

NORTH CAROLINA STATEWIDE TELEPSYCHIATRY PROGRAM

# **Quarterly Progress Update**

Sy Atezaz Saeed, MD, MS, FACPsych,

*Executive Director* North Carolina Statewide Telepsychiatry Program (NC-STeP)

Professor and Chair Emeritus Department of Psychiatry and Behavioral Medicine Brody School of Medicine - East Carolina University





NC-STeP Advisory Council Meeting Wednesday, December 14, 2022 10:30 am – 12:00 pm Virtual Meeting via Zoom Video Conference

#### Agenda

- 10:30- 10:40 a.m. Welcome and Introductions
- 10:40- 10:45 a.m. Review and Approval of September 21, 2022 Minutes
- 10:45- 11:45 a.m. NC-STeP FY23-Q1 (Jul-Sep) Performance Data
- 11:45- 11:50 a.m. Old Business
- 11:50- 11:55 a.m. New Business
- 11:55- 12:00 p.m. Announcements
- 12:00 p.m. Adjourn

## zoom

Join Zoom Meeting https://us06web.zoom.us/j/85603673506?p wd=ays3Y0xIR1VsZFh3ZIZKT0NGcVhFQT09

Meeting ID: 856 0367 3506 Passcode: 558639



## **Advisory Council**

1. Teresa Bowleg, MSN, RN

Chief Nursing Officer, Erlanger Murphy Medical Center

2. Scott W. Brown, MD, FACEP

NCCEP Board of Directors/ Harnett Heath System

3. John Bigger

Corporate Director of Behavioral Health, Cape Fear Velley Health

- 4. Joy Futrell, MBA Chief Executive Officer, Trillium Health Resources
- 5. Robin Huffman Executive Director, North Carolina Psychiatric Association
- 6. Keith McCoy, MD

Deputy CMO for Behavioral Health and I/DD Community Systems, NC-DHHS

- 7. Shakeerah McCoy, MSN,RN,PCCN Director. Rural Health Innovation
- 8. Amy Roberts, MHA

Executive Director Telehealth – Mission Health

- 9. Sy Atezaz Saeed, MD, MS Executive Director, NC-STeP (*Chair*)
- 10. Glenn M. Simpson, MBA, MA, NCC

Behavioral Health Service Line Administrator, ECU Health

11. Ashley Stoop, MPH

Health Director, Albemarle Regional Health Services

12. Marvin Swartz, MD

Professor & Head Division of Social & Community Psychiatry, Duke

#### Ex Officio Members

- 1. Ryan Baker, NC-STeP/ECU
- 2. Kalyan Muppavarapu, MD, MPH, NC-STeP
- 3. Renee Clark, MSW, DHHS-ORH
- 4. Sheila Davies, Ph.D., NC-STeP/MedAccess Partners
- 5. Phil Donahue, NC-STeP/MedAccess Partners
- 6. Art Eccleston, Ph.D., DHHS, Division of Mental Health
- 7. Nick Galvez, DHHS-ORH
- 8. Katherine Jones, Ph.D., NC-STeP/ECU
- 9. Maggie Sauer, DHHS-ORH

# NC-STeP Quality Management and Outcomes Monitoring Processes: July – September 2022

- 39 hospitals in the network, 38 hospitals were live
- 29 hospitals reporting Telepsychiatry patients in their ED
  - not all live hospitals had telepsychiatry patients
- Total number of assessments for this quarter = 1,432
- Total number of encounters for this quarter = 1,283
- Patient assessments billed for Model 1 hospitals = 1,021



# NC-STeP Quality Management and Outcomes Monitoring Processes: July - September 2022

- The Median Length of Stay was 39.5 hours
- The Average Length of Stay was 72.1 hours
  - 72.6 hours for those discharged to home
  - 62.6 hours for those transferred to another facility
- Average Consult Elapsed Time (in Queue to Exam Complete) for Model 1 hospitals was 6 hours and 07 minutes.



# NC-STeP Quality Management and Outcomes Monitoring Processes: July – September 2022

- 890 ED patients who received telepsychiatry services had an IVC in place during their ED stay.
  - 362 (40.7%) of those patients did not have an IVC in place when discharged.
- Of the ED patients who received telepsychiatry services:
  - 48.0% were discharged to home
  - 45.6% were discharged to another facility



# NC-STeP Quality Management and Outcomes Monitoring Processes: July - September

- 23 Community based sites were live as of 09/30/2022.
- There were 1,363 total behavioral health visits.
  - 151 visits with a Psychiatrist.
  - 1,212 visits with a behavioral health manager.
  - 4 visits with a Maternal and Fetal Medicine
     Specialist.



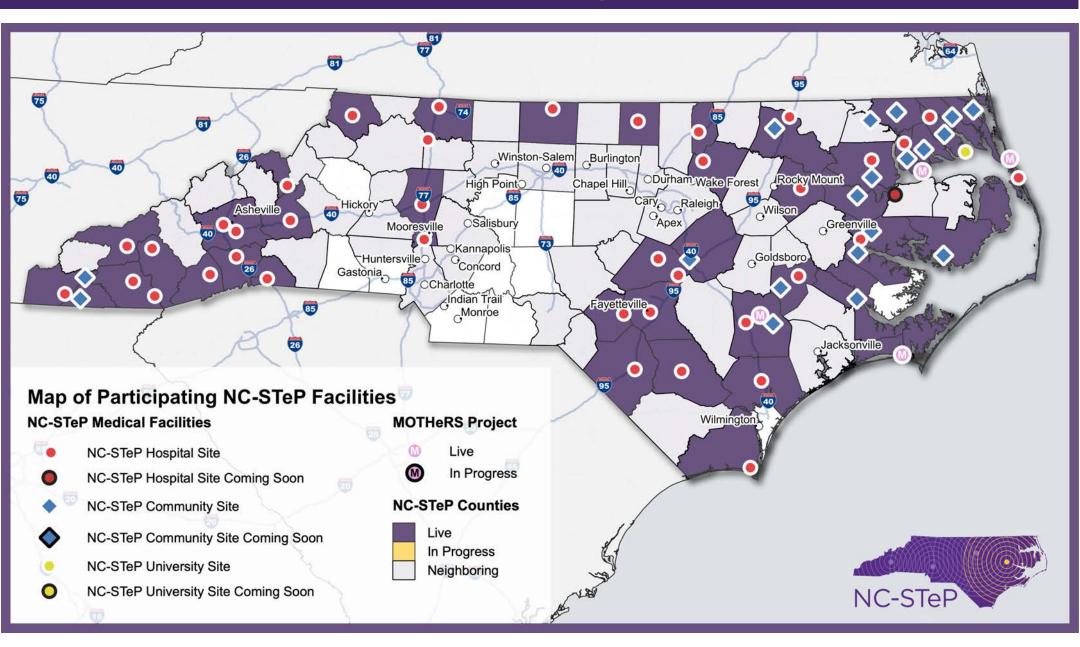
NC-STeP	Since project inception in November 2013	Quarter Jan- Mar 2022	Quarter Apr- Jun 2022	Quarter Jul- Sep 2022	Quarter Oct- Dec 2022
Total Patient Encounters	42,927	1,235	1,321	1,283	
Model 1 Hospital Patient Encounters	26,262	797	869	872	
Model 2 Hospital Patient Encounters	16,665	438	452	411	
<b>Total Number of Assessments</b> (Billed Assessments for Model 1 Hospitals + Number of Patient Encounters for Model 2 Hospitals)	55,812	1,526	1,559	1,432	

NC-STeP	Since project inception in November 2013	During Calendar Year 2014	During Calendar Year 2015	During Calendar Year 2016	During Calendar Year 2017	During Calendar Year 2018	During Calendar Year 2019	During Calendar Year 2020	During Calendar Year 2021
Total Patient Encounters	42,927	5,144	7,128	1,896	3,971	6,104	4,835	4,305	4,763
Model 1 Hospital Patient Encounters	26,262	4,578	5,849	706	2,044	2,654	1,902	2,152	2,897
Model 2 Hospital Patient Encounters	16,665	566	1,279	1,190	1,927	3,450	2,933	2,153	1,866
Total Number of Assessments (Billed Assessments for Model 1 Hospitals + Number of Patient Encounters for Model 2 Hospitals)	55,812	8,130	13,573	1,942	4,348	6,680	5,287	4,820	5,641

