

Welcome to the
CDC's Model Aquatic Health Code Network Webinar

Swimming Safe with the Latest Additional of the Model Aquatic Health Code

5/16/23

1:00 PM ET

Listen via your computer speakers or

Call: 301-715-8592 / Webinar ID: 812 7689 7216

Questions may be submitted/upvoted via the Q&A box.

This webinar is being recorded.



Webinar Agenda

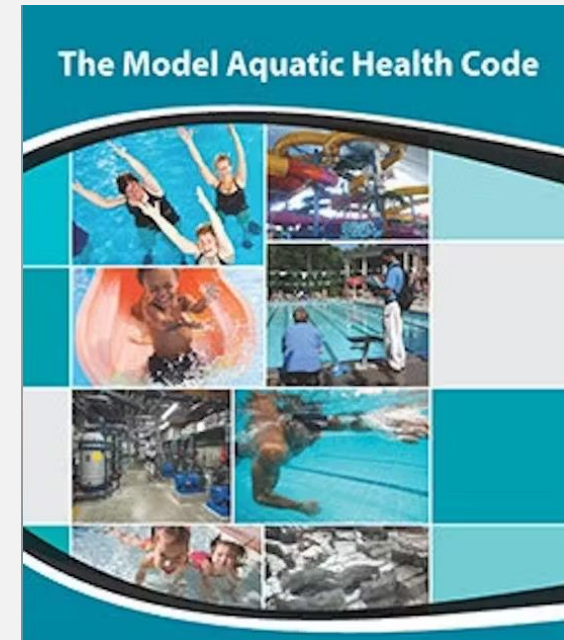
MAHC Webinars – Trends, Patterns, Fast Facts

