

New Hampshire Department of HEALTH & HUMAN SERVICES



# Health Care Claims and Mental Health ED Utilization





## Purpose of the Review

The purpose of this initial review is to enhance the understanding of patients seeking emergency care for mental health conditions by describing:

- Emergency Department (ED) visits for mental health (MH) conditions in claims data and the connection to ED boarding/waiting episodes
- Data sources available to help clarifying our understanding of ED boarding/waiting in the state
- Limitations on availability of data





## Background on Analytic Methods

- Analyzed NH Medicaid and commercial<sup>\*</sup> claims in the 12 months prior to COVID-19 (April 2019 to March 2020) for population under 65
- Identified all ED visits for MH conditions in paid claims
- Focused on mental health (MH) conditions with higher rates of ED boarding

\*Commercial data is limited to fully insured plans and some self-insured plans thus does represent the entire NH commercial population.





## **Claims Data Limitations**

- Limited indication in the claims about whether the patient is "waiting" or "boarding" and for how long
  - Claims must be linked to other data sources to obtain ED boarding/waiting information.

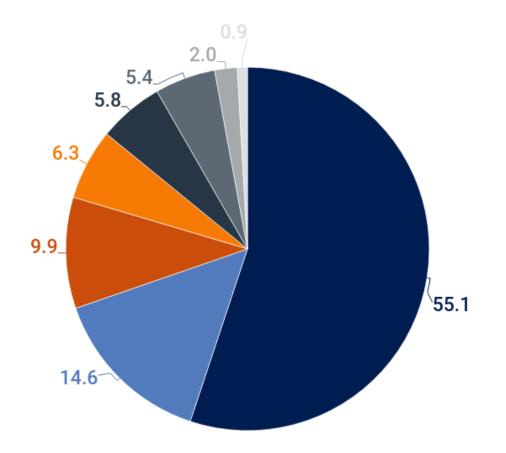
#### No information in claims about:

- Patient clinical severity
- Family situation
- Bed capacity

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## New Hampshire Insurance Coverage, 2019



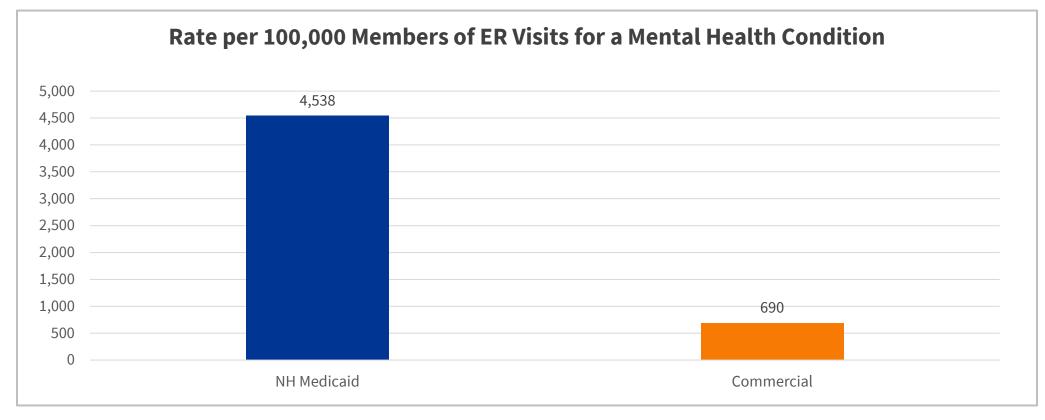
55.1% Employer Coverage Only 14.6% Medicare Coverage 9.9% Medicaid Coverage Only 6.3% Uninsured 5.8% Individual Coverage Only 5.4% Other Coverage Combinations 2.0% Dual Medicare & Medicaid Coverage 0.9% Tricare & VA Coverage

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## Rate of ED Visits for Mental Health Conditions

From April 2019 to March 2020, NH Medicaid members had **over 7,000** visits to the ED for a mental health condition.



