

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



- 37 hospitals in the network, 36 hospitals were live
- 20 hospitals reporting Telepsychiatry patients in their ED
 - not all live hospitals had telepsychiatry patients
- Total number of assessments for this quarter = 1,007
- Total number of encounters for this quarter = 872
- Patient assessments billed for Model 1 hospitals = 955





- The Median Length of Stay was 34.6 hours
- The Average Length of Stay was 68.8 hours
 - 61.9 hours for those discharged to home
 - 68.4 hours for those transferred to another facility
- Average Consult Elapsed Time (in Queue to Exam Complete) for Model 1 hospitals was 5 hours and 32 minutes.





- 707 ED patients who received telepsychiatry services had an IVC in place during their ED stay.
 - 303 (42.9%) of those patients did not have an IVC in place when discharged.
- Of the ED patients who received telepsychiatry services:
 - 49.3% were discharged to home
 - 41.3% were discharged to another facility





- 22 Community based sites were live as of 03/31/2023.
- 2,153 total behavioral health visits:
 - 249 visits with a Psychiatrist.
 - 1904 visits with a behavioral health manager.





NC-STeP	Since project inception in November 2013	Quarter Jan- Mar 2023	Quarter Apr- Jun 2023	Quarter Jul- Sep 2023	Quarter Oct- Dec 2023
Total Patient Encounters	45,084	872			
Model 1 Hospital Patient Encounters	22,872	820			
Model 2 Hospital Patient Encounters	17,212	52			
Total Number of Assessments (Billed Assessments for Model 1 Hospitals + Number of Patient Encounters for Model 2 Hospitals)	58,225	1,007			

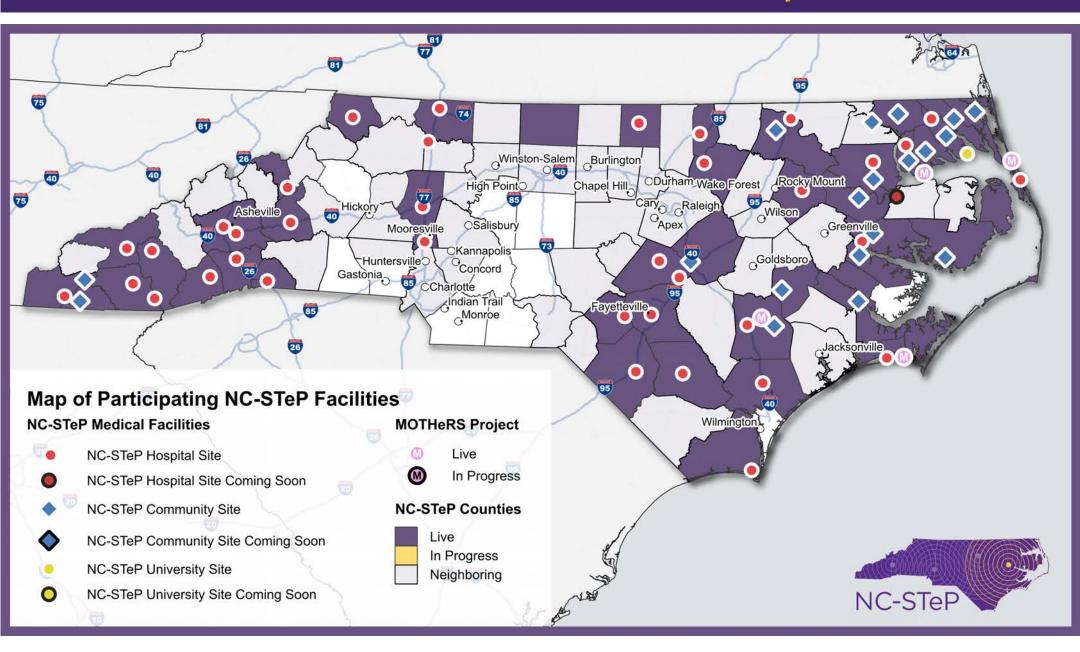
NC-STeP	Since project inception in November 2013	Quarter Jan- Mar 2022	Quarter Apr- Jun 2022	Quarter Jul- Sep 2022	Quarter Oct- Dec 2022
Total Patient Encounters	45,084	1,240	1,325	1,350	1,209
Model 1 Hospital Patient Encounters	27,872	802	873	894	759
Model 2 Hospital Patient Encounters	17,212	438	452	456	450
Total Number of Assessments (Billed Assessments for Model 1 Hospitals + Number of Patient Encounters for Model 2 Hospitals)	58,225	1,532	1,563	1,506	1,322

NC-STeP	Since project inception in November 2013	During Calendar	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	During Calendar Year 2022
Total Patient Encounters	45,084	5,144	7,128	1,896	3,971	6,104	4,835	4,305	4,763	5,124
Model 1 Hospital Patient Encounters	27,872	4,578	5,849	706	2,044	2,654	1,902	2,152	2,897	3,328
Model 2 Hospital Patient Encounters	17,212	566	1,279	1,190	1,927	3,450	2,933	2,153	1,866	1,796
Total Number of Assessments (Billed Assessments for Model 1 Hospitals + Number of Patient Encounters for Model 2 Hospitals)	58,225	8,130	13,573	1,942	4,348	6,680	5,287	4,820	5,641	5,923

NC-STeP Benchmarks

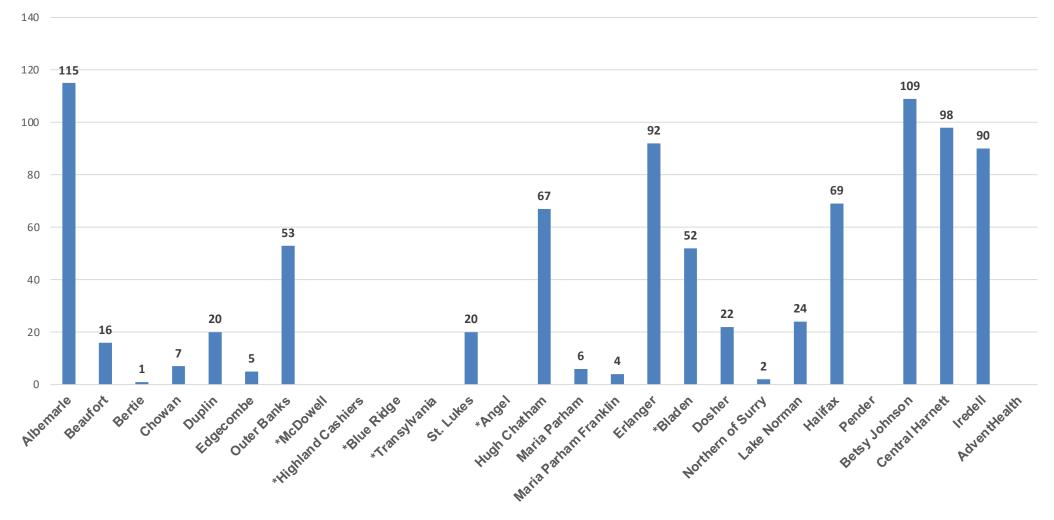
	Goals	Values Reached			
NC-STeP	Cumulative Target to be reached by (06/30/2023)	Value Reached as of most recent previous quarter (12/31/2022)	Value Reached as of this reporting quarter (03/31/2023)	Year-to-Date Total with % of the Yearly Target (03/31/2023)	
Number of IVCs	2,815	810	707	2,451 87% of Ye	
Number of IVCs Overturned	1,155	274	303	950 82% of Ye	
Total Number of Assessments (Billed assessments for Model 1 hospitals + Number of patient encounters for Model 2 hospitals.)	5,025	1,322	1,007	3,835 76% of Ye	

NC-STeP Status as of March 31, 2023



Number of NC-STeP Patients by Hospital

January - March 2023

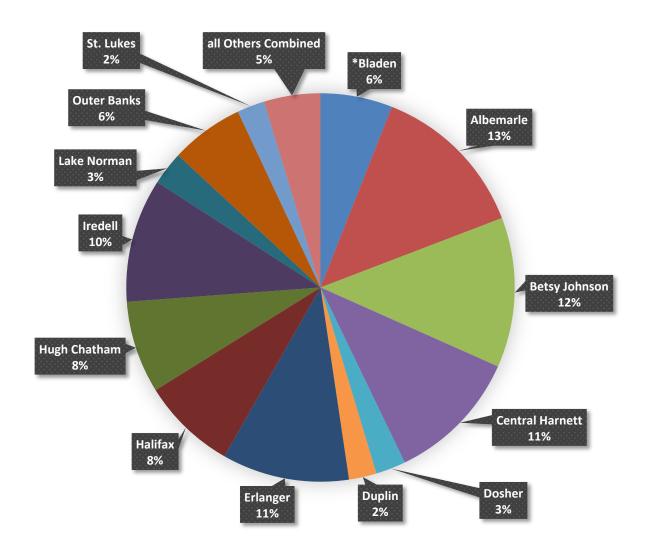






Percent of Use by Hospital Jan - Mar 2023

(based on number of encounters)



