



California Asthma Control Strategies: Asthma Management Academy

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California Breathing
October 19, 2021



Overview of Three-Part Webinar Series

- 1) The Burden of Asthma in California
 - Recording available soon
- 2) Asthma Management Academy and Evaluation Results
 - TODAY, October 19, 2021, 10:30am-12pm PDT
- 3) Assessment of Asthma Control Strategies
 - November 16, 2021, 10:30am-12pm PST

Webinar Objectives

- 1) Introduce the Asthma Management Academy (AsMA)
- 2) Present AsMA evaluation results
- 3) Gather feedback on how California Breathing can improve the AsMA and its evaluation efforts

California Breathing

California Breathing focuses on asthma surveillance and developing interventions that improve asthma self-management and environmental conditions that cause or exacerbate asthma in the most burdened communities.



Community Health Worker (CHW) Focus



Photo source: U.S. News and World Report

POLL



What is the Asthma Management Academy (AsMA)?



Photo source: CDPH, Environmental Health Investigations Branch

Goals of AsMA

- Reduce the asthma burden in the most impacted communities in California
- Provide culturally and linguistically appropriate professional development for CHWs



Photo source: CDPH, Environmental Health Investigations Branch

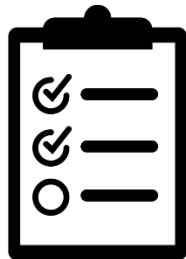
AsMA Partner Organization Recruitment Efforts (2017-2021)



**Organization that provides
asthma self-management
education (AS-ME)**



**Has CHWs in the asthma
care team**



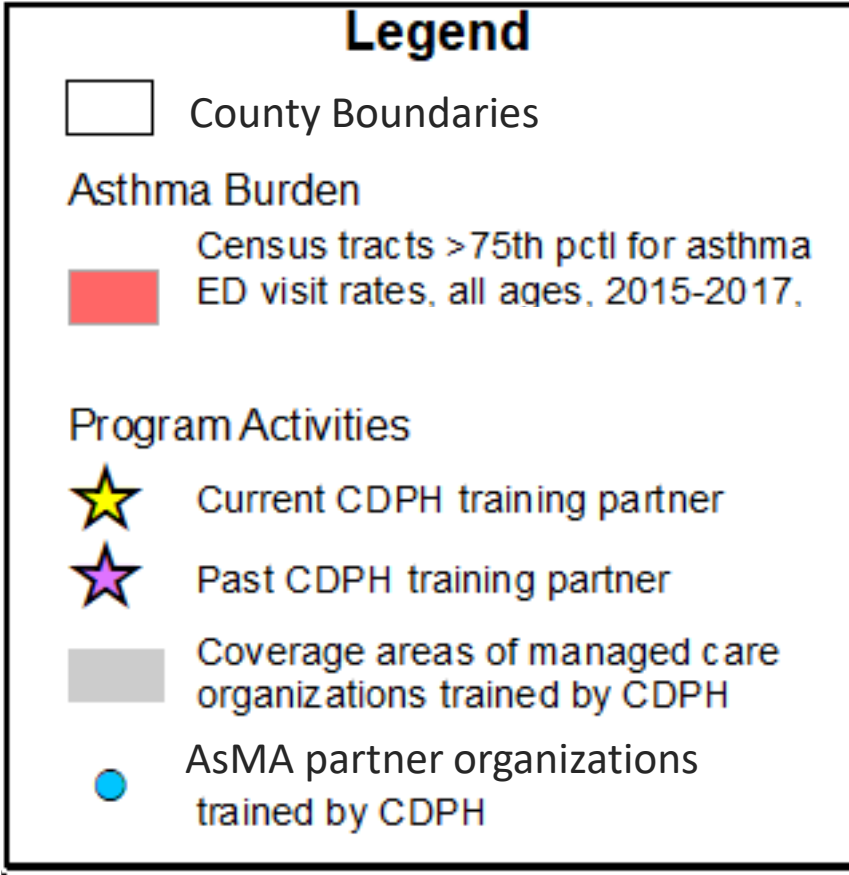
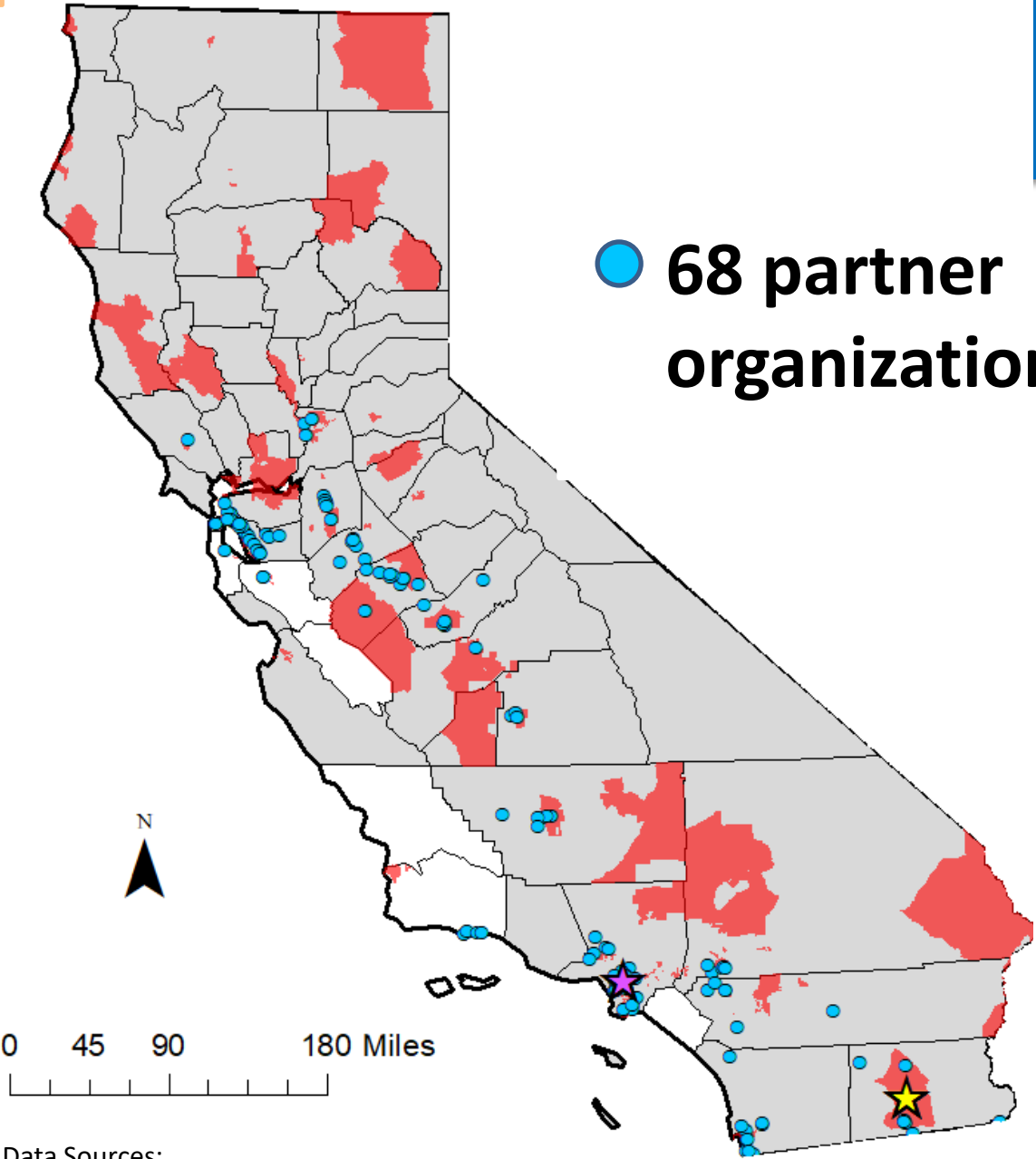
**If possible, provides
de-identified client-level data
to measure impact of AsMA**

