

Child Health Quality Opportunities

American Academy of Pediatrics
DEDICATED TO THE HEALTH OF ALL CHILDREN®



DESIRED GOALS OF THE PRESENTATION

1. Discuss some of the current challenges in Child Health Quality
2. Share AAP levers to address these challenges such as the CHILD registry



CHILD HEALTH QUALITY CHALLENGES

Healthcare
Equity and
Disparities

Child Health
Measures

Behavioral
Health

Childhood
Obesity



EQUITY IN QUALITY IMPROVEMENT

- “Equitable care is when quality does not vary because of personal characteristics such as gender, race, ethnicity, geographical location and socioeconomic status” Crossing the Quality Chasm 2001
- **Inequitable care is low quality care**



DISPARITIES : RACIAL AND ETHNIC

- 2019 AHRQ's National Healthcare quality and disparities report (racial and ethnic)
 - Blacks and American Indians and Alaska Natives received worse care than Whites for about 40% of quality measures.
 - Hispanics received worse care than Whites for more than one-third of quality measures.
 - Asians received worse care than Whites for nearly 30% of quality measures but better care for nearly one-third of quality measures.
 - Native Hawaiians/Pacific Islanders received worse care than Whites for one-third of quality measures



DISPARITIES : LOCATION

- Disparities vary by residence location:
 - For nearly a quarter (24 of 102) of quality measures, residents of large inner city areas received worse care than residents of large fringe metropolitan areas.
 - For one-third of quality measures, residents of rural areas received worse care than residents of large fringe metropolitan areas.
 - For a little less than 20% of quality measures, medium and small metropolitan residents received worse care than residents of large fringe metropolitan areas.



CHALLENGES FOR ADDRESSING EQUITY IN QUALITY IMPROVEMENT

- Lack of reliable data
 - Race, ethnicity, primary language, gender orientation, sexual orientation
- Fee For Service payment model



CHILD HEALTH MEASURES

- HEDIS, CHIPRA measures were designed for accountability at the health plan, state level.
- Most measures are process measures, not measures directly linked to positive outcomes.
- Let's measure what really matters...



BEHAVIORAL HEALTH: COVID 19

- Increase in rates of depression /anxiety
 - 25% of children reporting depression
 - 21% of children reporting anxiety (*JAMA Pediatr.* 2021;175(11):1142-1150)
- Increase in ED visits (*MMWR Morb Mortal Wkly Rep* 2020;69:1675–1680.)
 - 5-11y increased by 24%
 - 12-17y increased by 31%



BEHAVIORAL HEALTH: COVID 19

- 50.6% increase in suicide attempts in adolescents 12-17y (MMWR Morb Mortal Wkly Rep 2021;70:888-894)
- 140k children have lost a primary care giver to COVID-19

Hillis SD, Blenkinsop A, Villaveces A, et al. COVID-19-associated orphanhood and caregiver death in the United States. Pediatrics. 2021;



CHILDHOOD OBESITY

- 22% of children (2-19y) are affected with obesity during the pandemic (increased from 19%)
- Rate of increase of BMI doubled during the pandemic (MWR Morb Mortal Wkly Rep 2021;70:1278-1283)