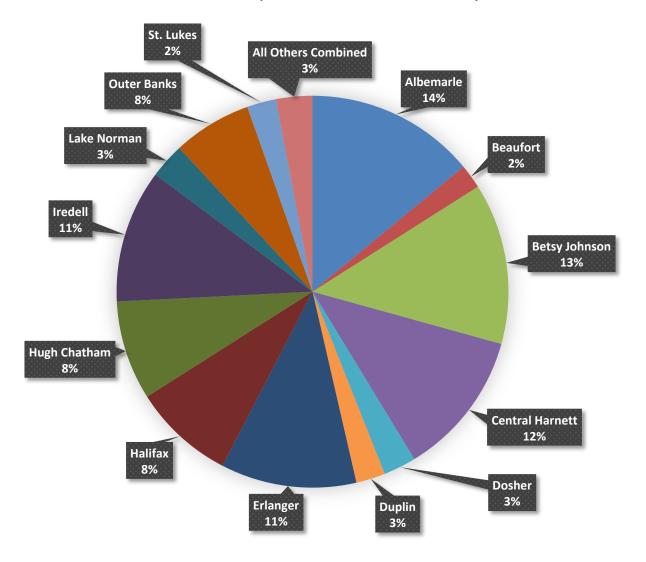
■ *Bladen
■ Albemarle
■ Betsy Johnson
■ Central Harnett
■ Dosher
Duplin
■ Erlanger
■ Halifax
■ Hugh Chatham
■Iredell
■ Lake Norman
■ Outer Banks
■ St. Lukes
■ all Others Combined





Percent of Use by Model 1 Hospitals Jan - Mar 2023

(based on number of encounters)









Number of Patients by Provider (Model 1)



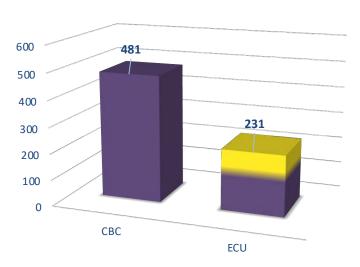




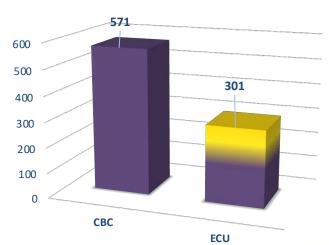


Number of Patients by Provider (Model 1)

