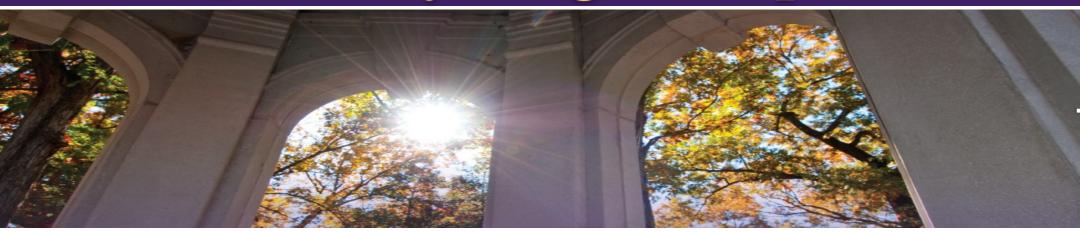


Quarterly Progress Update



Sy Atezaz Saeed, MD, MS, FACPsych,

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

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





NC-STeP Advisory Council Meeting Friday, June 25, 2021

10:00 am – 11:30 am Virtual Meeting via Zoom Video Conferencing

Agenda

- 10:00- 10:05 a.m. Welcome
- 10:05- 10:10 a.m. Review and Approval of March 12, 2021 Minutes
- 10:10- 11:00 a.m. NC-STeP FY21-Q3 (Jan-Mar) Performance Data
- 11:00- 11:15 a.m. Update on Community-Based Pilots
- 11:15- 11:20 a.m. Old Business
- 11:20- 11:25 a.m. New Business
- 11:25- 11:30 a.m. Announcements
- 11:30 a.m. Adjourn



Join Zoom Meeting https://zoom.us/j/94425768672?pwd= d0JJYk5tTjh5blZqOTdzL2Y2ZDRwdz09

- 41 hospitals in the network, 40 hospitals were live
- 30 hospitals reporting Telepsychiatry patients in their ED
 - not all live hospitals had telepsychiatry patients
- Total number of assessments for this quarter = 1,296
- Total number of encounters for this quarter = 1,105
- Patient assessments billed for Model 1 hospitals = 879



- The Median Length of Stay was 27.2 hours
- The Average Length of Stay was 53.5 hours
 - 52.5 hours for those discharged to home
 - 57.5 hours for those transferred to another facility
- Average Consult Elapsed Time (in Queue to Exam Complete) for Model 1 hospitals was 4 hours and 4 minutes.



- 775 ED patients who received telepsychiatry services had an IVC in place during their ED stay.
 - 317 (41%) 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
 - 47% were discharged to another facility



- 16 Community based sites were live as of 3/31/21 with 16 sites reporting Telepsychiatry patients.
- There were 1092 total behavioral health visits.
 - 77 visits with a Psychiatrist.
 - 1,015 visits with a behavioral health manager.
 - 11 visits with a Maternal and Fetal Medicine Specialist.



NC-STeP	Since project inception in November 2013	Quarter Jul- Sep 2020	Quarter Oct- Dec 2020	Quarter Jan- Mar 2021	Quarter Apr- Jun 2021
Total Patient Encounters	35,386	1,179	1,074	1,105	
Model 1 Hospital Patient Encounters	21,512	620	544	688	
Model 2 Hospital Patient Encounters	13,847	559	530	417	
Total Number of Assessments (Billed Assessments for Model 1 Hospitals + Number of Patient Encounters for Model 2 Hospitals)	46,904	1,334	1,201	1,296	

NC-STeP Benchmarks

	Goals	١	/alues Reached		
NC-STeP	Cumulative Target to be reached by (06/30/2021)	Value Reached as of most recent previous quarter (12/31/2020)	Value Reached as of this reporting quarter (03/31/2021)	Year-to-Date Total with % of the Yearly Target (03/31/2021)	
Number of IVCs	1,700	702	775	2,284 134% of Y	early Target
Number of IVCs Overturned	505	271	317	909 180% of Y	early Target
Total Number of Assessments (Billed assessments for Model 1 hospitals + Number of patient encounters for Model 2 hospitals.)	4,251	1,201	1,296	3,831 90% of Ye	arly Target

