

# Developing State-Level Rates for Children's Health Care Quality Measures

Technical Assistance Webinar  
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# Purpose of Webinar

- Provide guidance to states about developing a single state-level rate from multiple reporting units (such as program, payment system, health plan, or provider)
- Discuss how aggregated results should be reported in the CHIP Annual Reporting Template System (CARTS)

# Agenda

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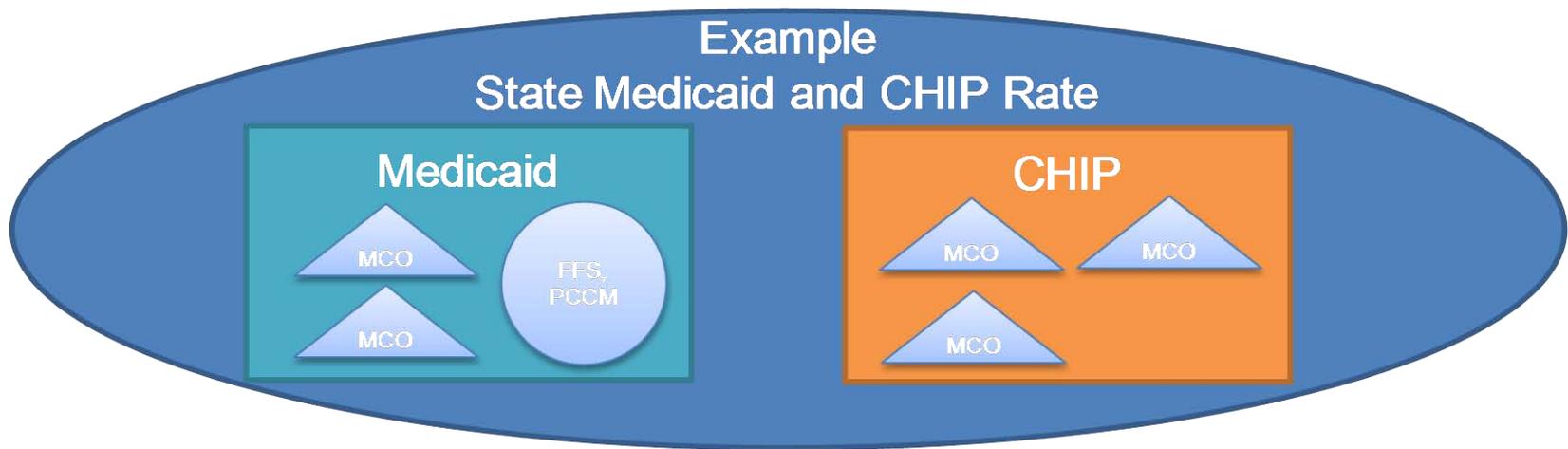
- Key Definitions and Concepts
- Using the Administrative Method
- Using the Hybrid Method
- Using Both Administrative and Hybrid Methods
- Guidance on Reporting

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# Key Definitions and Concepts

# Reporting Unit

- Data for the measures can be collected and reported by multiple entities
  - Each of these entities is a reporting unit
- Data might have to be combined across reporting units to develop a rate for the state as a whole



# Methods for Calculating Rates

- Administrative method
  - Calculates rate based on the entire eligible population
  - Requires identification of denominator and numerator using transactional data or other administrative databases, such as claims and encounter data
- Hybrid method
  - Calculates rate based on a systematic sample of the eligible population
  - Requires the use of both administrative data and medical records data to look for services required in the numerator

# Measure-Eligible Population

- Measure-eligible population refers to the population eligible for inclusion in the measure (that is, the denominator or sample frame)
- Eligible population for each measure can be found in the technical specifications for the measure
- Criteria for inclusion can be based on age, sex, length of enrollment, services received, or other factors

# Using the Administrative Method

# Combining Administrative Method Results

- With mutually exclusive reporting units that cover the entire eligible population, no weighting of results is needed
- To combine rates, use the following steps:
  - Sum the denominators
  - Sum the numerators
  - Divide the total numerator by the total denominator

# Administrative Method Example

Reporting Unit	Measure-Eligible Population	Denominator	Numerator	Rate
A	10,000	10,000	8,000	80%
B	25,000	25,000	15,000	60%
C	100,000	100,000	70,000	70%
D	200,000	200,000	148,000	74%
State-Level Total	335,000	335,000	241,000	72%