AAP LEVERS TO ADDRESS CHALLENGES

- CHILD registry
- Quality Improvement Networks



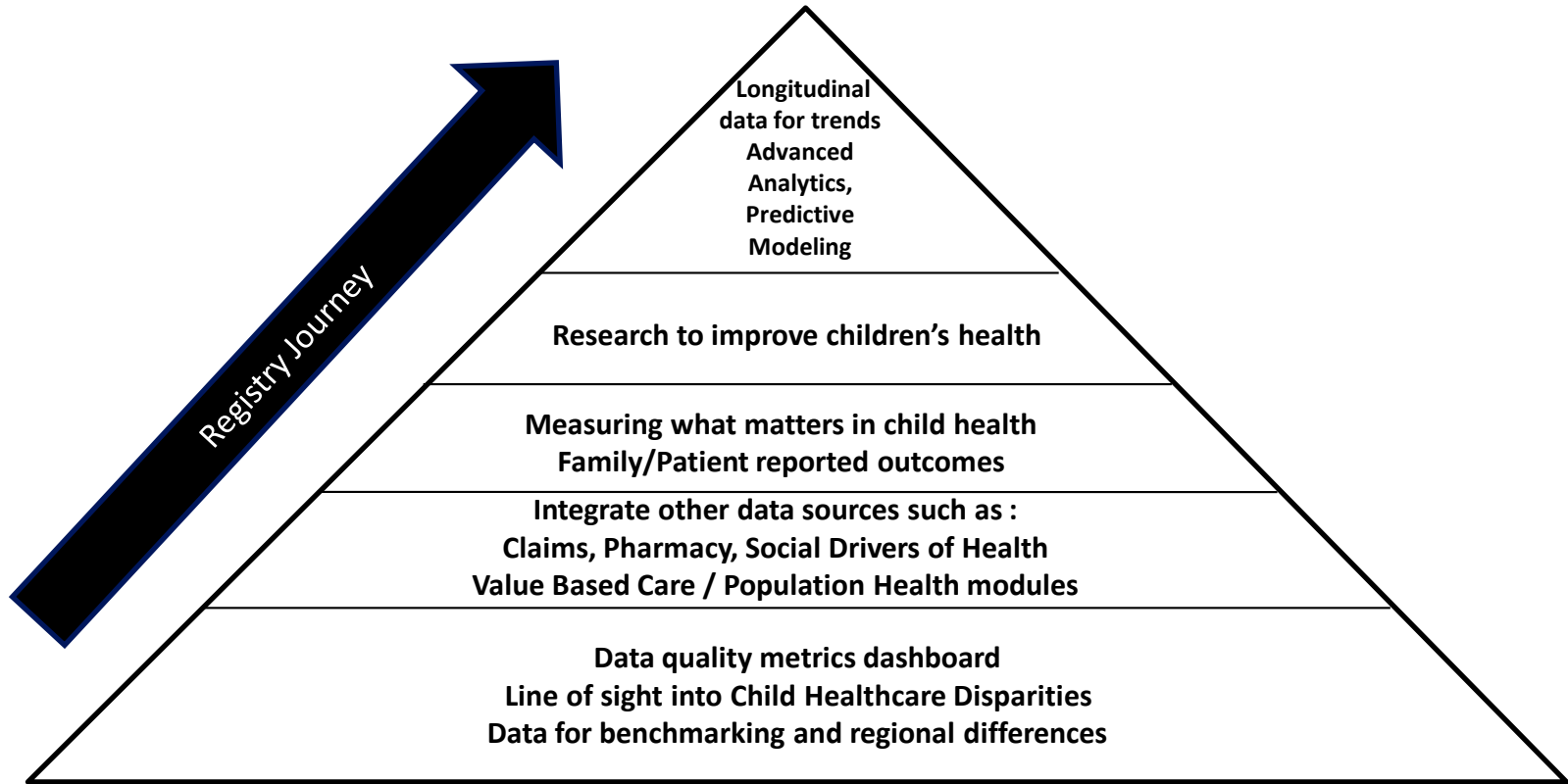
AAP CHILD REGISTRY

The CHILD Registry is a longitudinal record of children that can:

1. Facilitate data driven improvement in child health
2. Support clinical quality and health services research in the future



CHILD REGISTRY JOURNEY



CHILD REGISTRY VENDOR: ARBORMETRIX



Push/Pull
connection to EMRs
and other patient-
level clinical data
systems



Connection to
administrative
databases, including
PBMs, Claims,
Scheduling Systems,
CDC Databases, and
more



Smart, workflow-
based Case Report
Forms for efficient
collection of
specialized data
elements