EVALUATION CRITERIA	BASELINE VALUES/MEASURES AS REPORTED ON 03/31/2020	TARGET TO BE REACHED BY 06/30/2021	VALUES/MEASURES REACHED AS OF 03/31/2021
 The number of full- time equivalent (FTE) positions supported by these contracts 	4.02 FTEs	4.30 FTEs	4.10 FTEs
2. The number of overturned involuntary commitments (inpatient admission prevented)	711	505	317 in this quarter Cumulative total since program inception 7,012
3. The number of participating consultant providers	48	48	42



EVALUATION CRITERIA	BASELINE VALUES/MEASURES AS REPORTED ON 03/31/2020	TARGET TO BE REACHED BY 06/30/2021	VALUES/MEASURES REACHED AS OF 03/31/2021
4. The number of telepsychiatry assessments conducted.	5,105	4,251	1,296 in this quarter Cumulative total since program inception 46,904
5. The number of telepsychiatry referring sites	58	48	41 40 Live
6. The reports of involuntary commitments to enrolled hospitals	2,061	1,700	778 in this quarter Cumulative total since program inception 20,541



EVALUATION CRITERIA	BASELINE VALUES/MEASURES AS REPORTED ON 03/31/2020	TARGET TO BE REACHED BY 06/30/2021	VALUES/MEASURES REACHED AS OF 03/31/2021
7. The average (mean) Length of Stay for all patients with a primary mental health diagnosis across all dispositions.	55 hours	55 hours	QTD Average = 53.5 QTD Median = 27.7
8. The rate of "satisfied" or "strongly satisfied" among emergency department staff participating in NC- STeP.	80%	80%	88%

