

I have no disclosures of potential conflict of interest.

2

Goals and Learning Objectives ► Identify settings of care where adoption of best asthma practices improves outcomes ► Describe 3 best practices that reflect adoption of expert guidelines beyond the clinical setting







How Do We Implement Best Practices for Asthma Management Learning together (ECHO®) Academic Detailing (supplies, routines) Performance feedback (claims data) Practice facilitation (seeing patients) Implementing Asthma Guidelines Using Practice Facilitation and Local Learning Collaboratives: A Randomized Controlled Trial https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4018371/

7

Missouri Asthma Assets Asthma ECHO® has been funded for 7 years allowing >1400 health professionals to learn together to adopt best practices Missouri Medicaid (MO HealthNet) provides access to administrative claims data that are being used to identify those at risk and to evaluate the impact of interventions Strong leadership for personal & environmental health is influencing policy and practice

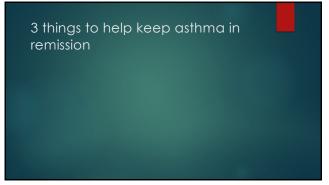
8



The AIR Doctrine (<u>A</u> sthma <u>I</u> n <u>R</u> emission)
▶ Born with the genetic potential to develop asthma
▶ Epigenetics determine the expression of disease – ETS and air quality, what you eat and your weight status, viral infections, problems with your nose, GERD, other
Intrinsic factors – gaining weight, lipid metabolism, activation of the inflammatory cascade, T2 stimulation, including proliferation of eosinophils with airway infiltration
 Extrinsic factors – environmental irritants, allergens, infections

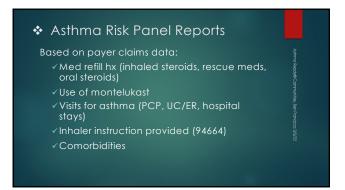
The AIR Doctrine (Asthma In Remission) 90 days of ICS w/reduction of contributing factors begins remission in most children If well controlled for 3 months step down If well controlled for 3 months step down AGAIN If well controlled for 3 months step down and AGAIN When on low dose go to NO dose of ICS. Continue hypertonic nasal hygiene with trigger avoidance Is asthma in REMISSION? Monitor lung function (FEV1, ratio and FEF75) and ACT, Manage co-morbidities

11



Before you step up asthma therapy	

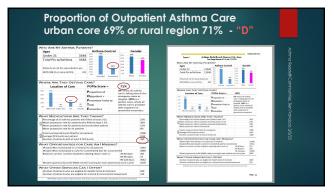




❖ Asthma Risk Panel Reports
 Summary report dashboard "Asthma Report Card"

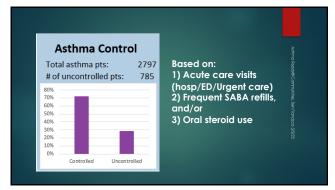
 ✓ Tracks overall level of asthma control
 ✓ Calculates POPTE score (% of care in outpt settings)
 ✓ Displays trends in medication usage
 ✓ Summarizes incidence of comorbidities
 ✓ Looks at testing trends such as spirometry vs CXRs
 ✓ Identifies missed opportunities for proactive care
 ✓ Provides action items for providers

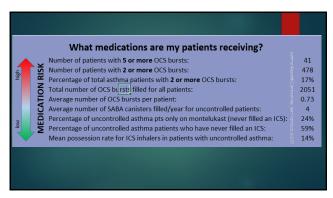
16

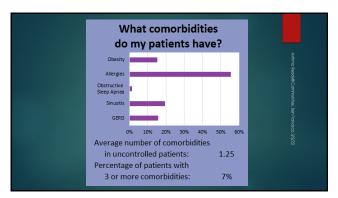


17

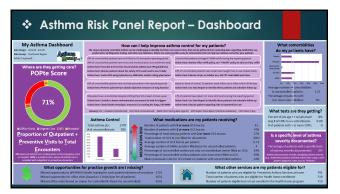
Where are they getting care? **POPte Score** Metric= POPte 0% means all asthma care is taking place in the emergency room **71%** or hospital. 100% is a perfect score, where all asthma care is provided with outpatient or Proportion of Outpatient + preventive $\underline{\textbf{P}} reventive \ \underline{\textbf{V}} is its \ to \ \underline{\textbf{T}} otal$ encounters. **E**ncounters