#### Principal Diagnoses on Medicaid ED Claims With Higher Likelihood of ED Boarding/Waiting



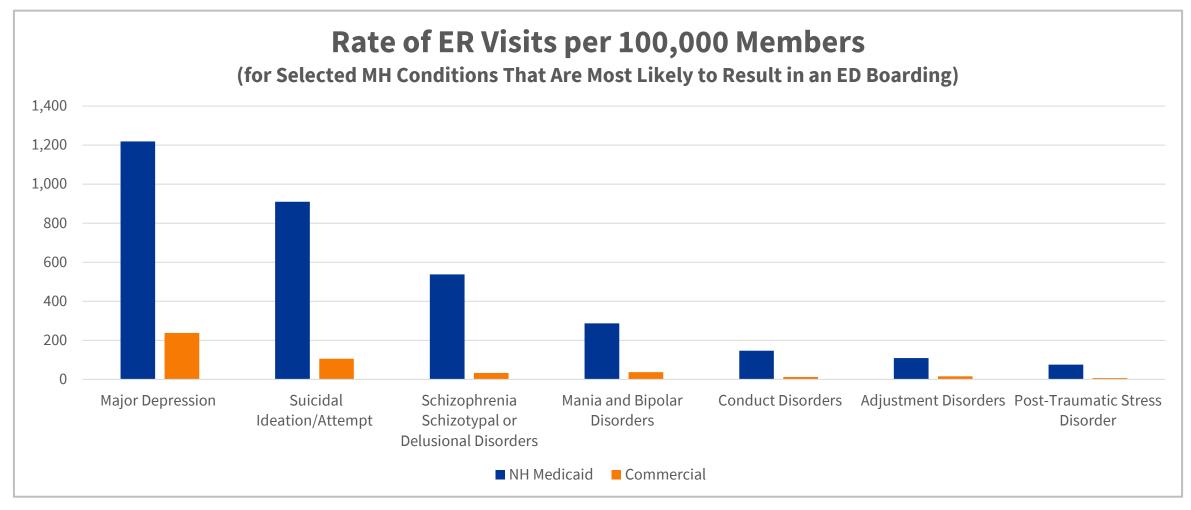
DHHS linked Medicaid data to ED boarding/waitlist episodes. **Overall 11% of paid ED MH visit claims** were linked to boarding/waitlist episodes.

Primary Diagnosis on Paid ED Visit Claims (ICD-10 Codes)	Percent of ED Visits for Condition with a Link to an ED Boarding/Waiting Episode			
Schizophrenia Schizotypal or Delusional Disorder (F20-F29)	26%			
Mania and Bipolar Disorder (F30, F31)	16%			
Major Depression (F32, F33)	10%			
Disruptive Mood Dysregulation Disorder (F34.81)	25%			
Unspecified Mood Disorders (F39)	9%			
Post-Traumatic Stress Disorder (F43.10 - F43.12)	16%			
Adjustment Disorders (F43.20 - F43.29)	6%			
Specific Personality Disorders (F60)	15%			
Conduct Disorders (F91)	18%			
Suicidal Ideation & Attempt (R45.851, T14.91X, T40.*X2)	13%			





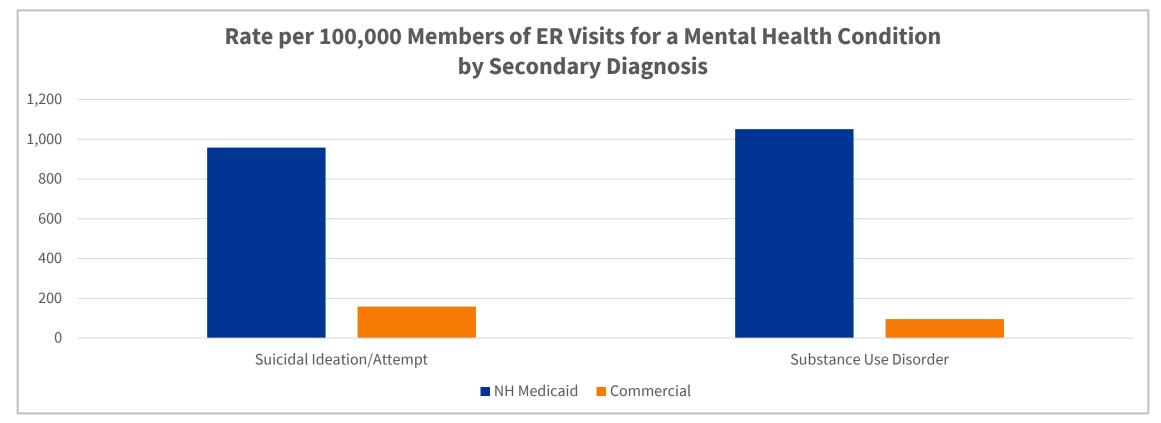
## Rate of ED Visits for Mental Health Conditions



# Mental Health in the ED with Secondary Diagnoses

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Out of 7,000 visits for NH Medicaid members who had a primary MH diagnosis, almost 1,500 had a secondary diagnosis of suicidal ideation/attempt and over 1,600 had a secondary diagnosis of substance use disorder.