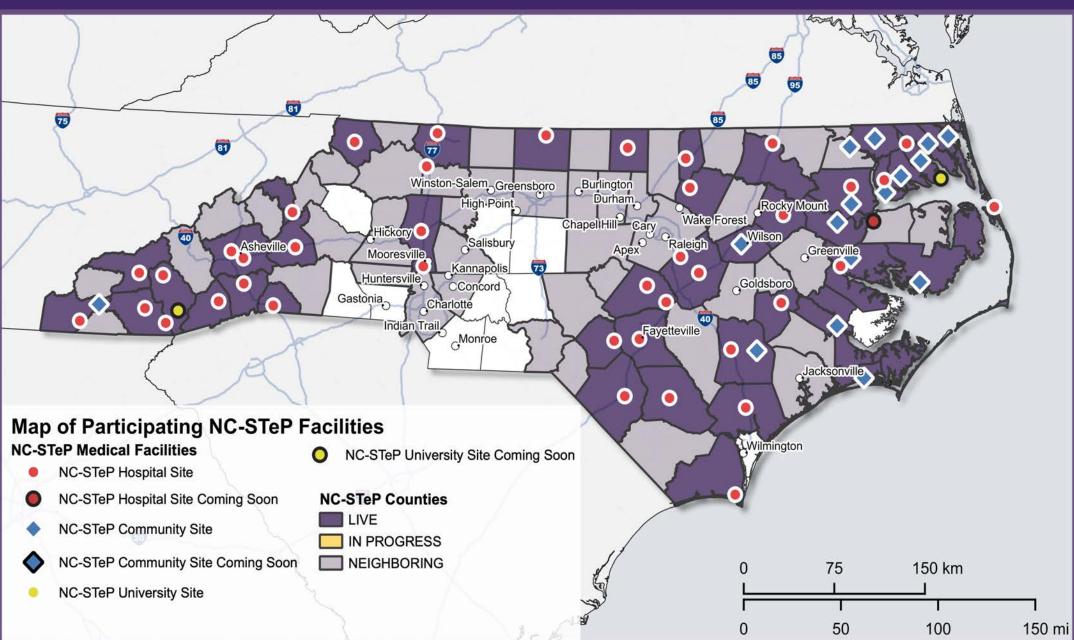


EVALUATION CRITERIA	BASELINE VALUES/MEASURES AS REPORTED ON 03/31/2020	TARGET TO BE REACHED BY 06/30/2021	VALUES/MEASURES REACHED AS OF 03/31/2021
9. The rate of "satisfied" or "strongly satisfied" among hospital CEOs/COOs participating in NC-STeP.	100%	100%	100%
10. The rate of "satisfied" or "strongly satisfied" among consulting (hub) providers participating in NC-STeP.	100%	100%	86%



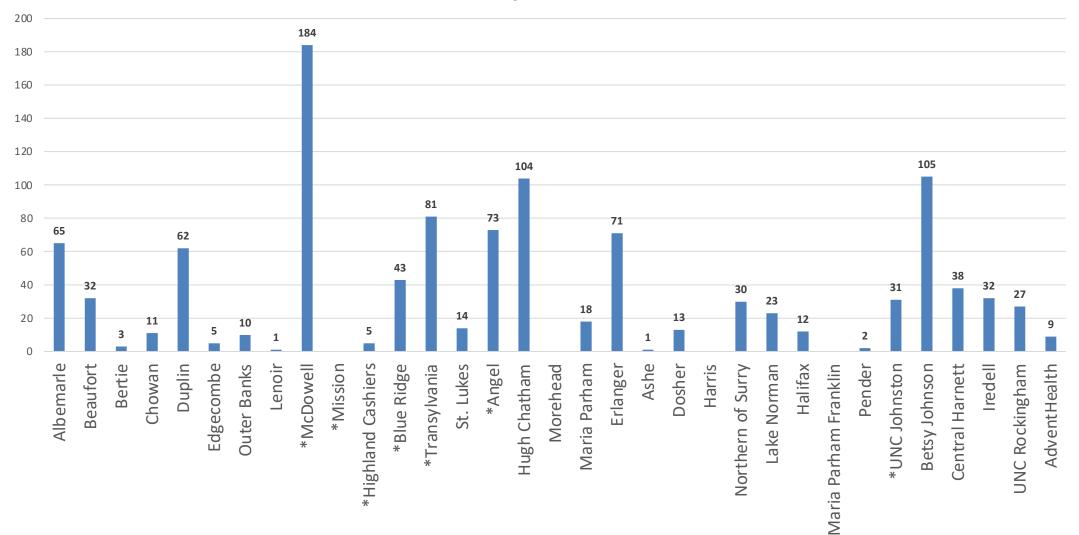
EVALUATION CRITERIA	BASELINE VALUES/MEASURES AS REPORTED ON 03/31/2020	TARGET TO BE REACHED BY 06/30/2021	VALUES/MEASURES REACHED AS OF 03/31/2021
11. The rate of "satisfied" or "strongly satisfied" among emergency department physicians participating in the statewide telepsychiatry program.	85%	85%	100%
12. Cumulative return on investment to state psychiatric facilities through overturned involuntary commitments (inpatient admission prevented)	\$3,839,400	\$3,213,403	\$1,711,800 Cumulative average since program inception \$37,864,800