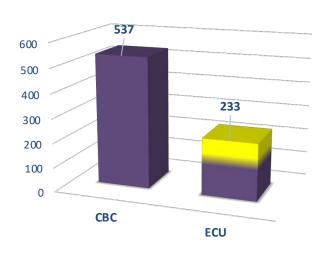
Oct-Dec 2022



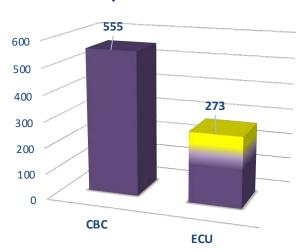
Jul-Sep 2022



Jan-Mar 2022



Apr-Jun 2022



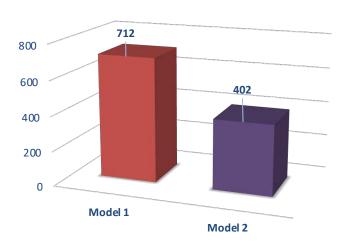




Number of Patients by Model



Oct-Dec 2022

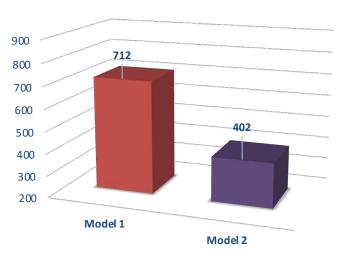




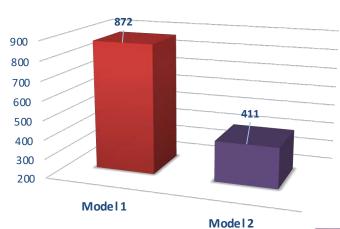


Number of Patients by Model

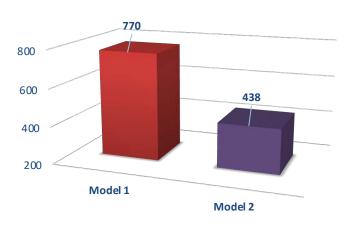
Oct-Dec 2022



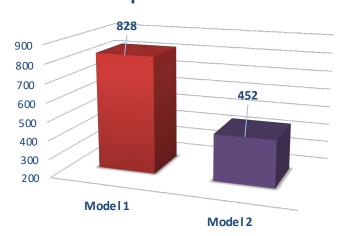
Jul-Sep 2022



Jan-Mar 2022

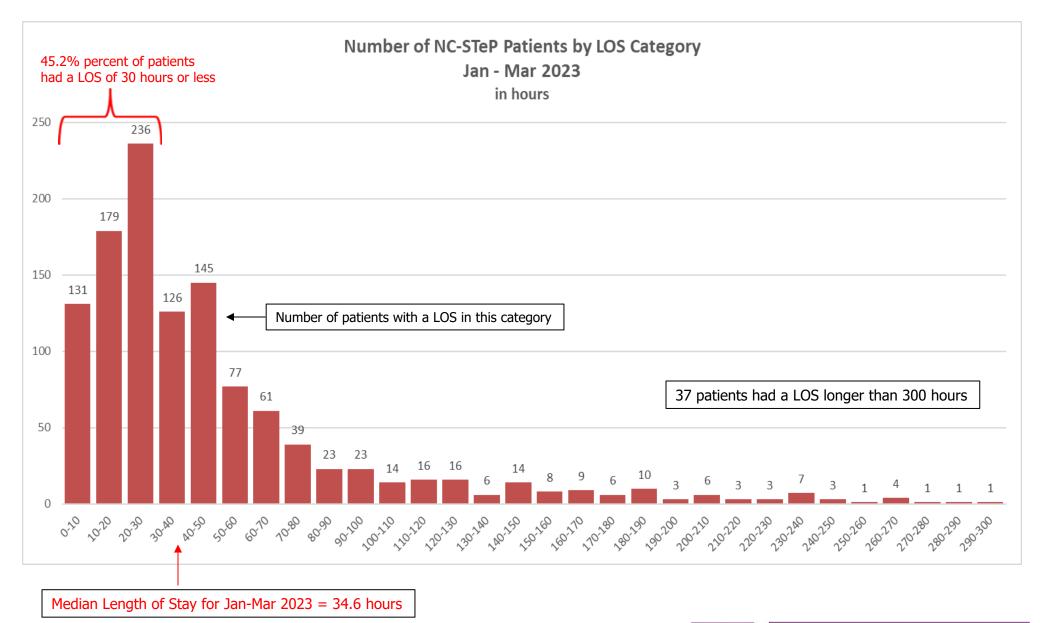


Apr-Jun 2022



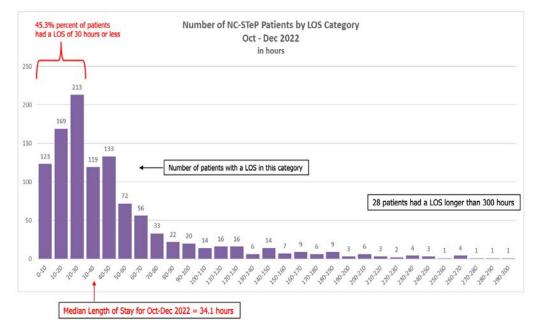


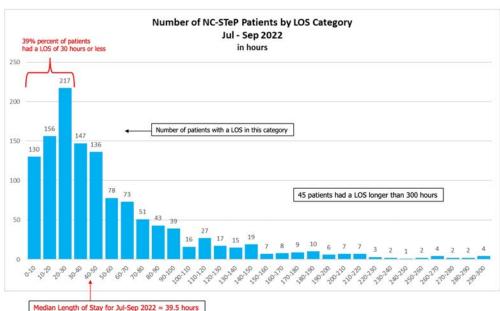


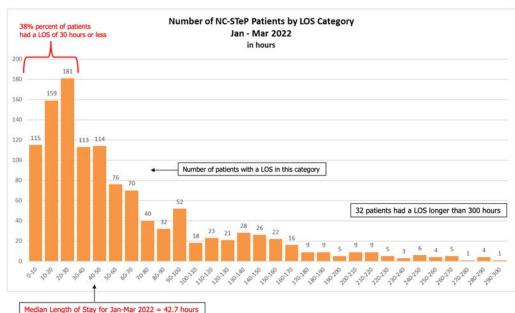


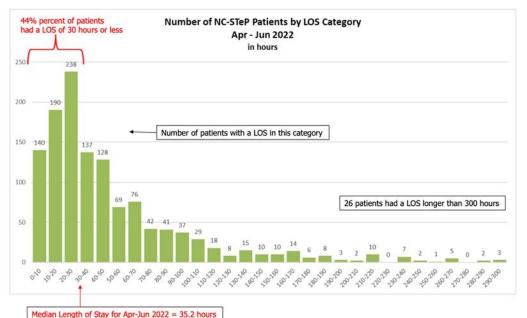










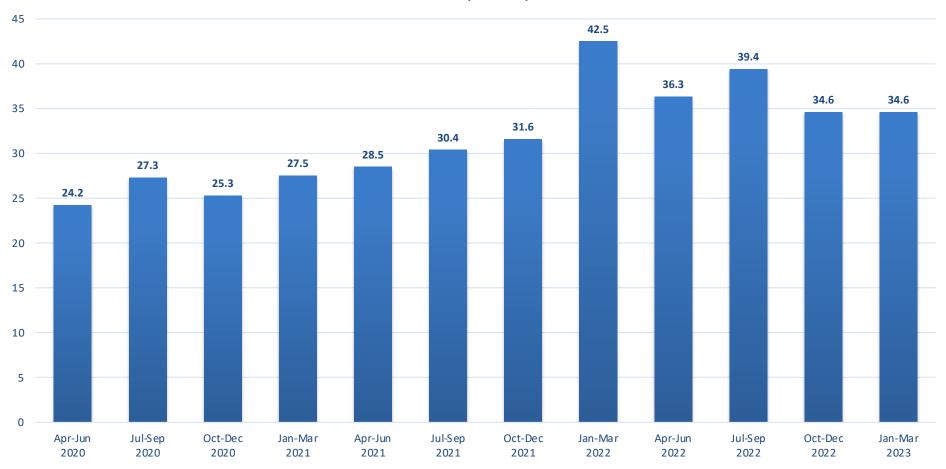






Median Length of Stay by Quarter

(in hours)

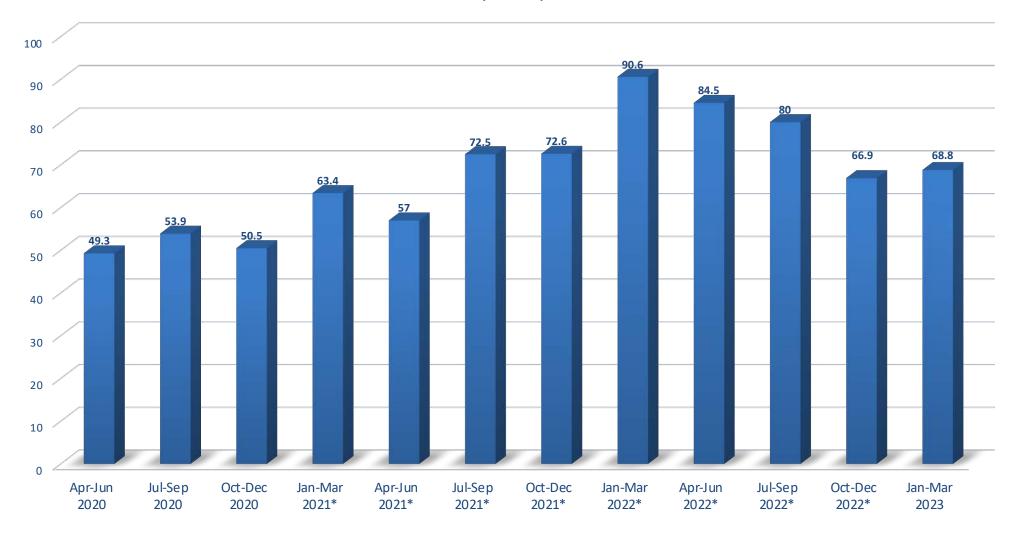






Average Length of Stay by Quarter for Hospitals Participating in NC-STeP

(in hours)

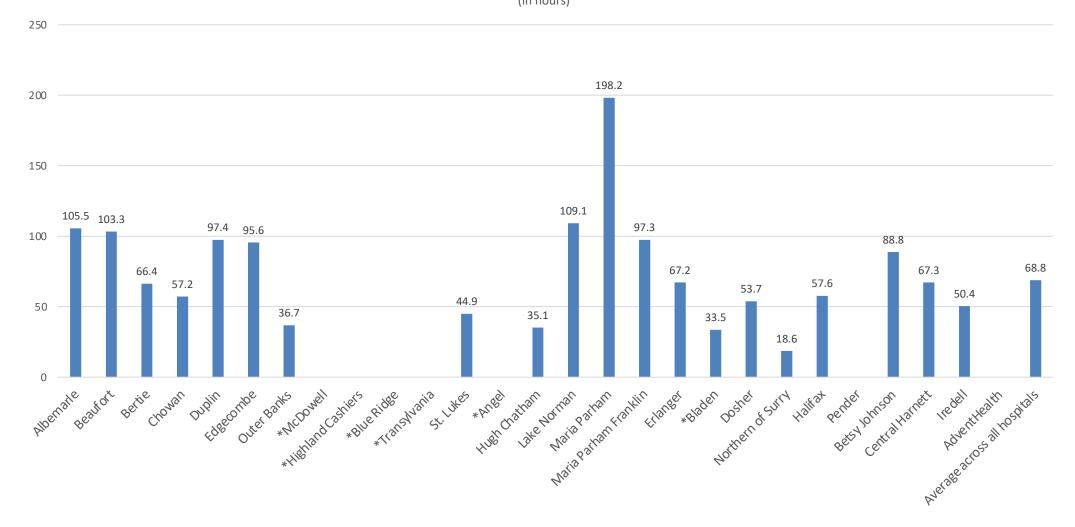






Average Length of Stay for NC-STeP Patients by Hospital

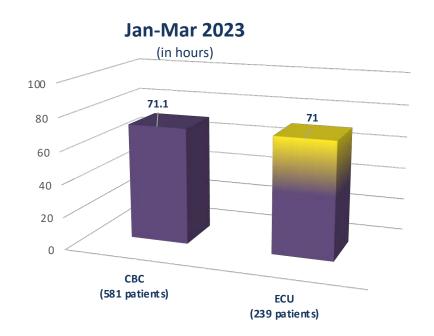
January - March 2023 (in hours)

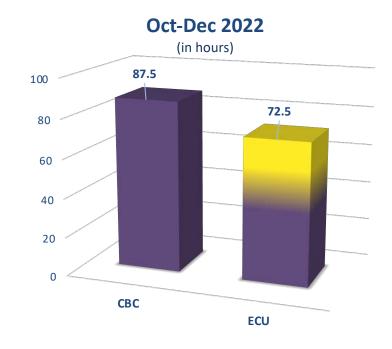






Average LOS by Provider (in hours)

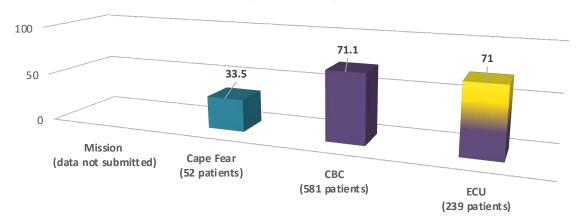




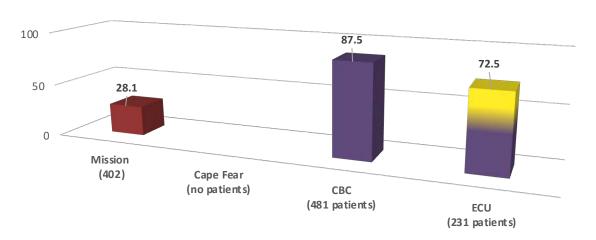




Jan-Mar 2023 (in hours)



Oct-Dec 2022 (in hours)

