

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, November 29, 2023 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 August 28, 2023 Minutes
10:45- 11:45 a.m.	NC-STeP FY24-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/88462582831?pw d=NFAKQ9bKFurU9TC7sYmLn0KUQTCobY.1

Meeting ID: 884 6258 2831

Passcode: 505481





Advisory Council

1. Teresa Bowleg, MSN, RN

Chief Nursing Officer, Erlanger Murphy Medical Center

Scott W. Brown, MD, FACEP

NCCEP Board of Directors/ Harnett Heath System

3. John Bigger

Corporate Director of Behavioral Health, Cape Fear Velley Health

Joy Futrell, MBA

Chief Executive Officer, Trillium Health Resources

5. Katy Kranze

Executive Director, North Carolina Psychiatric Association

Gary R. Maslow, MD,

Professor of Psychiatry and Behavioral Sciences, Duke Health

7. Keith McCoy, MD

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

8. Shakeerah McCoy, MSN,RN,PCCN

Director, Rural Health Innovation

9. Sy Atezaz Saeed, MD, MS,

Professor and Chair Emeritus, Department of Psychiatry and Behavioral Medicine, ECU Brody School of Medicine
Founding 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

Ex Officio Members

- Ryan Baker, NC-STeP/ECU
- Renee Clark, MSW, DHHS-ORH
- 3. Sheila Davies, Ph.D., NC-STeP/MedAccess Partners
- 4. Phil Donahue, NC-STeP/MedAccess Partners
- 5. Nick Galvez, DHHS-ORH
- 6. Katherine Jones, Ph.D., NC-STeP/ECU
- 7. Maggie Sauer, DHHS-ORH

NC-STeP Quality Management and Outcomes Monitoring Processes: July – September 2023

- 29 hospitals were live
- 21 hospitals reporting Telepsychiatry patients in their ED
 - not all live hospitals had telepsychiatry patients
- Total number of assessments for this quarter = 1,139
- Total number of encounters for this quarter = 1,008





NC-STeP Quality Management and Outcomes Monitoring Processes: July - September 2023

- The Median Length of Stay was 39.5 hours
- The Average Length of Stay was 71.0 hours
 - 63.5 hours for those discharged to home
 - 59.9 hours for those transferred to another facility
- Average Consult Elapsed Time (in Queue to Exam Complete) for Model 1 hospitals was 5 hours and 29 minutes.





NC-STeP Quality Management and Outcomes Monitoring Processes: July - September 2023

- 771 ED patients who received telepsychiatry services had an IVC in place during their ED stay.
 - 311 (40.3%) of those patients did not have an IVC in place when discharged.
- Of the ED patients who received telepsychiatry services:
 - 46% were discharged to home
 - 40% were discharged to another facility





NC-STeP Quality Management and Outcomes Monitoring Processes: July - September 2023

- 22 Community based sites were live as of 09/30/2023.
- 2,045 total behavioral health visits.
 - 173 visits with a Psychiatrist.
 - 1,872 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	47,025	880	925	1,008	
Model 1 Hospital Patient Encounters	29,681	828	861	940	
Model 2 Hospital Patient Encounters	17,344	52	64	68	
Total Number of Assessments (Billed Assessments for Model 1 Hospitals + Number of Patient Encounters for Model 2 Hospitals)	60,403	1,027	1,019	1,139	

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	47,025	1,240	1,325	1,350	1,209
Model 1 Hospital Patient Encounters	29,681	802	873	894	759
Model 2 Hospital Patient Encounters	17,344	438	452	456	450
Total Number of Assessments (Billed Assessments for Model 1 Hospitals + Number of Patient Encounters for Model 2 Hospitals)	60,403	1,532	1,563	1,506	1,322

NC-STeP Benchmarks

	Goals	Values Reached		
NC-STeP	Cumulative Target to be reached by (06/30/2024)	Value Reached as of most recent previous quarter (06/30/2023)	Value Reached as of this reporting quarter (09/30/2023)	Year-to-Date Total with % of the Yearly Target (09/30/2023)
Number of IVCs	2,229	695	771	771 34.6% of Y
Number of IVCs Overturned	1,113	303	311	311
Total Number of Assessments (Billed assessments for Model 1 hospitals	3,400	1,019	1,139	28% of Yea
+ Number of patient encounters for Model 2 hospitals.)				33.5% of Y

EVALUATION CRITERIA	BASELINE VALUES/MEASURES AS REPORTED ON 06/30/2023	TARGET TO BE REACHED BY 06/30/2024	VALUES/MEASURES REACHED AS OF 09/30/2023
The number of full- time equivalent (FTE) positions supported by these contracts	4.30 FTEs	5.30 FTEs	4.30 FTEs
2. The number of overturned involuntary commitments (inpatient admission prevented)	1,249	1,133	311 in this quarter Cumulative total since program inception 10,367
The number of participating consultant providers	23	20	23





EVALUATION CRITERIA	BASELINE VALUES/MEASURES AS REPORTED ON 06/30/2023	TARGET TO BE REACHED BY 06/30/2024	VALUES/MEASURES REACHED AS OF 09/30/2023
4. The number of telepsychiatry assessments conducted.	4,824	3,400	1,139 in this quarter Cumulative total since program inception 60,403
5. The number of telepsychiatry referring sites	30	29	29
6. The reports of involuntary commitments to enrolled hospitals	3,123	2,229	771 in this quarter Cumulative total since program inception 28,644





EVALUATION CRITERIA	BASELINE VALUES/MEASURES AS REPORTED ON 06/30/2023	TARGET TO BE REACHED BY 06/30/2024	VALUES/MEASURES REACHED AS OF 09/30/2023
7. The average (mean) Length of Stay for all patients with a primary mental health diagnosis across all dispositions.	61.0 hours	72.25 hours	QTD Average = 71.0 QTD Median = 39.5
8. Cumulative return on investment to state psychiatric facilities through overturned involuntary commitments. (inpatient admission prevented)	\$6,744,600	\$5,929,200	QTD = \$1,679,400 Project-to-date = \$55,927,800





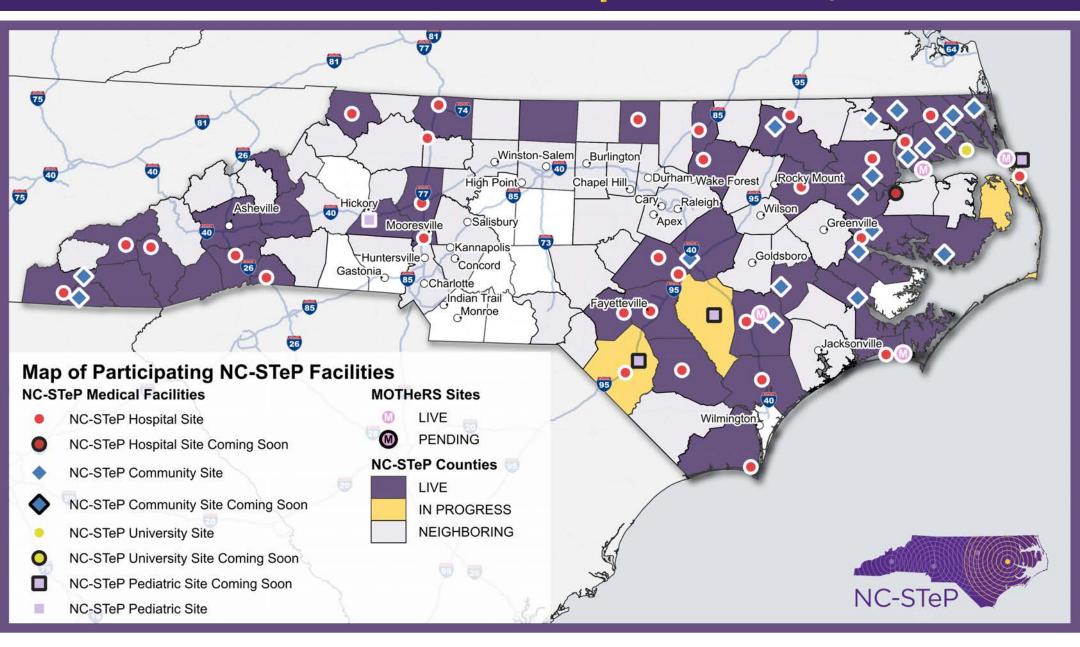
COMMENTS/EXPLANATIONS:

Evaluation Criteria #2, #4, and #6:

PTD totals were adjusted upwards to include 15 assessments for 2023 Q3 Jan-Mar 23 and 34 for 2023 Q4 Apr-June 2023 that were submitted too late to be included in their respective reports, for an increase of 49 assessments, 29 IVCs and 10 overturned IVCs.