Number of NC-STeP Patients by Hospital

January - March 2021



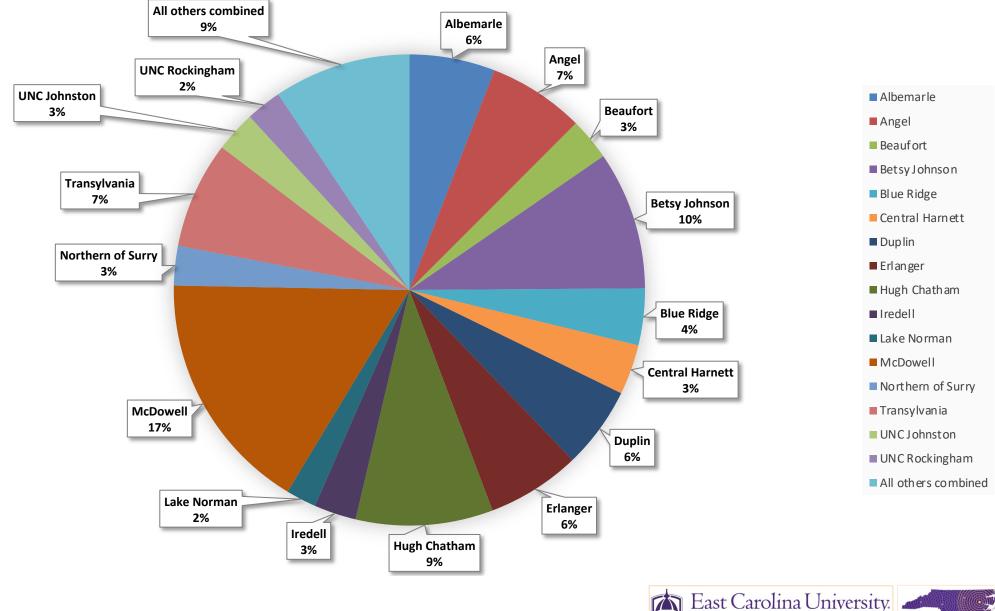


Percent of use by hospital Jan-Mar 2021

(based on number of encounters)

