



Care & Throughput in Emergency Crisis and Acute Treatment Services for Children and Youth – Pandemic Impact

Agenda

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Throughput





"Throughput"

<u>**Definition</u>** – Productivity of a machine, procedure, process, or system over a unit period.</u>

<u>Throughput In Crisis Care</u> – Time from inquiry through admission, discharge, follow-up, and eventual stabilization. A smooth even flow without preventable delays.



Systems vs. Program Level Analyses

System Level Analysis

- Problems with access, efficiency, being stuck in care, are primarily influenced by the inter-relationships between various services and levels of care
- Problems are viewed as a **Systems Issue**

Program Level Analysis

- Problems with access, efficiency, being stuck in care, are influenced by the dysfunction in one or more levels of care
- Problems are viewed as a **Program Issue**





"Impact of COVID & Rising Acuity"



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2020 – Beginning of the "COVID-19" Pandemic

- Enrollment Changes suspending renewal timeframes
- Lifting of Prior Authorization (PA) for most levels of care (for dates of service after April 1, 2020), most notably acute inpatient and lower levels of care
 - Many reports for the CT BHP are built off authorization data; disruption in data impacts our ability to understand the totality of COVID's impact
- COVID impacts include fewer Authorizations, social distancing, restriction of non-emergency services, shift to telehealth

Youth Acuity is Increasing (again)

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- Multiple national and state organizations, including the Surgeon General of the U.S., have declared a state of emergency in children's mental health¹
- 62% of BH organizations have reported a significant increase in demand for service and waiting lists as a result²
- A survey in 2020 found that 1 in 4 young adults have seriously considered suicide in the 30 days prior²
- COVID has contributed to economic declines for many, and black children are more likely to experience financial distress³
- The state of CT is making youth mental health a priority in the new legislative session beginning this week⁴
- Isolation for youth and adolescents is contributing to a rise in social anxiety and depression, onset of new mental health problems, and exacerbation of existing ones⁵

² National Council for Mental Wellbeing - Behavioral Health Workforce is a National Crisis 2021

³ Fletcher, M. <u>https://theundefeated.com/features/new-poll-shows-how-the-pandemic-has-devastated-black-families/</u>

⁴ CT Mirror Legislators hope to make MH for children a top priority - <u>https://www.courant.com/politics/hc-pol-children-mental-health-connecticut-legislature-20211130-3l6nvrmu5fchhma7ra5zkmqtxm-story.html</u>

5 Centers for Disease Control and Prevention, "Mental Health, Substance Use, and Suicidal Ideation During the COVID-19 Pandemic — United States, June 24–30, 2020," 2020, August

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¹ Protecting Youth Mental Health – <u>https://www.hhs.gov/sites/default/files/surgeon-general-youth-mental-health-advisory.pdf</u>



Membership





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Membership – Enrollment is Increasing for Youth



³ Please note Youth Members with and without Duals appear to overlap on the line graph due to similar volumes

Youth membership without duals increased by 0.8% from 339,158 members in Q4 2020 to 341,904 members in Q1 2021

 By the end of Q2 2021, there were 344,688 youth members without duals, an additional 0.8% increase from the previous quarter



ED Utilization





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Youth Behavioral Health (BH) Emergency Department (ED) Visits and Unique Youth Visitors (Jan 1, 2020 through June 30, 2021)



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- 17,612 BH ED visits by 10,277 unique visitors
- CCMC & Yale have the largest volumes
- Roughly even split between males (51%) and females (49%)
- The black population is disproportionally lower in BH ED utilization
- Nearly 63% of all youth visits have a primary diagnosis of BH vs. 55% for the adult population
- Those youth 13 to 17 account for the majority (62% of visits)

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Youth Behavioral Health (BH) Emergency Department (ED) Visits and Unique Youth Visitors¹



BH ED Visits and Visitors and Rates of Hospital Admissions

4.885

3,162

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BH ED Visits and Unique Members by Provider

(• Unique Members | • BH ED Visits) Click on a bar to filter other graphs by provider