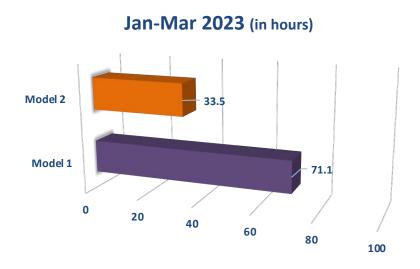


Average Length of Stay by Provider

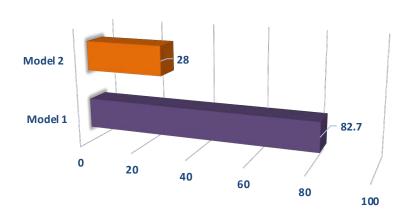




Average LOS by Model



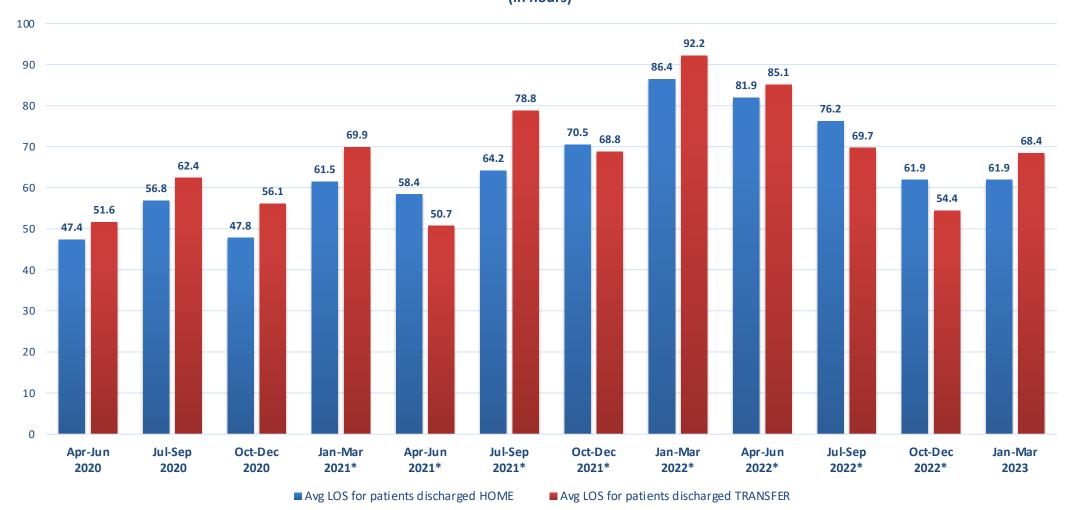
Oct-Dec 2022(in hours)







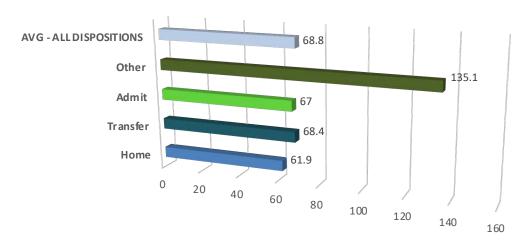
Average Length of Stay by Quarter for Patients Discharged to Home or Transfer (in hours)



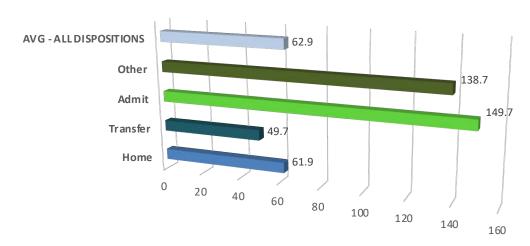




Jan - Mar 2023 (in hours)



Oct-Dec 2022 (in hours)



Average LOS by Discharge Disposition



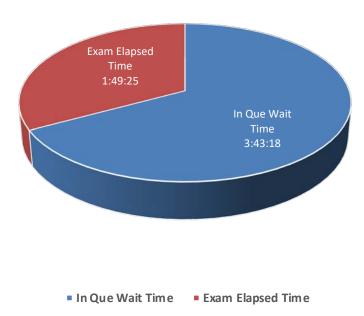


Consult Elapsed Time: January – March 2023

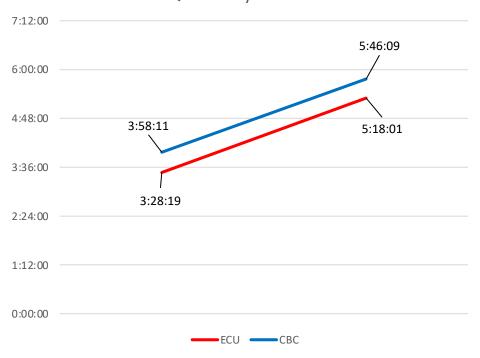
CBC & ECU

Average Consult Exam Elapsed Time
In Que to Exam Complete

In Que to Exam Complete FY23-Q3 JAN-MAR 2023



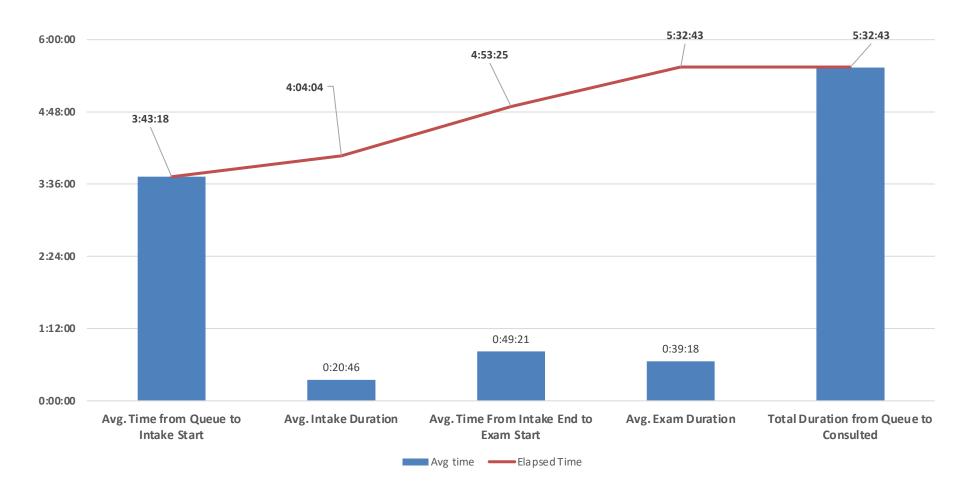
Comparison CBC & ECU Average Consult Elapsed Time In Que to Exam Complete FY23-Q3 January – March 2023







Key Processes and Elapsed Times Averages CBC and ECU: January – March 2023

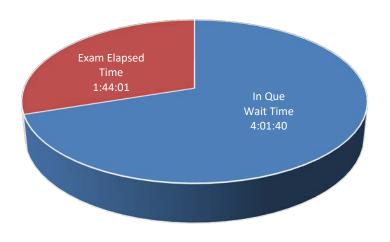




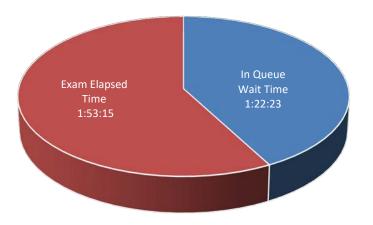


Consult Elapsed Time

CBC & ECU Average Consult Elapsed Time In Que to Exam Complete January - December 2022 (5 hrs. 42 min.)



CBC, OVBHS, and ECU Average Consult Elapsed Time In Queue to Exam Complete January - December 2019 (3 hrs. 16 min.)



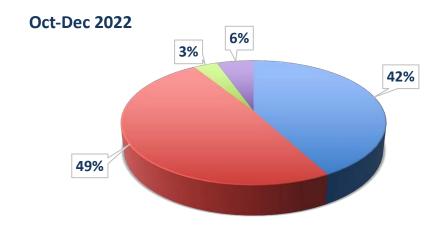






Percent of Patients by Discharge Disposition



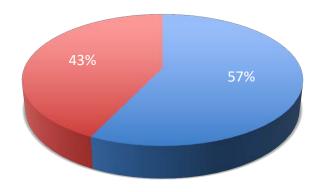






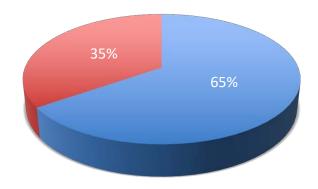
Jan-Mar 2023

Oct-Dec 2022





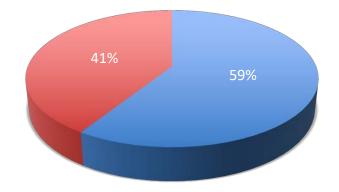
- **IVCs** percent not released
- **IVCs** percent released