4th Edition MAHC Changes & Healthy and Safe Swimming Week – Cdr Joe Laco

5th Edition MAHC Update Cycle & Change Requests – Dewey Case

Questions & Answers

MAHC Webinars



Trends, Patterns, Fast Facts

❖ Since 2016, NACCHO has put together and hosted 32 MAHC webinars

❖ Over 35 guest presenters

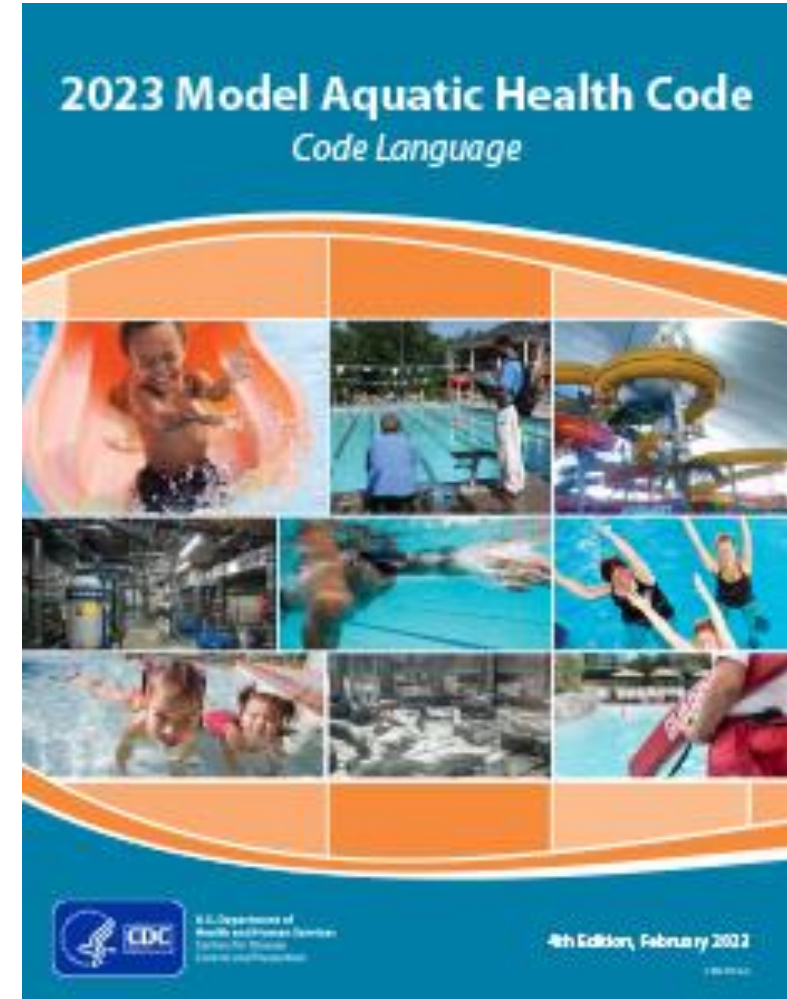
❖ 8 recurring guest presenters

❖ [YouTube MAHC Playlist](#)

Popular MAHC Webinar Topics Include:

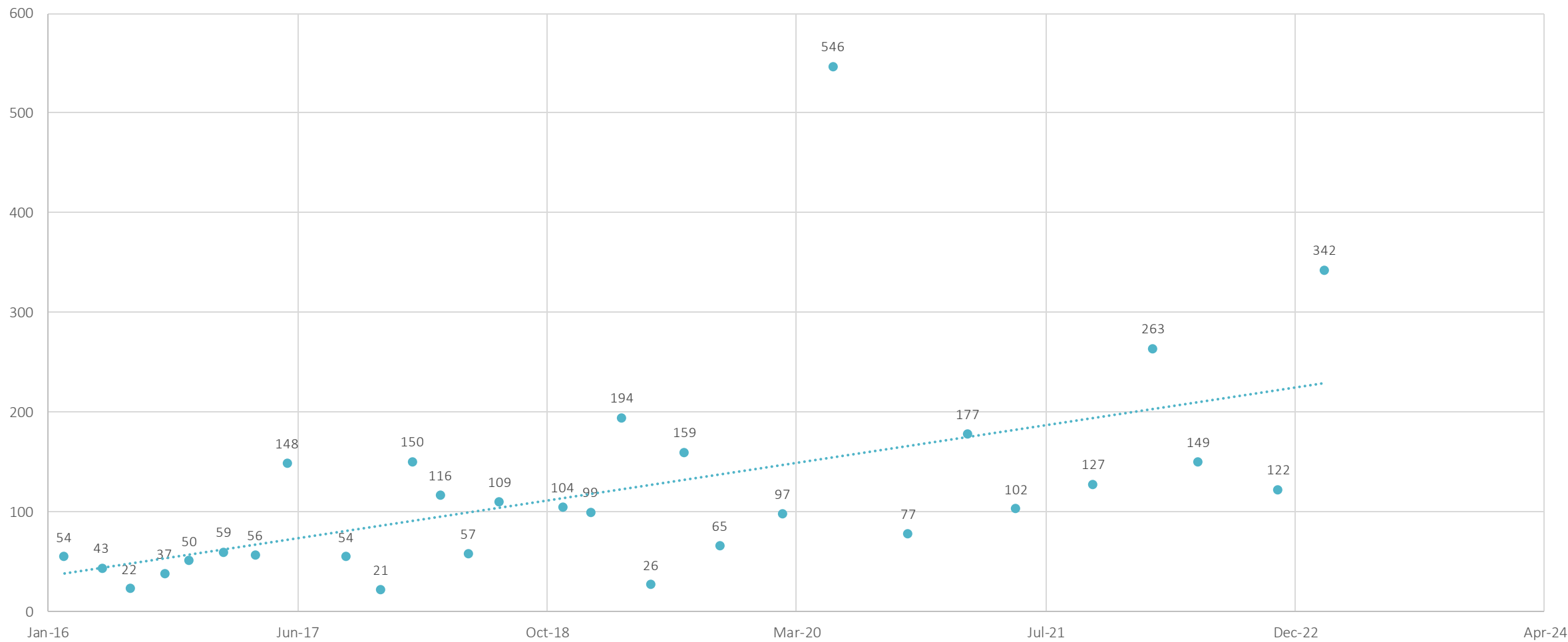
- ❖ Cryptosporidium in Public Swimming Venues
- ❖ Cyanuric Acid as an Aquatic Venue Tool
- ❖ Increased Risk Venues
- ❖ Floatation Tanks
- ❖ Indoor Air Quality
- ❖ Model Aquatic Health Code Updates
- ❖ Using the MAHC in Local Settings
- ❖ Healthy and Safe Swimming Week Resources