Types of AsMA Partner Organizations



Asthma Burden and AsMA Activities

● 68 partner organizations

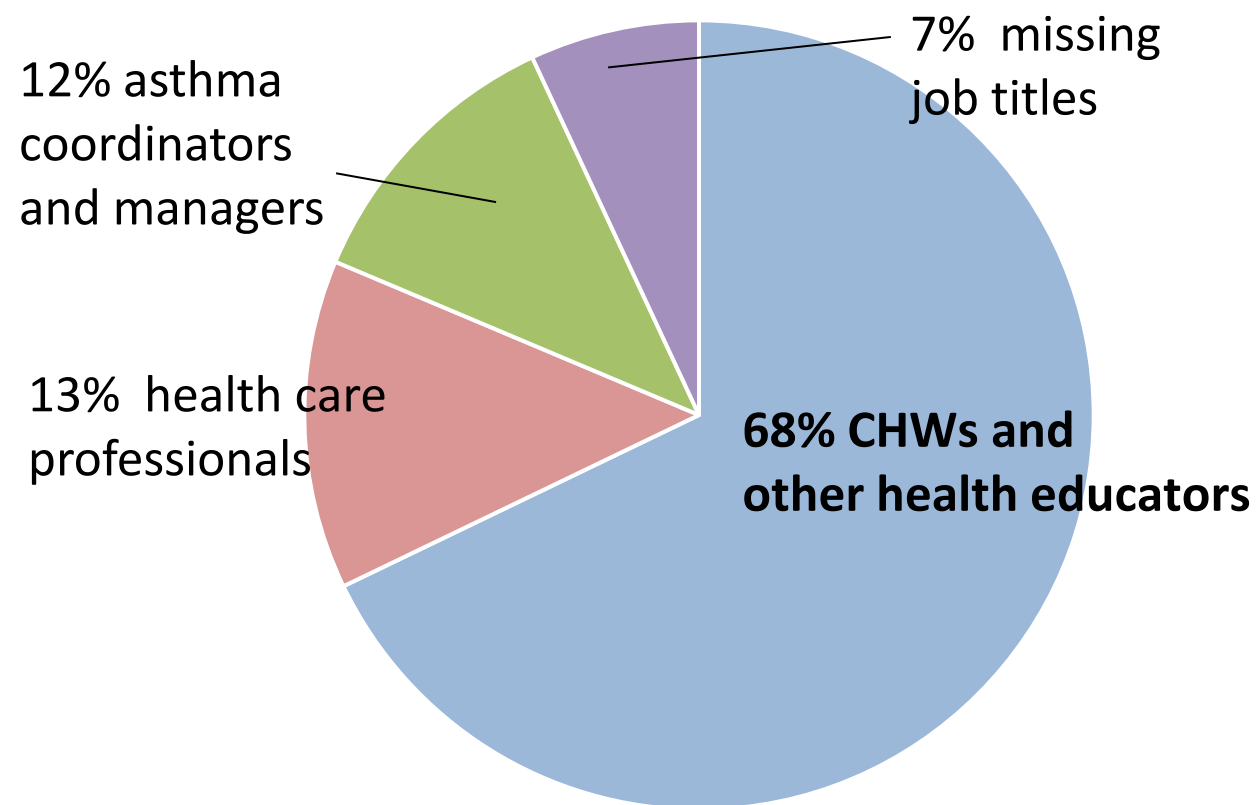


Data Sources:
Office of Environmental Health Hazard Assessment (census tracts >75th pctl for asthma ED visits)
California Department of Health Care Services (health plan coverage areas)

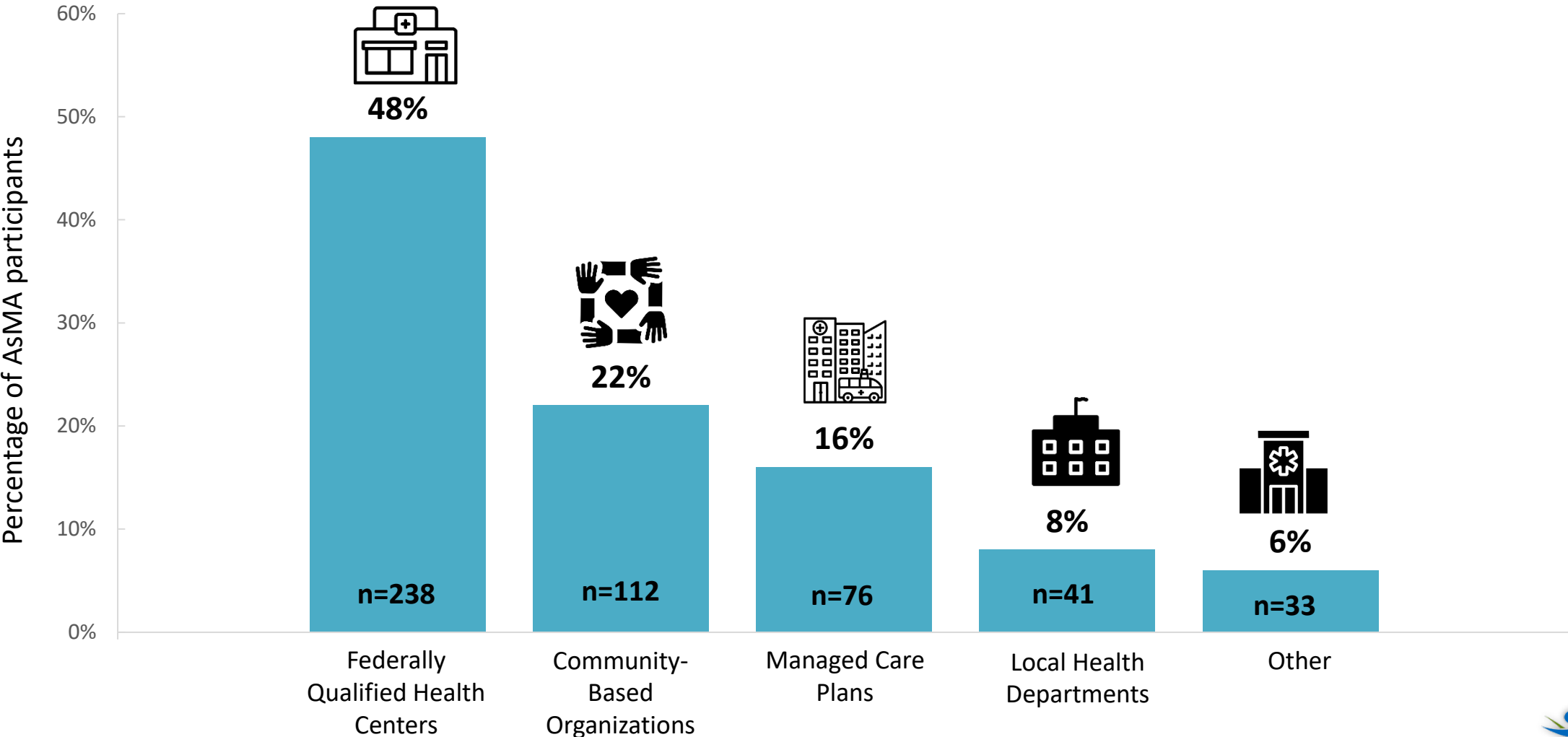


AsMA Participants

- **501** AsMA participants
- Job titles of AsMA participants on the asthma care team:



AsMA Participant Organization Types



Images source: Noun Project

Asthma Mitigation Project



- One-time funding (\$12 Million) for new and established asthma home visiting programs
- Two funding rounds: August 2020 and August 2021
- 28 partner organizations
- Trained over 50 CHWs through the AsMA



AsMA Training Details

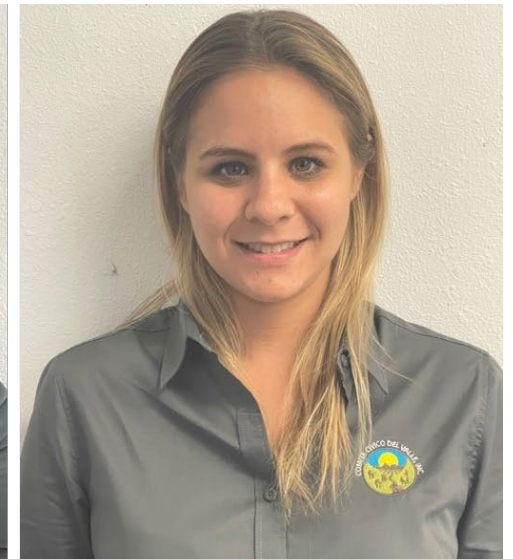
Training Partner



❖ Esther Bejarano



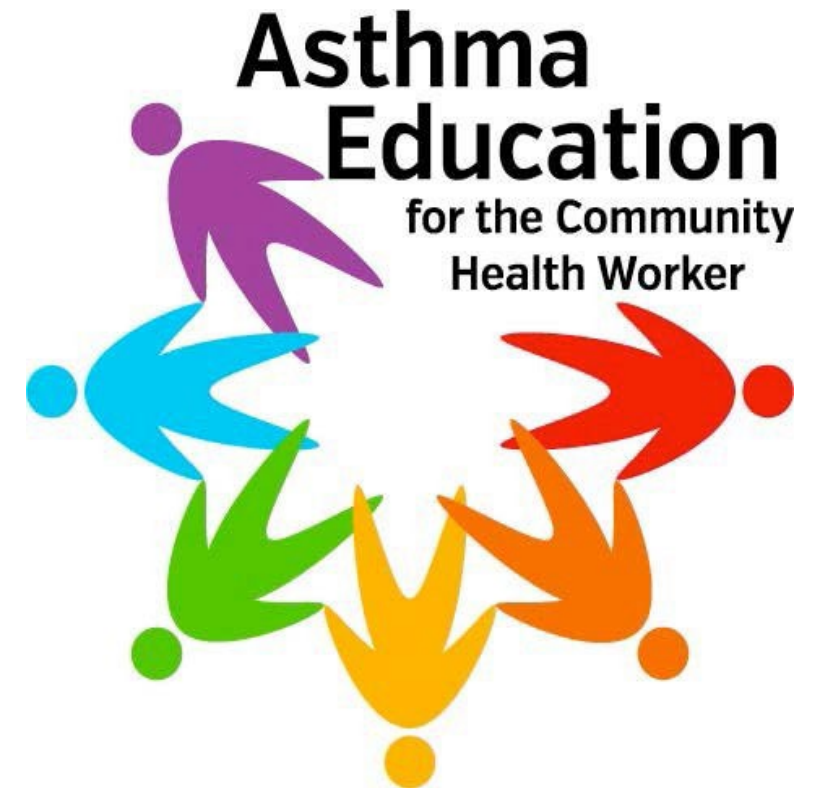
❖ Martha Ponce



❖ Ana Luisa Pedrero

AsMA Curriculum

- Association of Asthma Educators' (AAE) *Asthma Education for the CHW* curriculum
- Co-facilitated by a CHW and certified asthma educator (AE-C)
- Interactive and participatory modules
- Skill-based testing



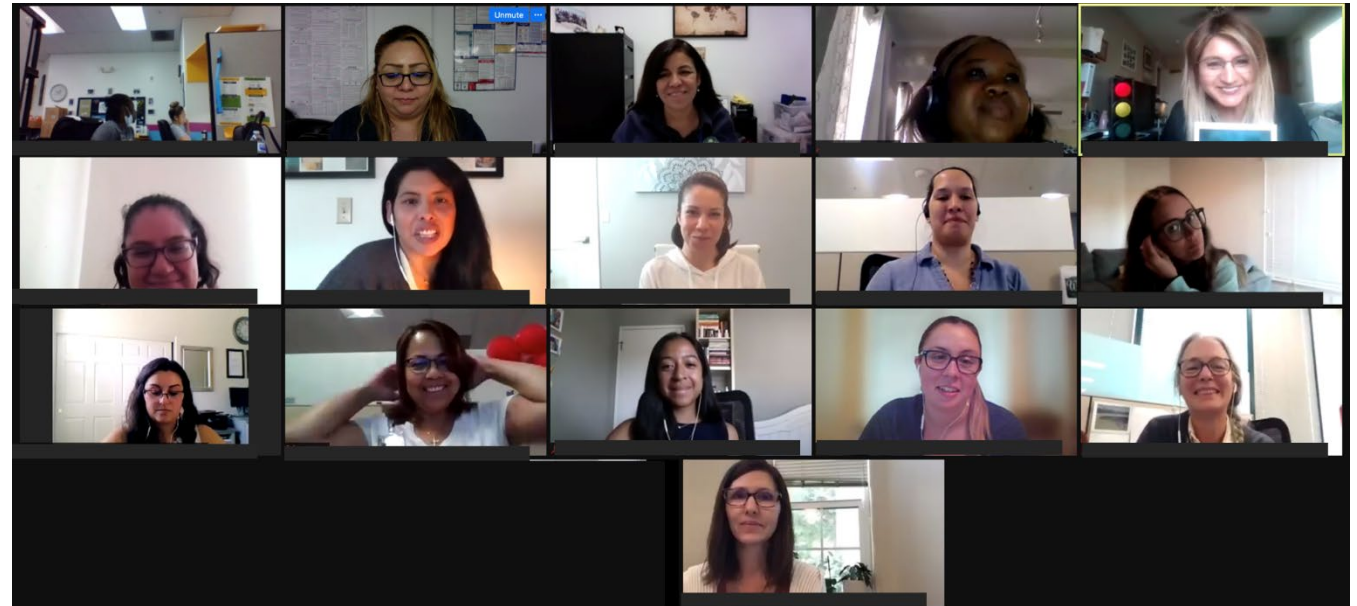
AsMA Modules

- **Module 1:** The basics of asthma
- **Module 2:** Trigger identification and reduction
- **Module 3:** Medications
- **Module 4:** Medication delivery devices
- **Module 5:** Assessment and monitoring
- How to conduct an in-home trigger asthma assessment
- Best practices for home visiting