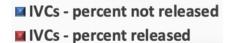


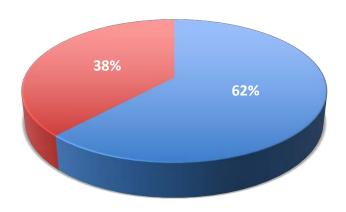


January – December 2021

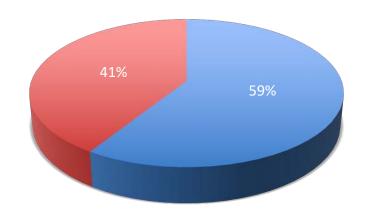


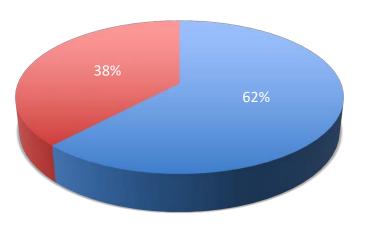
IVCs – By Release Status





January – December 2020

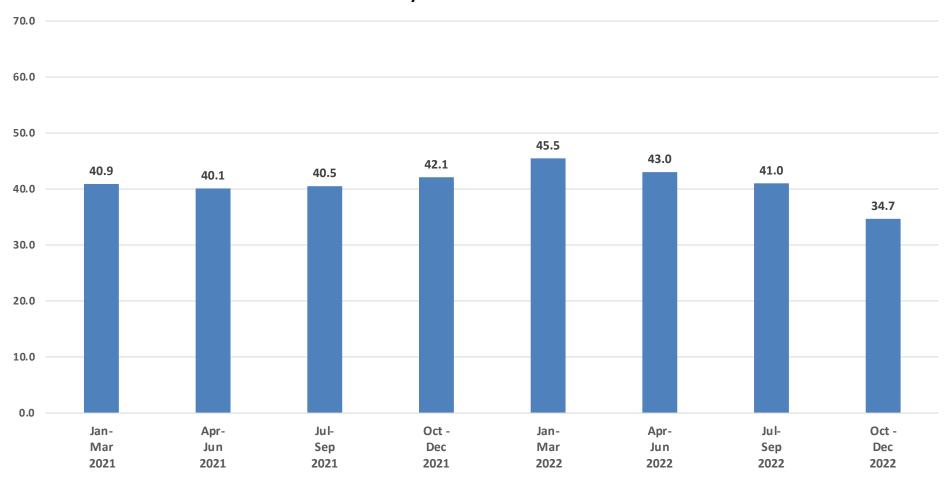








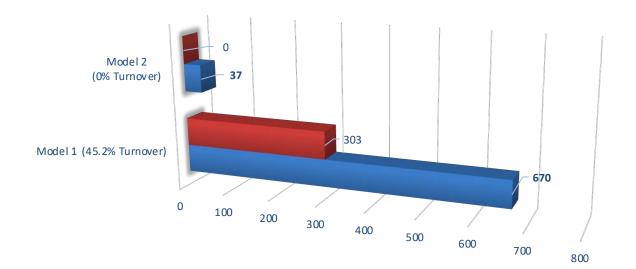
Percent of IVCs Turned Over by Quarter January 2021 - December 2022





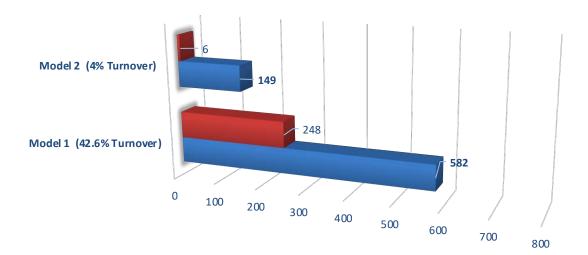


Jan-Mar 2023



Number of IVCs and IVC Turnovers by Model

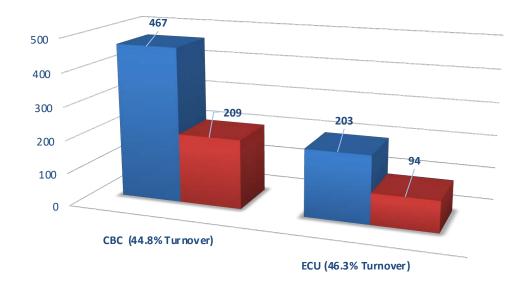
Oct-Dec 2022



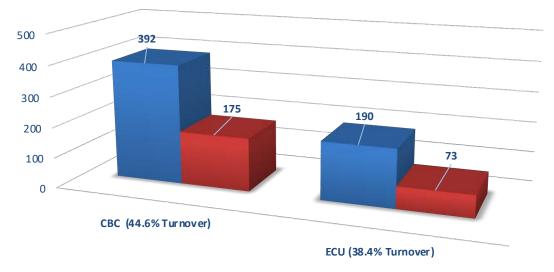




Jan-Mar 2023



Oct-Dec 2022



Number of IVCs and IVC Turnovers by Provider





Satisfaction Surveys

- Satisfaction surveys are done twice a year.
- Most recent surveys were conducted in March 2023.
- 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





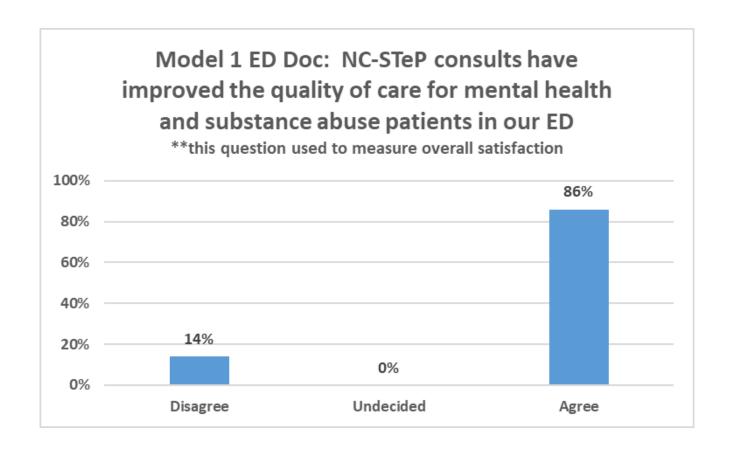
Satisfaction Surveys Methodology

- 46 individuals responded to the survey (N = 46).
- For each group, one summary question is selected for an overall "satisfaction" rate.
- The overall satisfaction rate is 88%.





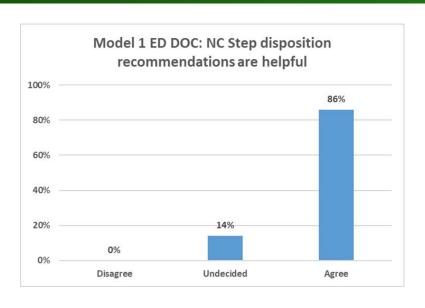
Model 1 Hospital ED Physicians Results (n=7)

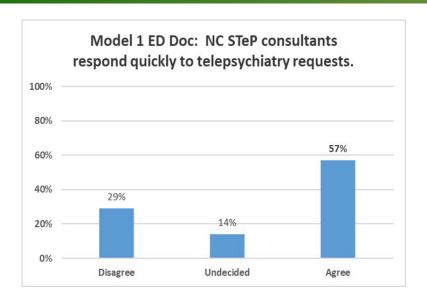


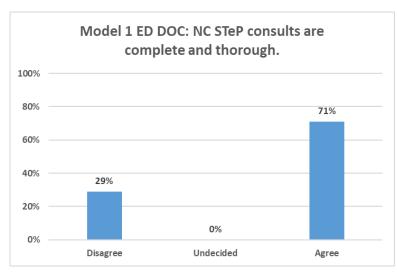


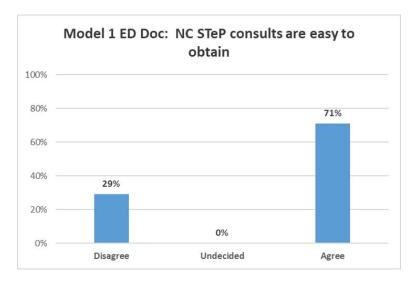


Model 1 Hospital ED Physicians Results (n=7)

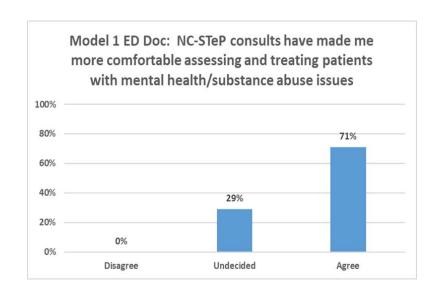


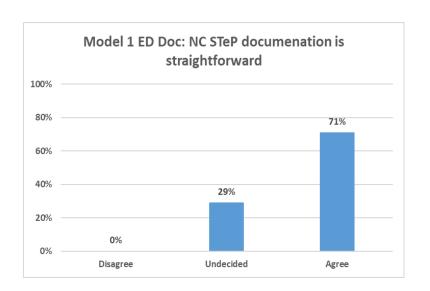


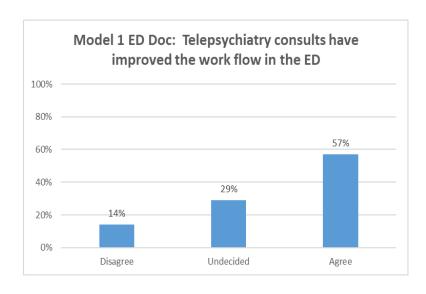




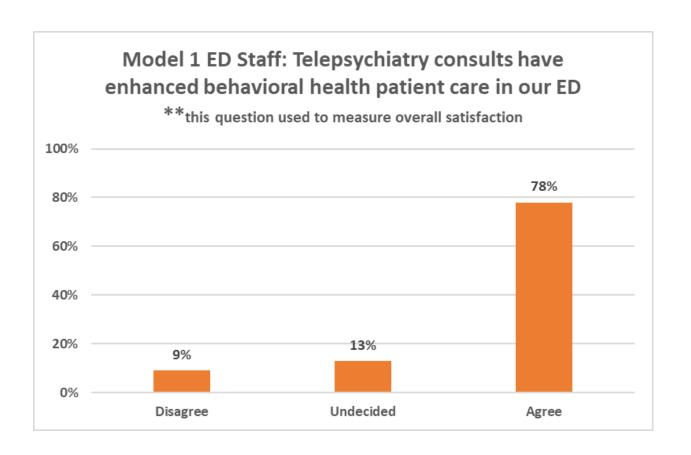
Model 1 Hospital ED Physicians Results (n=7)