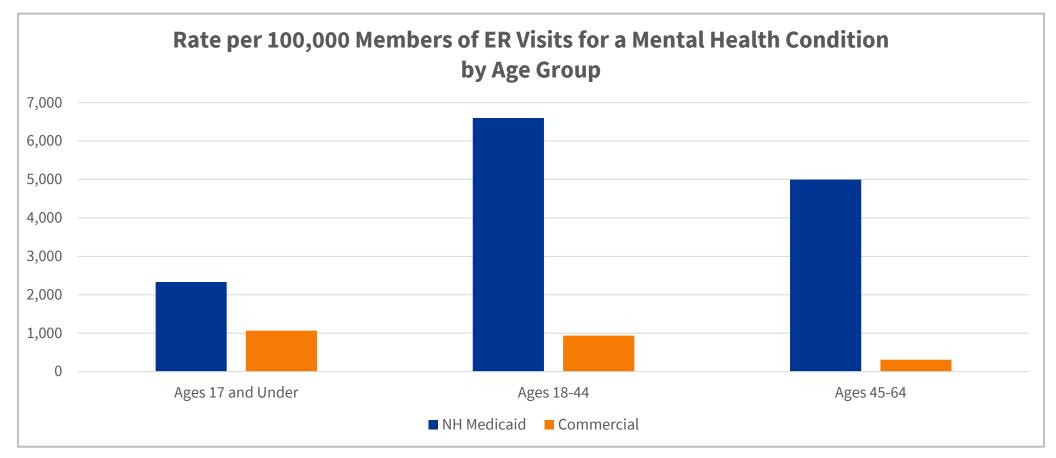






## ED Visits for MH Conditions by Age Group

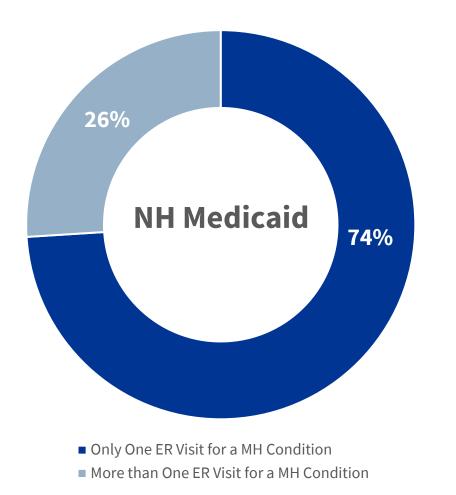
NH Medicaid members under 18 had 1,500 ER visits for a mental health condition. Members 18-44 had over 4,000 visits and members 45-64 had over 1,400 visits.

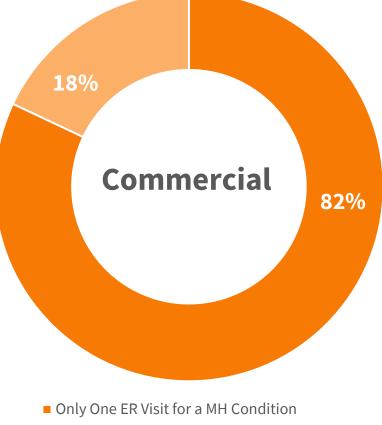






#### Percent of Members with MH ED Visits Who Had Multiple MH ED Visits





More than One ER Visit for a MH Condition





### Follow-Up Within 7 Days After Mental Health ED Visit HEDIS Quality Measure – CY2019

Percent with a follow-up visit with any practitioner with a mental health diagnosis on the claim. NH Medicaid is above the 90th percentile for children and 95<sup>th</sup> percentile for adults when compared to Medicaid plans nationally.

Age Group	Medicaid MCO	Commercial HMO
6 - 17 Years	75%	67%
18 - 64 Years	71%	57%
Total	73%	60%





## Possible Next Steps

- Future analysis will examine patterns of care prior to, during and following an ED visit. For example:
  - What are the patterns in treatment for at-risk ED patients?
  - What are the patterns in diagnosis for at-risk ED patients?
  - Look at patient engagement to determine gaps that the Access Point can fill.
  - How common are co-occurring conditions?

#### • For Medicaid, examine characteristics statistically. For example:

- Link to the ED boarding/waitlist and those without a link
- Stratify by Medicaid specific characteristics like disability or CMHC eligibility
- Medicare population