## **NC-STeP Benchmarks**

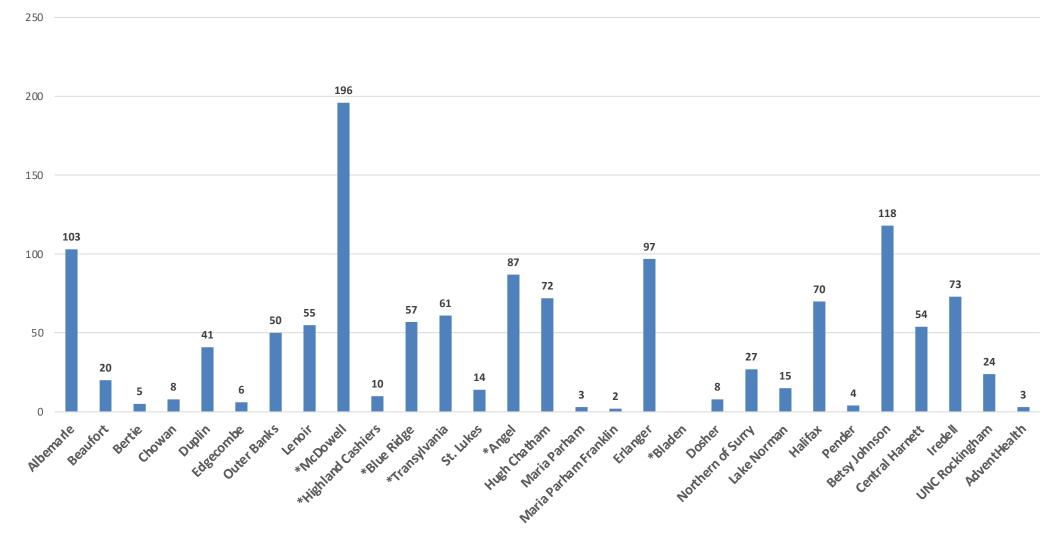
	Goals	Values Reached		
NC-STeP	Cumulative Target to be reached by (06/30/2023)	Value Reached as of most recent previous quarter (06/31/2022)	Value Reached as of this reporting quarter (06/30/2022)	Year-to-Date Total with % of the Yearly Target (09/30/2022)
Number of IVCs	TBD	906	890	890
Number of IVCs Overturned	TBD	390	362	362
<b>Total Number of Assessments</b> (Billed assessments for Model 1 hospitals + Number of patient encounters for Model 2 hospitals.)	TBD	1,559	1,432	1,432

## NC-STeP Status as of September 30, 2022



#### Number of NC-STeP Patients by Hospital

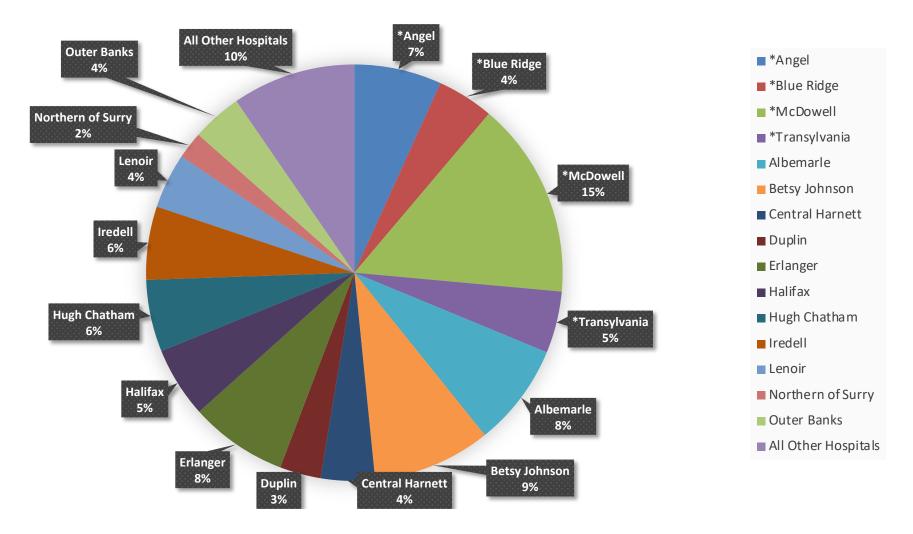
July - September 2022





#### Percent of Use by Hospital Jul - Sep 2022

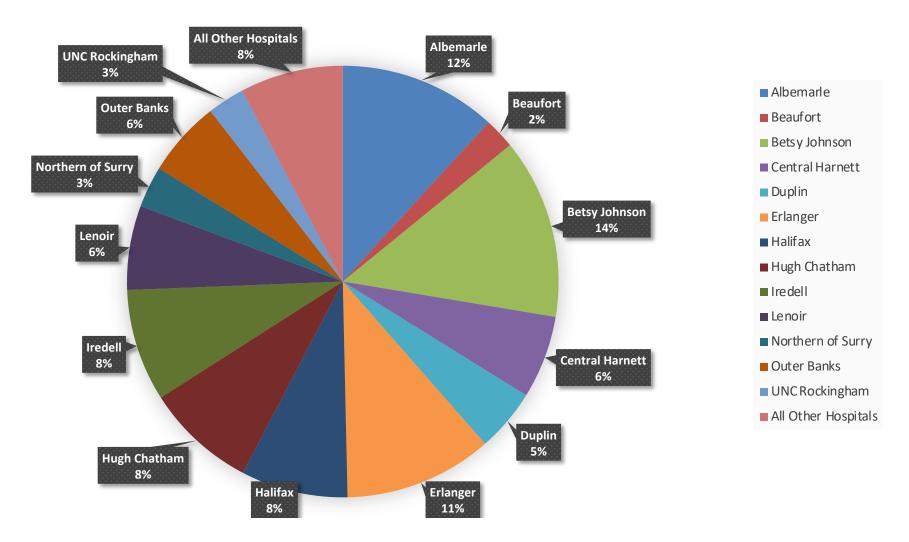
(based on number of encounters)





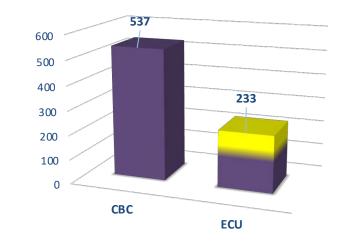
#### Percent of Use for Model 1 Hospitals Jul - Sep 2022

(based on number of encounters)

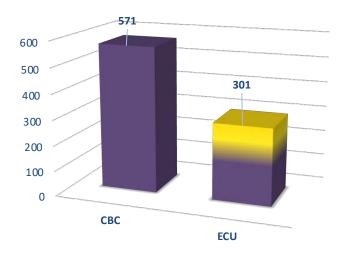




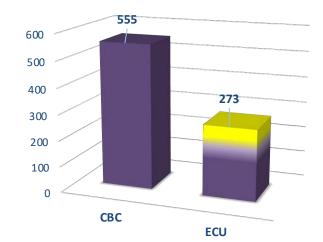
### Number of Patients by Provider (Model 1)