Patient- and Family-
reported data about
outcomes of care



Streaming and self-
reported data from
wearable and
implanted devices



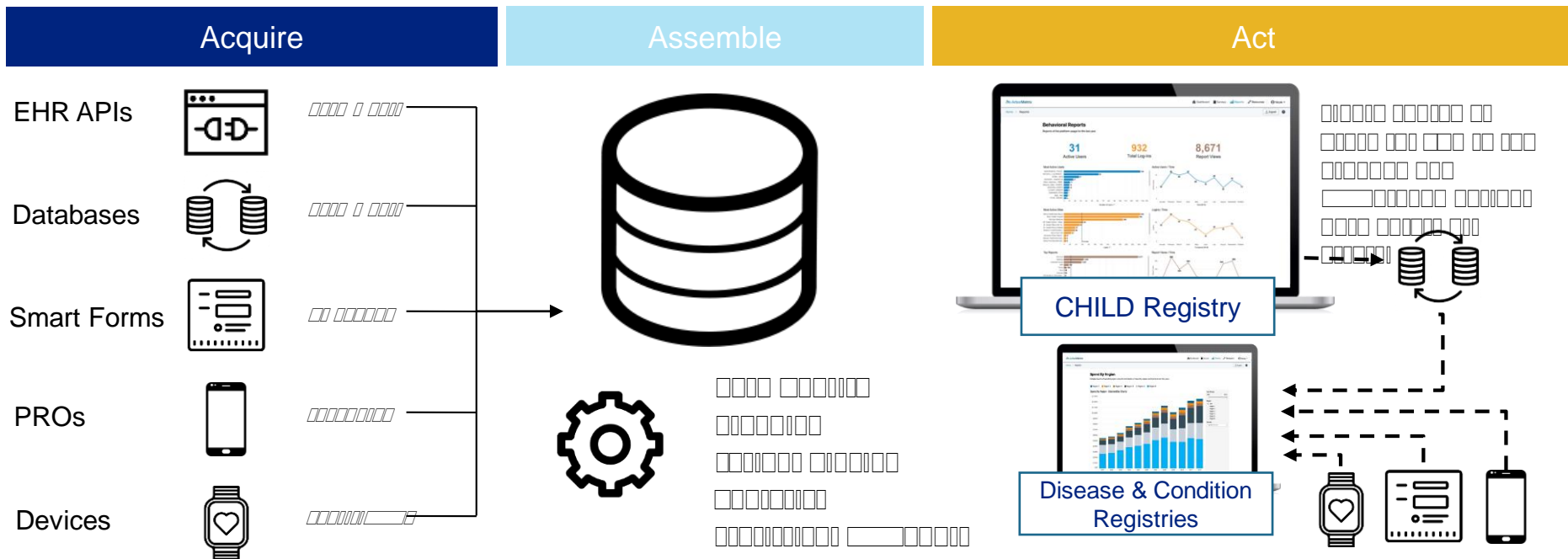
DATA PRIVACY AND SECURITY



Latest encryption
and security
protocols



CHILD Registry and Disease & Condition Registries



Registry Services & Strategic Partnership

American Academy of Pediatrics

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ADDRESSING EQUITY

- Improving Data collection
 - Dataset USCDI V2.0 data includes data elements around race, ethnicity and Social Determinants of Health (SDoH)
- Equity Dashboard
 - Measures segmented by race, ethnicity, gender, language, sexual orientation



Measure Performance (sample measures)

Preventive Care

[See Details](#)

Childhood Immunization Status



Well-Child Visit Within first 30 Months of Life



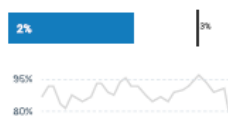
Well-Care Visit Child and Adolescent (3-21)



Developmental Screening (0-3)



Depression Screening (age 12-17)



Select Facility

All

Select Clinician

All

Date

2018 2020

Demographics

Patient Age Group

All

Sex

All

Gender

All

Race

All

Ethnicity

All

Insurance Coverage

All

Chronic Conditions - Behavioral Health

[See Details](#)

Child and Adolescent MDD: Suicide Risk Assessment



Follow-up Care for Children Prescribed ADD Medication



Chronic Conditions - Asthma

[See Details](#)