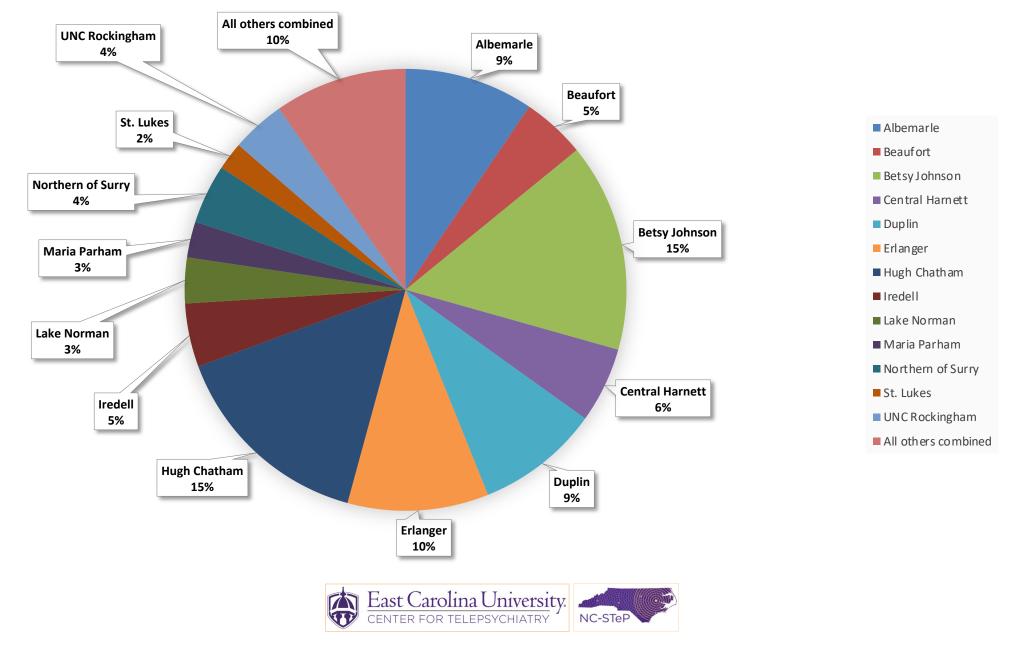
CHIATRY

NC-STeP



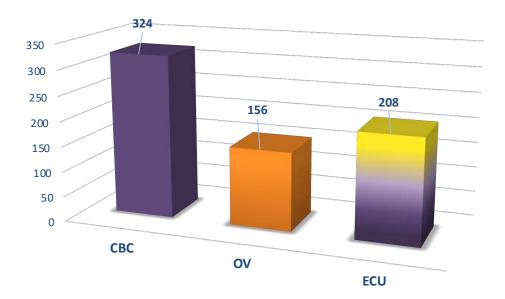
Percent of use for Model 1 hospitals Jan-Mar 2021

(based on number of encounters)

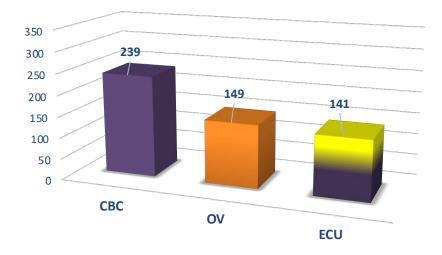


Number of Patients by Provider (Model 1)