# **Q** & A

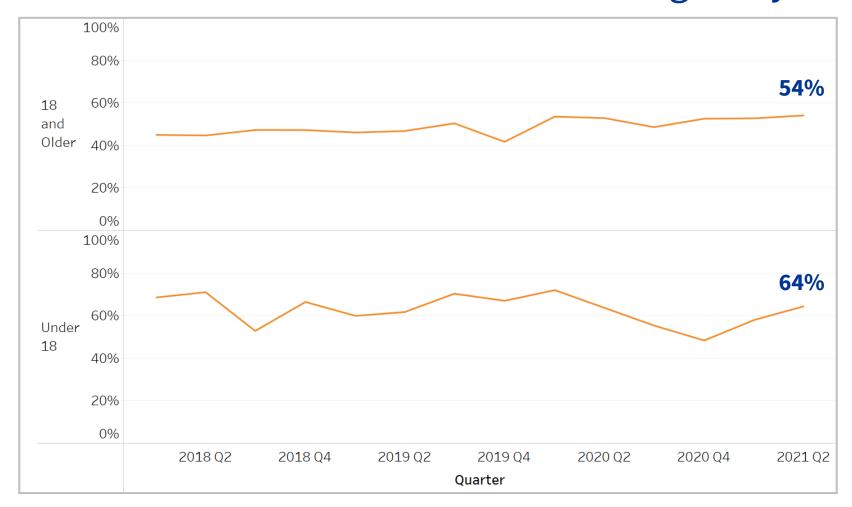




## Supplemental Data



#### Trend in Percent ED Boarding/Waiting Episodes That Can be Linked to Medicaid Eligibility







#### Supporting Data: Diagnoses More Likely to Result in ED Boarding/Waiting

Primary Diagnosis for ER Visit	Counts of ER	NH Medicaid Rate of ER Visits per 100,000 Members	of ER Visits per
Top 7 diagnoses more likely to result in an ED boarding/waiting*			
Major Depression	1,896	1,219	238
Suicidal Ideation/Attempt	1,415	910	106
Schizophrenia Schizotypal or Delusional Disorders	837	538	33
Mania and Bipolar Disorders	447	287	37
Conduct Disorders	230	147	13
Adjustment Disorders	170	109	16
Post-Traumatic Stress Disorder	119	76	7

Source: NH Comprehensive Healthcare Information System (NHCHIS) and NH Enterprise Business Intelligence (EBI) data systems, April 2019 – March 2020. Analysis by NH DHHS and the Institute for Health Policy and Practice at UNH, July 2021. \* Top 7 diagnosis had more than 100 ED visits in analytic period.



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#### Percent of ER Visits for Condition that Resulted in ER Boarding for Members



Primary Diagnosis on ED Visit Claim	Ages 17 and Under	Ages 18-44	Ages 45-64
Any MH Condition	17%	10%	10%
Schizophrenia schizotypal or Delusional Disorder	17%	26%	26%
Mania and Bipolar Disorder	21%	15%	18%
Major Depression	19%	8%	3%
Disruptive Mood Dysregulation Disorder	25%	25%	0%
Unspecified Mood Disorder	13%	9%	5%
Post-Traumatic Stress Disorder	31%	10%	5%
Adjustment Disorder	11%	3%	4%
Personality Disorder	0%	18%	8%
Conduct Disorder	18%	16%	0%
Suicidal Ideation	21%	11%	8%
Other Mental Health Conditions	7%	2%	2%
Any MH Condition with Suicidal Ideation as a Secondary Diagnosis	23%	9%	5%
Any MH Condition with SUD as a Secondary Diagnosis	16%	9%	5%
Any MH Condition with Injury as a Secondary Diagnosis	17%	12%	4%



#### Supporting Data: Rate of MH ED Visits by Primary Diagnosis Group

	Rate per 100,000 for NH Medicaid Members			Rate per 100,000 for Commercial Members		
Primary Diagnosis for ER Visit	Ages 17 & Under	Ages 18-44	Ages 45-64	Ages 17 & Under	Ages 18-44	Ages 45-64
Any MH Condition	2,333	6,600	4,996	1,067	938	309
Schizophrenia schizotypal or Delusional Disorder	9	896	944	9	54	21
Mania and Bipolar Disorder	22	495	431	11	70	14
Major Depression	670	1,816	1,153	416	311	102
Disruptive Mood Dysregulation Disorder	44	6	0	15	0	0
Unspecified Mood Disorder	23	104	66	6	12	5
Post-Traumatic Stress Disorder	61	95	73	6	13	3
Adjustment Disorder	112	112	97	32	17	10
Personality Disorder	2	109	87	6	6	0
Conduct Disorder	313	40	14	75	5	1
Suicidal Ideation	605	1,221	917	252	124	36
Other Mental Health Conditions	516	1,712	1,215	256	324	118
Any MH Condition with Suicidal Ideation a Secondary Diagnosis	505	1,449	910	287	220	52
Any MH Condition with SUD as a Secondary Diagnosis	86	1,955	1,250	45	165	45
Any MH Condition with Injury a Secondary Diagnosis	129	242	160	58	27	5