Asthma Rate



Clinical Filters

Select Diagnosis Category

Chronic Conditions

Behavioral

Acute

Diagnosis

All

Medication

All

Treatment History

All



Improving Healthcare Equity

Demographic Data Exploration All

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Demographics

Select a Measure

All



Your Site

All Registry Participants

Filters

Select Site

All

Select Facility

All

Select Clinician

All

Date



Clinical Filters

Select Diagnosis Category

Chronic Conditions

Behavioral

Acute

Diagnosis

All

Medication

All

Treatment History

All

Select Diagnosis Category

All

Behavioral

Acute

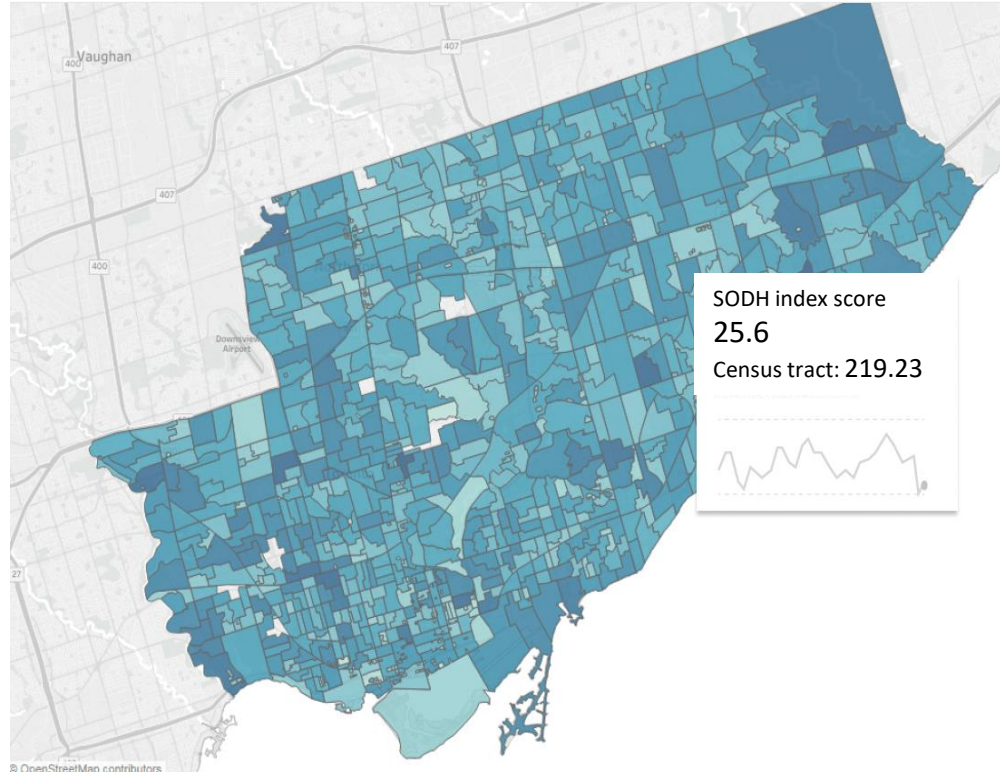
Chronic

f Pediatrics
ALL CHILDREN®



Integrating Social Drivers of Health

- Integrating available data sets like:
 - CDC PLACES local data
 - American Community survey
- Ability to overlay relevant information
 - Food deserts
 - Schools