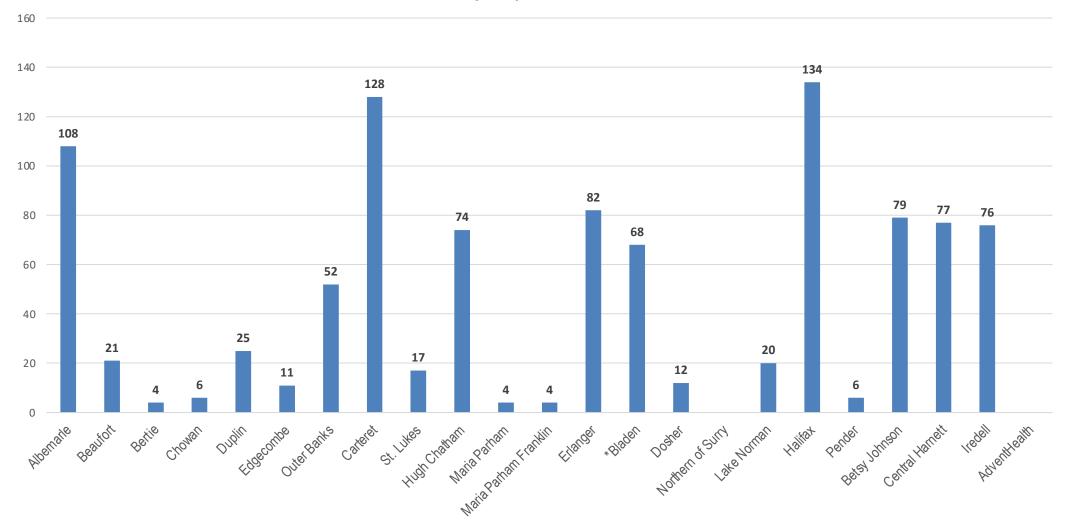






Number of NC-STeP Patients by Hospital

July - September 2023

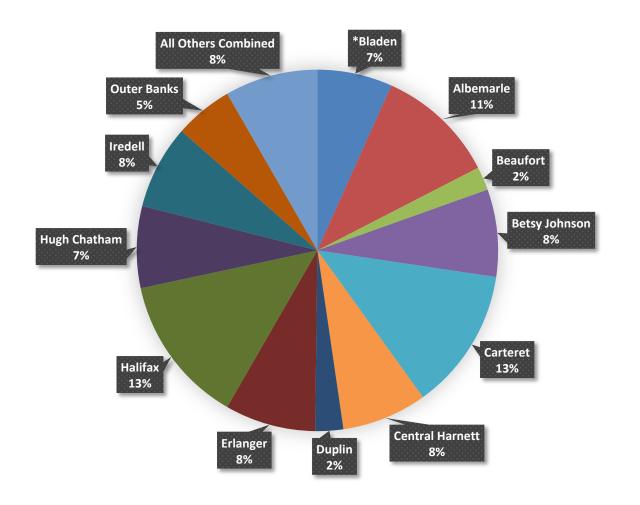






Percent of Use by Hospital for Model 1 and Model 2 Jul - Sep 2023

(based on number of patients)



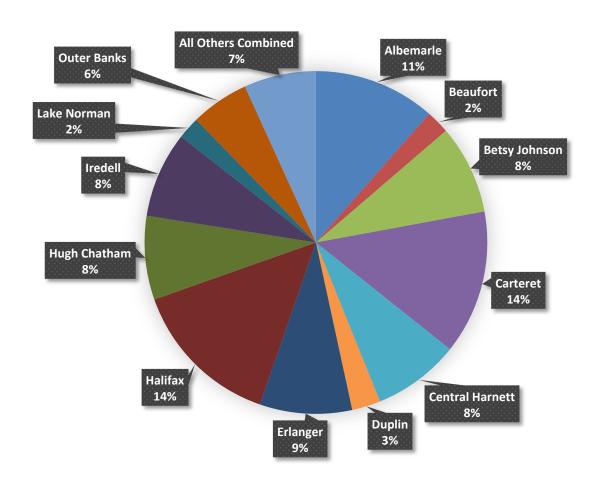


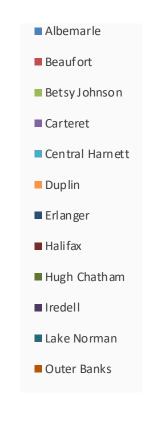




Percent of Use by Hospital for Model 1 Jul - Sep 2023

(based on number of encounters)

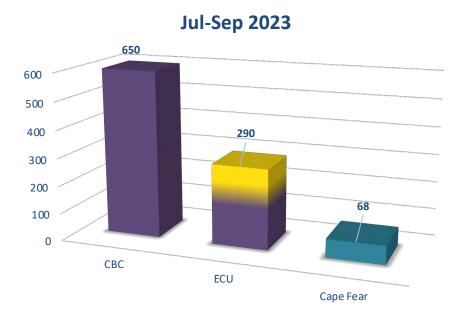




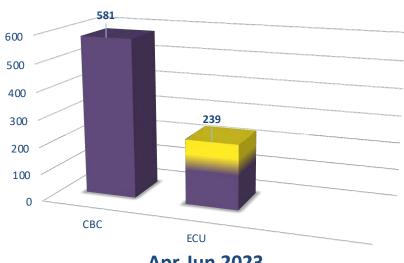




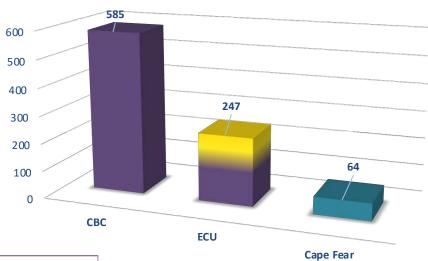
Number of Patients by Provider (Model 1)