#### Jul-Sep 2022



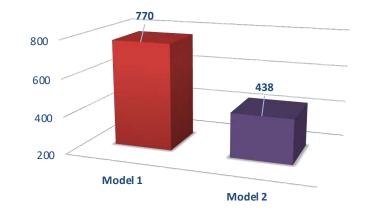
#### Apr-Jun 2022



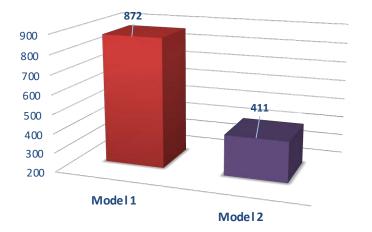


#### **Jan-Mar 2022**

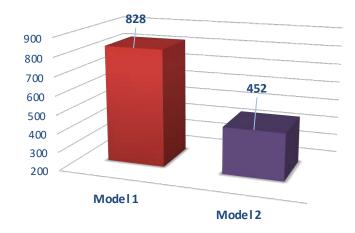
## Number of Patients by Model



Jul-Sep 2022

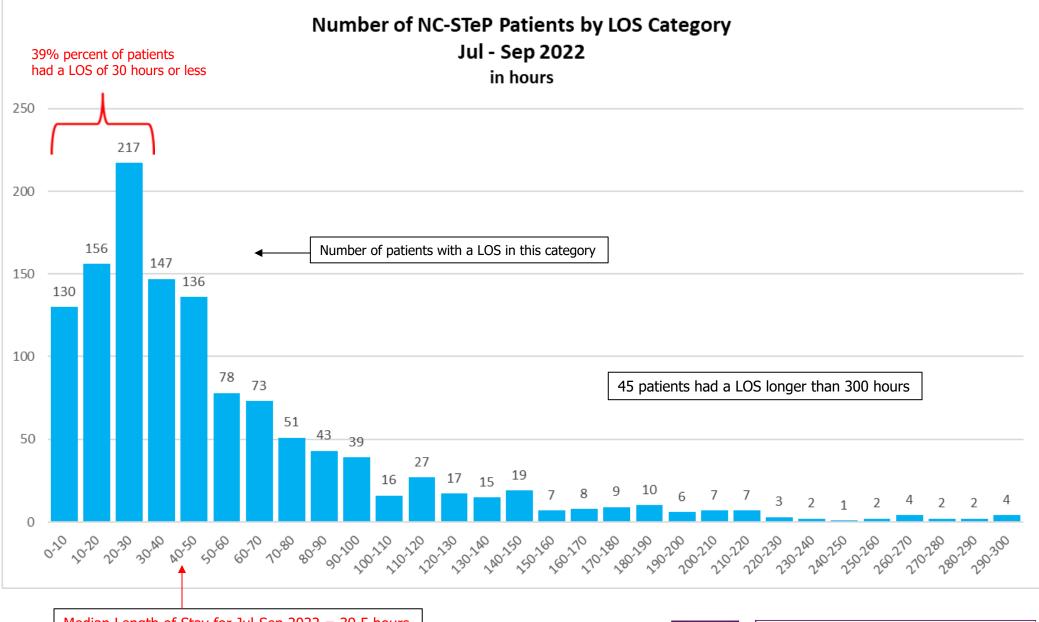






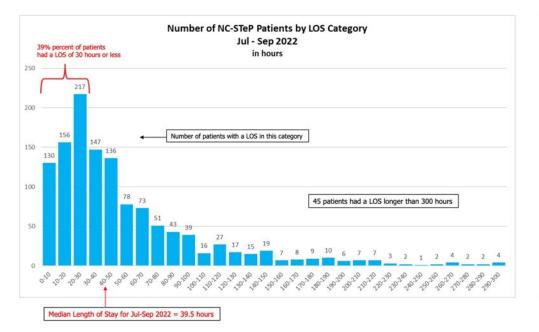


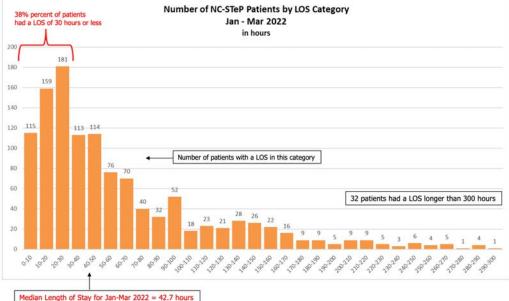
#### Jan-Mar 2022

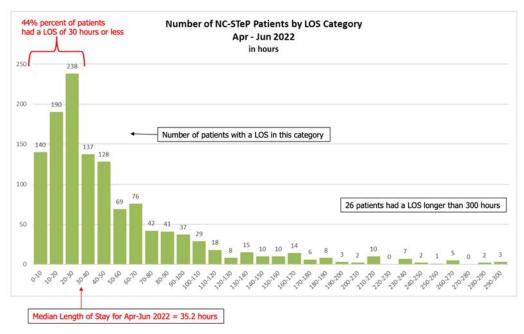


Median Length of Stay for Jul-Sep 2022 = 39.5 hours





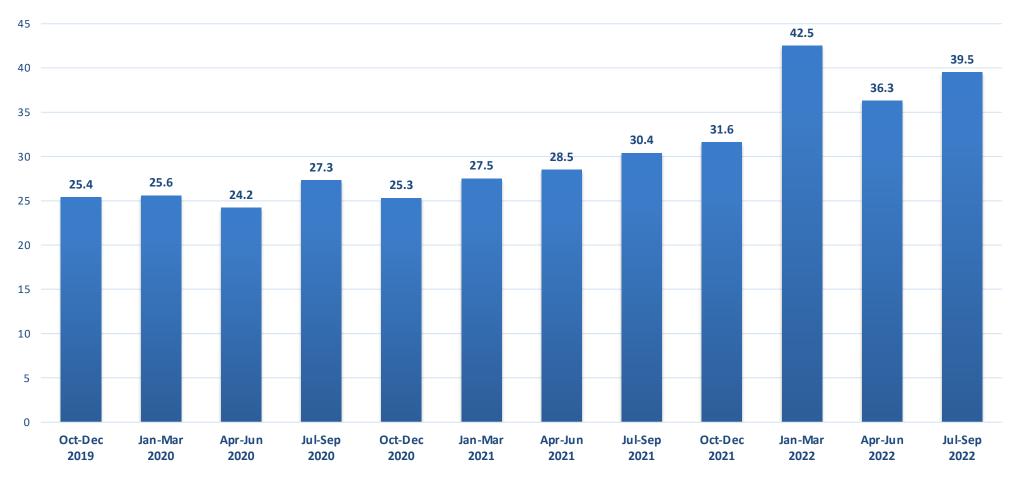






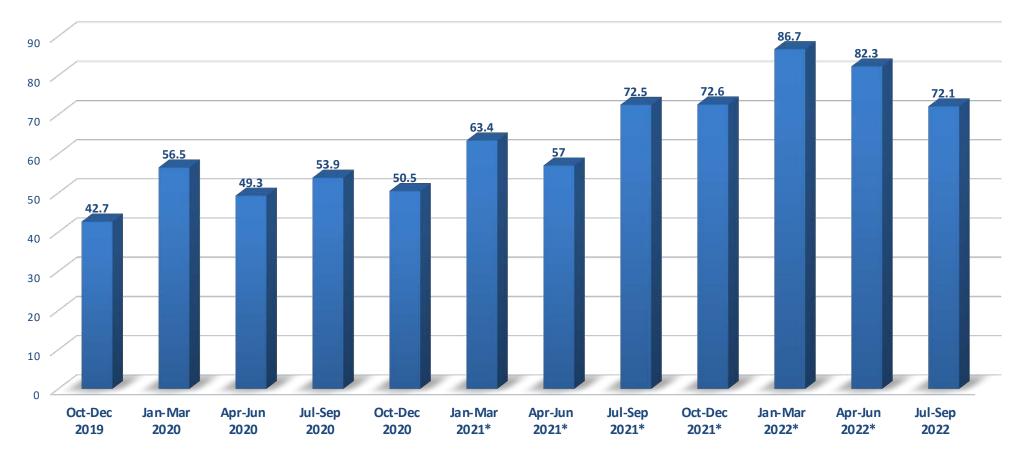
### Median Length of Stay by Quarter

(in hours)