CONNECTICUT CHILDRENS MEDICAL CENTER	3,006
YALE NEW HAVEN HOSPITAL	2,011
THE WILLIAM BACKUS HOSPITAL	644 1,047
BRIDGEPORT HOSPITAL INC	753 952
LAWRENCE AND MEMORIAL HOSPITAL	457 704
THE HOSPITAL OF CENTRAL CONNECTICUT	473 674
ST MARYS HOSPITAL	446 632
DANBURY HOSPITAL	388 🗾 579
THE CHARLOTTE HUNGERFORDHOSPITAL	336 🗾 573
STAMFORD HOSPITAL	335 🔳 481
DAY KIMBALL HOSPITAL	292 📕 472
SVMC HOLDINGS, INC	317 🔲 434
WINDHAM COMM MEM HOSPITAL	252 425
PROSPECT WATERBURY INC	261 🔲 358
MIDSTATE MEDICAL CENTER	256 🔲 331
MIDDLESEX HOSPITAL	201 🔲 311
NORWALK HOSPITAL	188 🔲 280
BRISTOL HOSPITAL	198 🔲 263
PROSPECT MANCHESTER HOSPITAL INC	176 223
ST FRANCIS HOSPITAL MEDICAL CENTER	145 210
GRIFFIN HOSPITAL	111 156
PROSPECT ROCKVILLE HOSPITAL INC	86 115
GREENWICH HOSPITAL	64 84
HARTFORD HOSPITAL	62 70
NEW MILFORD HOSPITAL	56 68
JOHNSON MEMORIAL HOSPITAL	50 65
STATE OF CONNECTICUT - JD	43 46
SHARON HOSPITAL	12 12

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 CCMC and Yale account for 45.7 % of all youth BH ED visits and 48.8% of all BH ED visitors

- Rates of admissions to inpatient vary from 47.6% to 0% based on volume, whether the hospital has a pediatric unit, and other factors
- Overall rate of IP from ED admission is down from 17.9% in Q1 2018 to 16.1% through June of 2021

Percent of All Inpatient Admissions 0-1 Days Post BH ED Visit by Provider Click on a bar to filter other graphs by provider. Hover to see Inpatient type breakout





ED Stuck





ED Stuck 2019 to Q4 2021 – Volume and Discharge Disposition

Quarterly ED Stuck Volume

Not unique members; Excluding CARES

• Total ED Stuck | • Recommended IPF | • Recommended PRTF | • Recommended SFIT | • Recommended Other LOC



ED stuck volume was relatively stable through 2019 and 2020 but began trending up in 2021 reaching a quarterly high of 768 episodes involving 664 unique individuals during Q4, 2021

Quarterly ED Stuck Discharge Disposition

Not unique members; Excluding CARES • Admitted to IPF | • Admitted to PRTF | • Admitted to SFIT | • Discharged to Other LOC



 Since Q1, 2020, the most common disposition for ED stuck was an Inpatient Psychiatric Admission except for Q4 2021 where other LOC was the most common

Emergency Department (ED) Stuck Average Length of Stay (ALOS) - 2019 through 2021 ALOS Q3, 2021



- In addition to an increase in volume, beginning in Q3 of 2020 and extending through 2021, the average number of days stuck has been trending up as well, from a low of 2.1 days to a high of 4.9 days in the Q3 of 2021 (note - Q4 2021 data may not be reliable due to lags in reporting)
- In Q3, 2021 over 800 episodes had an ALOS of 4 or more days

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IP Utilization





Youth Inpatient Psychiatric Hospital Per Member Per Month (PMPM)

- Authorization for inpatient services was suspended on April 1, 2020 and reinstated on May 21, 2021
- Beacon is in the process of shifting all of our utilization reporting from authorization to claims based, however, we had developed a claims based PMPM dashboard several years ago which does provide some insight
- Until additional reports are updated, we are using PMPM to provide an estimate of inpatient utilization