# Using the Hybrid Method

# Combining Hybrid Method Results

- When separate samples are drawn and individual rates are calculated by reporting unit, the state-level rate is the weighted average of rates for each of the reporting units
  - The rate from each reporting unit is weighted by the measure-eligible population for that reporting unit
- To combine rates, use the following steps:
  - Sum the measure-eligible population across reporting units to derive the state-level total measure-eligible population
  - Divide each reporting unit's measure-eligible population by the sum to get the weight for each reporting unit
  - Multiply the rate for each reporting unit by its corresponding weight to get the weighted rate
  - Sum the weighted rates across the reporting units to get the weighted state-level rate

# Hybrid Method Example

Reporting Unit	Measure-Eligible Population	Weight	Denominator (Sample Size)	Numerator	Rate	Weighted Rate
A	10,000	0.0299	411	329	80%	2.4%
B	25,000	0.0746	411	247	60%	4.5%
C	100,000	0.2985	411	288	70%	20.9%
D	200,000	0.5970	411	304	74%	44.2%
State-Level Total	335,000	1.0000	n.a.	n.a.	n.a.	72.0%

# Using Both Administrative and Hybrid Methods

# Combining Both Administrative and Hybrid Method Results

- States might have to combine rates developed using the administrative method for some reporting units and hybrid method for others
- The same approach is used to combine administrative and hybrid method results as that used to combine hybrid method results
  - Sum the measure-eligible population across reporting units to derive the state-level total measure-eligible population
  - Divide each reporting unit's measure-eligible population by the sum to get the weight for each reporting unit
  - Multiply the rate for each reporting unit by its corresponding weight to get the weighted rate
  - Sum the weighted rates across the reporting units to get the weighted state-level rate

# Administrative and Hybrid Methods Example

Reporting Unit	Measure-Eligible Population	Weight	Denominator (Measure-Eligible Population or Sample Size)	Numerator	Rate	Weighted Rate
A (Admin)	10,000	0.0299	10,000	8,000	80%	2.4%
B (Hybrid)	25,000	0.0746	411	247	60%	4.5%
C (Admin)	100,000	0.2985	100,000	70,000	70%	20.9%
D (Hybrid)	200,000	0.5970	411	304	74%	44.2%
State-Level Total	335,000	1.0000	n.a.	n.a.	n.a.	72.0%

# A State Perspective

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New Jersey discusses its past experience and future plans in developing state-level rates

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# Guidance on Reporting

# Reporting Aggregated Rates in CARTS

- Unweighted rates using administrative method
  - Report total denominator, total numerator, and rate in appropriate fields in CARTS
  - Document each reporting unit's denominator, numerator, and rate in "Additional Notes on Measure" field
- Weighted rates using hybrid method or combined hybrid and administrative methods
  - Report zero for numerator and denominator fields
  - Report state-level rate in rate field
  - Document each reporting unit's numerator, denominator, measure-eligible population, and rate in the "Additional Notes on Measure" field

# Other Reporting Considerations

- Results can vary depending on the data sources used
  - Rates calculated using the administrative method tend to be lower than those calculated using the hybrid method
  - These variations should be considered when interpreting results from a state-level rate developed using both administrative and hybrid methods

# Other Resources

- To access the full technical assistance brief on this topic, please go to

<http://medicaid.gov/Medicaid-CHIP-Program-Information/By-Topics/Quality-of-Care/Downloads/TA2-StateRates.pdf>

- For additional guidance on developing a state-level rate, please send a request through the chat function with your name and contact information
- For future technical assistance, please contact us through the TA mailbox at [CMSCHIPRAQualityTA@cms.hhs.gov](mailto:CMSCHIPRAQualityTA@cms.hhs.gov)

# Upcoming Webinars

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- November 13, 2012, 1:00 to 2:00 pm (Eastern Time):  
Guidance for Collecting and Reporting CAHPS Data
- December 6, 2012, 12:30 to 2:00 pm (Eastern Time):  
Guidance for Reporting FFY 2012 Initial Core Set Measures  
in CARTS

# Questions?

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Thank you for participating in today's webinar!