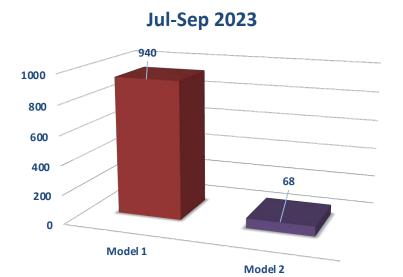
Apr-Jun 2023



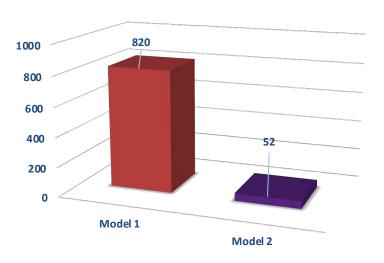




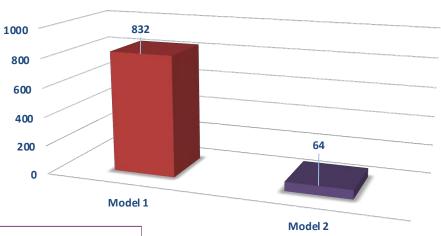
Number of Patients by Model



Jan-Mar 2023

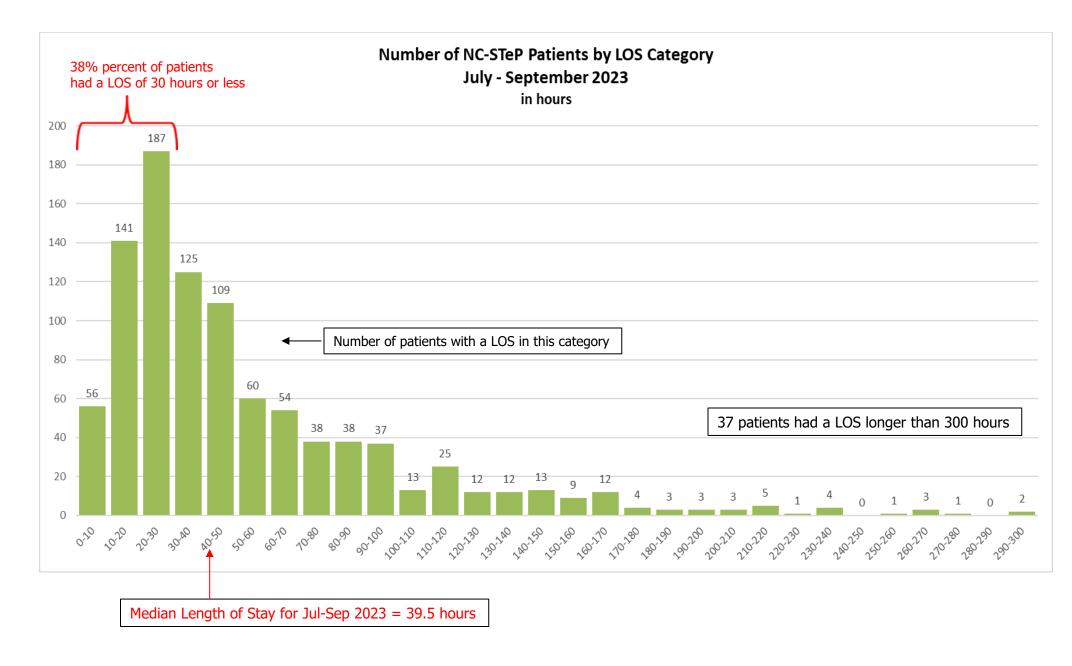


Apr-Jun 2023



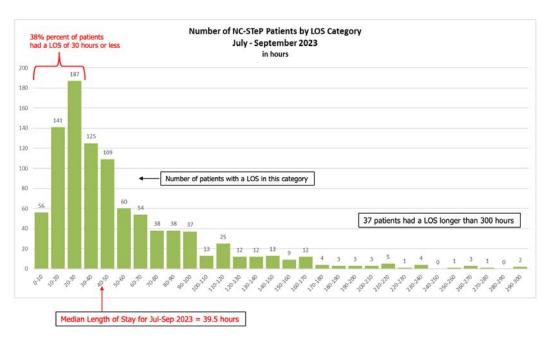


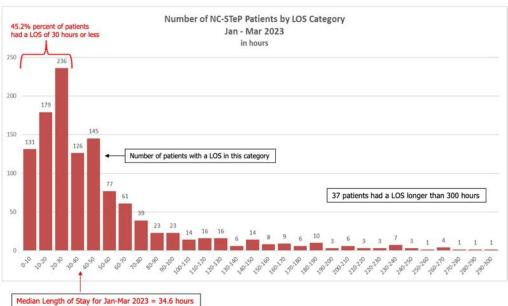


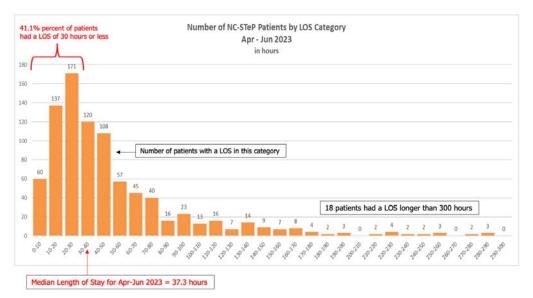






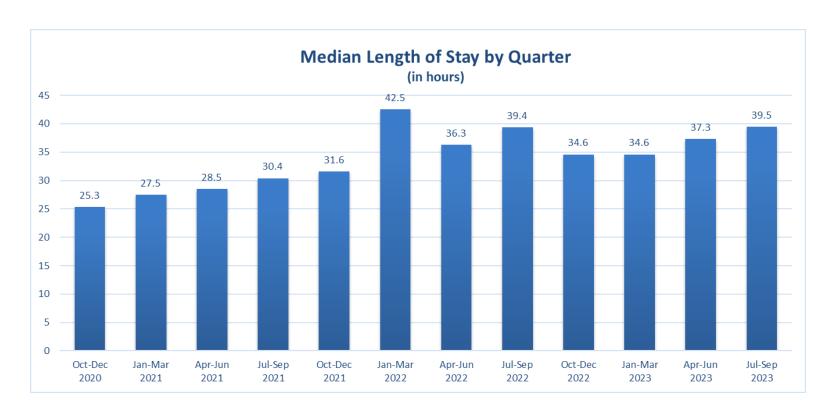






















*Indicates average was adjusted to include back data

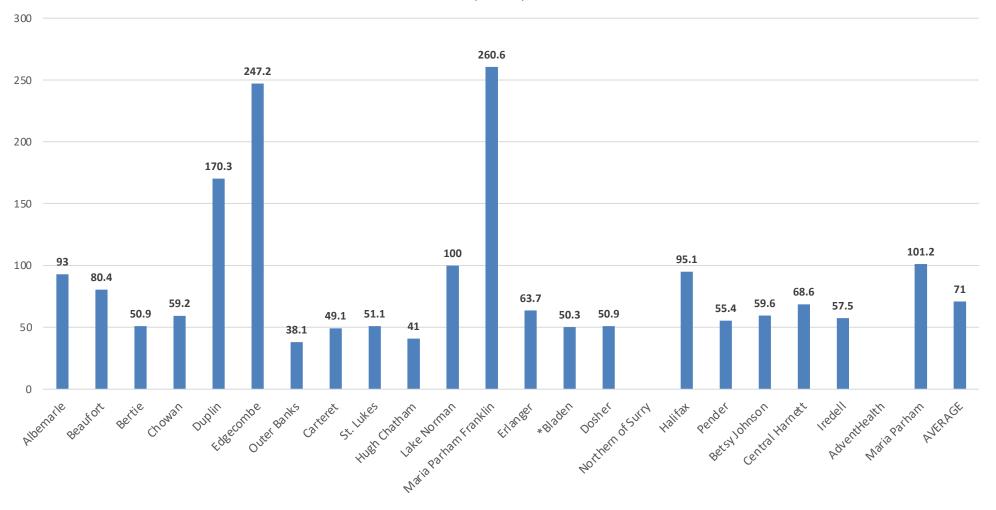




Average Length of Stay for NC-STeP Patients by Hospital

July - September 2023

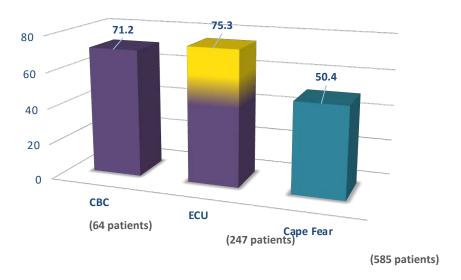
(in hours)



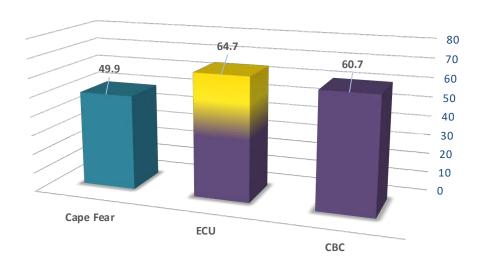




Jul-Sep 2023 (in hours)



Apr-Jun 2023 (in hours)

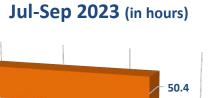


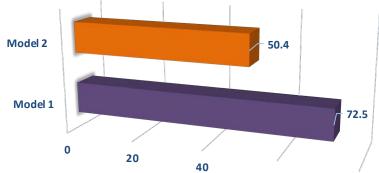
Average Length of Stay by Provider



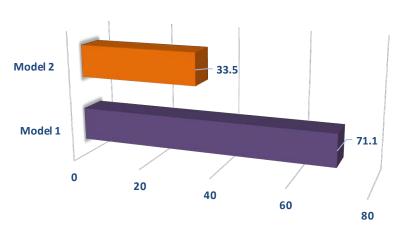


Average LOS by Model

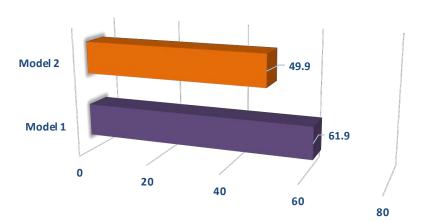




Jan-Mar 2023 (in hours)



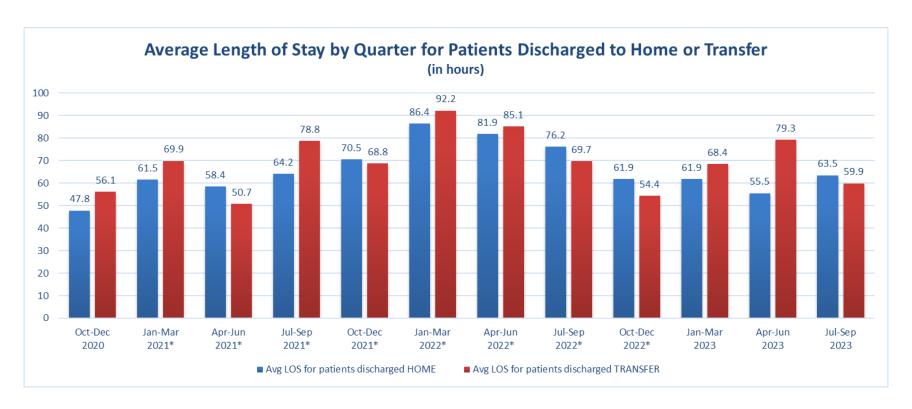
Apr-Jun 2023 (in hours)

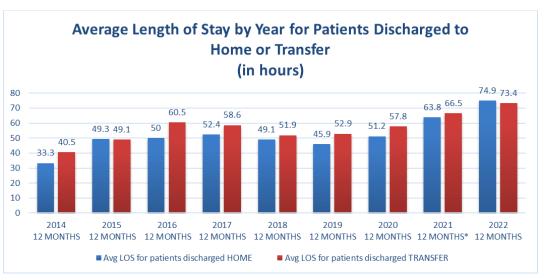




80

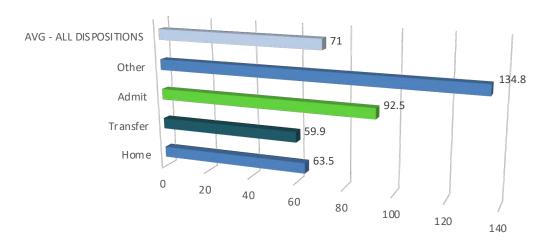




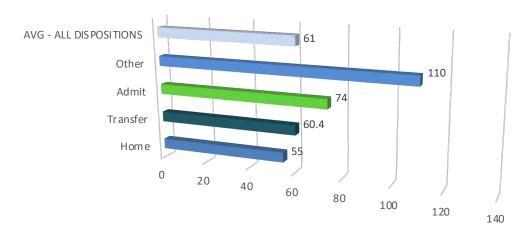


*Indicates average was adjusted to include back data

Jul - Sep 2023 (in hours)



Apr - Jun 2023 (in hours)



Average LOS by Discharge Disposition





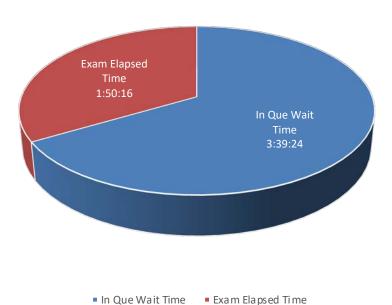
Consult Elapsed Time: July - September 2023

CBC & ECU

Average Consult Exam Elapsed Time
In Que to Exam Complete

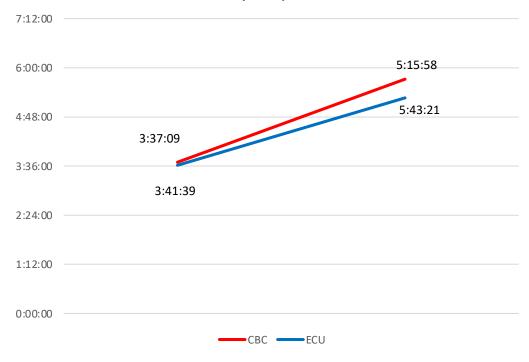
FY24-Q1 July - September 2023

(5 hrs. 29 min. 40 29 sec.)