Highly Interactive Training



In-person trainings pre-pandemic



Virtual trainings via Zoom

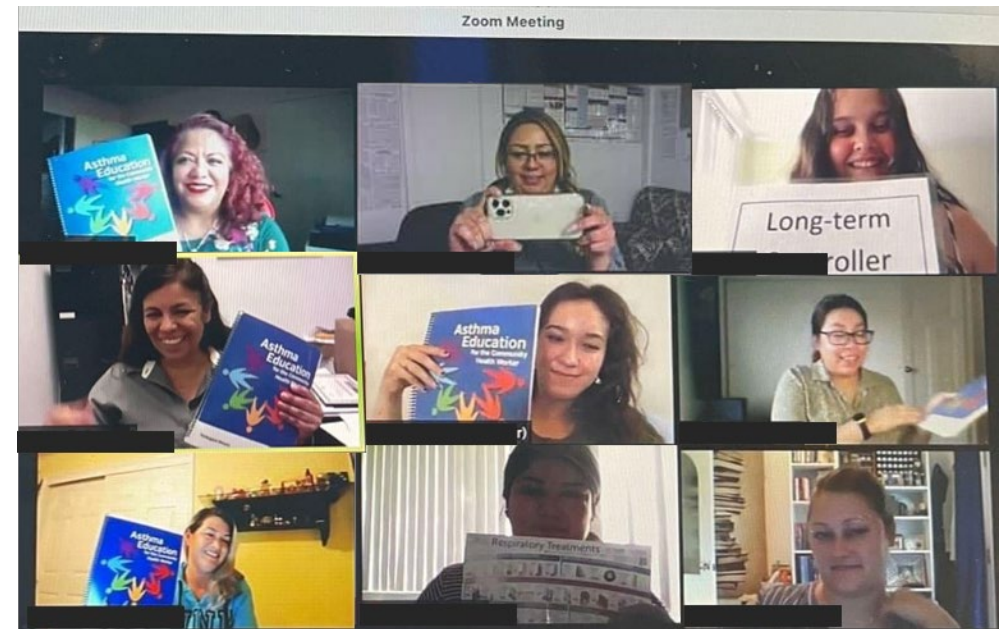
Teach-back Method

The teach-back method is a way of checking understanding by asking clients to state in their own words what they need to know or do about their health.



AsMA Training Logistics

- ~20-hours of training
- Available in English or Spanish
- 10-15 participants per AsMA
- Live, virtual training via Zoom



AsMA Training Kits

Includes:

- Demonstration inhalers
- Spacer
- Peak flow meter
- AAE participant manual
- And more!



Competency Test

- 1-hour oral test
- Not a certification exam
- Part of the AAE Curriculum
- Pass with 80% or higher
- Proctored by an AE-C



San Bernardino County, 2018

Questions?



Interested in the AsMA?

Email us at

California.Breathing@cdph.ca.gov

Or visit our web page

www.cdph.ca.gov/AsMA





AsMA Evaluation Results



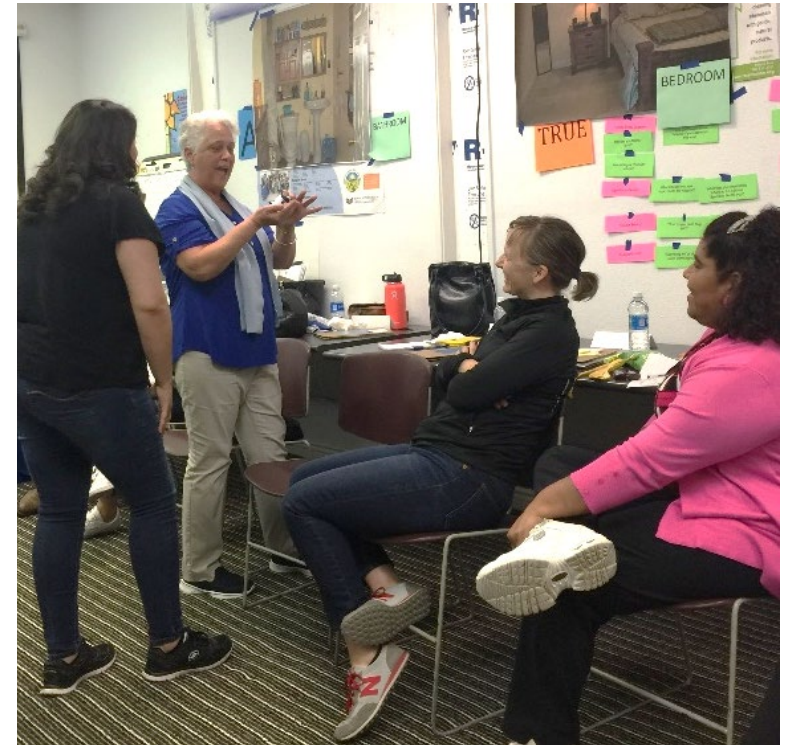
AsMA Evaluations Highlighted Today

AsMA participants Knowledge, Skills, Comfort & Strategies	Client Asthma Outcomes Client data from AsMA partners
Pre-test (Registration)	Emergency Department (ED) Visits & Hospitalizations
Post-tests for modules 1-4	Improved asthma control <ul style="list-style-type: none">• Asthma Control Test (ACT)• Self-reported improvement
In-training Teach-backs on inhalers	Controller medication adherence
Competency Test with AE-C	
Post-training test (3–12-month follow-up)	

AsMA Training Participants Evaluation

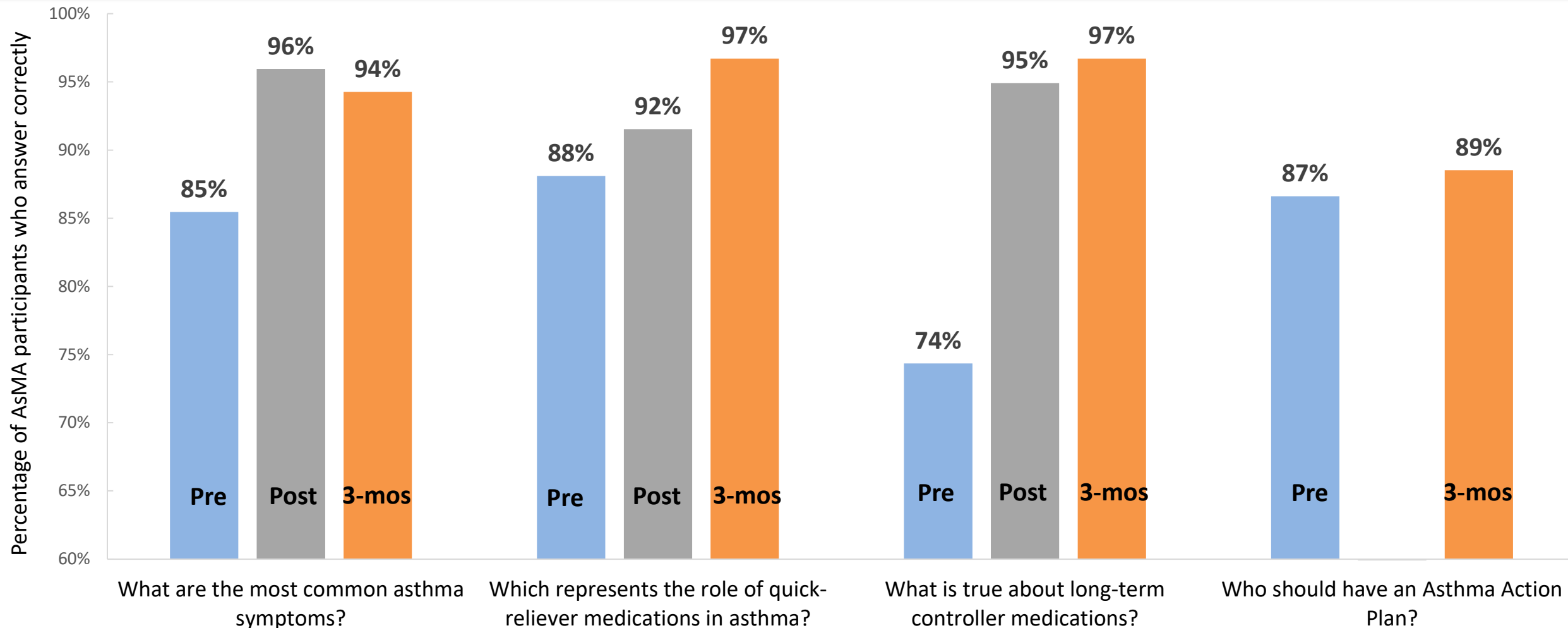
Goals:

- Assess the AsMA's impact on participants' AS-ME knowledge, skills, and comfort levels
- Use data to inform future AsMA training and technical assistance needs (e.g., refresher webinars)
- Identify changes to make to curriculum and delivery for a greater impact on AS-ME





Asthma Knowledge Qs – Pre-Training, Post-Module and 3-Month Follow-up



Module Post-Tests, Teach-backs, and Competency Scores

- Post-test scores after modules 1-4
 - Out of over 400 participants, average test scores ranged from:
 - 83% for module 2
 - 94% for module 4
 - Higher scores of 89% and 94% were for the last two modules
- Competency test scores with an AE-C
 - Out of almost 300 participants, average test scores were from 95% for module 5 to 98% for module 1
- Medication teach-backs
 - Metered Dose Inhaler scores = 96%
 - Dry Powder Inhaler scores = 97%



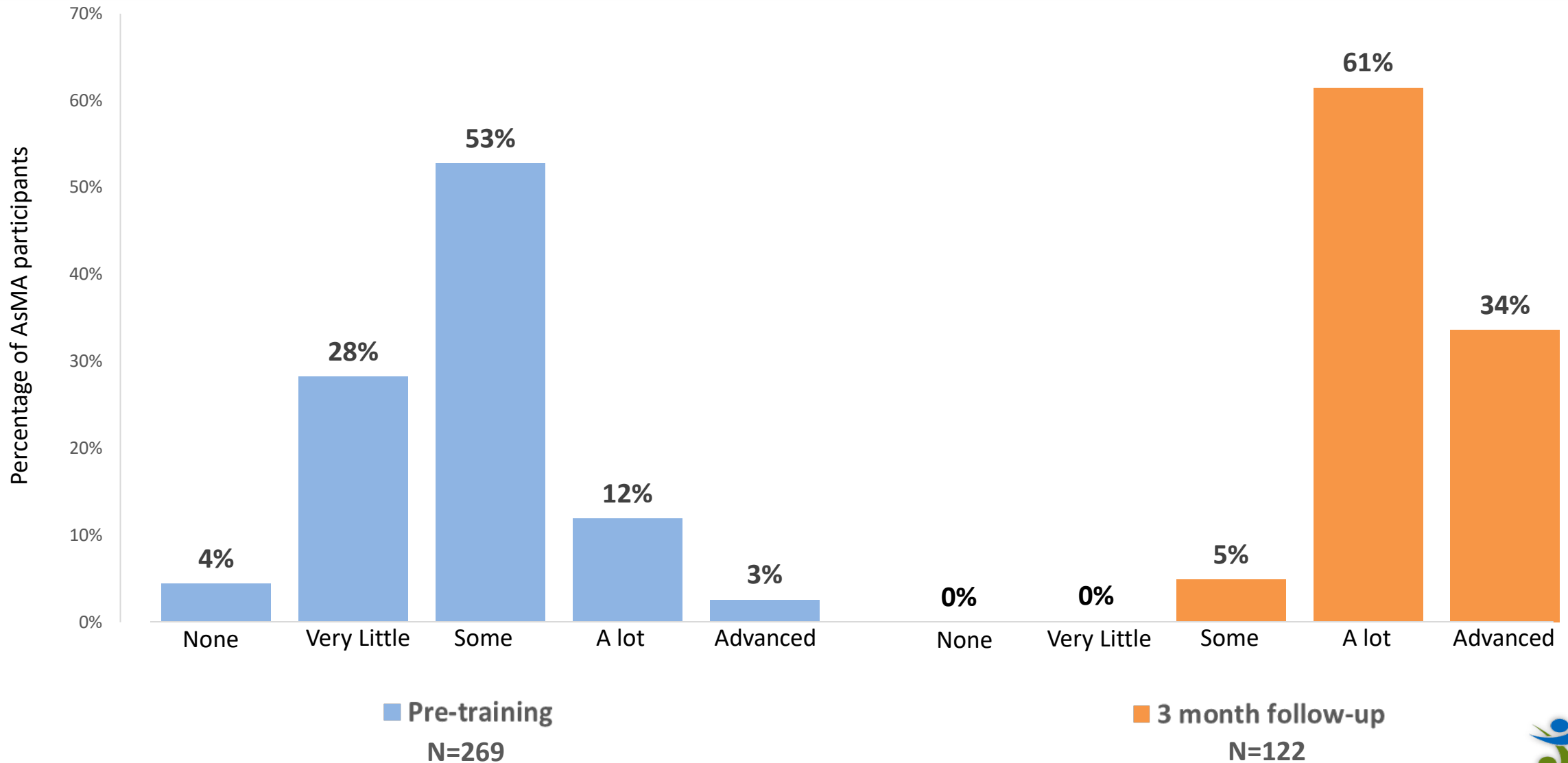
Metered Dose Inhaler
Demonstration Device



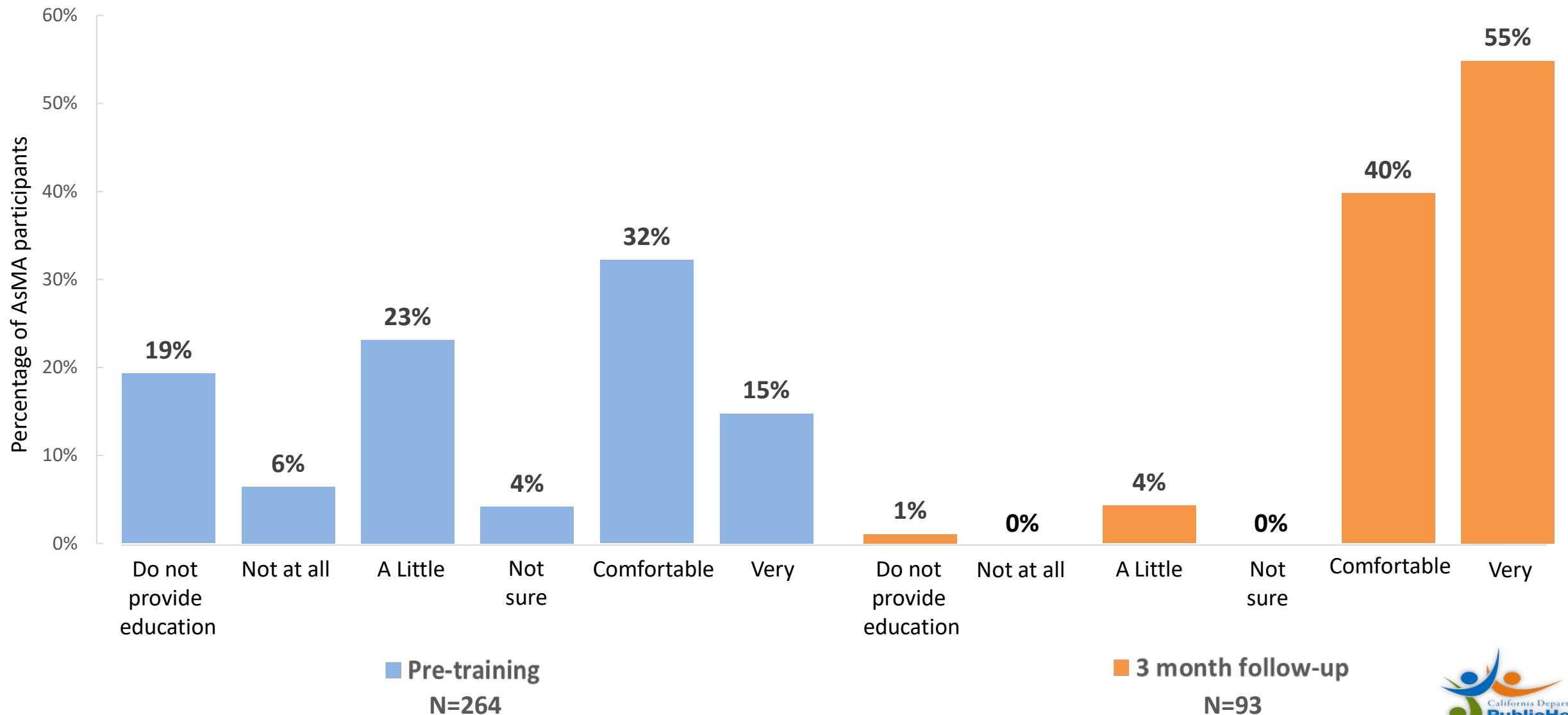
Dry Powder Inhaler
Demonstration Device



Self-reported Knowledge at Pre-Training and 3-Mos Follow-up: How would you describe your level of asthma knowledge?