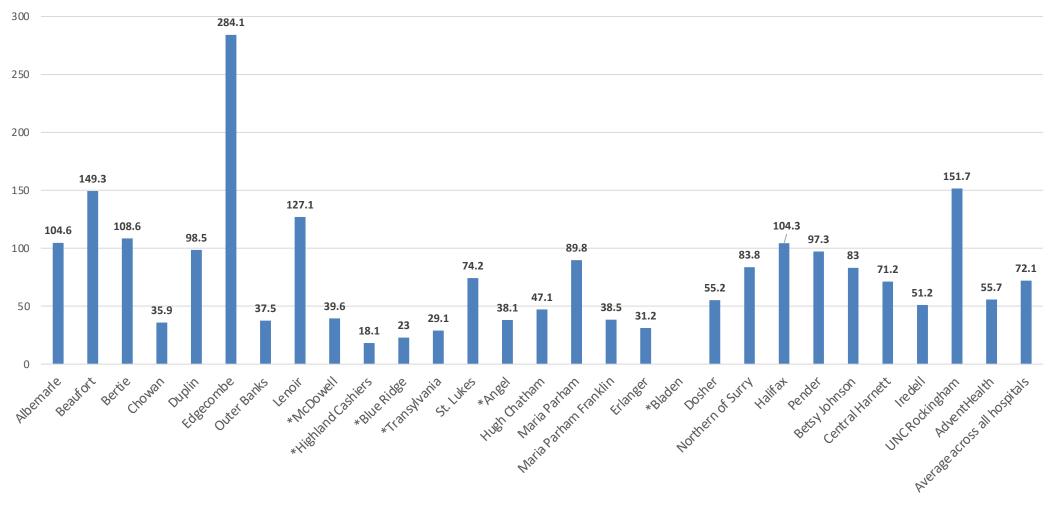


## Average Length of Stay by Quarter (in hours)



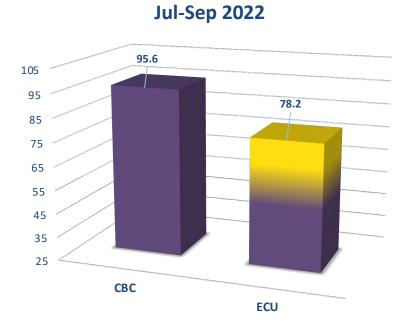


#### Average Length of Stay by Hospital July - September 2022 (in hours)



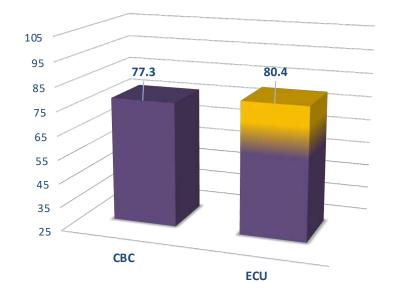


## Average LOS by Provider (in hours)



93.5 97.5 95 85 75 65 55 45 35 25 CBC ECU

Apr-Jun 2022

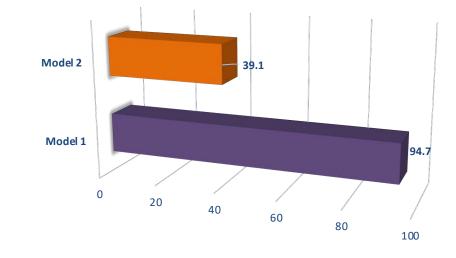




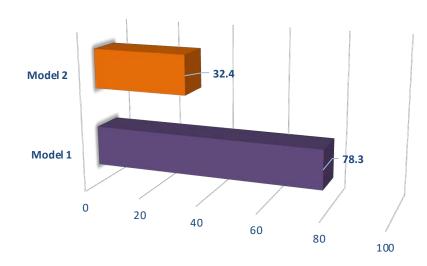


## Average LOS by Model

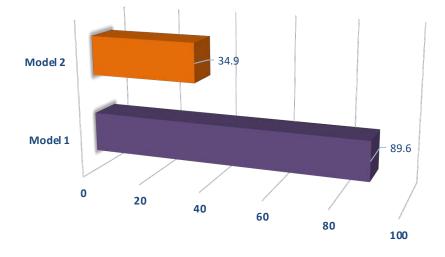
Jan-Mar 2022 (in hours)



Apr-Jun 2022 (in hours)

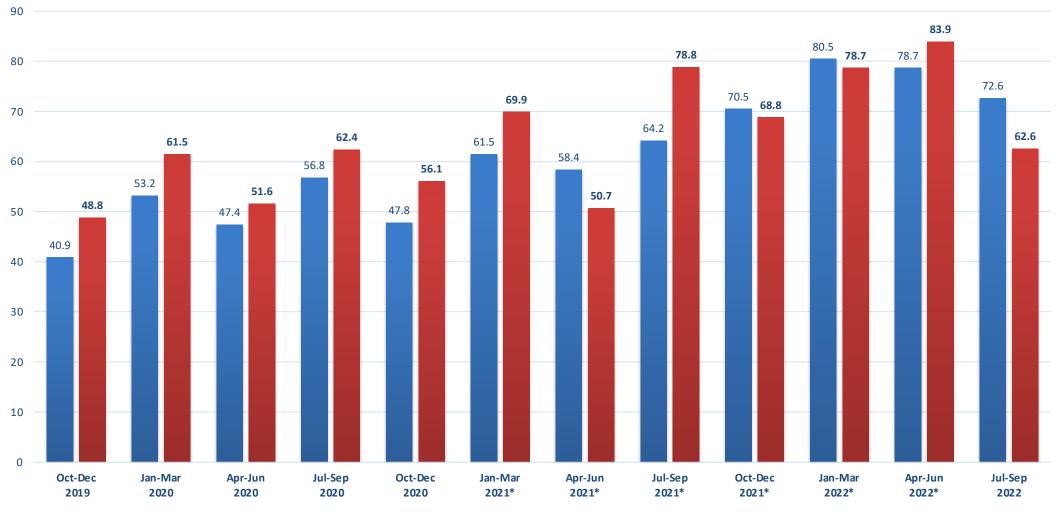


Jul-Sep 2022 (in hours)





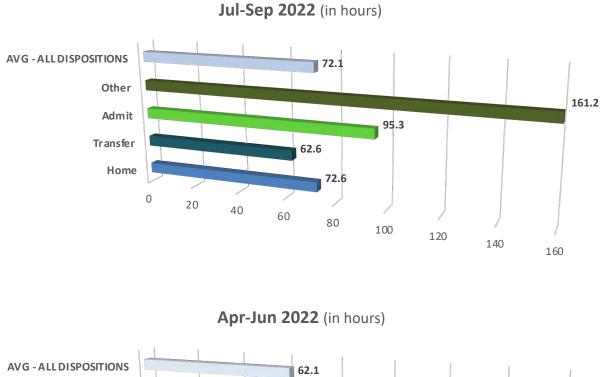
#### Average Length of Stay by Quarter for Patients Discharged to Home or Transfer (in hours)



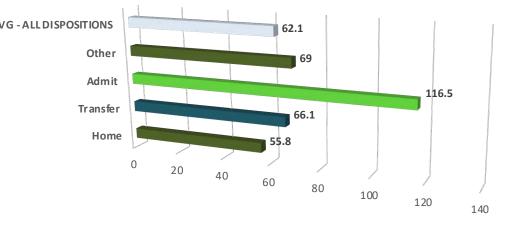
■ Avg LOS for patients discharged HOME

Avg LOS for patients discharged TRANSFER



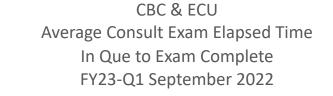


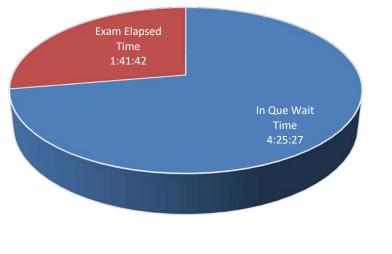






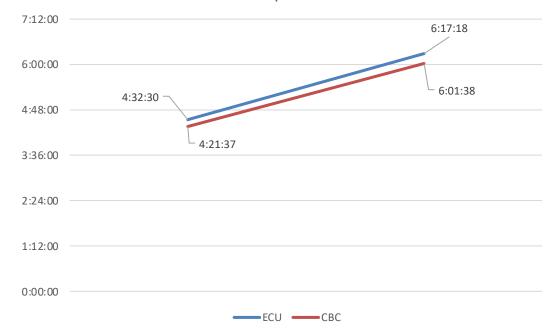
## **Consult Elapsed Time: July - September 2022**





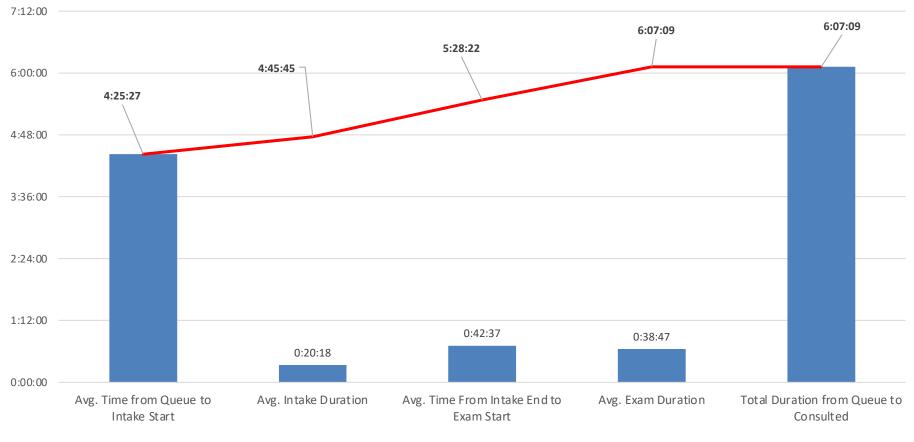
In Que Wait Time
 Exam Elapsed Time

Comparison CBC & ECU Average Consult Elapsed Time In Que to Exam Complete FY23-Q1 September 2022

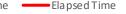




## **Key Processes and Elapsed Times Averages** CBC and ECU: July – September 2022



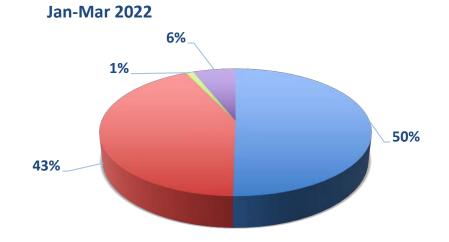
Avg time Elapsed Time

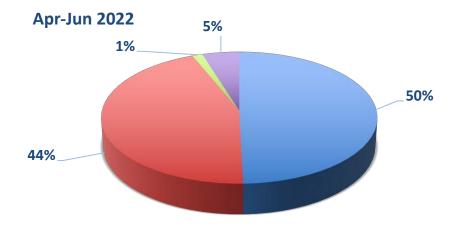




## Percent of Patients by Discharge Disposition

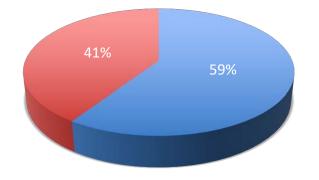




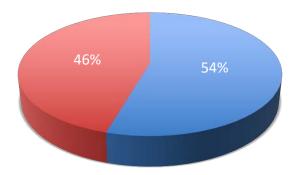




### Jul-Sep 2022



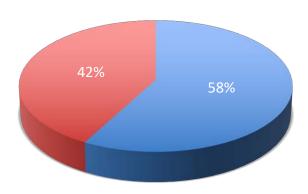
### Jan-Mar 2022



## IVCs – By Release Status

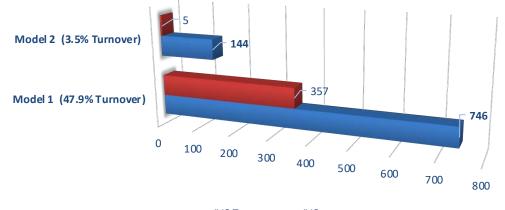
IVCs - percent not released
IVCs - percent released