Comparison CBC & ECU Average Consult Exam Elapsed Time In Que to Exam Complete

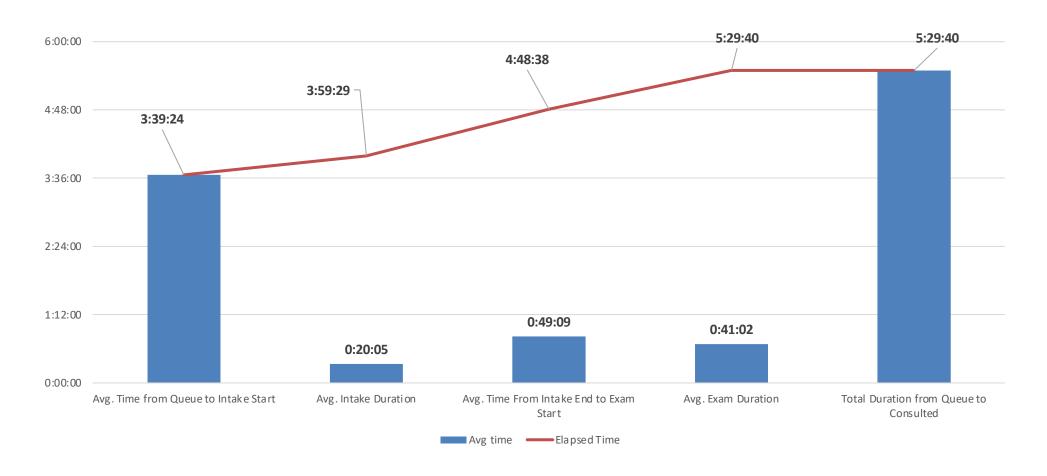
FY24-Q1 July - September 2023







Key Processes and Elapsed Times Averages CBC and ECU: July - September 2023

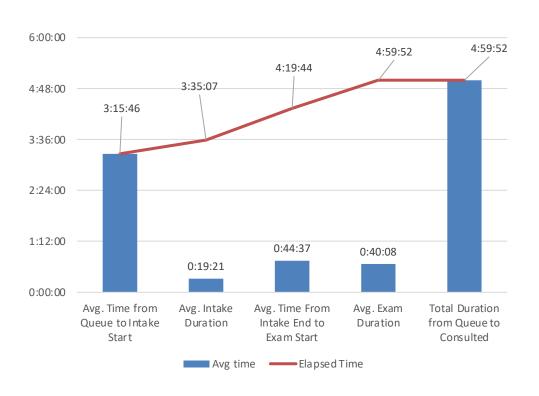




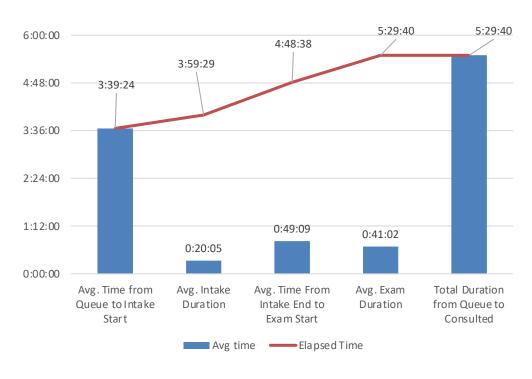


Key Processes and Elapsed Times Averages (CBC and ECU)