Jan-Mar 2021

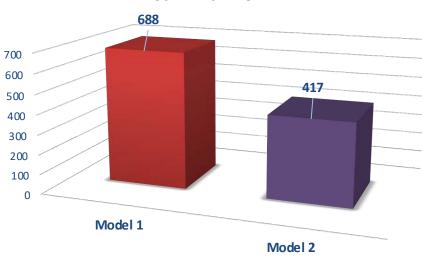


Oct-Dec 2020



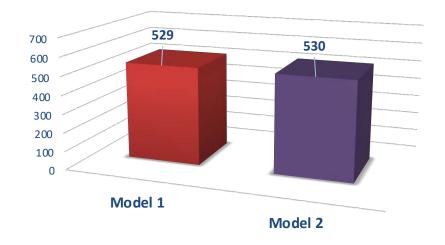


Number of Patients by Model

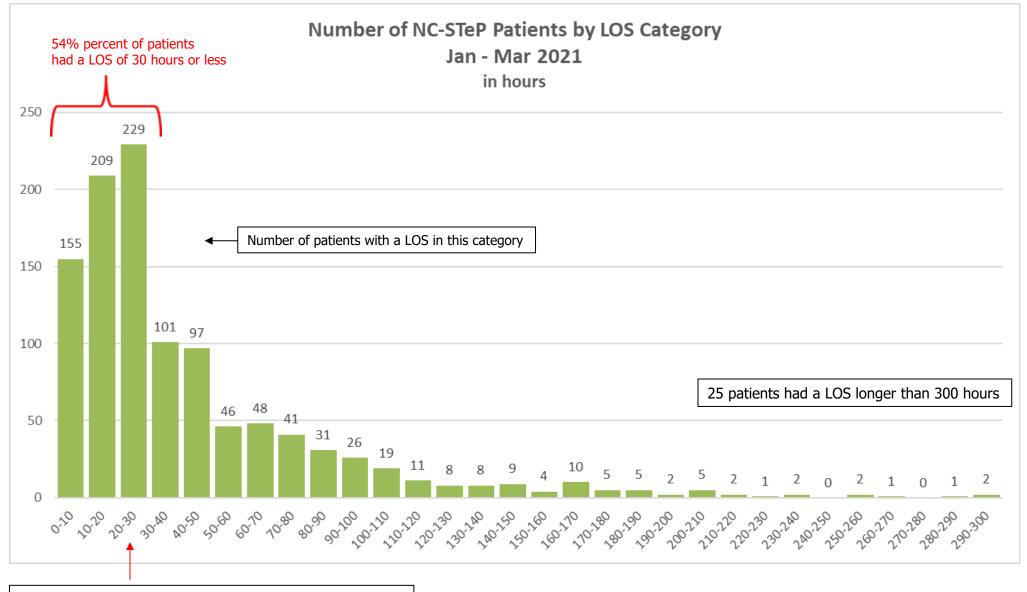


Jan-Mar 2021

Oct-Dec 2020

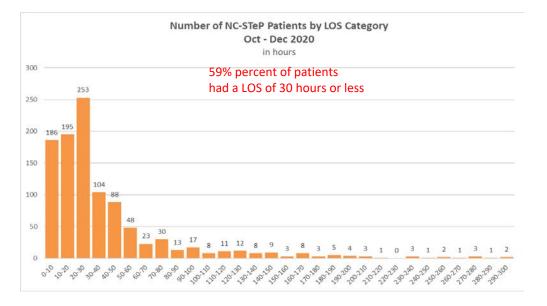


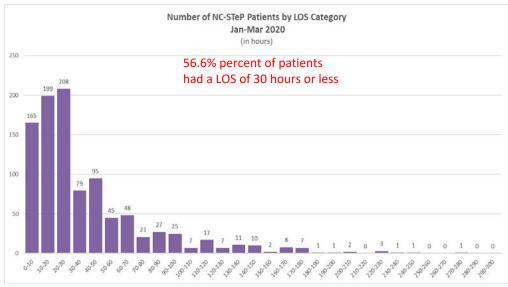


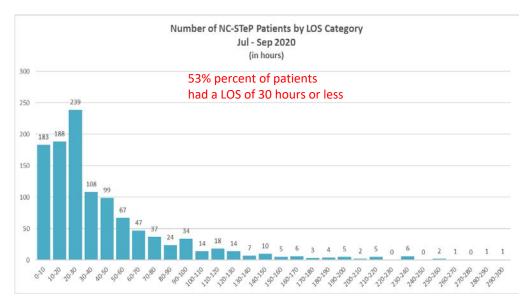


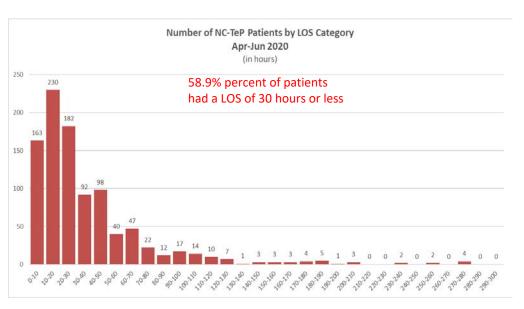
Median Length of Stay for Jan-Mar 2021 = 27.7 Hours







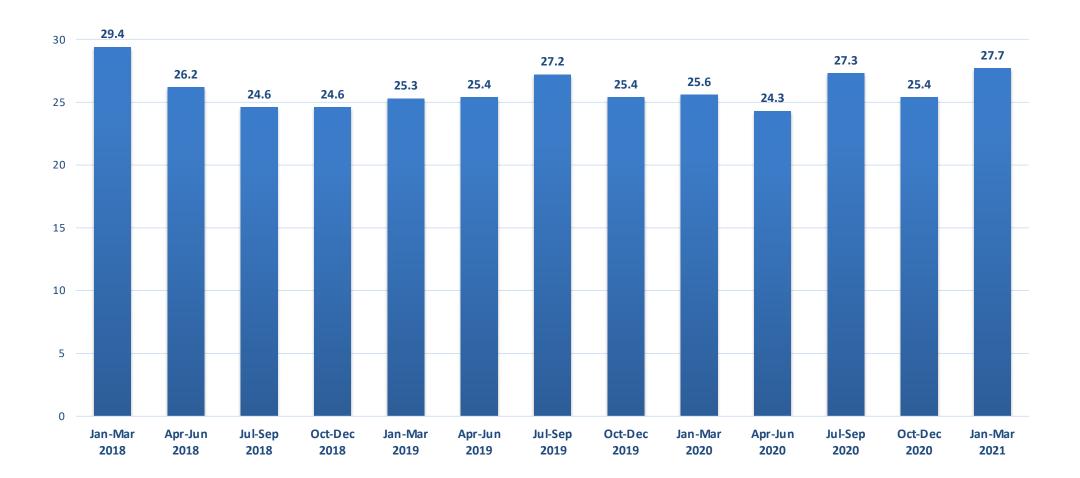






Median Length of Stay by Quarter (in hours)