Inpatient Discharge Delay





Discharge Delay (DD) – Definition and History

- When a child is ready to leave a psychiatric hospital, but a needed service is not immediately available, the child's discharge is delayed
- DD was an initial focus of the CTBHP and between 2008 and 2019, BEACON, DCF, DSS, and Providers worked to reduce DD by 72%
- Over the last 18 months, Discharge Delay has remained relatively stable as other indicators show changes that can negatively impact throughput

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Discharge Delay



- The number of discharge delay cases has remained relatively stable over the six quarters with a high of 31 cases in Q3 2020 and a low of 22 cases in Q2 2021
- Prospect Manchester and SVMC Holdings are excluded as they were not participating in PA during this time (1/1/2020 to 5/31/2021)

Discharge Delay – Percent Days Delayed, and Delay Reason





• The percent of delay days reached a high of 12.01% in Q2 2020, while seeing a dip to 5.54% in Q3 2020

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- For CY 2020 and the first half of 2021, most Youth inpatient members on discharge delay were awaiting a State Hospital placement
- This is consistent with CY 2019 when awaiting State Hospital placement was also the most likely reason for discharge delay







Connecticut Department of Children and Families



Solnit South







Psychiatric Residential Treatment Facilities (PRTF)

- A PRTF is an intermediate level of care for youth between acute inpatient psychiatric hospital care and residential psychiatric treatment programs.
- PRTF is often utilized as a step-down from acute inpatient care or as an alternative to inpatient care for those youth that may be effectively served in a staff secure, vs. locked program.
- A PRTF is distinguishable from a residential treatment center (RTC) in the expected or planned length of stay (shorter than RTC) level of psychiatric acuity typically served (higher than RTC), and level of staffing (typically higher than an RTC).
- In Connecticut, there are 4 PRTF Programs in operation at present.
 - 1 state operated PRTF for girls ages 13-17 at Solnit South
 - 1 state operated PRTF for boys ages 13-17 at Solnit North
 - 1 privately operated for boys and girls ages 7-16 at Children's Center of Hamden
 - 1 privately operated for boys and girls ages 6-12 at the Village for Children and Families

Psychiatric Residential Treatment Facilities (PRTF)



- Overall discharge volume increased 20.7% among all four locations, from 150 discharges in 2019 to 181 discharges in 2020.
- PRTF discharge volume decreased 28.0% since the end of 2020, from 50 discharges in Q4 2020 to 36 discharges in Q2 2021, mostly as a result of COVID-19 transmission concerns and precautions.
- Overall ALOS decreased by 14.3% (24.5 days) since 2018, ending 2020 at 146.9 days. ALOS was stable in the first half of 2021, with 146.5 days in Q1 2021 and 139.8 days in Q2 2021.



Summary



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COVID 19 has contributed to a dramatic increase in youth acuity and has also destabilized the service system

BH ED visits and ED stuck

were trending down early in the pandemic but began to rise during early 2021 and have been spiking in recent moments.



Lifting of PA has obscured our line of sight into **IPH utilization**, but estimates based on PMPM show rising utilization and demand despite only slight increases in capacity

> THROUGHPUT has slowed particularly for crisis services

Inpatient DD had been stable through the first half of 21 and so far system
adjustments have helped to prevent an increase to-date

A longer term trend in decreasing LOS for **PRTF** despite some declines in discharges appears to have stabilized throughput for PRTF

Increase in Youth Membership is also further challenging the system

Update - Recent Activities to Address Throughput

Formation of three workgroups and actions taken:

- Inpatient psych. bed expansion (17 new beds in the system)
- Mobile crisis enhancement (24/7, geo-tracking, real-time appointment scheduling)
- Expand the use of Mobile Crisis to triage youth to serve as an alternative to the EDs
- Intensive Transition Care Management services to improve throughput

- Exploring Intermediate levels of care, including enhanced care clinics and PRTF models
- BH Crisis Center (formerly BHUC) and sub-acute crisis stabilization work underway
- Expedite implementation of one or more BH Urgent Care (Crisis) Center programs and collect data
- Developing an Alternative Payment Model (APM) for outpatient services through a multi-state agency workgroup.

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Discussion









Thank you!