April - June 2023



July - September 2023

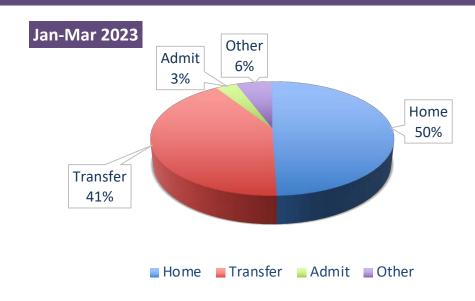


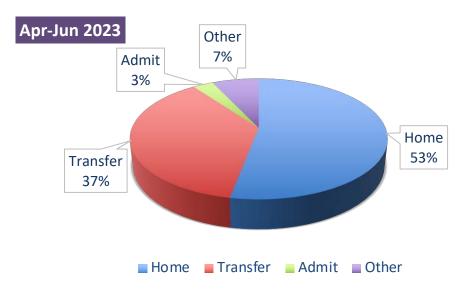




Percent of Patients by Discharge Disposition







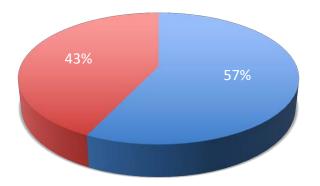




Jul-Sep 2023

40%

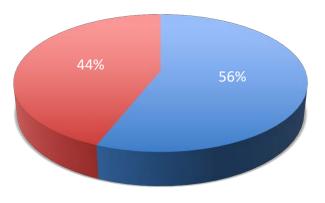
Jan-Mar 2023



IVCs – By Release Status

- IVCs percent not released
- IVCs percent released

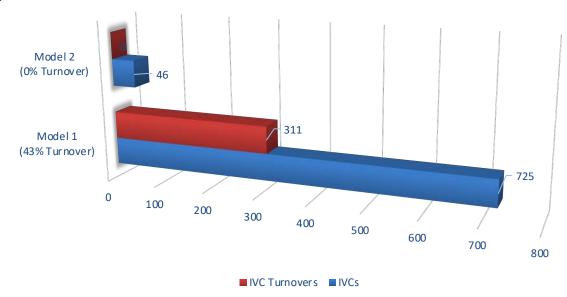
Apr-Jun 2023



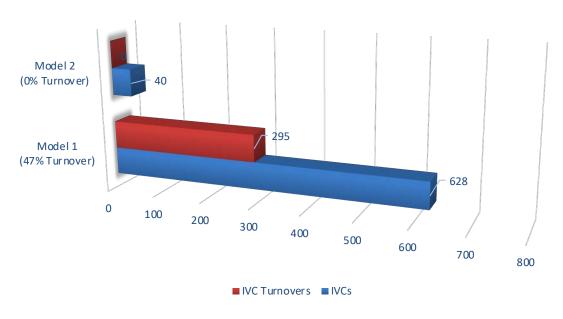




Jul-Sep 2023



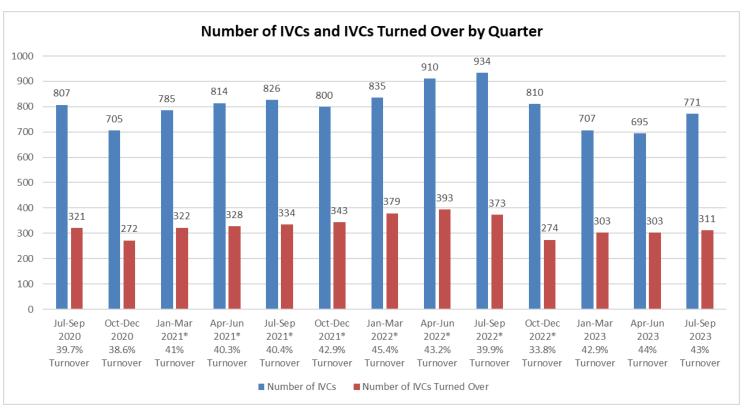
Apr-Jun 2023

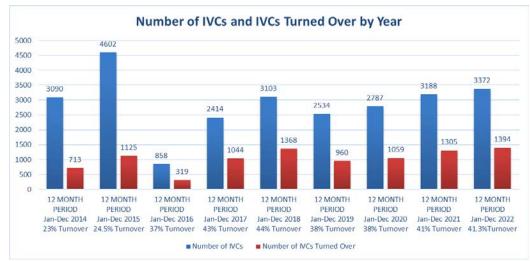


Number of IVCs and IVC Turnovers by Model





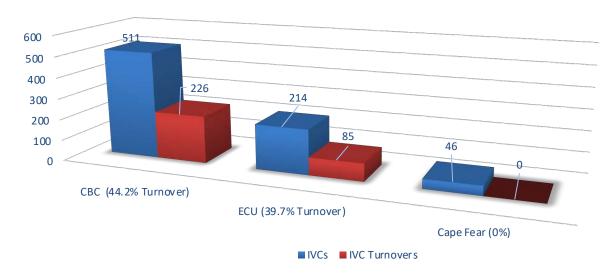




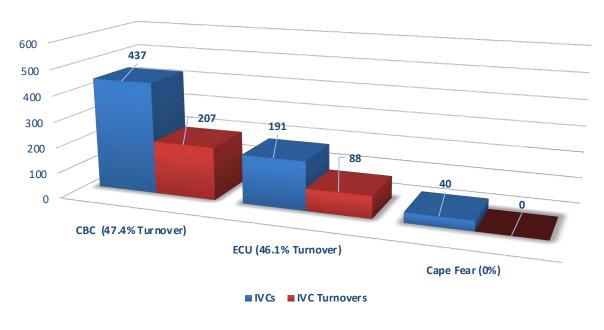




Jul-Sep 2023



Apr-Jun 2023



Number of IVCs and IVC Turnovers by Provider





Satisfaction Surveys

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





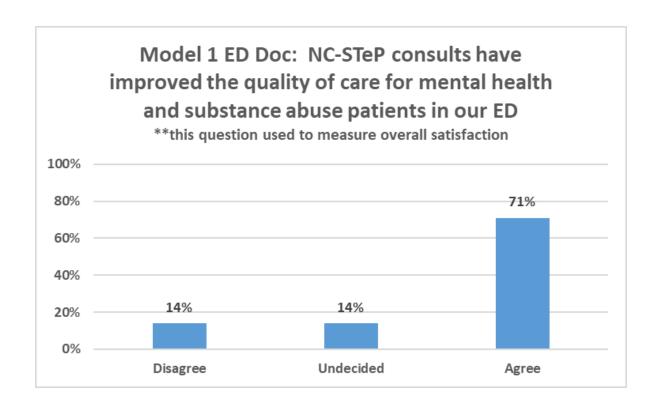
Satisfaction Surveys Methodology

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





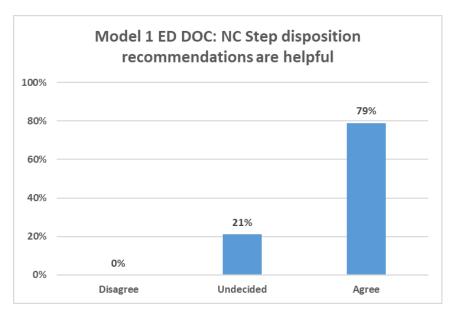
Model 1 Hospital ED Physicians Results (n=14)

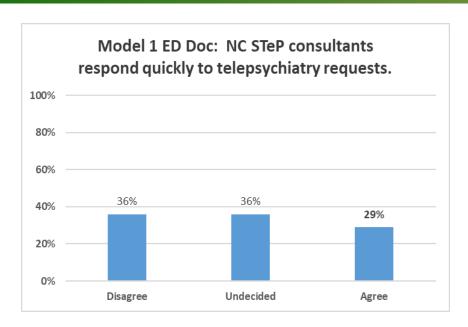


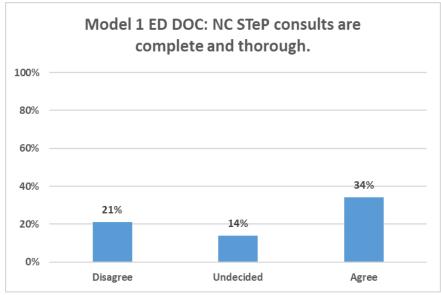


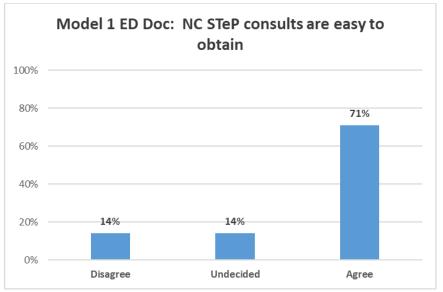


Model 1 Hospital ED Physicians Results (n=14)

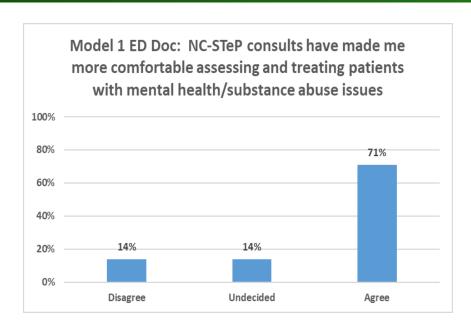


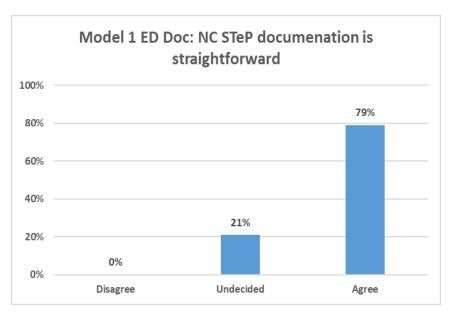


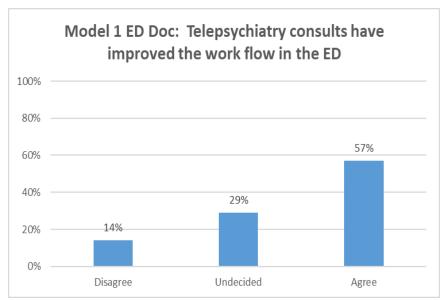




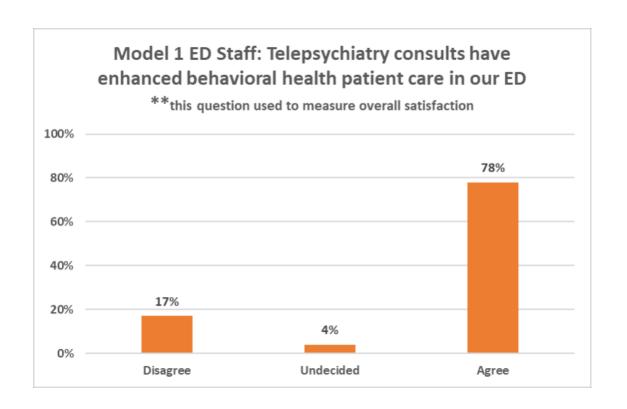
Model 1 Hospital ED Physicians Results (n=14)







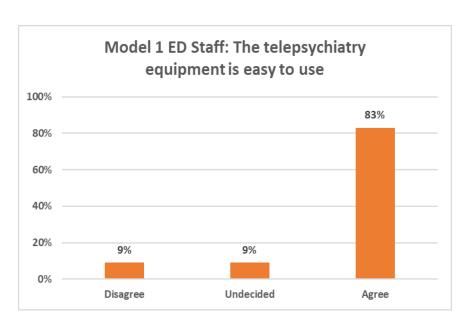
Model 1 Hospital ED Staff Results (n=23)

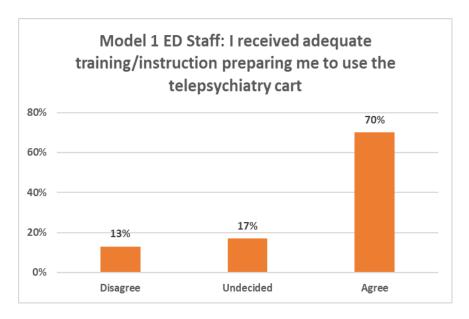


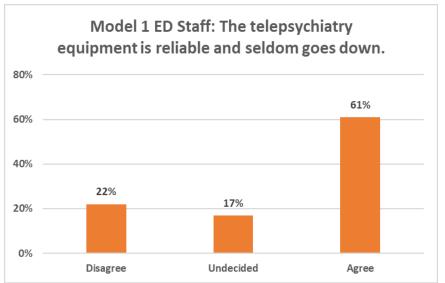


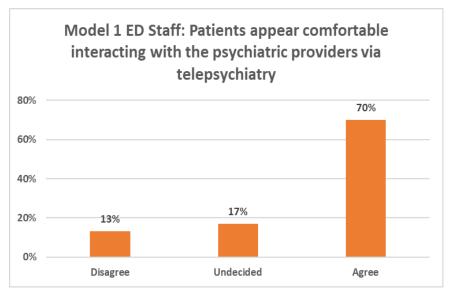


Model 1 Hospital ED Staff Results (n=23)

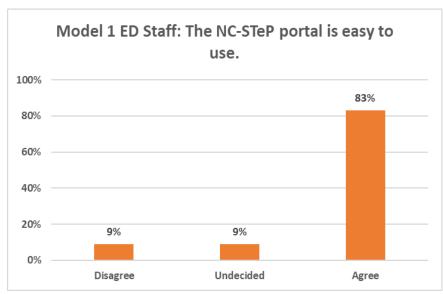


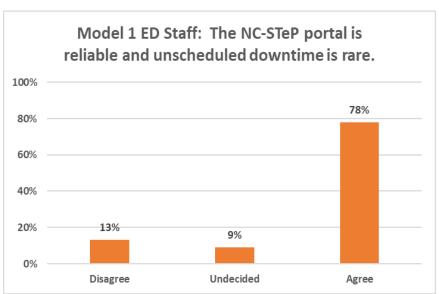


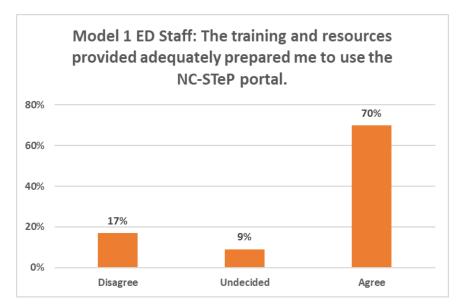


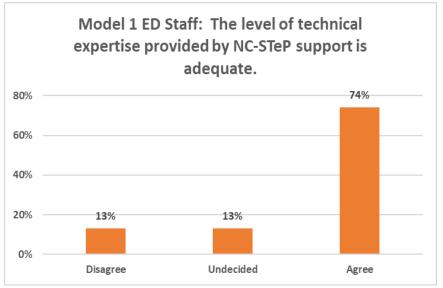


Model 1 Hospital ED Staff Results (n=23)