Apr-Jun 2022





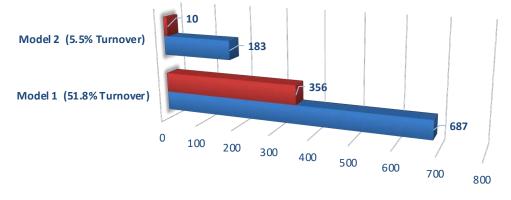
#### Jul-Sep 2022



■ IVC Turnovers ■ IVCs

### Number of IVCs and IVC Turnovers by Model

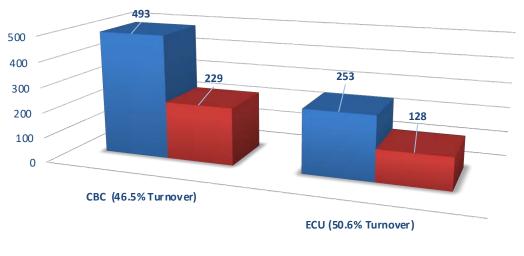
#### Apr-Jun 2022



■ IVC Turnovers ■ IVCs



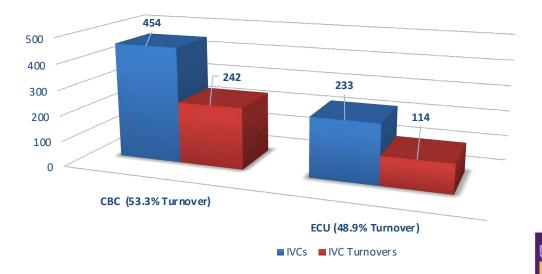
#### Jul-Sep 2022



■ IVCs ■ IVC Turnovers

## Number of IVCs and IVC Turnovers by Provider

#### Apr-Jun 2022





# **Satisfaction Surveys**

- Satisfaction surveys are done twice a year.
- Most recent surveys were conducted in August 2022.
- Invitations to participate were sent via electronic mail
- For groups that use the portal (Model 1 ED staff, psychiatrists, and intake specialists) there was a link to the survey on the portal log-in page.
- Surveys were completed online via Qualtrics software



# **Satisfaction Surveys Methodology**

Satisfaction surveys were conducted in March 2022 with 9 groups

- 1. Model 1 Emergency Department Physicians
- 2. Model 1 Emergency Department Staff
- 3. Model 1 Provider Psychiatrists
- 4. Model 1 Psychiatric Intake Specialists
- 5. Model 1 Hospital CEOs
- 6. Model 2 Emergency Department Physicians
- 7. Model 2 Emergency Department Staff
- 8. Model 2 Provider Psychiatrists
- 9. Model 2 Hospital CEOs

Each group was given a different survey (with different questions) based on their role in the program.

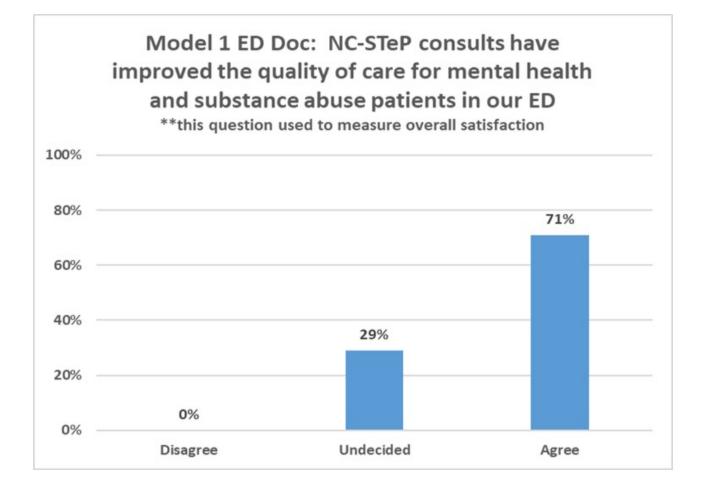


## Satisfaction Surveys Methodology

- 52 individuals responded to the survey (N = 52).
- For each group, one summary question is selected for an overall "satisfaction" rate.
- The overall satisfaction rate is 81%.

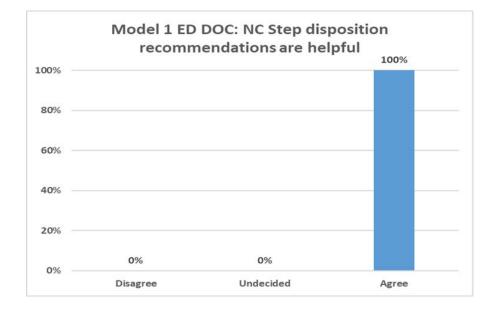


## Model 1 Hospital ED Physicians Results (n=7)

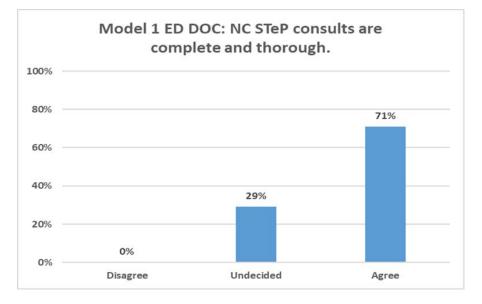


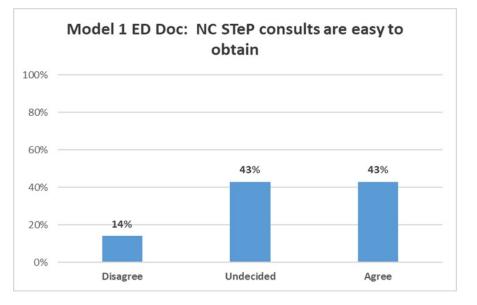


## Model 1 Hospital ED Physicians Results (n=7)

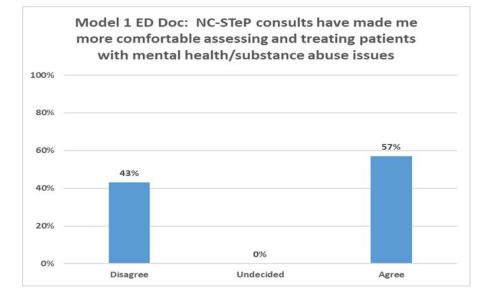


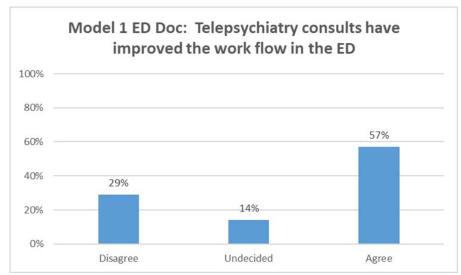
Model 1 ED Doc: NC STeP consultants respond quickly to telepsychiatry requests.