35





Average Length of Stay by Quarter (in hours)

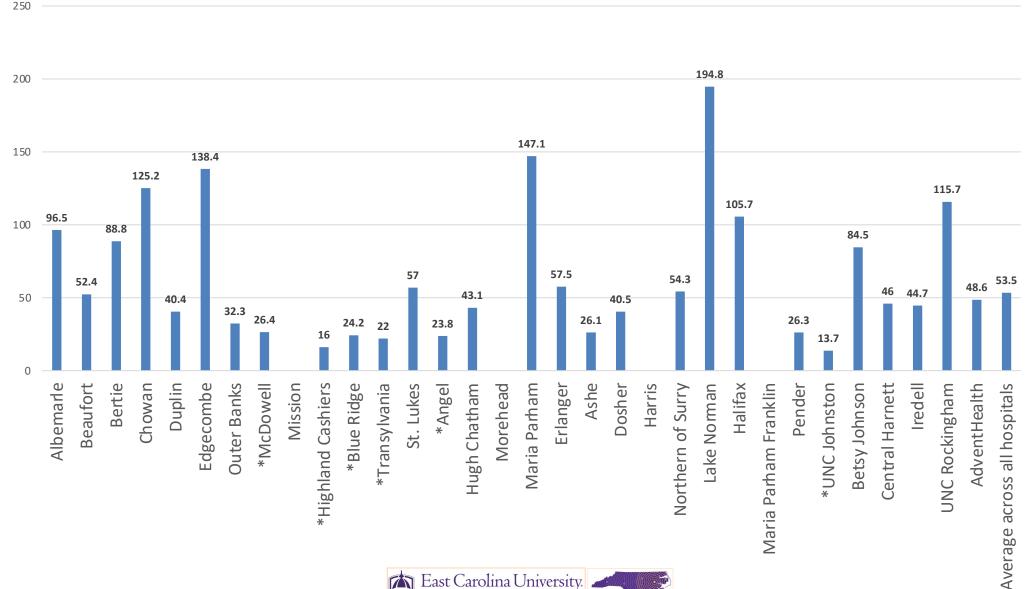




Average Length of Stay for NC-STeP Patients by Hospital

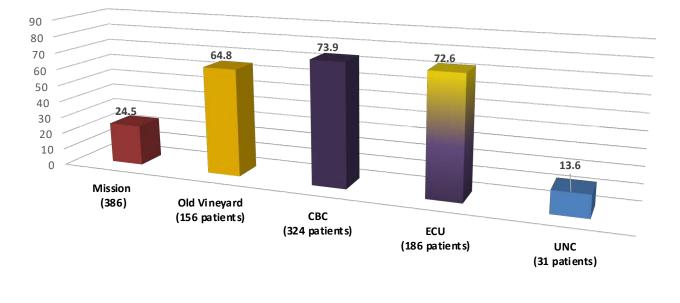
January - March 2021

(in hours)

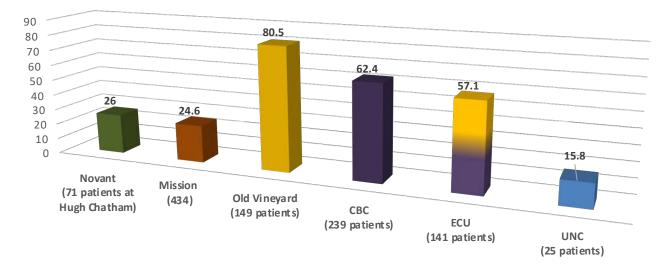




Jan-Mar 2021 (in hours)