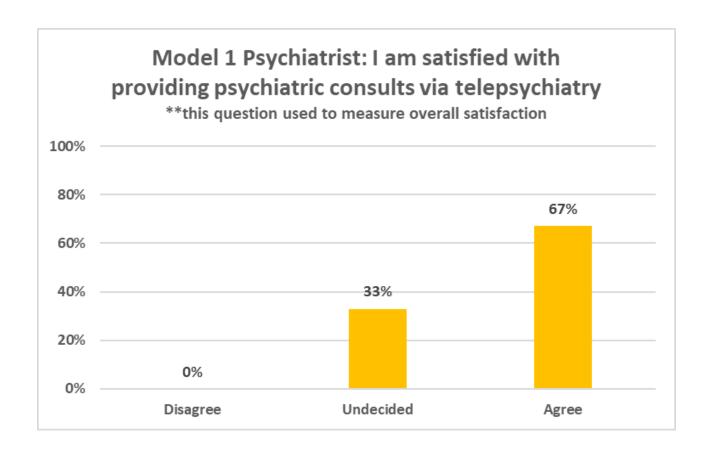








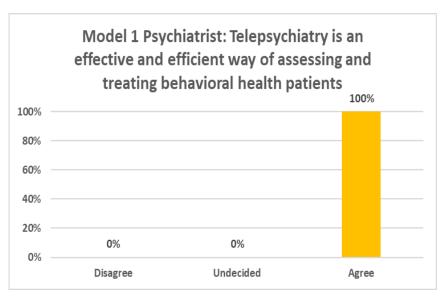
Model 1 Provider Psychiatrist Results (n= 3)

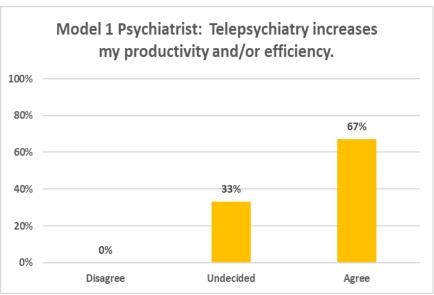


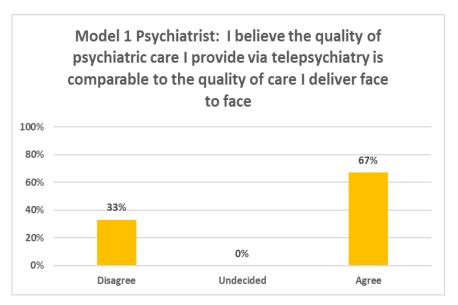


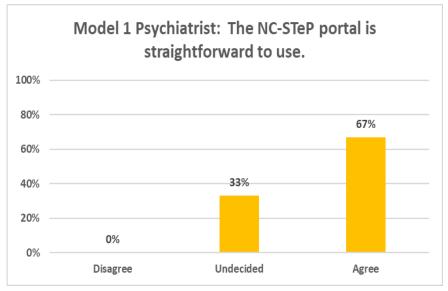


Model 1 Provider Psychiatrist Results (n= 3)

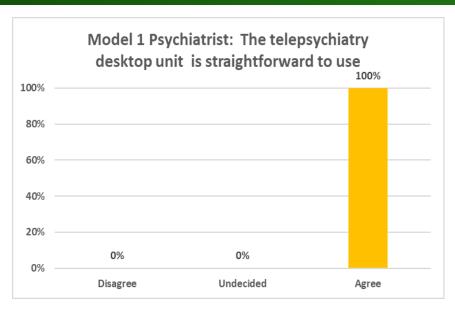


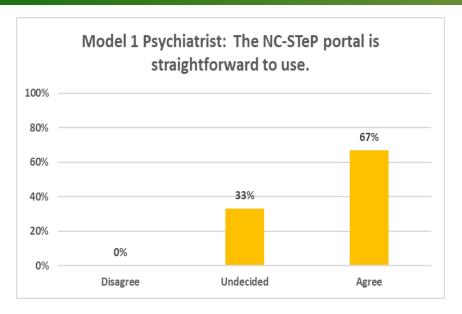


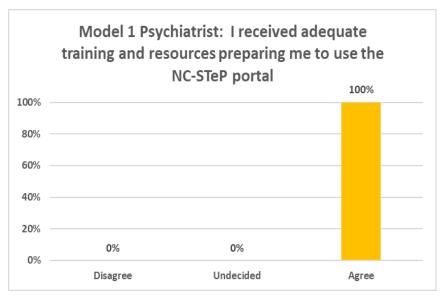


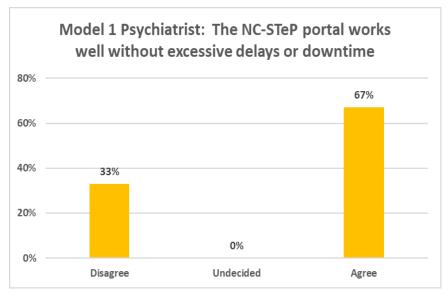


Model 1 Provider Psychiatrist Results (n= 3)

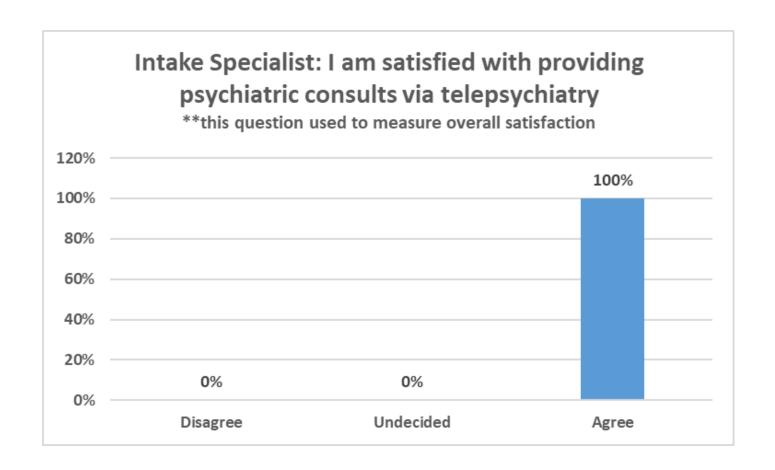








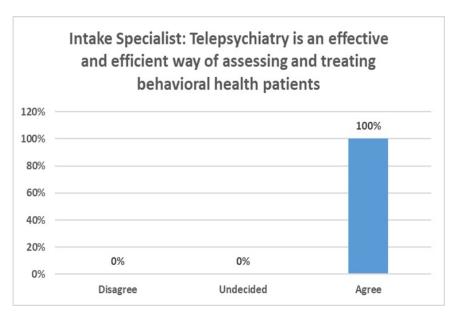
Model 1 Psychiatric Intake Specialist Results (n=6)

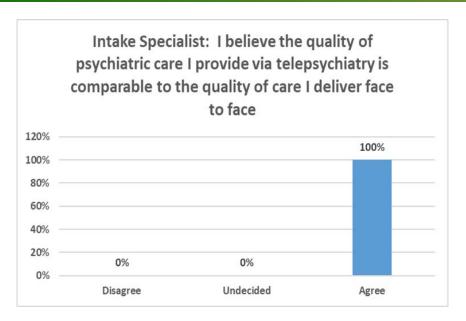


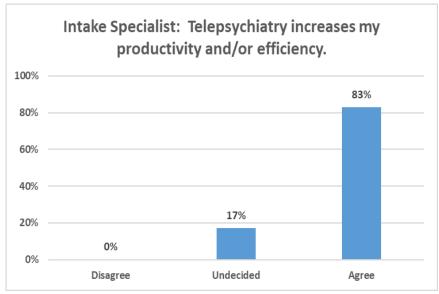


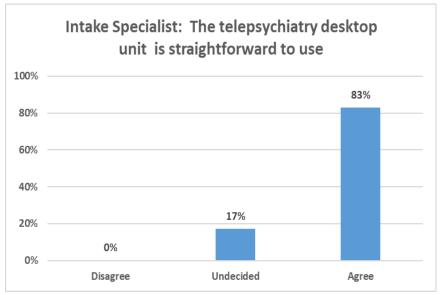


Model 1 Psychiatric Intake Specialist Results (n=6)

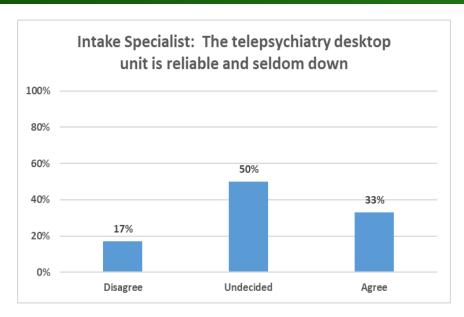


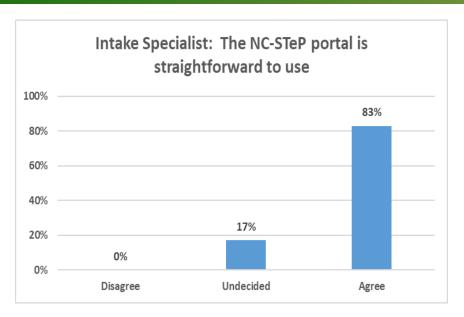


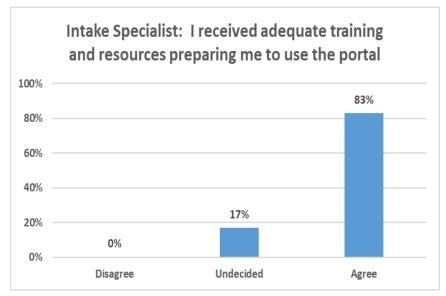


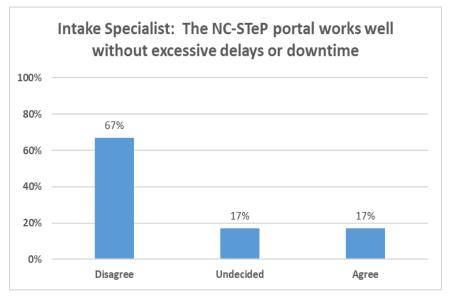


Model 1 Psychiatric Intake Specialist Results (n=6)