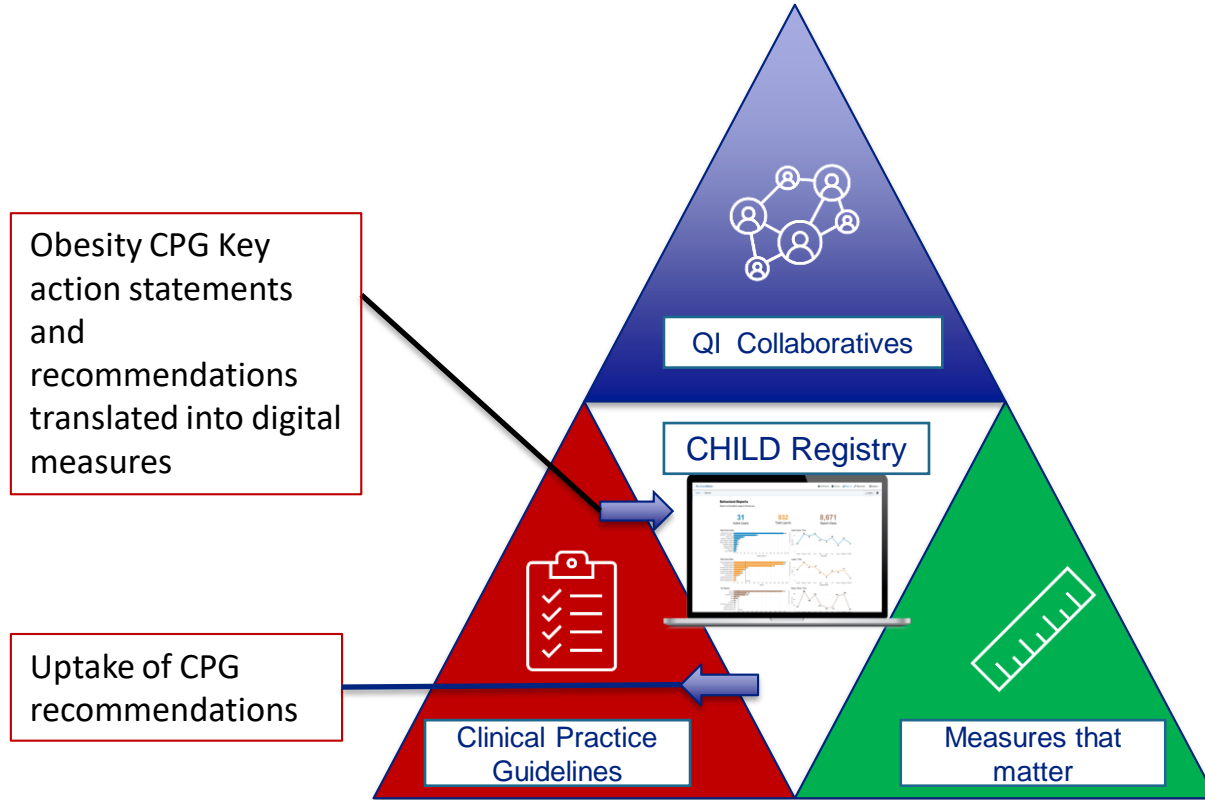


CONDITION SPECIFIC MODULES

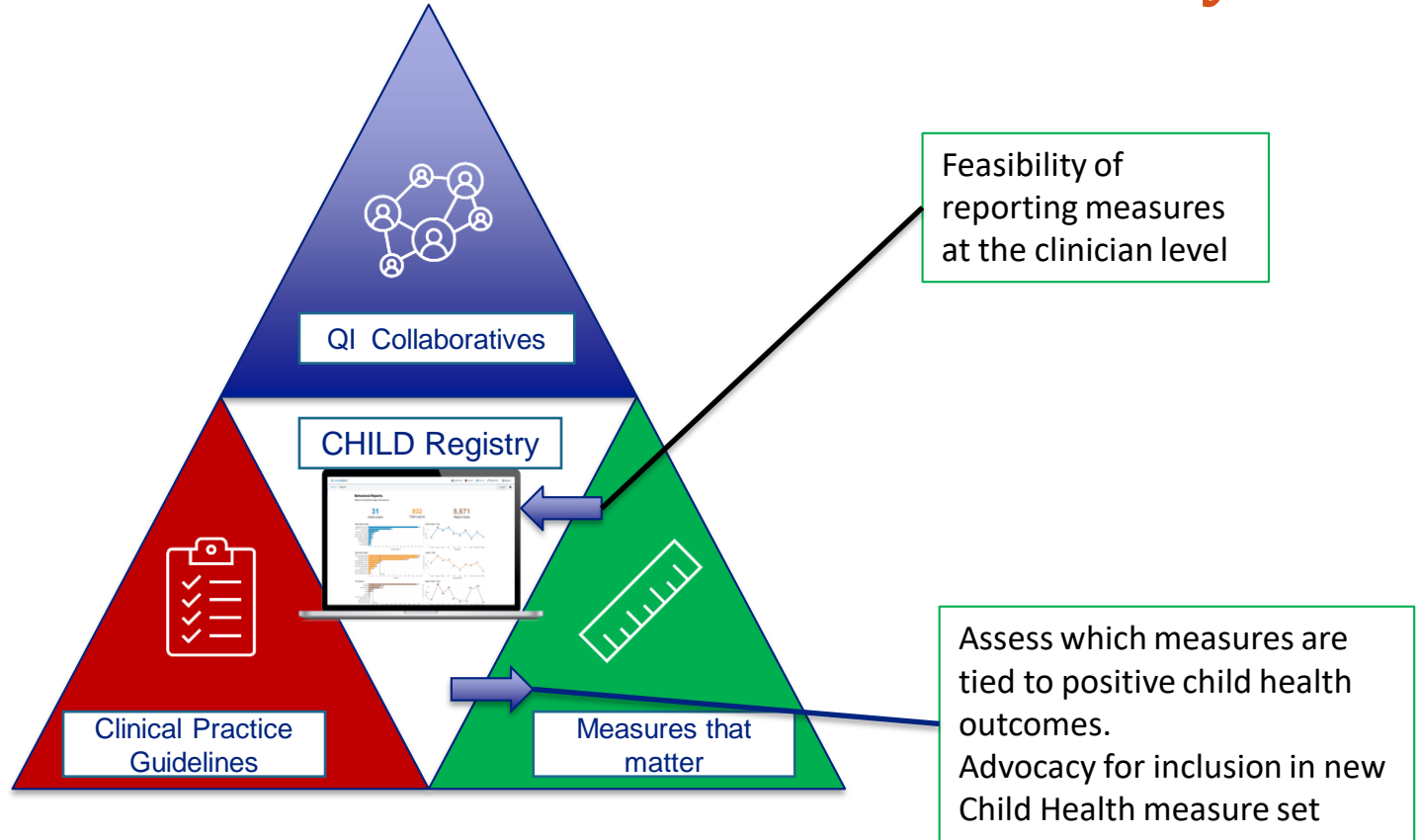
- Proof of concept : Childhood Obesity
- Clinical Practice Guideline (CPG) anticipated publication in 2022
- Computable CPG recommendations to be tracked as measures by the CHLD registry .



