

Understanding Dental Claims:

Data Quality Considerations and a Use Case

NAHDO Conference 2020 August 18, 2020

Erica Plante, MS Ashley Wilder, MPH, PMP



Institute for Health Policy and Practice

> NEW **HAMPSHIRE** CHILDREN'S **HEALTH FOUNDATION**

About the Data

Commercial dental claims data (NH Comprehensive Health Information System); July 2017 to June 2019

Approximately 550,000 commercially covered lives

- Cigna (approximately 35,000)
- Delta Dental (approximately 17,000)
- ▶ Delta Dental Plan of NH (approximately 360,000)
- ► Harvard Pilgrim (approximately 24,000)
- Metropolitan Life (approximately 84,000)
- ► Guardian Life (approximately 29,000)

Medicaid Fee-for-service dental claims data; Jan. 2018 - Dec. 2019

► Approximately 114,000 Medicaid covered lives

Dental Data Considerations

- ▶ Dental claims data is reasonably stable with membership consistent and persistent but is not immune to quality issues
- ► Understanding dental service delivery (Ex: understanding the impact of benefit structures on cost and utilization)
 - ▶ Some plans include more services than others, thus increasing costs
- ► Provider and population focused (Ex: Oral health needs specific to children in different demographic groups; oral health services in public vs. private settings)
- ► Linking medical and dental claims (Ex: cost and utilization of oral health services across settings)
 - ► CDT codes (ADA) versus CPT codes (AMA)

Data Quality Assurance Process

- ▶ All checks are performed as part of the data submission process, at the payer level:
 - ► File checks deviations in file format, valid values, etc.
 - Population checks verification of values within an expected range, persistency, continuity, and interactions
 - Quarantine of claims without eligibility and plan groups with lower than expected ratio of claims to members
 - Cost checks review of PMPM, total costs and service line counts
 - ► More granular review (Ex. Type of service indicated a coding problem in which some CDT codes began with a "0" instead of a "D")
 - ▶ Finalize data selection and submit recommendations to NHCHIS or state

Use Case: Oral Health Report Suite - Project History

2017

- Quality checks of dental claims data
- Preliminary analysis of commercial and Medicaid FFS data

2018

- Prototype of online reporting tool
- Development of analytic plan with Oral Health Stakeholder Group

2019

► Release of Oral Health Report Suite

2020

- Enhancements to the Oral Health Report Suite
 - Additional years of data
 - New analysis/reports

Use Case: Oral Health Report Suite https://tinyurl.com/y5skbd3x



Use Case: Oral Health Report Suite https://tinyurl.com/y5skbd3x



Use Case: Oral Health Report Suite

https://tinyurl.com/y5skbd3x





Thank you!

Erica-Lyn.Plante@unh.edu Ashley.Wilder@unh.edu