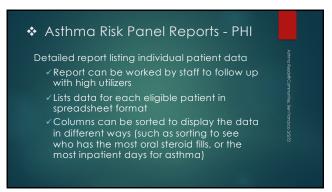




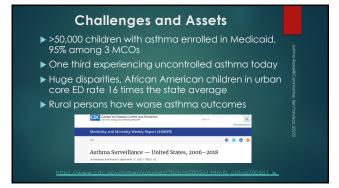


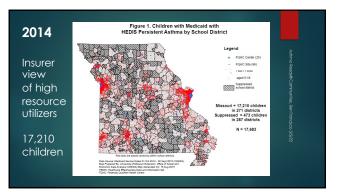














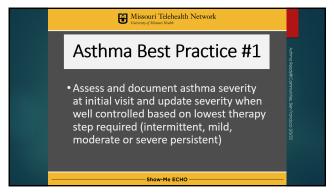


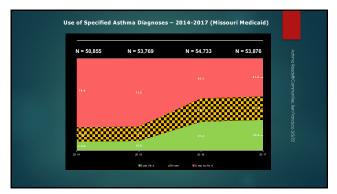


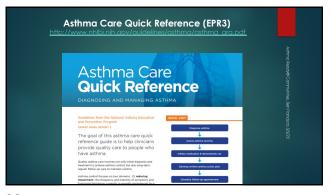


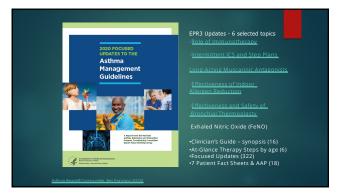


Care-Routine in My Practice Survey N=55 providers 0.1 Assar Severy Britannia Control Server	Results of Asthma			
Practice Survey N=55 providers Service Survey N=55 providers Service Survey N=55 providers Service Survey N=56 providers Service Survey N=56 providers Service Survey Service Service Survey Service Service Survey Service Survey Service Survey Service S	Core Davilina in Mr.	Consider Secretary Physics and the analysis of an expedient		F -1
Practice Survey Interesting to the provided of the provided o	Care-Routine in My	Q1. Assess Severity Initial Visit. Assess and document asthma severity at Initial visit and update	kie, Giller)	a or providers
N=55 providers N=55 providers 12	B P C		35	62.26
N=55 providers N=55 providers 12	Practice Survey		33	03.3%
N=55 providers 10.5% Control of the			32	58.2%
Outsity is a second Care) Outsity is a second Care in Care	N=55 providers			
Mean fotal score for these 13 items 36.6% Mean fotal score for these 13 items 8 36.6% Mean fotal score for these 13 items 8 36.6% Mean fotal score for these 13 items 8 36.6% Mean fotal score for these 13 items 8 36.6% Mean fotal score for these 13 items 8 36.6% Mean fotal score for these 13 items 8 36.6% Mean fotal score for these 13 items 8 36.6% Mean fotal score for these 13 items 8 36.6% Mean fotal score for these 13 items 8 36.6% Mean fotal score for these 13 items 8 36.6% Mean fotal score for these 13 items 8 36.6% Mean fotal score for the fotal score fotal score for the fotal score for the fotal score fotal score for the fotal score for the fotal score fotal score for the fotal score fotal s	it oo providors	Quality Medical Care)	- 6	10.9%
Mean total score for these 13 items 36.6% Commission of the starting of the		(FVC, FEV1, and FEF25-75), determine lung growth pattern and evidence for lung function		
Mean fotal score for these 13 items = 10 it				23.6%
Mean total score for these 13 items				
For these 13 items = 30.00 c single-section Advances or projection with uncertainty and the section of the sect	Advantage Laboration		16	29.1%
for these 13 items = and 13 items = and 14 items of the properties of the properties of the properties of the properties (and properties of the properti	Mean total score			
To rines 13 items = an interest to the control of t			15	27.3%
36.6% Get lines in Province of August and the controlled of advanced in Unique and Controlled of August and Controlled o	for these 13 items =			
30.0% at the law Eventuerand National Fortier for accordance and them a with good whiches technique and collections concerningly was made in the parties received by a size of the parties of the partie	101 111030 13 1101113 -			