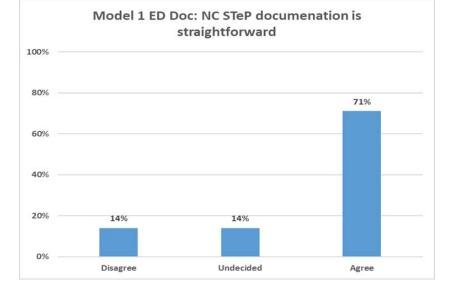


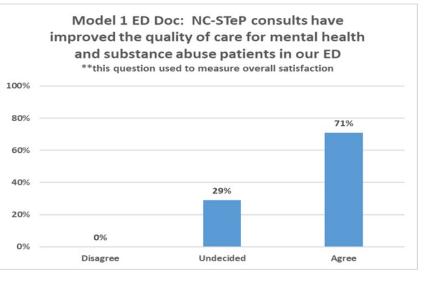


#### Model 1 Hospital ED Physicians Results (n=7)

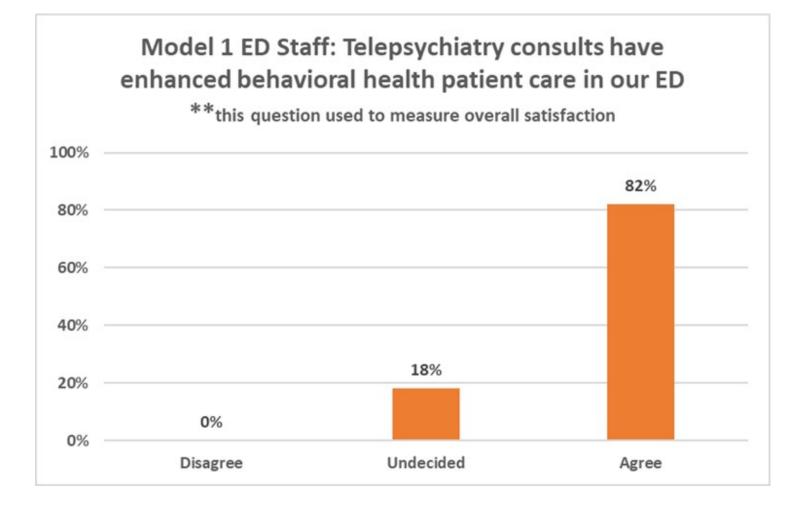






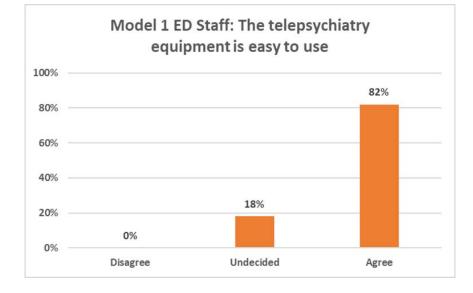


#### Model 1 Hospital ED Staff Results (n=22)

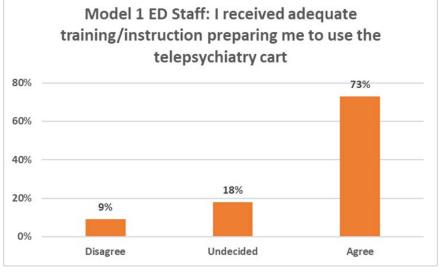




#### Model 1 Hospital ED Staff Results (n=22)

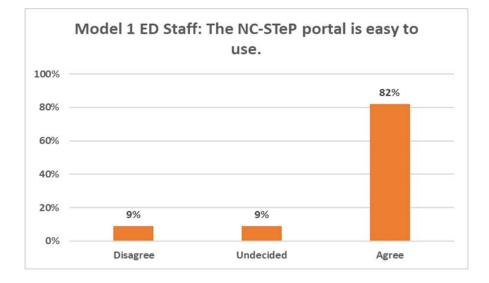


Model 1 ED Staff: The telepsychiatry equipment is reliable and seldom goes down. 80% 60% 40% 27% 20% 5% 0% Disagree Undecided Agree

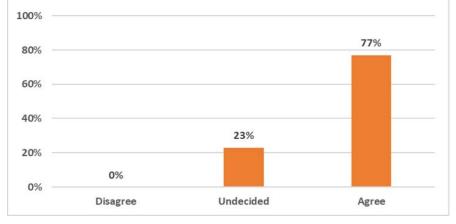


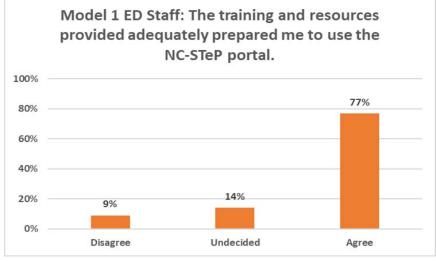
Model 1 ED Staff: Patients appear comfortable interacting with the psychiatric providers via telepsychiatry 100% 82% 80% 60% 40% 20% 0% Disagree Undecided Agree

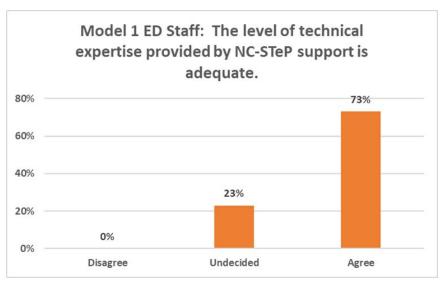
#### Model 1 Hospital ED Staff Results (n=22)



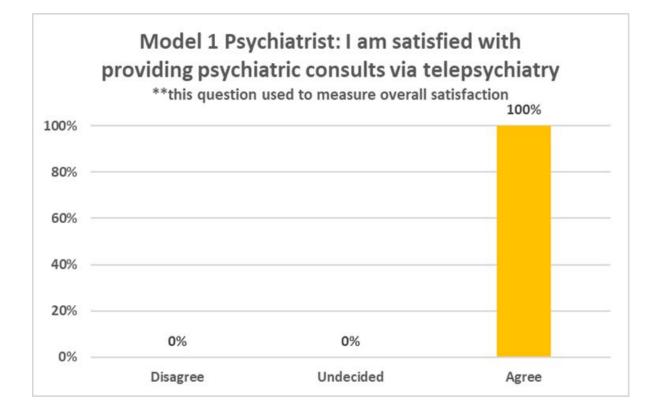
Model 1 ED Staff: The NC-STeP portal is reliable and unscheduled downtime is rare.





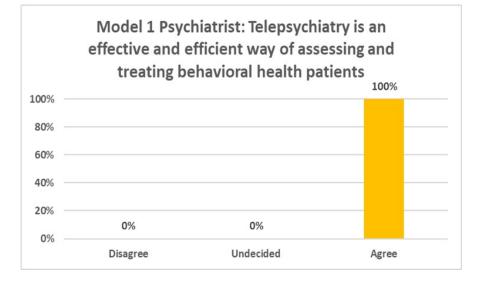


#### Model 1 Provider Psychiatrist Results (n= 5)

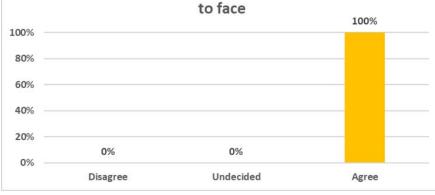




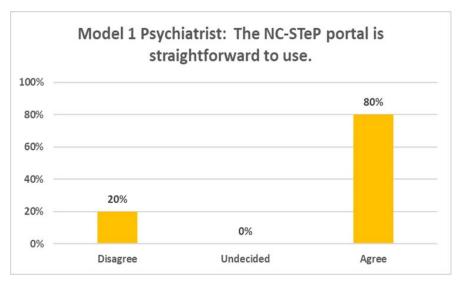
#### Model 1 Provider Psychiatrist Results (n=5)



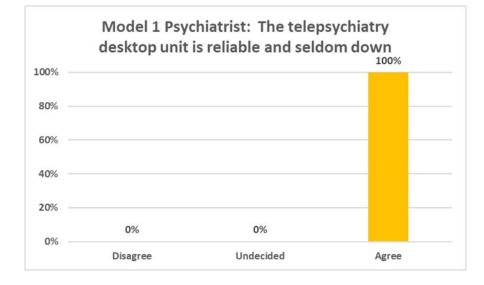
Model 1 Psychiatrist: I believe the quality of psychiatric care I provide via telepsychiatry is comparable to the quality of care I deliver face



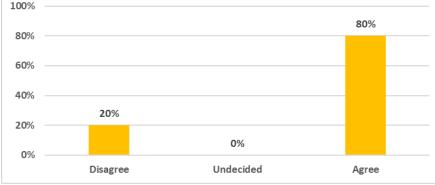


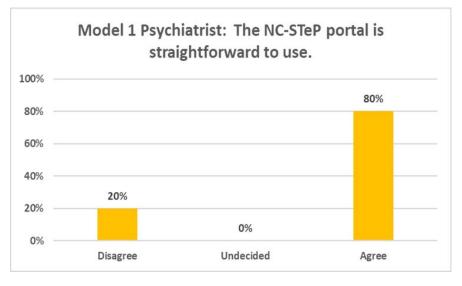


#### Model 1 Provider Psychiatrist Results (n= 5)

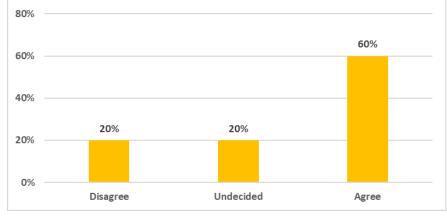


Model 1 Psychiatrist: I received adequate training and resources preparing me to use the NC-STeP portal





Model 1 Psychiatrist: The NC-STeP portal works well without excessive delays or downtime

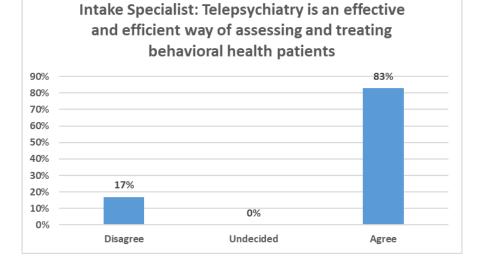


#### Model 1 Psychiatric Intake Specialist Results (n=6)

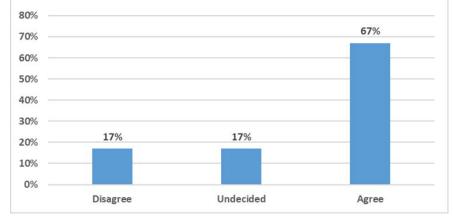


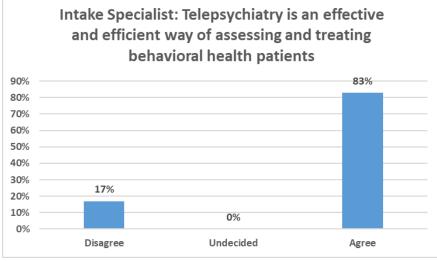


### Model 1 Psychiatric Intake Specialist Results (n=6)

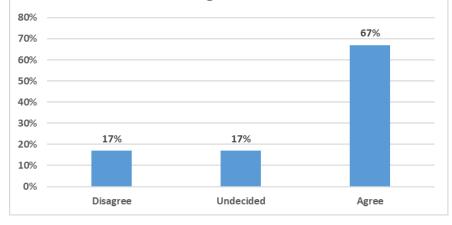


Intake Specialist: Telepsychiatry increases my productivity and/or efficiency.

