not always maintain social distancing.

5

VERY OPEN

Socializes without social distancing, masks, or recommended etiquette. Not taking any extra precautions to protect oneself from infection outside what is normal. Not personally concerned with being infected.

Risk Tolerance



[Covid-19 Risk Tolerance Scale published by the APNA, the Association for Premier Nanny Agencies](#)

Critical Thinking

Keep an open m **i** **nd**

Make con **n** **ections**

Ask **q** **uestions**

Adj **u** **st based on evidence**

Assess **i** **mpact**

Pause and **r** **eflect**

Consider wh **y**

A Trust “Nutrition Label” – At a Glance Information

Information for a trust “nutrition label”

- Can I read it?
- In a manner I like?
- Is it a subject of interest?
- What do other people think of it?
- Can I find it?
- Who wrote it, spoke it?
- How current is it?
- Do they have a vested interest?
- Is there research behind it?

① **Start Here** →

② **Check Calories**

③ **Limit these Nutrients**

④ **Get Enough of these Nutrients**

⑤ **Footnote**

Sample label for
Macaroni & Cheese

Nutrition Facts			
Serving Size 1 cup (228g)			
Servings Per Container 2			
Amount Per Serving			
Calories 250		Calories from Fat 110	
			% Daily Value*
Total Fat 12g			18%
Saturated Fat 3g			15%
Trans Fat 3g			
Cholesterol 30mg			10%
Sodium 470mg			20%
Total Carbohydrate 31g			10%
Dietary Fiber 0g			0%
Sugars 5g			
Protein 5g			
Vitamin A			4%
Vitamin C			2%
Calcium			20%
Iron			4%

* Percent Daily Values are based on a 2,000 calorie diet. Your Daily Values may be higher or lower depending on your calorie needs.

	Calories	2,000	2,500
Total Fat	Less than	65g	80g
Sat Fat	Less than	20g	25g
Cholesterol	Less than	300mg	300mg
Sodium	Less than	2,400mg	2,400mg
Total Carbohydrate		300g	375g
Dietary Fiber		25g	30g

⑥ **Quick Guide to % DV**

• **5% or less is Low**

• **20% or more is High**

Trust Label

Questions	Fields
Can I read it?	Language(s), reading level, minutes to consume
In a manner I like?	Print, audio (podcast), video
Is it a subject of interest?	Brief objective summary
What do other people think of it?	Commentary - subjective
Can I find it?	What question does it answer? Category. Tags.
Who wrote it, spoke it?	Author, source
How current is it?	Date written, last updated, reviewed by someone
Do they have a vested interest?	Who paid for it? Are there ads?
Is there research behind it?	References cited

More Resources

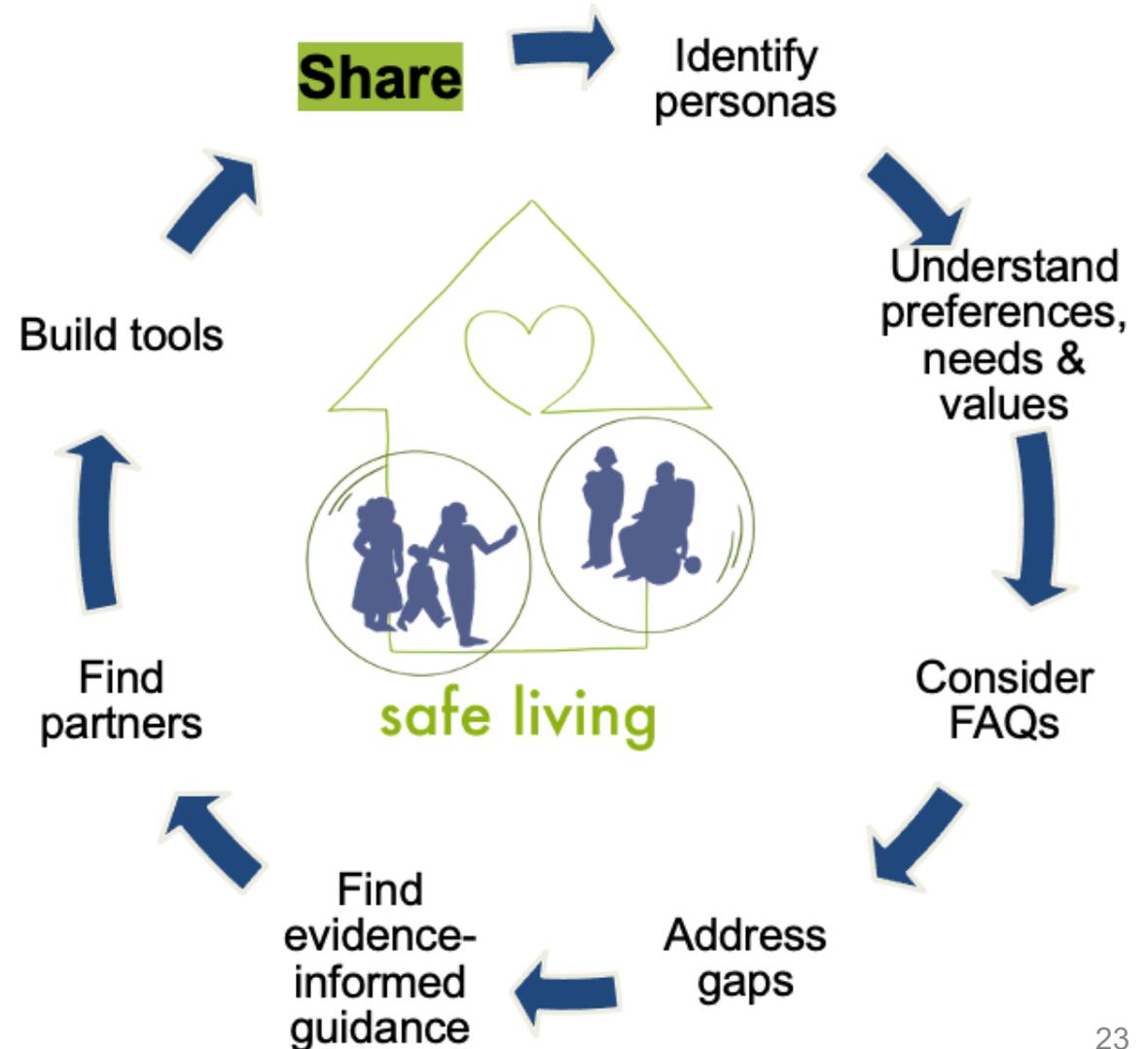
- [Review criteria](#) for news stories and PR from [HealthNewsReview.org](https://www.healthnewsreview.org)
- [Stronger](#). Stopping the spread of misinformation by advocating for facts, science, and vaccines
- CDC's [Program Performance and Evaluation Office](#)
- EBSCO [Information and Resources](#) to Help During the COVID-19 Pandemic
- [COVID Resources](#), and Iris Creative directory
- British Medical Journal's [GRADE](#) (Grading of Recommendations, Assessment, Development and Evaluations)
- [Trusting News](#). Helping journalists earn news consumers' trust