Condition Modules: Childhood Obesity



Condition Modules: Childhood Obesity

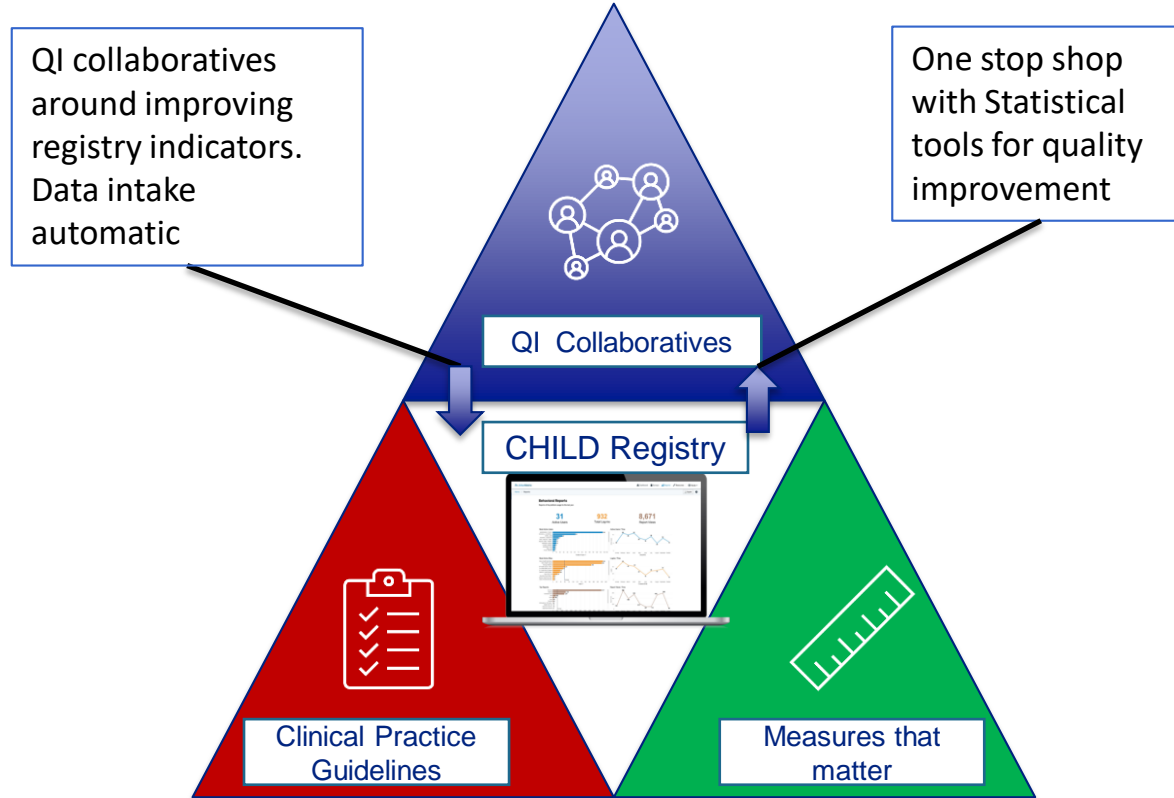


CHILDHOOD OBESITY MODULE

- Launch Quality Improvement initiatives to improve performance on recommendations of the obesity CPG



Condition Modules: Childhood Obesity



List of patients for closing gaps in care

Patient Drill Down

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Drill Down

Select a Measure

Screening Rate

See Inverse

Yes

First Name	Last Name	DOB	Practices	Clinician	Measure Name	Measure Value
John	Smith	10/29/1985	Practice A	Dr. Shahib	Obesity	Yes
Leslie	Knobe	07/27/2003	Practice A	Dr. Shahib	Obesity	No
Andy	Dwyer	11/07/1986	Practice B	Dr. Shahib	Obesity	No
Ben	Wyatt	01/15/1992	Practice B	Dr. Shahib	Obesity	No
Ann	Perkins	08/15/1997	Practice B	Dr. Shahib	Obesity	Yes
Tom	Haverford	01/28/2007	Practice A	Dr. Shahib	Obesity	No
Jerry	Gergich	06/21/2009	Practice A	Dr. Godoshian	Obesity	No
Donna	Meagle	05/30/1984	Practice A	Dr. Godoshian	Obesity	No
Chris	Traeger	05/27/1995	Practice J	Dr. Godoshian	Obesity	No
Perd	Hapley	08/21/1995	Practice J	Dr. Godoshian	Obesity	Yes

Filters

Select Site

All

Select Facility

All

Select Clinician

All



Trending Interval

Quarterly

Demographics

Patient Age Group

(All)

Sex

(All)

Gender

(All)

Race

(All)

Ethnicity

(All)

Insurance Coverage

(All)



Year 1 overview

Planning & Design

Strategic planning



- Develop of strategic plan based on vision and goals from stakeholders

Pilot design



- Develop project plan and onboarding assets
- Create evaluation tools

Registry design



- [Placeholder text]
- [Placeholder text]
- [Placeholder text]

Build & Pilot

Implementation



- Connect to EHRs
- Develop measure and reports

Pilot



- Assess data value
- Track engagement
- Respond to feedback

Launch & Grow

Launch



- Finalize registry and marketing assets
- Continue to add new sites

Grow



- Expand the registry measures and reporting
- Identify new clinical opportunities
- Prepare registry sustainability efforts



PILOT

- 3 organizations
 - Allied Physicians Group (NY)
 - Fairfax Pediatric Associates (VA)
 - Pediatrix (IL)
- Develop new modules/reports
 - COVID



DISCUSSION / QUESTIONS??