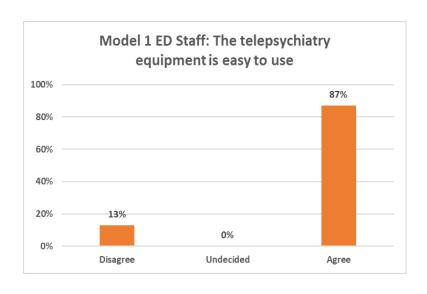
Model 1 Hospital ED Staff Results (n=23)

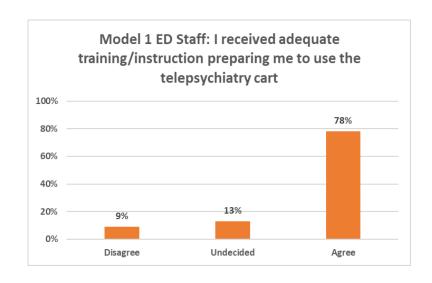


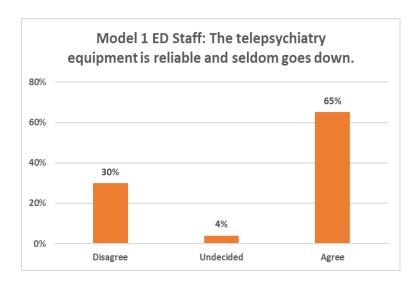


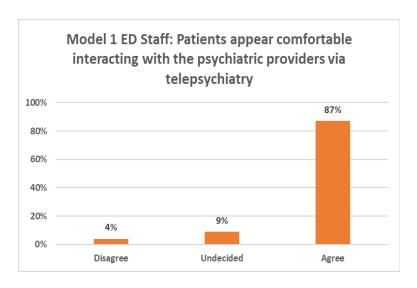


Model 1 Hospital ED Staff Results (n=23)

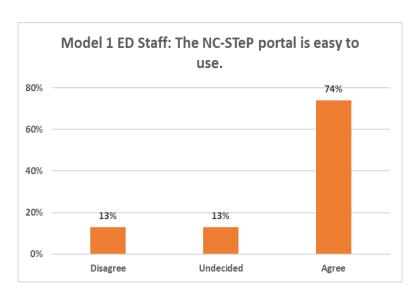


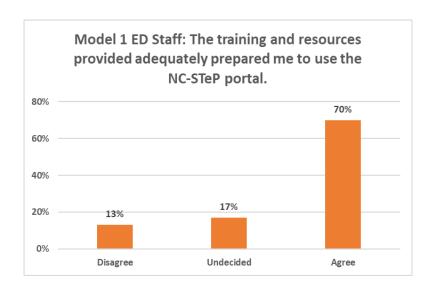


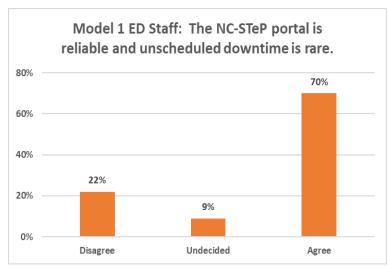


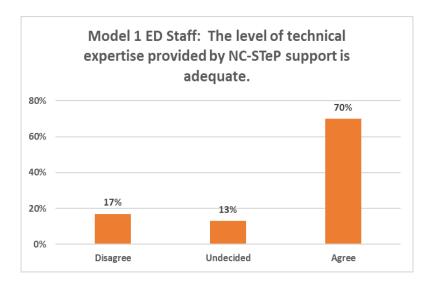


Model 1 Hospital ED Staff Results (n=23)

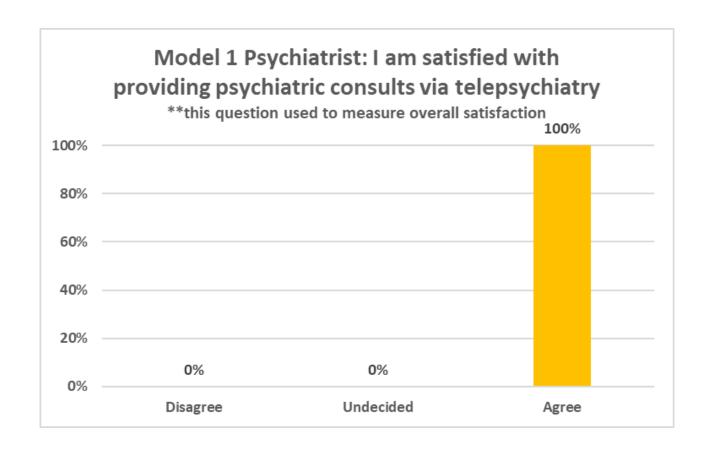








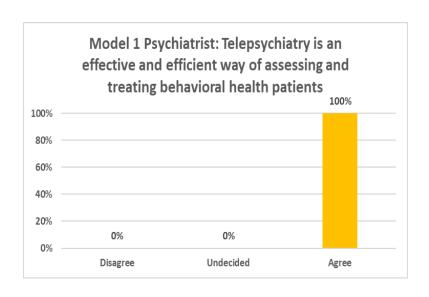
Model 1 Provider Psychiatrist Results (n= 6)



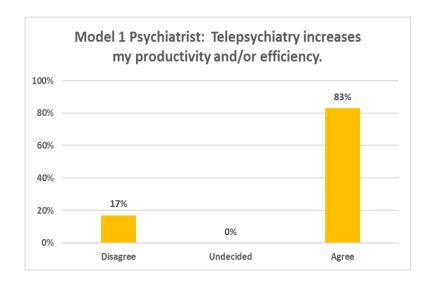


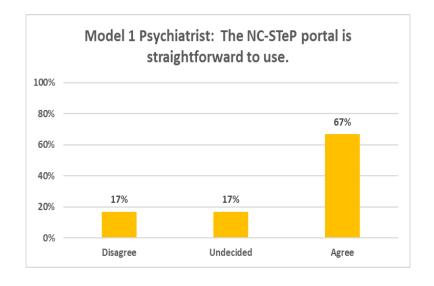


Model 1 Provider Psychiatrist Results (n= 6)

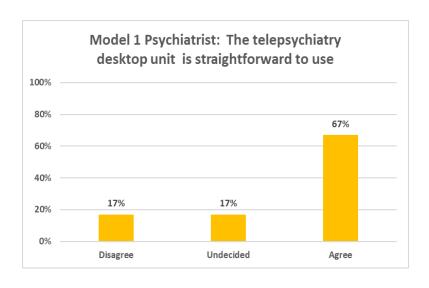


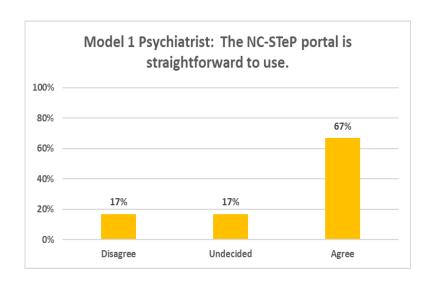


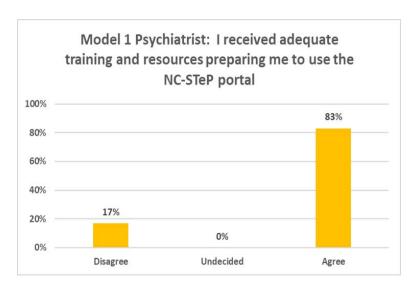


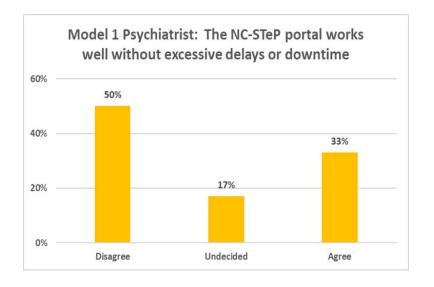


Model 1 Provider Psychiatrist Results (n= 6)