For more information visit
www.naccho.org/mahc



Tracking Participants and Engagement

MAHC Webinar Attendance



Today's Presenters

Commander Joseph Laco, MSEH, REHS/RS, CPO

Environmental Health Scientist
National Center for Environmental Health
Centers for Disease Control and Prevention (CDC)



Dewey Case

Technical Director
Council for the Model Aquatic Health Code (CMAHC)



NACCHO MAHC Network Webinar

May 16, 2023

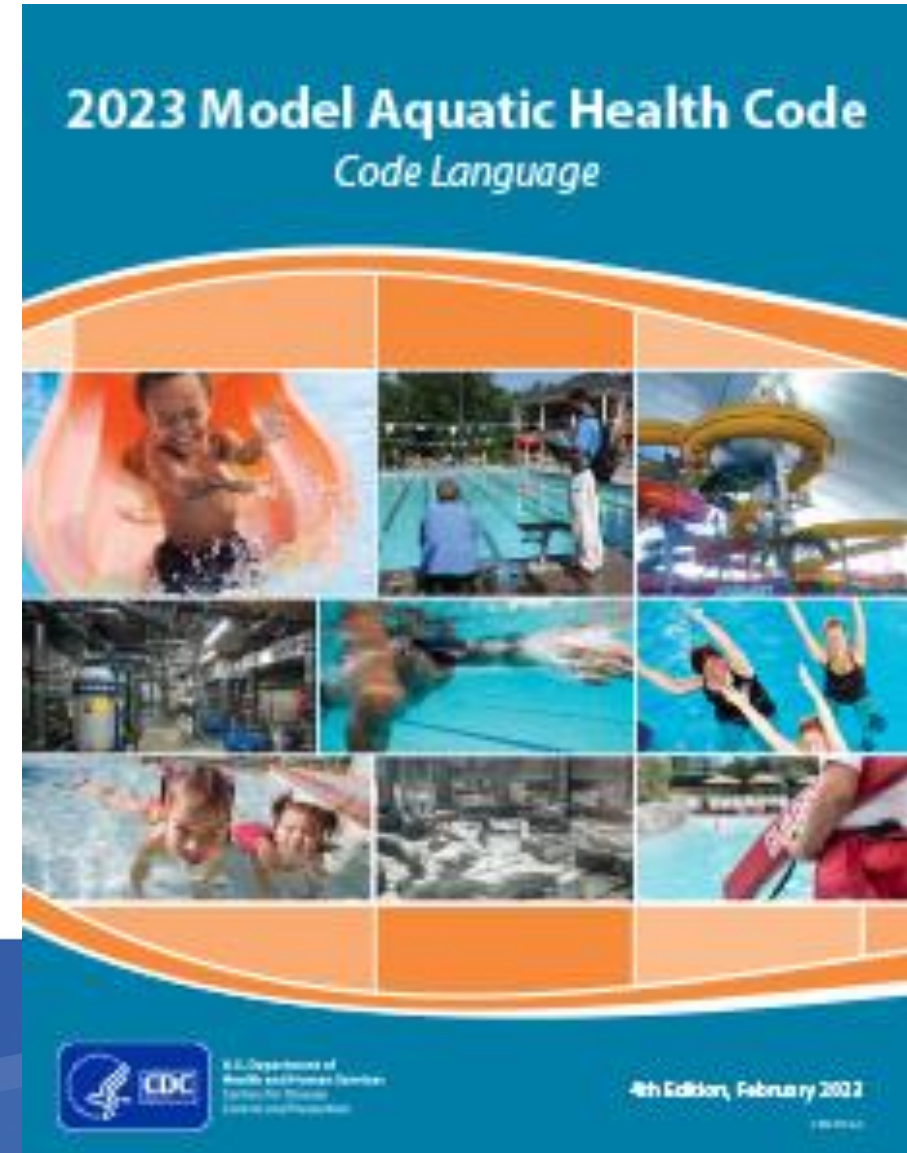
Swimming Safe with the Latest Edition of the Model Aquatic Health Code