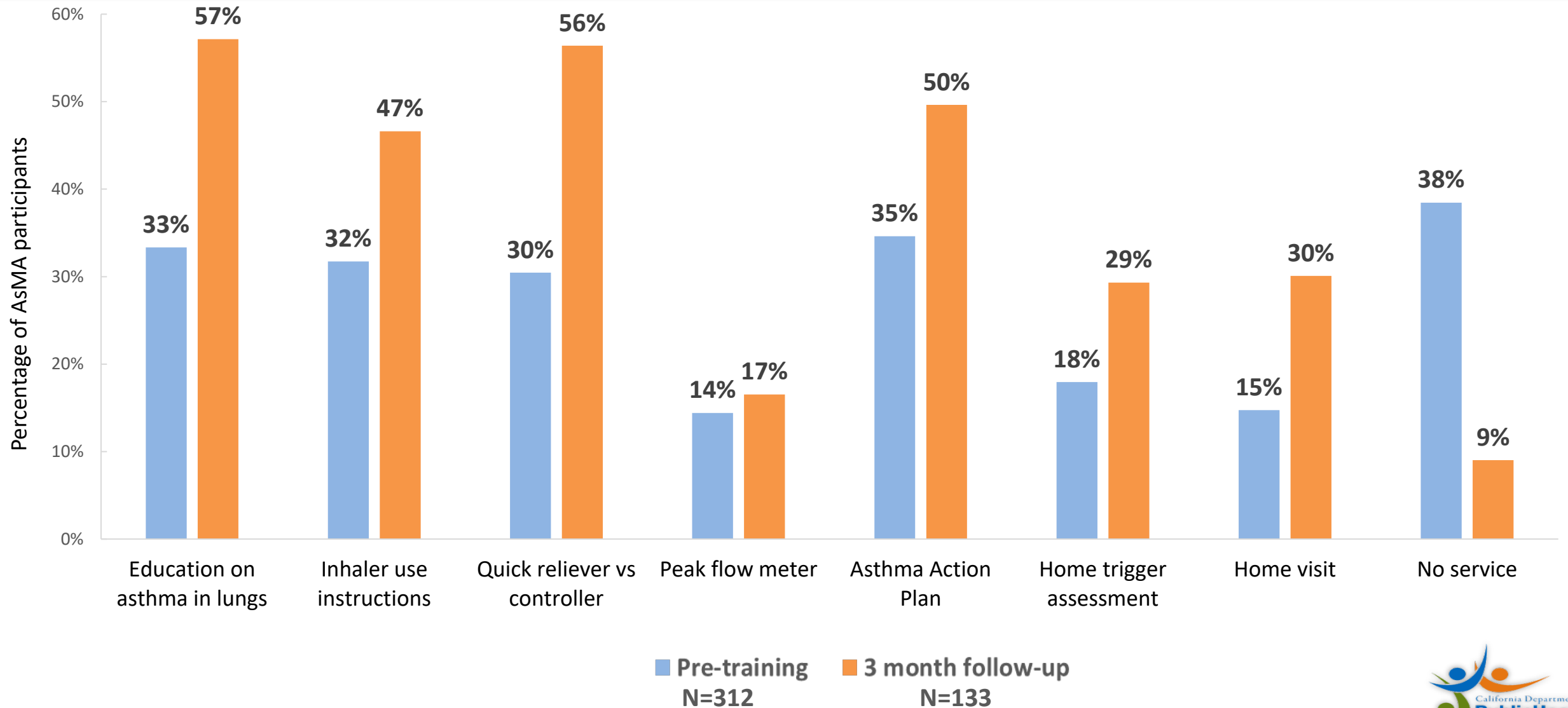


Self-reported Comfort at Pre-Training and 3-Mos Follow-up: How comfortable are you providing AS-ME to your clients?

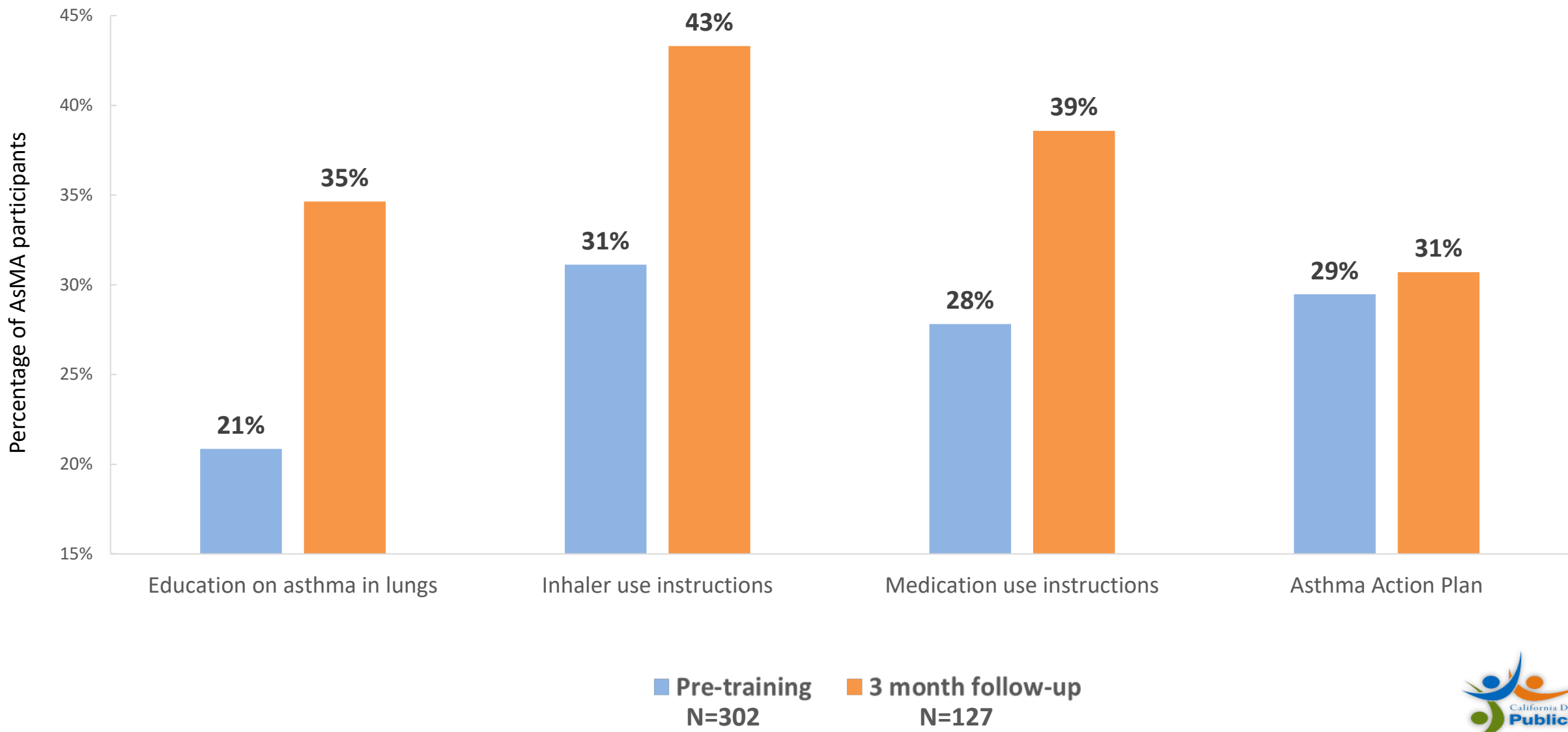


Asthma Self-Management Strategies Provided:

Which of the following do you provide to your asthma patients or clients?