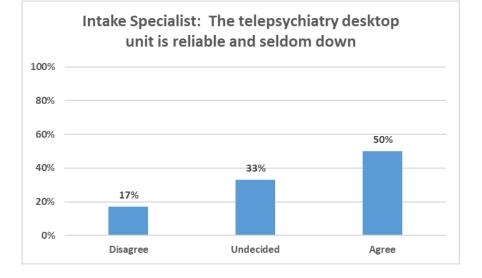


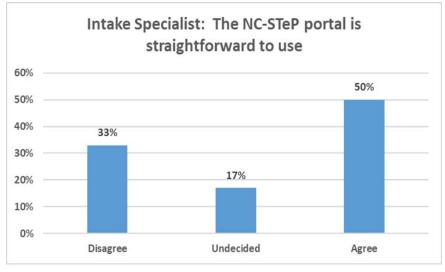


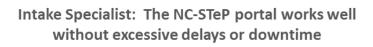
Intake Specialist: The telepsychiatry desktop unit is straightforward to use

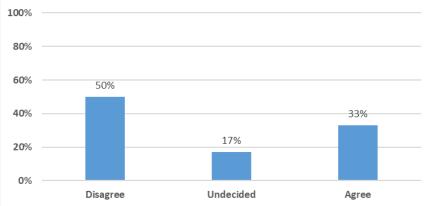


### Model 1 Psychiatric Intake Specialist Results (n=6)

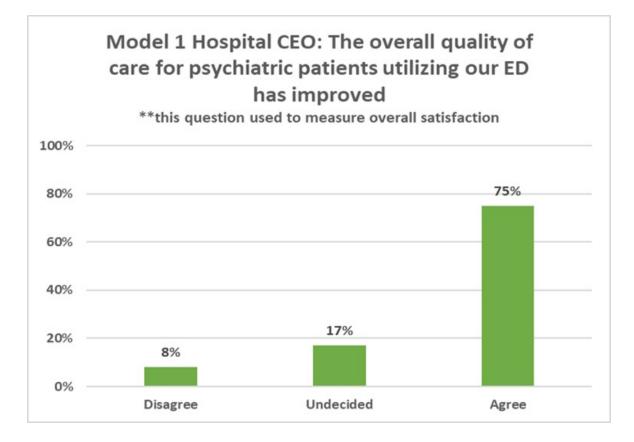






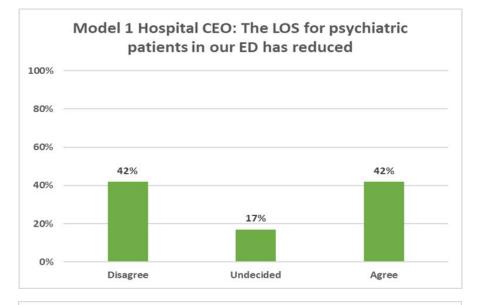


#### Model 1 CEO/CNO/CFO Results (n=12)

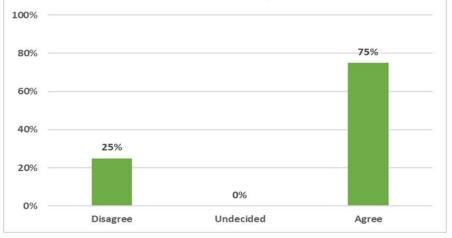


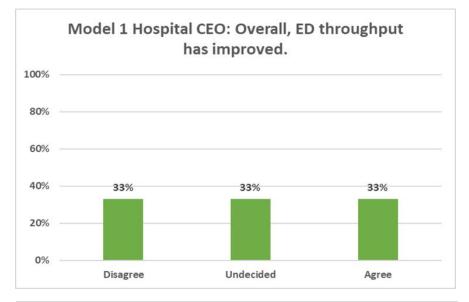


#### Model 1 CEO/CNO/CFO Results (n=12)

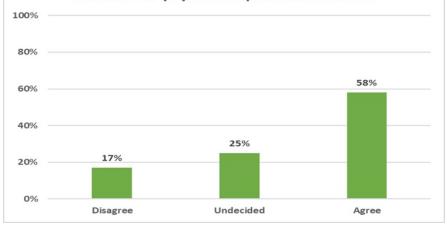


Model 1 Hospital CEO: Overall, ED staff satisfaction has improved

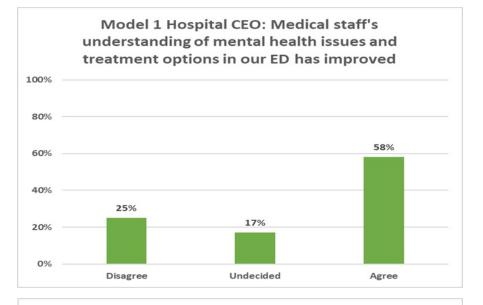




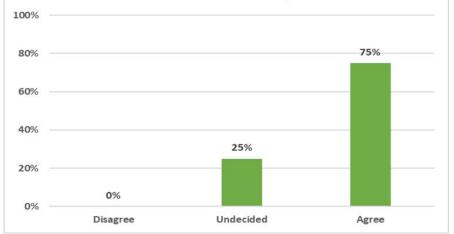
Model 1 Hospital CEO: There has been an improvement in discharge planning and referrals for psychiatric patients in our ED

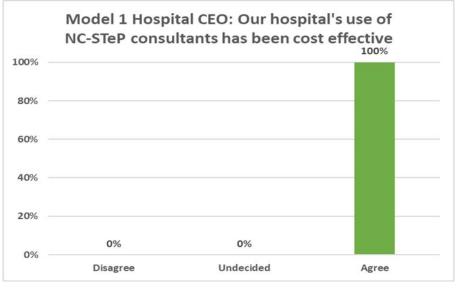


#### Model 1 CEO/CNO/CFO Results (n=12)

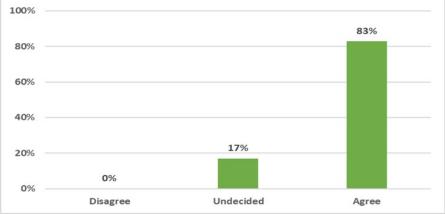


#### Model 1 Hospital CEO: I would recommend NC-STeP to other hospitals

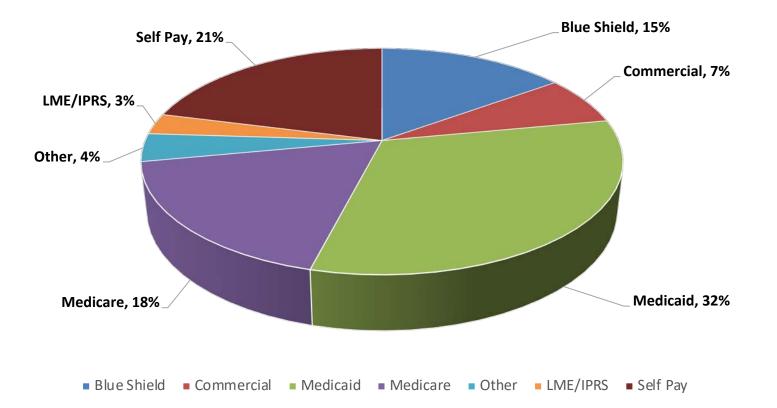








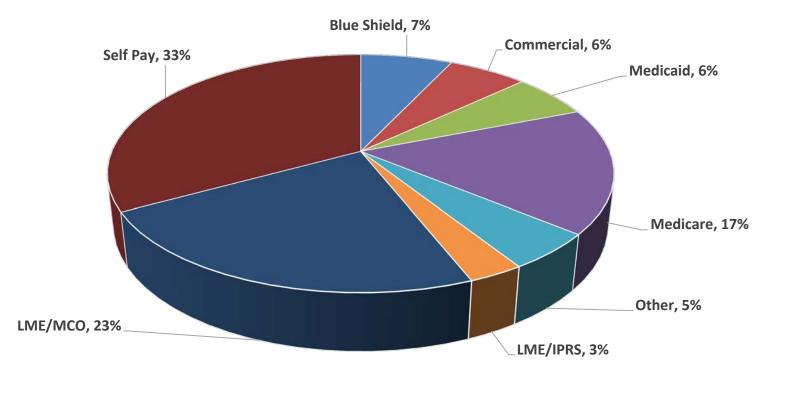
#### NC-STeP Charge Mix QTD FY2023 - Quarter 1