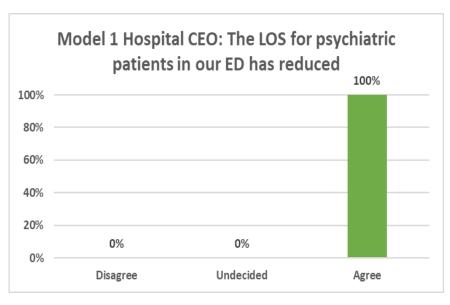
Model 1 CEO/CNO/CFO Results (n=6)

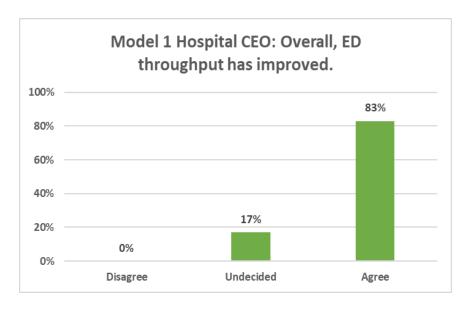


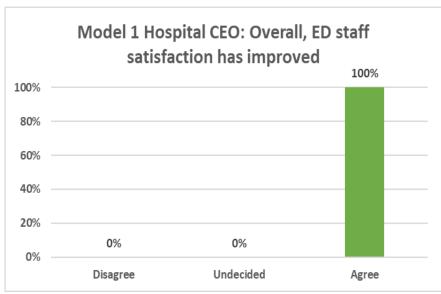


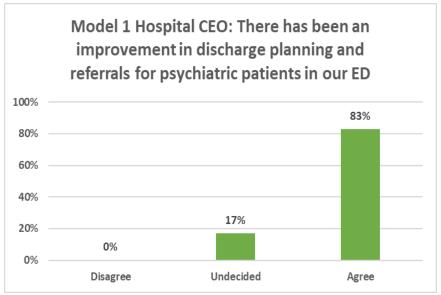


Model 1 CEO/CNO/CFO Results (n=6)

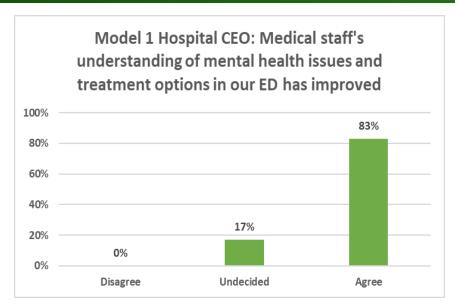


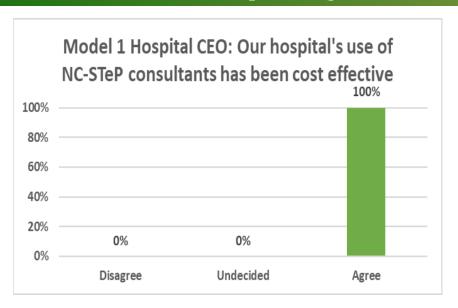


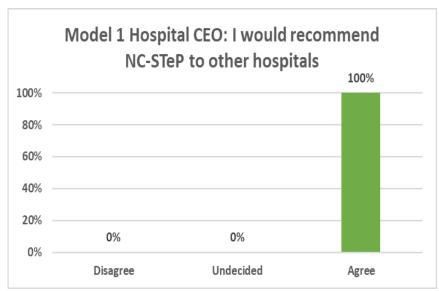


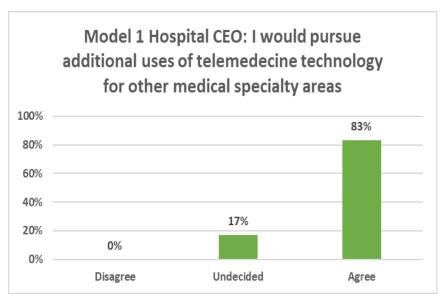


Model 1 CEO/CNO/CFO Results (n=6)



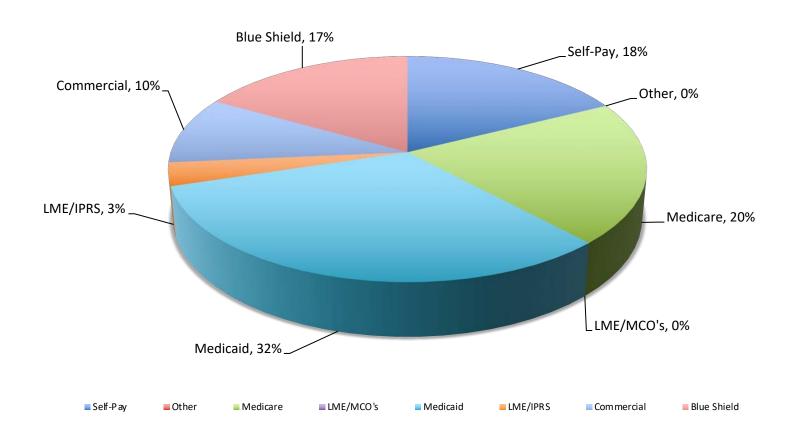






NC-STeP Charge Mix

QTD FY2024 - Quarter 1

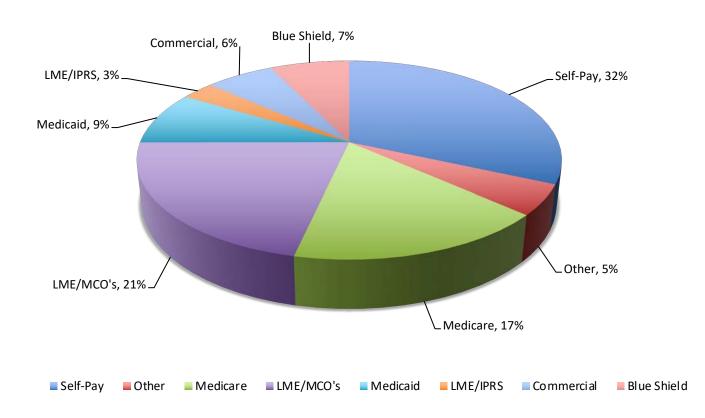






NC-STeP Charge Mix - Project to Date

Service Dates: October 1, 2013 – September 30, 2023





Community-Based Sites as of September 30, 2023

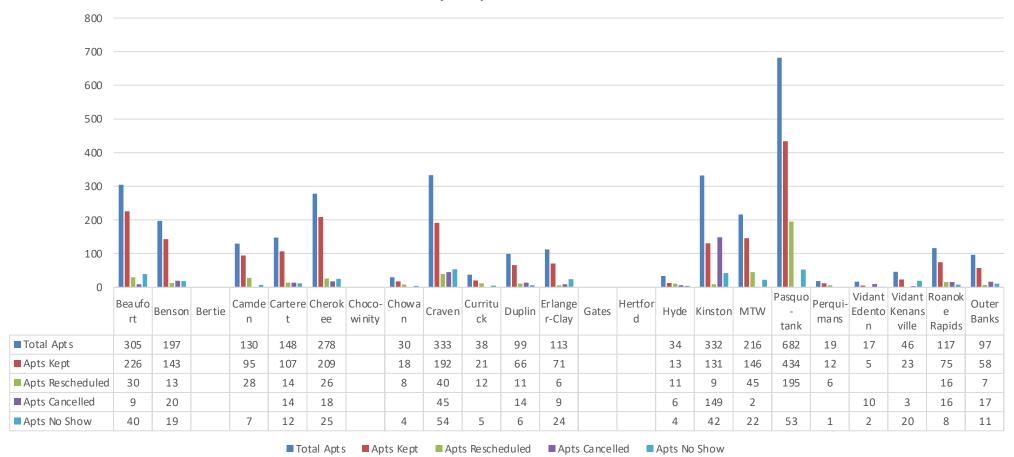
EVALUATION CRITERIA	VALUES/MEASURES REACHED AS OF 09/30/2023
The number of full-time equivalent (FTE) providers supporting the program	1.3 FTEs
2. The number of community-based sites contracted	22
3. Number of patient visits with medical (psychiatric) doctor	173 PTD= 2,286
4. The number return visits	1,623 PTD= 17,145
5. The number of patient visits with a mid-level provider	1,872 PTD= 19,645
6. The number of new patient visits	419 PTD= 4,849