out of otherwise complete in a milma fligge interaction just and consider relaterable have a recommendation of the considerable and an extra considerable and an extra considerable and an extra considerable and otherwise and ot	2/ /07		25	45.5%
BEST VALUE Of 1. Separate the second of the	30.0/0			
OF Trackets C on motificities, for June controlled an other shifty paid distribute technique and distributes controlled and and processed controlled inhally provide for shifty provide for paid and provide controlled inhally provide for paid and provide and grain and an advantage of the paid and provide an			12	21.9%
outhwance a visual of and decrement chief althoropy, with fire a larger inhalty, beloated ordigen, and included ordinary and of the property o				22.074
commontatives (time Outsity well-cold Care) 30 54.6% 310. Stretch Annual Andrea Plants, Applicable receives a written orthose or box points that 211. When Annual Andrea Plants, Applicable receives a written orthose or box points that 212. The plants and the plants and the plants of the plant				
DEST OIL Writine A Martine A Kintine Prose. All pale before twee the another a color pain bett decument by the first own grape. but PTO is a record, and Cittle by the oil of a color after or behavioral double by only in beding or climate for the direct being profits of the color pale of the Color of the				
BEST VALUE documents past flow range, but If IV I on record, and IC I large plan and an order for deliberated purity by visit herbige chamber for the indeveloping chamber for the indeveloping chamber for the indeveloping chamber for the indeveloping chamber of the indeveloping cha			30	54.6%
BEST Up you've hording comment for the five-strong gammen (high Quality selected Coard). 21 18.2% VALUE (VALUE 10.1. Ever selected permitter) to Fix A register with the large Value property first distribution by Management of the selected Coard Management of the selected				
OIT. It are Message Personals to BITA At partners with zone or Year messages* (ERI conditioned to sexus delayers of controlled partners and consisting one fire that it about one of the (EVI) duting like described Court in Accordance (Court) and controlled and the Court of Court in Accordance (Court in	REST		21	38.2%
enues de kery of ciffical pudance and conseling over the felt 3 arithms with (ligh Quality Medical Core) Q12. Self-management Education. High nike and impaired patients with se enrolled for standardised, evidence do out of control for orithms self-core (or dependent core) (Rijich Quality)				
standardized, evidence-based education for asthma self-care (or dependent care) (High Quality	VALUE		3	5.5%
		standardized, evidence-based education for asthma self-care (or dependent care) (High Quality		
		Medical Care)	18	32.7%
C1. Timely follow-up Visits. Insure that follow-up visits are set at appropriate intervals matching invest or cannot (1-2 weeks for very poorly controlled. 2-2 weeks for now yell controlled and 1-4.				
level of control (1-2 weeks for very poorly controlled, 2-4 weeks for not well controlled and 1-4 months for well controlled (Clinical Operations) 36 65.5%			36	65.5%