#### **NC-STeP Charge Mix - Project to Date**

Service Dates: October 1, 2013 – September 30, 2022



Blue Shield Commercial Medicaid Medicare Other LME/IPRS LME/MCO Self Pay



## **Community-Based Sites as of September 30, 2022**

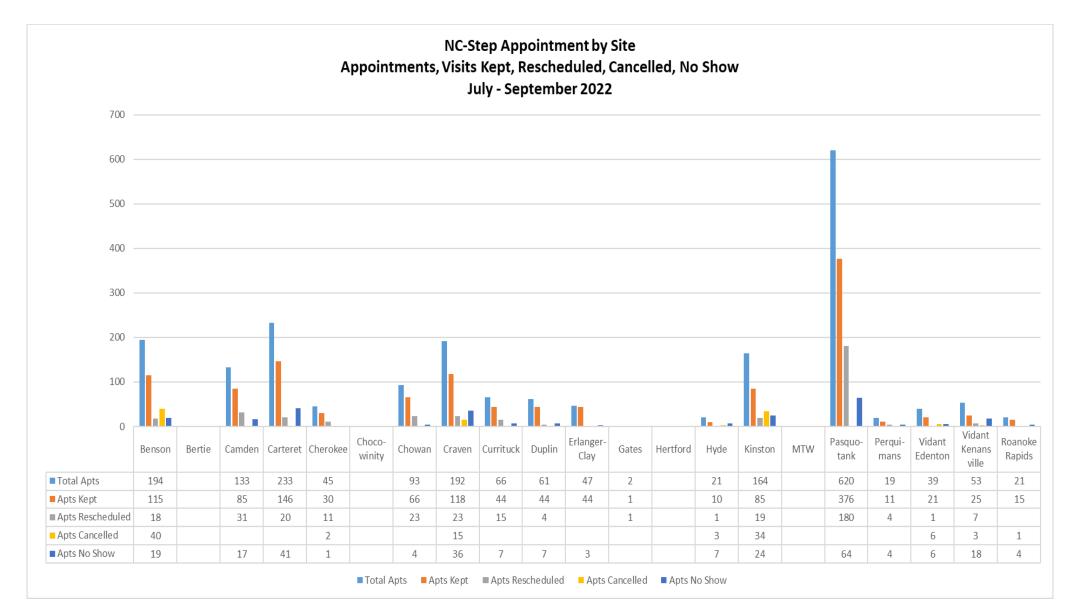
EVALUATION CRITERIA	VALUES/MEASURES REACHED AS OF 9/30/2022
The number of full-time equivalent (FTE) providers supporting the program	1.6 FTEs
The number of community-based sites contracted	23
Number of patient visits with medical (psychiatric) doctor	151
	PTD= 1,477
The number return visits	952
	PTD= 11,077
The number of patient visits with a mid-level provider	1,212
	PTD= 12,586
The number of new patient visits	411
	PTD= 3,036



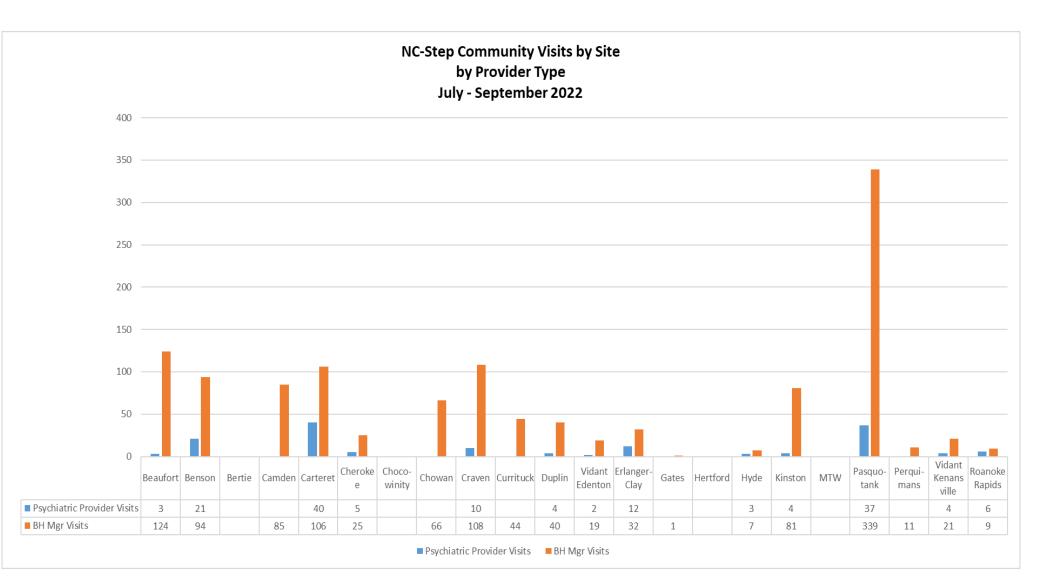
#### **NC-STeP Community Patient Visits**

Patient Visits	Since project inception in October 2018	During Calendar Year 2018	During Calendar Year 2019	During Calendar Year 2020	During Calendar Year 2021	During Quarter Jan- Mar 2022	During Quarter Apr- Jun 2022	During Quarter Jul- Sep 2022
With Medical Doctor	1,477	8	536	265	316	103	98	151
With Mid- Level Provider	12,586	7	2,006	3,217	4,122	1,036	986	1,212
Total Patient Visits	14,152	15	2,633	3,477	4,440	1,139	1,085	1,363

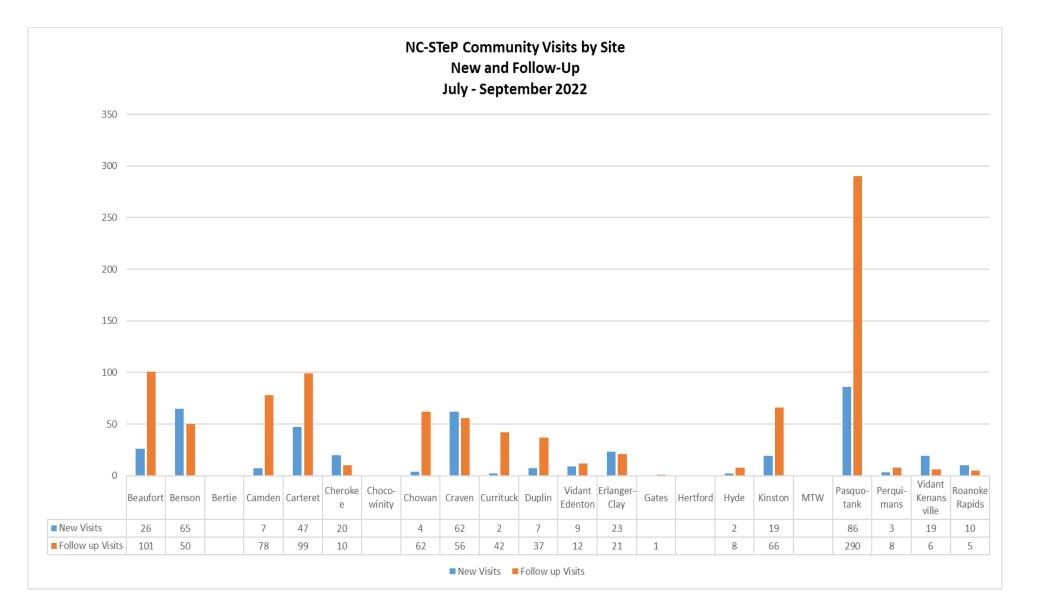














# NC-STeP Status as of September 30, 2022

- 39 hospitals in the network. 38 live.
- 55,812 total psychiatry assessments since program inception
- 9,155 IVCs overturned
  - Cumulative return on investment = \$49,437,00 (savings from preventing unnecessary hospitalizations)
- Four Clinical Provider Hubs with 52 consultant providers
- Over 32% of the patients served had no insurance coverage



## NC-STeP Status as of September 30, 2022

- 23 community-based sites.
- 14,063 total patient visits since program inception in October 2018.
  - 1,477 total patient visits with a psychiatrist
  - 12,586 total patient visits with a mid-level provider



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#### Contact