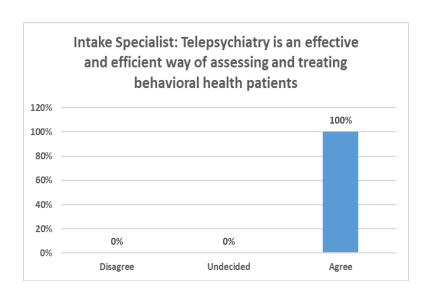
Model 1 Psychiatric Intake Specialist Results (n=8)

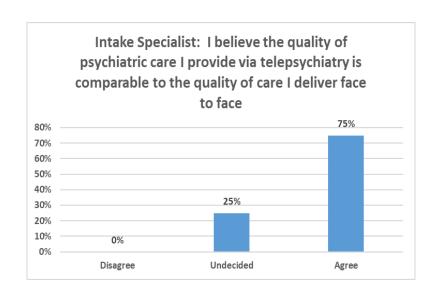


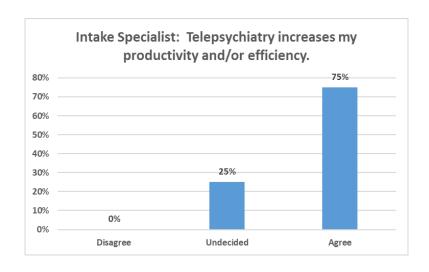


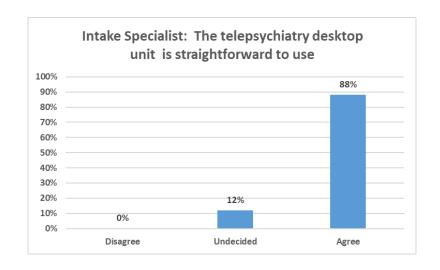


Model 1 Psychiatric Intake Specialist Results (n=8)

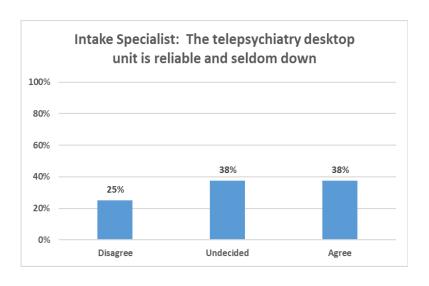


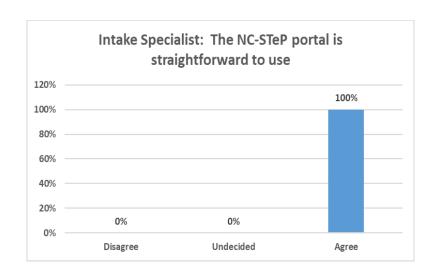


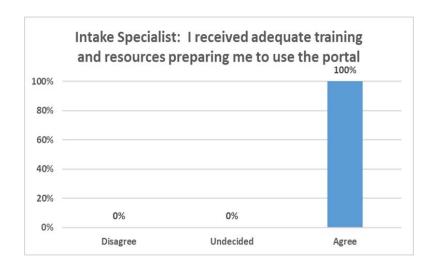


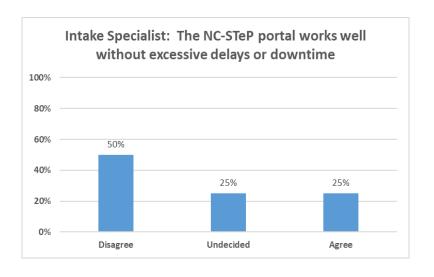


Model 1 Psychiatric Intake Specialist Results (n=8)

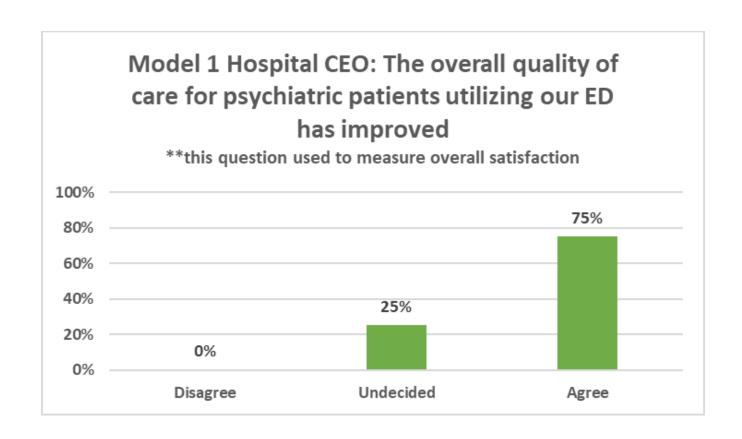








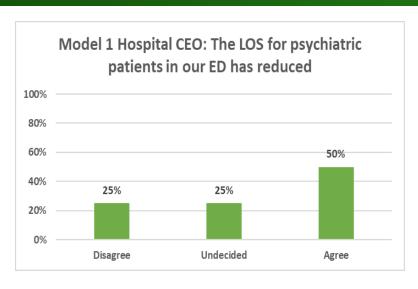
Model 1 CEO/CNO/CFO Results (n=4)

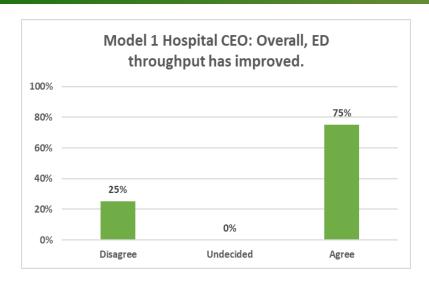




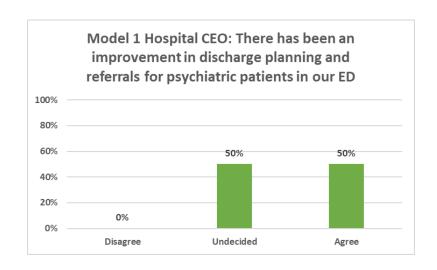


Model 1 CEO/CNO/CFO Results (n=4)

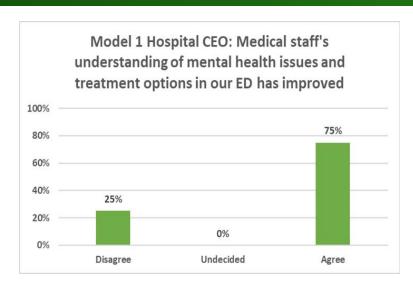


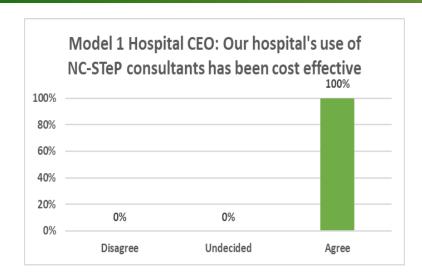


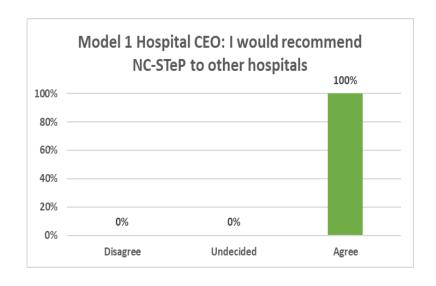


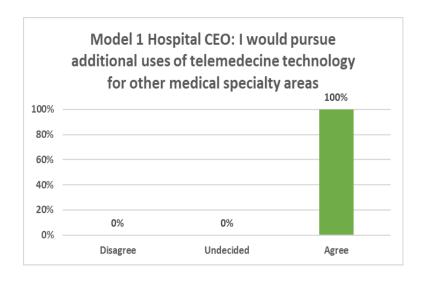


Model 1 CEO/CNO/CFO Results (n=4)