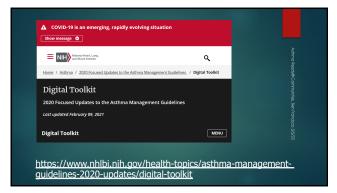


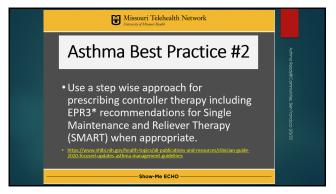


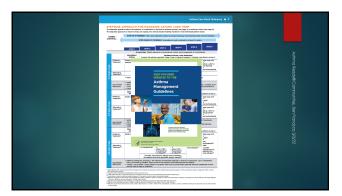




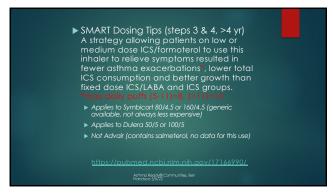












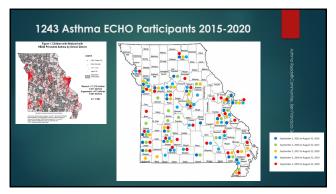
How Do We Implement Best Practices for Asthma Management • Learning together (ECHO®) • Academic Detailing (supplies, routines) • Performance feedback (claims data) • Practice facilitation (seeing patients) Implementing Asthma Guidelines Using Practice Facilitation and Local Learning Collaboratives: A Randomized Controlled Trial https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4018371/.

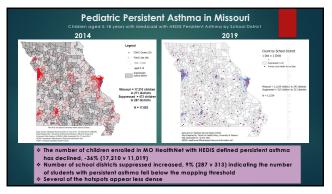


The Missouri ECHO Experience MD/legislator visited ECHO Albuquerque Sponsored a bill for 6 ECHO hubs: asthma, chronic pain, autism, dermatology, hepatitis C, and endocrinology Funded (\$1.5 M) by projected savings from the Medicaid transportation budget (2015), now \$4.5 M, MCOs supporting, >30 ECHOs

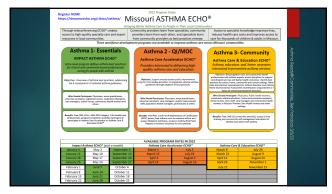
47

MO ECHO® Key Purposes • "Safely & effectively treat common & complex conditions in rural & underserved areas" • "Decrease treatment delays and the need for patients to travel to see specialists" • "Utilize community health care workers to address social determinants, improve adherence and health outcomes"



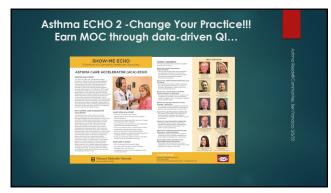
















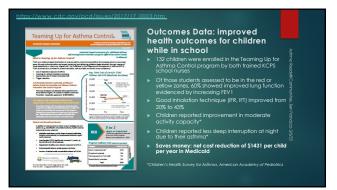




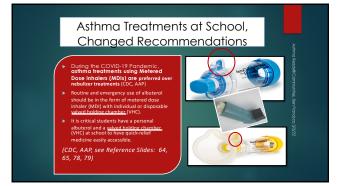
Reducing the Burden of Childhood Asthma Through Local QI & Physician Engagement for Maintenance of Certification (MOC) A 3 years study showed providers who adopted best practices after participating in asthma ECHO® and earning MOC reduced asthma burden for their panel of patients and saw an increase in patients. https://asthmareadv.org/data/. A 5th provider cohort will begin in March of 2022. We use collective impact, implementation science, learning health system frameworks to maximize impact through local QI. Adoption of Best Practices Increases Proportion of Outpatient to Acute Care Pediatric Asthma Visits, abstract ATS, May, 2020.