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 2023	During Quarter Apr- Jun 2023	During Quarter Jul- Sep 2023
With Medical Doctor	2,286	8	536	265	316	567	249	172	173
With Mid- Level Provider	19,646	7	2,006	3,217	4,122	4,670	1,904	1,848	1,872
Total Patient Visits	22,036	15	2,633	3,477	4,440	5,253* 17 visits did not specify provider	2,153	2,020* Adjusted for Duplin	2,045





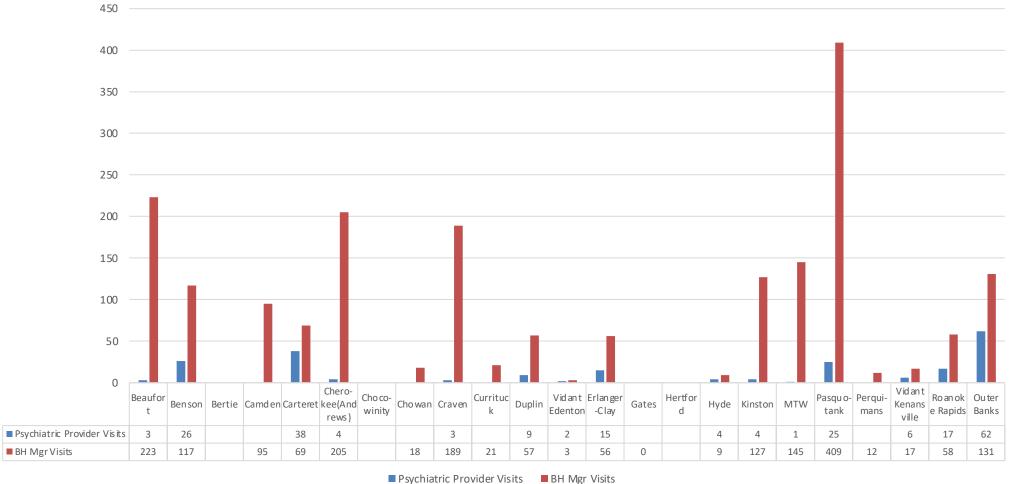
NC-Step Appointment by Site Appointments, Visits Kept, Rescheduled, Cancelled, No Show July - September 2023







NC-Step Community Visits by Site by Provider Type July - September 2023

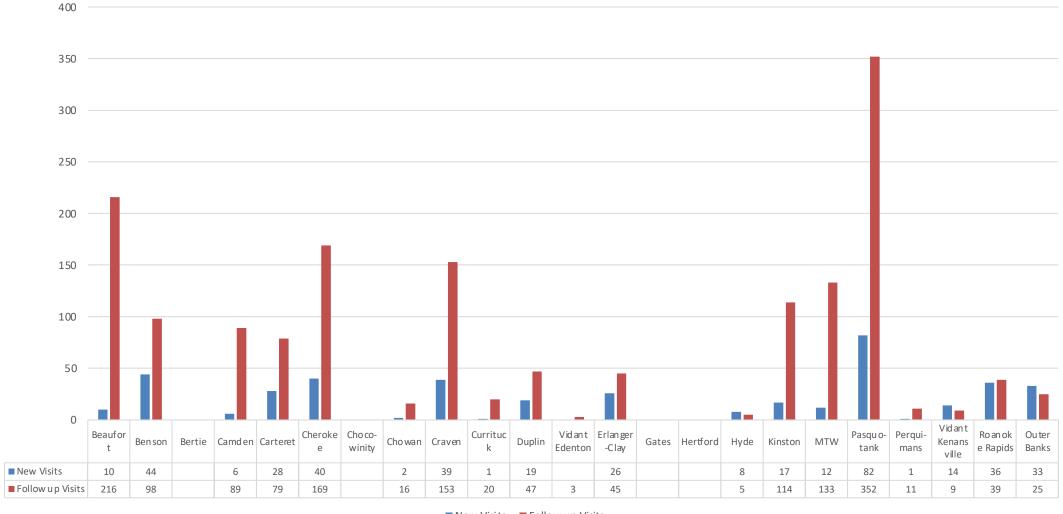








NC-STeP Community Visits by Site New and Follow-Up July - September 2023



■ New Visits ■ Follow up Visits





NC-STeP Status as of September 30, 2023

- 29 hospitals live
- 60,403 total psychiatry assessments since program inception
- 10,367 IVCs overturned
 - Cumulative return on investment = \$55,927,800
 (savings from preventing unnecessary hospitalizations)
- Three Clinical Provider Hubs with 23 consultant providers
- 32% of the patients served had no insurance coverage (since program inception)





NC-STeP Status as of September 30, 2023

- 22 community-based sites.
- 21,931 total patient visits since program inception in October 2018.
 - 2,286 total patient visits with a psychiatrist
 - 19,645 total patient visits with a mid-level provider





Model 1 - Live



Hospital Name	Contract Date	Portal Go Live
Vidant Outer Banks Hospital	10/01/2013	08/08/2016
Vidant Bertie Hospital	10/01/2013	08/15/2016
Vidant Chowan Hospital	10/01/2013	08/15/2016
Vidant Edgecombe Hospital	10/01/2013	08/15/2016
Sentara Albemarle Medical Center	10/01/2013	08/17/2016
Vidant Beaufort Hospital	10/01/2013	08/22/2016
Vidant Duplin Hospital	10/01/2013	08/22/2016
St Lukes Hospital	03/01/2014	09/07/2016
DLP Harris Regional Medical	07/01/2015	10/14/2016
DLP Swain Community Hospital	07/01/2015	10/14/2016
Erlanger Murphy Medical Center	05/01/2015	10/26/2016
DLP Maria Parham Medical Center	07/01/2015	11/15/2016
J. Arthur Dosher Memorial Hospital	04/01/2015	01/07/2017
Ashe Memorial Hospital	06/01/2015	01/26/2017
Northern Hospital of Surry County	11/01/2015	03/07/2017
Halifax Regional Medical Center	03/15/2015	08/08/2017
Southeastern Regional Memorial	05/01/2014	08/08/2017
DLP Person Memorial Hospital	07/01/2015	08/17/2017
Carteret	02/01/2023	04/01/2023

Model 1 - Live



Hospital Name	Contract Date	Portal Go Live
Pender Memorial Hospital	09/01/2014	12/07/2017
DLP Maria Parham Franklin	03/01/2018	02/01/2019
Central Harnett Hospital	07/01/2019	02/21/2020
Betsy Johnson Hospital	07/01/2019	02/21/2020
Iredell Hospital	09/01/2109	04/17/2020
Park Ridge Health	10/01/2018	10/27/20
Hugh Chatham Hospital	03/01/2020	12/8/20

Model 2



Hospital Name	Go Live Date/Status
Cape Fear Valley Medical Center	06/2014
Cape Fear Valley Bladen Hospital	07/2014
Cape Fear Valley Hoke Hospital	06/2016

Graduated



NC-STeP NC-STeP
Hospital Name
Martin County General
Nash General Hospital
Sampson
UNC Hillsborough
WakeMed Apex
WakeMed Briar Creek
WakeMed Cary
WakeMed Garner
WakeMed North Healthplex
WakeMed Raleigh
WakeMed Raleigh Children's ED
WakeMed Psychiatric Observation Unit
DLP Haywood Hospital
Novant Brunswick
Novant Forsyth Medical
Novant Presbyterian Hospital
Novant Thomasville
Cone Health MedCenter High Point
Annie Penn Hospital
Women's Hospital – Cone Health
UNC Johnson – Clayton

No Information Available



Hospital Name	Program Status	NC-STeP Model
Caldwell Memorial	TBD	TBD
Cherokee Indian Hospital	TBD	TBD
New Hanover	TBD	TBD
Novant Franklin Medical	TBD	TBD
Onslow Memorial	TBD	TBD
Scotland Health	TBD	TBD
Wilkes Regional Medical	TBD	TBD

Community Based Site Report as of September 30, 2023

Under Contract



Albemarle Regional Health Services – Camden	Aug-18	Live
Albemarle Regional Health Services – Pasquotank	Aug-18	Live
Hyde County Health Department	Aug-18	Live
Martin County Health Department	Aug-18	Live
Craven County Health Department	Apr-19	Live
Duplin County Health Department	May-19	Live
Albemarle Regional Health Services – Gates	Nov-19	Live
Erlanger Health – Andrews	Aug-20	Live
Beaufort County Health Department	Sep-20	Live
Albemarle Regional Health Services – Chowan	Nov-19	Live
Albemarle Regional Health Services – Currituck	Nov-19	Live
Albemarle Regional Health Services – Perquimans	Nov-19	Live
Albemarle Regional Health Services – Bertie	Nov-19	Live
Albemarle Regional Health Services – Hertford	Nov-19	Live
Vidant Family Medicine – Chocowinity	Jan-21	Live
Carteret OB-GYN Associates, PA	Jan-21	Live
ECU Health Women's Edenton (Broad St.)	Dec-21	Live
ECU Health Women's Edenton (Earnhardt Dr.)	Apr-21	Live
ECU Health Women's Kenansville	Dec-21	Live
Benson Health	Mar-22	Live
ECU Health Kinston	Mar-22	Live
Roanoke Rapids	Jun-22	Live
Outer Banks Women's Care	Jul-22	Live

Community Based Site Report as of September 30, 2023

Terminated



Hospital Name	Contract Start Date	Termination Date
Macon County Health Department	February 2019	July 2020
Wilson County Health Department	February 2020	May 2021

Contact

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