Acknowledgements

Samaria Aluko, CDC/NCEZID – ORISE Fellow

Michele Hlavsa, CDC/NCEZID – Epidemiologist

Dewey Case, CMAHC – Technical Director



4th Edition MAHC

- **530 Change Requests received**
 - CR Process and vetting
- **Technical Changes**
- **Language Consistency Updates**
- **Format Changes**
 - New Section – Chapter 7 Special Venues
- **Released 1st Quarter 2023**



4th Edition MAHC

- **“Secondary Treatment”**
 - Name Change
- **MAHC 4.7.3.3.2**
 - 4.7.3.3.2.1 Log Inactivation
 - 4.7.3.3.2.2 Installation



4th Edition MAHC

- Closure Item for Cyanuric Acid
- CYA to Chlorine Ratio
- MAHC 6.6.3.1
 - #3 AQUATIC VENUES using CHLORINE STABILIZERS where the CYA:DPD-FC ratio exceeds **45:1**
 - Imminent Health Hazard = Immediate Closure



4th Edition MAHC

- **Starting Platforms**

- Minimum Water Depth

- **MAHC 4.8.3.2**

- 6 feet for *new* construction
 - 4 feet for existing



Healthy and Safe Swimming Week

GOT DIARRHEA? DON'T SWIM!



Healthy and Safe Swimming Week

Facts About Crypto and Swimming Pools

What is Crypto and how can it affect me?

"Crypto," short for *Cryptosporidium*, is a germ that causes diarrhea. It is found in the poop of a person who has been infected with Crypto. Crypto is protected by a tough outer shell, which allows it to survive for more than 7 days, even in properly chlorinated pools and water playgrounds. Crypto can cause prolonged diarrhea lasting 2 weeks or more, during which the diarrhea might stop and start again. Crypto can make anyone sick, but people with weakened immune systems are more likely to become seriously ill when infected with Crypto.

How is Crypto spread in pools?

Crypto is spread by swallowing water that has been contaminated with poop containing Crypto.

You share the water—and the germs in it—with every person who enters the pool. If one person infected with Crypto has diarrhea in the water, the water can be contaminated with tens of millions of Crypto germs. It only takes 10 or fewer germs to cause infection, which means that swallowing even a small amount of contaminated water can make you sick.

Crypto can also be spread by swallowing contaminated water in water playgrounds, hot tubs, lakes, rivers, springs, ponds, streams, and oceans.

How do I protect myself and those I care about?

Because Crypto can stay alive for days, even in properly chlorinated water, stopping the germ from getting in the water in the first place is critical.

All of us can take the following healthy swimming steps:

- Stay out of the water if you are sick with diarrhea.
- If you have been diagnosed with Crypto, don't go back in the water until 2 weeks after diarrhea has completely stopped.
- Don't poop in the water.
- Don't swallow the water.
- Take kids on bathroom breaks or check diapers every hour.
 - Change diapers away from the water to keep germs from getting in.