So, What's our "Ask"?

1. **Build Trust** with end-user triad, industry stakeholders and partners, policy makers, funders
 - ▶ **Hardwire listening** through forums, hack-a-thons, etc.
 - ▶ **Coach and mentor** trusted stakeholders
 - ▶ **Be trustworthy in a reciprocal relationship**
 - ▶ **Support end-user triad** and use evidence
2. **Prioritize** standard development in languages end-users use and develop themselves
 - ▶ Offer **industry-wide adoption** of knowledge network and national testing collaborative
3. **Budget funding** for inclusion and relationships with end-users
 - ▶ Consistently budget for and **bring this perspective into the work**
 - ▶ Fund **user-centered design** and improvements in UI/UX
4. **Exercise co-production** muscles
 - ▶ **Advocate by** supporting existing CDS Connect participants to **document inclusion and partnership** with other stakeholder communities and do one more next time.
 - ▶ Use CDS Connect to develop a repository of successful methods and **practices of inclusion and partnership**
5. **Build learning systems**
 - ▶ Determine, specifically, **what CDS developers need to know from other stakeholder communities** so those in the end-user triad are eager to get their hands on CDS artifacts
 - ▶ **AND do this cheaper and faster**
6. **Person-First Safe Living:**
 - ▶ Help show how CDS development expertise can best **advance findability of evidence-informed guidance and self-awareness of trust**

Our Journey

- Know our audience
- Meet them where they are
- Understand their questions
- Close knowledge gaps
- Promote mindful behavior
- Share knowledge



Thank you, questions?



Danny van Leeuwen: danny@health-hats.com

Laura Haak Marcial: lmarcial@rti.org

Safe Living: info@safeliving.tech

WHAT'S NEW WITH CDS CONNECT

Matt Coarr and Chris Moesel, MITRE

Updates and New Features



- **Authoring Tool**
 - ▶ Artifact list: sort and duplicate artifacts
 - ▶ New expression modifiers: First, Average Value
 - ▶ Continued updates to support reusability and maintainability
- **Prototype Tools**
 - ▶ Released CQL Testing 2.3.0 w/ support for FHIR 4.0.1
 - ▶ Continued work toward support for Clinical Quality Language (CQL) 1.4/1.5
- **CDS Artifacts**
 - ▶ Update project-authored artifacts to support FHIR 4.0.1 and CQL 1.5 (in progress)
- **Repository**
 - ▶ API update for related artifacts and UI changes in progress
 - ▶ CPG-on-FHIR work continues
 - ▶ User documentation update continues
 - ▶ Software updates and security patches — In progress: Drupal 9, PHP 7.4, and Acquia Dev Desktop replacement
 - ▶ Technical support for Repository contributors
- Link to CDS Connect: <https://cds.ahrq.gov/cdsconnect>

ANNOUNCEMENTS, OPEN DISCUSSION AND CLOSE-OUT

Maria Michaels

Office of Public Health Scientific Services
Centers for Disease Control and Prevention