Teach-backs for Asthma Self-Management Services: What topics do you cover in your asthma teach-backs?



POLL



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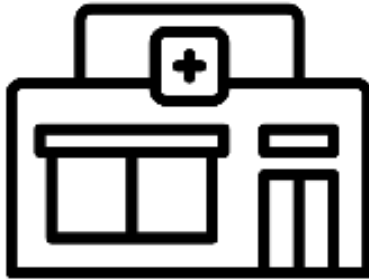
Client Asthma Outcomes Evaluation

Goals:

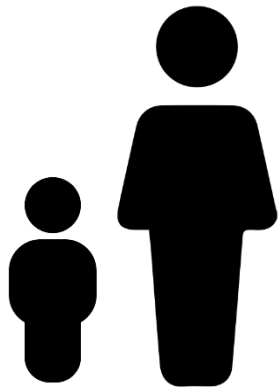
- Identify which clients with asthma were provided AS-ME by CHWs and other educators who participated in the AsMA
- Assess the impact of AS-ME on clients' asthma outcomes (e.g., ED visits and hospitalizations)



De-Identified Client Data



31 of 68 organizations participating in AsMA provided client-level data



1,405 clients with asthma

Client Ages

57% Children 0-17
years old



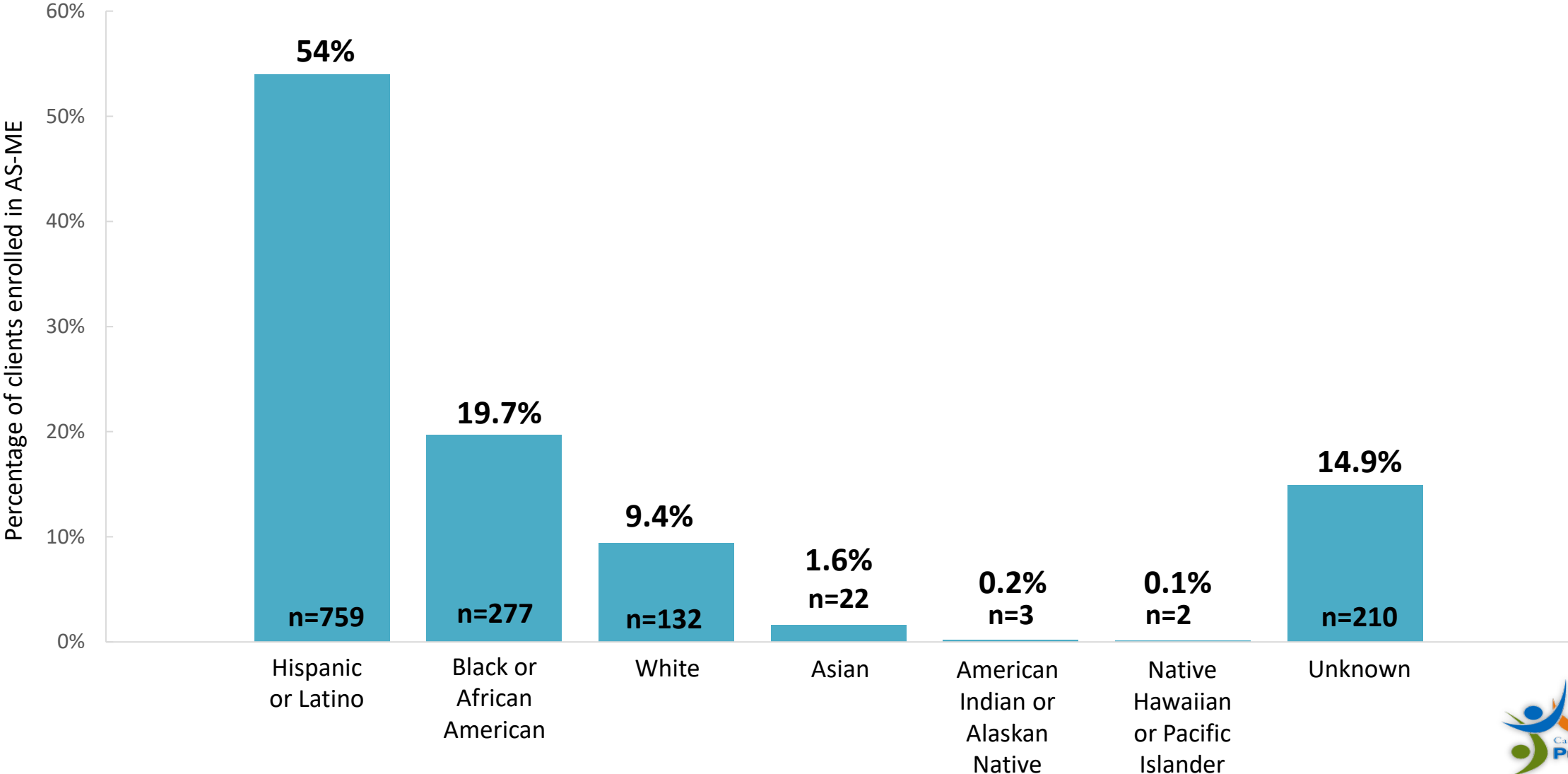
33% Adults 18 years old
and older



10% Unknown age



Client Race and Ethnicity



De-identified Client Data

1,405 clients with asthma

545 completed at least 1 AS-ME session and had any follow-up



Asthma ED visits and Hospitalizations



Asthma Control



Controller Medication Adherence

Asthma ED Visits and Hospitalizations

1,405 clients with asthma

545 completed at least 1 AS-ME session and had any follow-up

98 with at least 1 asthma ED visit or hospitalization in 12 months prior to AS-ME