SWIMMERS AND PARENTS

For more information on:

- Healthy Swimming, visit www.cdc.gov/healthyswimming
- Diarrhea and Swimming, visit www.cdc.gov/healthyswimming/swimmin/gswimmer/sick/diarrhea-illness.html
- Crypto, visit www.cdc.gov/perspectives/crypto/

POOL OPERATORS

For guidelines and resources on how to prevent Crypto and other germs from spreading in recreational water, visit www.cdc.gov/mhc and www.cdc.gov/healthyswimming/audience-aquatics-staff.html.



U.S. Department of
Health and Human Services
Centers for Disease
Control and Prevention

CS-2018-01 June 11, 2018

Diarrhea and swimming don't mix!

If you wouldn't
do this...



...then why
would you
do THIS?



Don't swim or let your kids swim if sick with diarrhea!

Learn more at www.cdc.gov/healthyswimming



Healthy and Safe Swimming Week



- **Communications Toolkit**
- How to Reach Out to Partners
- Posting on Social Media
- Issuing a Press Release
- Graphics/Posters/Infographics

CDC.gov

Healthy Water

Healthy Swimming

HSSW

Healthy and Safe Swimming Week

Don't leave your mark at the pool this summer!

It only takes one person with diarrhea to contaminate the entire pool.

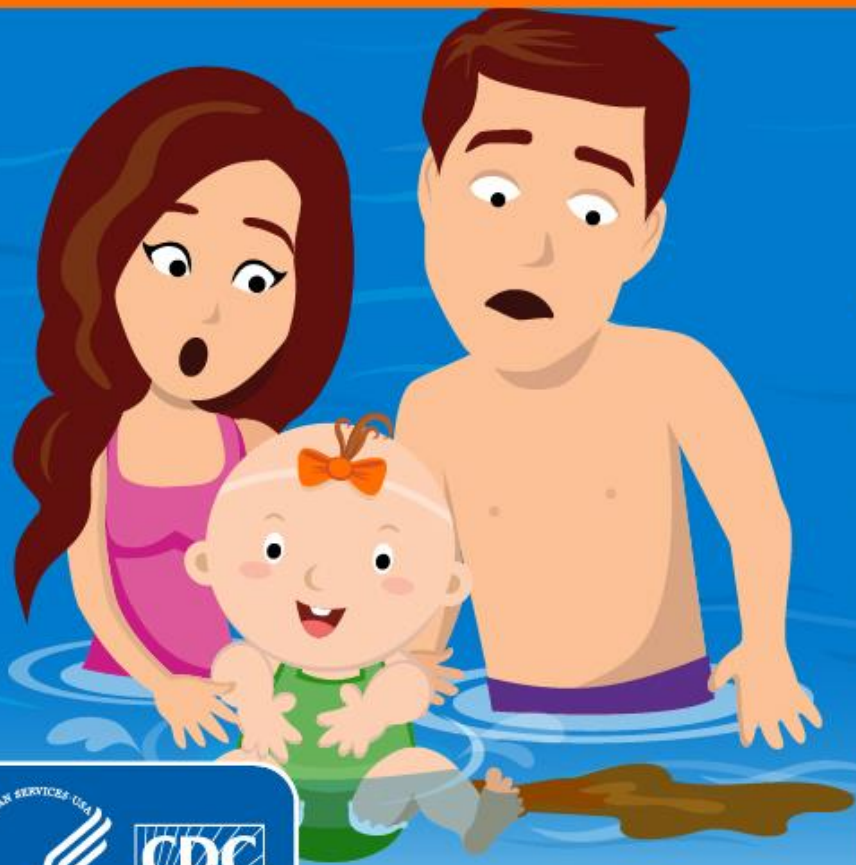


Learn more at www.cdc.gov/healthyswimming



Healthy and Safe Swimming Week

Keep Kids Healthy in the Water



Even in well-maintained pools, some germs can **survive for days.**

Tips for Caregivers:

- 💧 Keep kids out of water if sick with diarrhea.
- 💧 Don't let kids swallow the water.
- 💧 Take kids on bathroom breaks every hour.
- 💧 Change diapers away from the water.