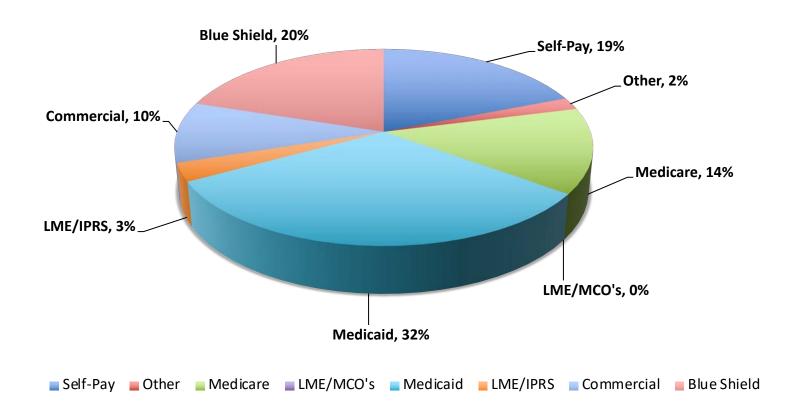






NC-STeP Charge Mix

QTD FY2023 - Quarter 3

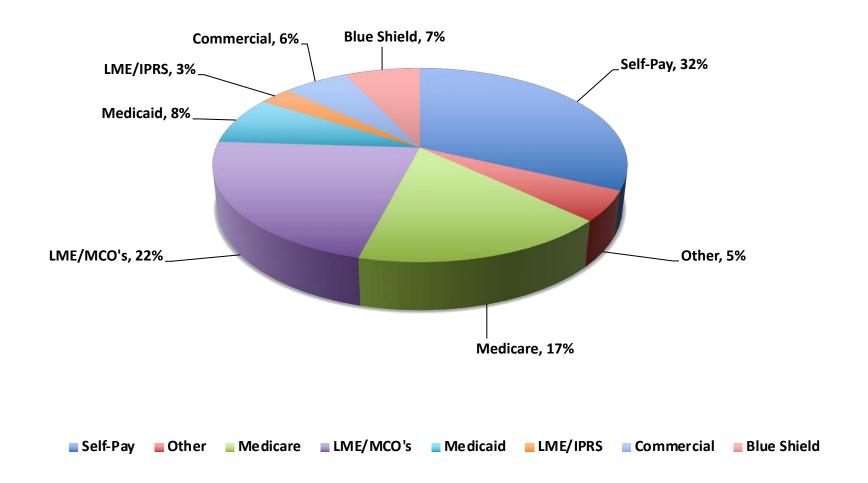






NC-STeP Charge Mix - Project to Date

Service Dates: October 1, 2013 - March 31, 2023







Community-Based Sites as of March 31, 2023

EVALUATION CRITERIA	VALUES/MEASURES REACHED AS OF 03/31/2023	
1. Number of full-time equivalent (FTE) providers supporting the program	1.5 FTEs	
2. Number of community-based sites contracted	22	
3. Number of patient visits with medical (psychiatric) doctor	249 PTD= 1,941	
4. Number of return visits	1,645 PTD= 13,926	
5. Number of patient visits with a mid-level provider	1,904 PTD= 15,925	
6. Number of new patient visits	508 PTD= 4,006	

NC-STeP Community Patient Visits

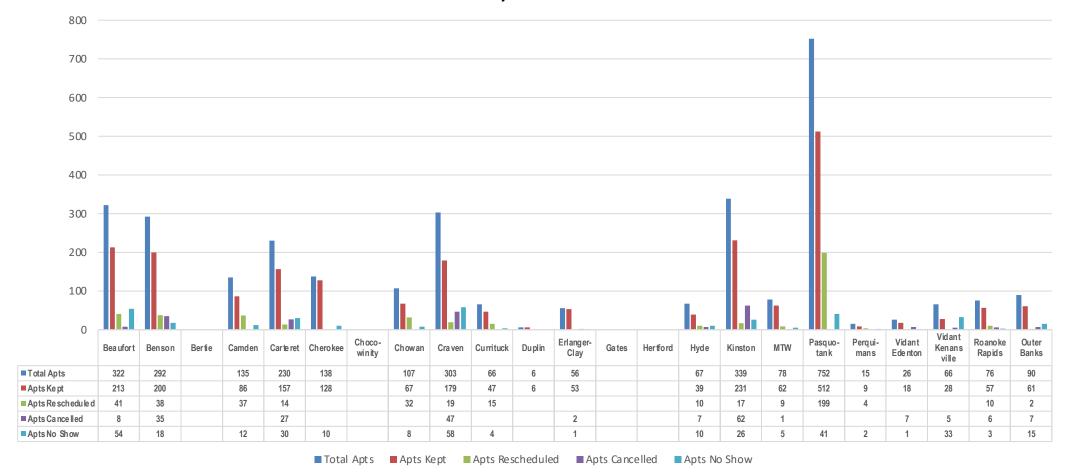
Patient Visits	Since project inception in October 2018	During Calendar Year 2018	During Calendar Year 2019	During Calendar Year 2020	During Calendar Year 2021	During Calendar Year 2022	During Quarter Jan- Mar 2022
With Medical Doctor	1,941	8	536	265	316	567	249
With Mid-Level Provider	15,925	7	2,006	3,217	4,122	4,670	1,904
Total Patient Visits	17,971	15	2,633	3,477	4,440	5,253* 17 visits did not specify provider	2,153





NC-STeP Appointment by Site

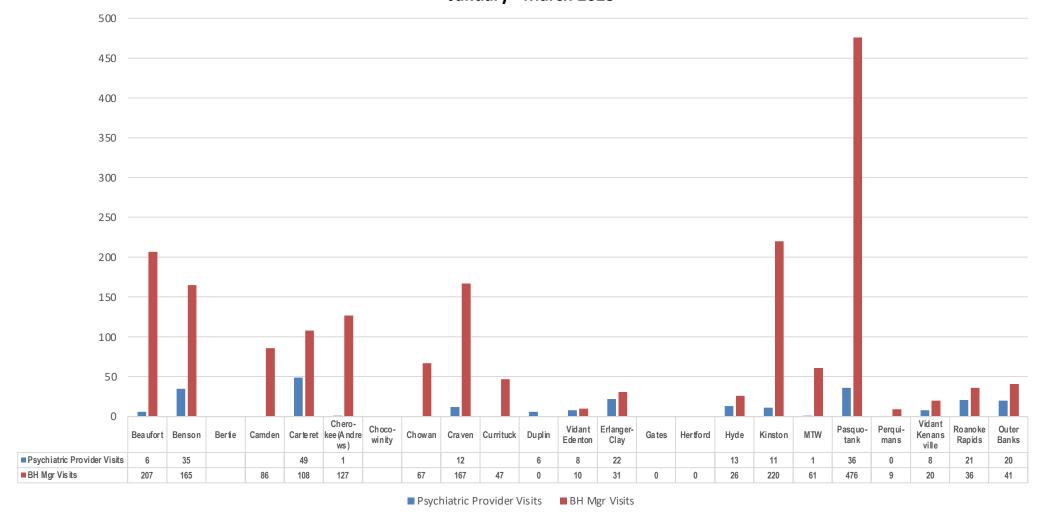
Appointments, Visits Kept, Rescheduled, Cancelled, No Show January - March 2023







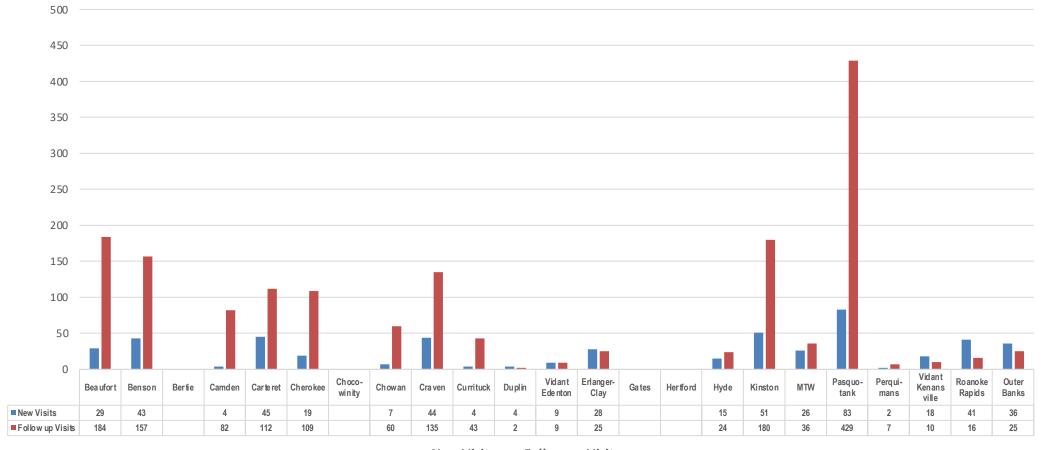
NC-STeP Community Visits by Site by Provider Type January - March 2023







NC-STeP Community Visits by Site New and Follow-Up January - March 2023









NC-STeP Status as of March 31, 2023

- 37 hospitals in the network. 36 live.
- 58,225 total psychiatry assessments since program inception
- 9,747 IVCs overturned
 - Cumulative return on investment = \$52,633,800
 (savings from preventing unnecessary hospitalizations)
- Four Clinical Provider Hubs with 59 consultant providers
- 32% of the patients served had no insurance coverage





NC-STeP Status as of March 31, 2023

- 22 community-based sites.
- 17,866 total patient visits since program inception in October 2018.
 - 1,941 total patient visits with a psychiatrist
 - 15,925 total patient visits with a mid-level provider





Contact

Sy Atezaz Saeed, MD, MS, FACPsych

Professor and Chair Emeritus

Department of Psychiatry and Behavioral Medicine

Brody School of Medicine | East Carolina University

Executive Director

North Carolina Statewide Telepsychiatry Program (NC-STeP)

Phone: 252.744.2660 | e-mail: saeeds@ecu.edu

Website: http://www.ecu.edu/psychiatry

Mail: 600 Moye Boulevard, Suite 4E-65,

Greenville, NC 27834