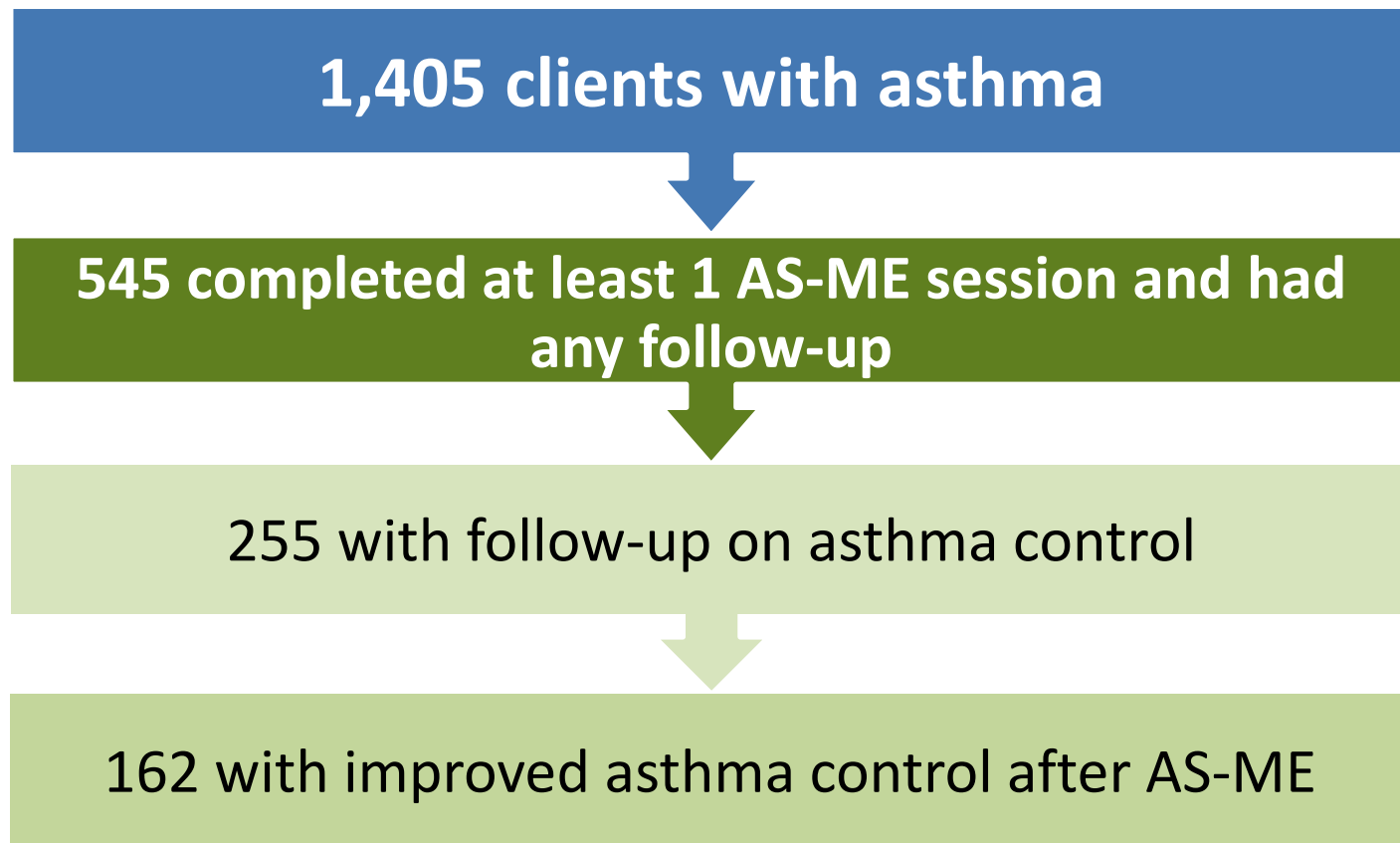
76 with 12 months of follow-up

65 with reduced ED visits and hospitalizations



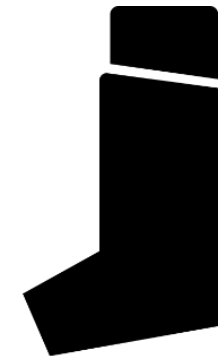
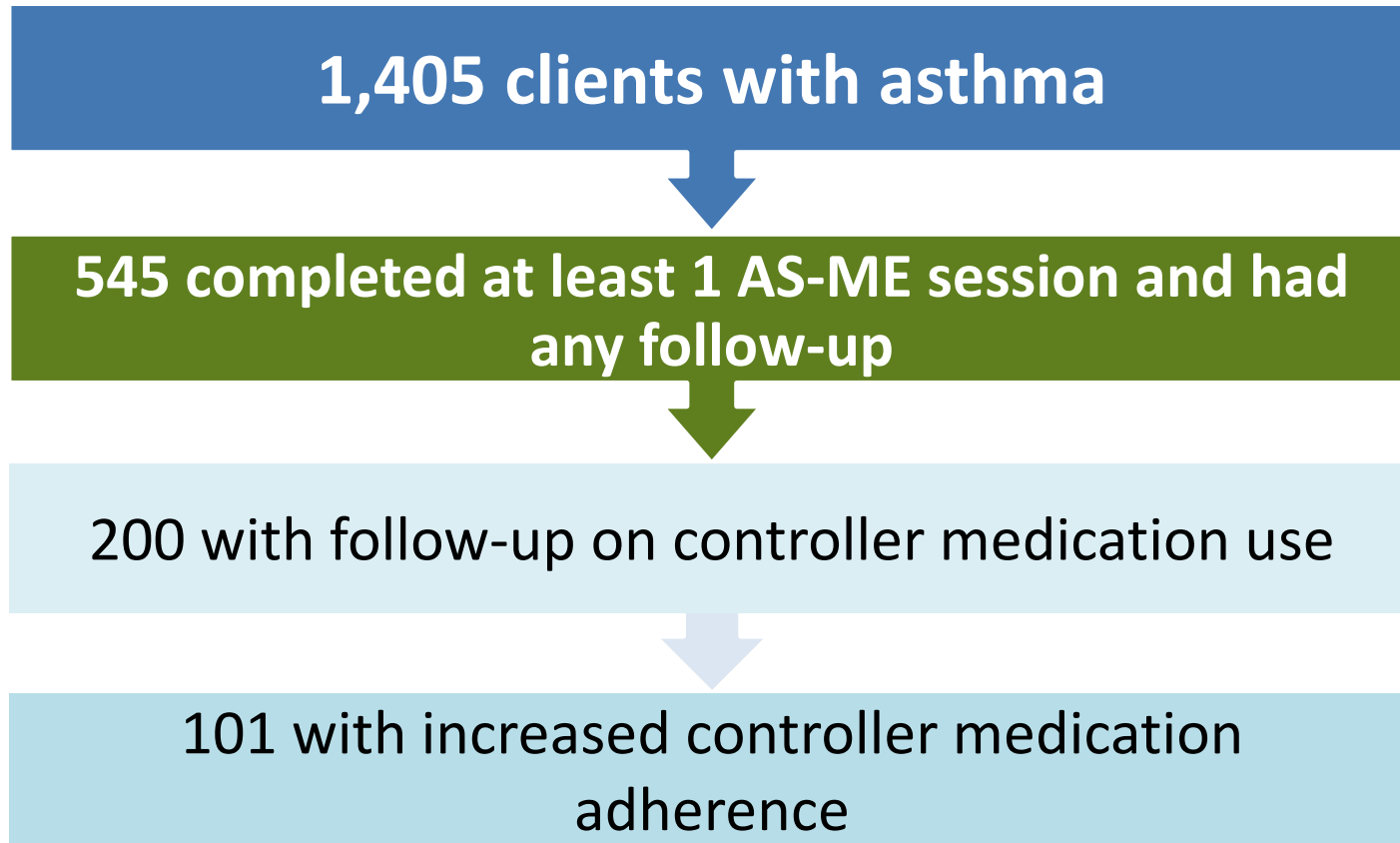
86% (n=65/76)
with reduced
asthma ED visits
and
hospitalizations

Asthma Control



64% (n=162/255)
with improved
asthma control

Controller Medication Adherence



51% (n=101/200)
with increased
controller
medication
adherence

Questions?



Evaluation Feedback Discussion

- What are your overall impressions of these evaluation results?
- What data would you like to see us evaluate in the AsMA training that we are not already collecting?
- Are there any other ways you'd like to see these evaluation data presented?

Acknowledgements

Thank you to all who make the Asthma Management Academy possible!

- Comite Civico Del Valle
- Esperanza Community Housing
- AsMA Participants
- AsMA Partner Organizations
- Asthma Mitigation Project
- Certified Asthma Educators
- Association of Asthma Educators
- Centers for Disease Control and Prevention



Thank you for attending!

- Fill out the survey at the end of this webinar
- Join us for the last webinar of the series:
Assessment of Asthma Control Strategies
November 16, 2021, 10:30am-12pm PST
- For more information,
Email: California.Breathing@cdph.ca.gov
Visit: www.cdph.ca.gov/AsMA