Swim healthy. Stay healthy.



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www.cdc.gov/healthyswimming

Healthy and Safe Swimming Week

Don't Pee in the Pool!



Pee mixed with chlorine creates chemicals that can make your eyes red and itchy.



www.cdc.gov/healthyswimming

MAHC Tools

■ Inspection Form

- Updated for 4th Edition
- CYA : Cl - 45 : 1
New Closure Item
- pH Range
7.0 – 7.8
- Format and Appearance Updates



MAHC Tools

- **Inspection Form Cheat-Sheet**
 - Instructions for the Inspection Form
 - Detailed explanations
 - IHHs
- **Cross Reference Guide**



NEHA Online Pool Inspection Training

- **MyNEHA Account**
- **Purchase the course**
 - Shop
 - Browse NEHA Bookstore
 - Search “Pool Inspection”
 - Cost = \$0.00
 - 8 CEs



CONTACT

Joe Laco, MSEH, RS/REHS, CPO
CDR, US Public Health Service
Centers for Disease Control and Prevention
National Center for Environmental Health
Division of Emergency Environmental Health Services
Environmental Health Services Branch
Atlanta, GA
PH: 770-488-3955
htr6@cdc.gov
www.cdc.gov/nceh/ehs

For more information, contact NCEH
1-800-CDC-INFO (232-4636)
TTY: 1-888-232-6348 www.cdc.gov
Follow us on Twitter [@CDCEnvironment](https://twitter.com/CDCEnvironment)

The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.



A background image of a swimmer underwater, wearing goggles and having their arms extended forward. The image is tinted with a dark blue color and has a wavy, liquid-like texture.

Driven by your expertise.



MAHC CR Submissions

...

Process Updates to the MAHC Review Cycle

Facilitating Change to Improve the Process

...

The sheer number of requests for the 4th edition caused our team and volunteers countless hours on unsubstantial CRs

Desire to streamline the process to improve workflow for volunteers and staff

Make the submitted CRs of better quality

... Four areas of proposed changes

- ❖ Limiting CR Submissions to 50 entries
- ❖ Only substantive changes allowed, no editorial CRs
- ❖ No MAHC Annex CRs will be accepted
- ❖ Improving the Review Process

Limiting CR Submissions

Limiting the number of CR submissions to 50 per person

There would be no significant impact on the number and quality of the submissions

Makes the review process easier for volunteers and their leadership

No Editorial CRs Allowed

Only substantive changes

Purview of the CDC

• • •

Editing for grammar,
formatting

Meaningful Change

• • •

Only CRs which
address meaningful
change to the code
section will be
considered

Definition of Meaningful Change

• • •

A change that alters
the intent or meaning,
or provides further
technical clarification,
for any given code
section

MAHC Annex CRs not allowed

• • •

- ❖ The Annex is under the purview and discretion of the CDC
- ❖ The Annex is changed with the Code is changed
- ❖ Changes to the Annex adds unnecessary complexity and confusion in the review and voting process
- ❖ CMAHC has a standing committee to aid the CDC in updating the Annex



Review Process Improvements

• • •

- ❖ Electronic submission of CRs and TRC/TSC evaluations
- ❖ Creation of an Editorial Review Board

Review Process Improvements

• • •

- ❖ Refinement to Roles of the TRC Chair and Vice Chair
- ❖ TSCs will automatically be assigned CRs to review, removing the need for facilitators to assign.
- ❖ Changing CR Champion to CR Facilitator
- ❖ TSC and TRC will be formed when change requests are open for submission
- ❖ Work will begin as CRs come in

Questions?

Use the Q&A box to submit your questions for the panelists!

Thank you for attending today's webinar!

You will receive a follow-up email with the webinar recording and slides.

For more information visit www.naccho.org/mahc

NACCHO
National Association of County & City Health Officials