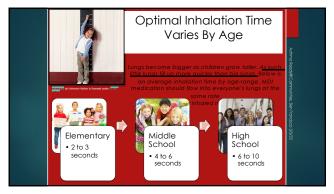
Build Your Team!!! Clinical and Community Partners Asthma Care & Education ECHO® – Pharmacists, care managers, clinical and community disease management providers RN, LPN, MA, RT, CHW, etc. (asthma educators, home environmental assessors, school nurses). Cross-pollinate, share strategies 10 sessions a year, noon until 1 pm, 0.8 CEUs, focus on health home touches, clinic-based education, and reimbursable community preventive asthma services















Three Funded Projects – One Mission

- ▶ April 1, 2021 3 years award by Missouri Foundation for Health, \$618,000, "Community Partnerships for Reducing Asthma Disparities; Community Asthma Care and Education Hubs" 6 rural, multicounty regions of 3,000 Medicaid asthma patients, 2 hub start-ups/year, 18,000 people, 57 counties
- ▶ July 1, 2021 Missouri Telehealth Network ~\$190,000 for three asthma ECHOs: 4 MU staff, 8 contractor faculty and 5 contractor practice facilitators
- ➤ September 1, 2021 DHSS/CDC \$267,782: 6 MU staff, 3 contractors, equipment, travel, AS-ME development

70

MFH AWARD: Community Asthma Care and Education Regions or CACE Regions

Six multi-county rural regions identified with Medicald claims data: 18,000 children

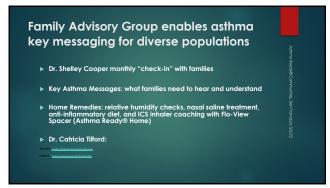
High-volume providers/clinics are targeted for improving asthma care using ECHO

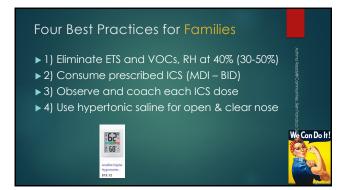
Two regional asthma coordinators (asthma provider champion plus asthma educator)

Collective Impact model: BreatheUP Coalitions. Parents

71

The End Game – Sustainable, Regional Initiatives Growing asthma ECHO® and local coalitions Who was a few from the first of the first

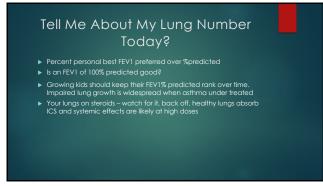












Severity, control, therapy step, adequacy of adherence inhalation technique, co-morbidities and control status Assessment: Moderate persistent asthma, not well controlled on step 4, poor adherence, suboptimal inhalation technique, with known ETS and mold in the home; allergic rhinitis, not well controlled, not using hypertonic saline or nasal steroids; severe GERD, improving with HS famotidine; overweight, improving with Tigers on Track participation

79

Talk to me! Prescribe like you mean it. budesonide/formaterol 160/4.5 2 puff twice daily by Aerochamber Flow-Vu with a 7 second inspiratory time, take up to 2 puffs every 4 hours for a week with flares add ½ vial ipratropium to a full vial of albuterol every 4 hours as needed for symptoms not relieved by albuterol alone (<12 years), full vial of ipratropium for 12 and older fluticasone nasal spray, one spray each nostril after clearing your nose with hypertonic saline twice daily during peak allergy seasons famotidine 20 mg once or twice daily for reflux symptoms including nocturnal cough and nasal congestion

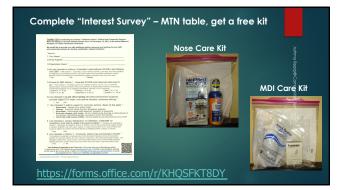
80

■ Who might benefit – living a long distance from clinic, history of poor adherence or poor inhalation technique, stable and needing refills ■ Key elements – review last clinic findings, seeing the home and family dynamics, check inhalers, expiration date, doses remaining, "how do you use this one?", watch MDI w/spacer technique, coach, elicit feach back – bad asthma week, worse attack ever, what do you think in your home makes asthma worse? Goals for next time













Asthma Ready® Goals
Promote best practices based on national standards, Expert Panel Report 3 (w/updates) Guidelines for Diagnosing & Managing Asthma
Reduce asthma burden – target geographic areas with greatest need, by school & town
Establish asthma leaders in the clinics, schools, hospitals and community agencies
► Keep workforce current w/asthma advances