Average Length of Stay by Provider

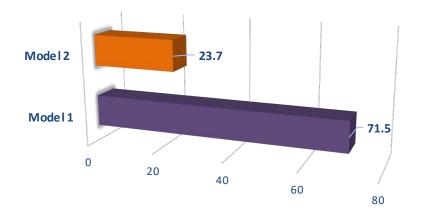


Oct-Dec 2020 (in hours)

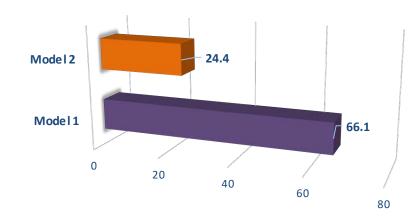


Average LOS by Model

Jan-Mar 2021 (in hours)

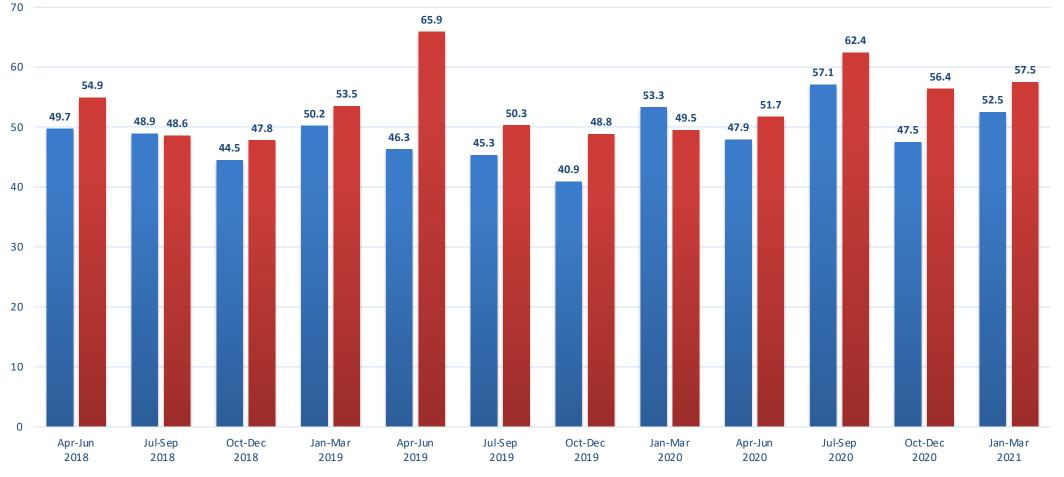


Oct-Dec 2020 (in hours)





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

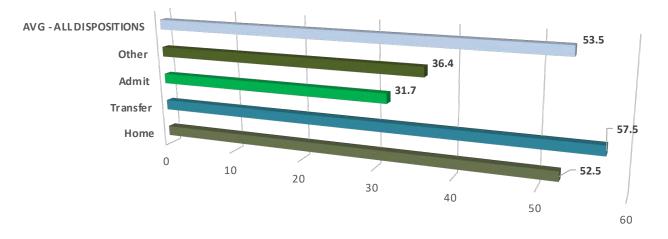


■ Avg LOS for patients discharged HOME

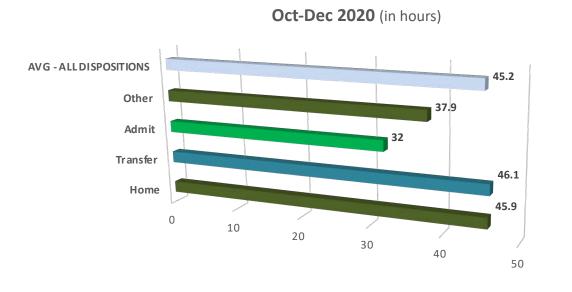
Avg LOS for patients discharged TRANSFER



Jan-Mar 2021 (in hours)



Average LOS by Discharge Disposition



60



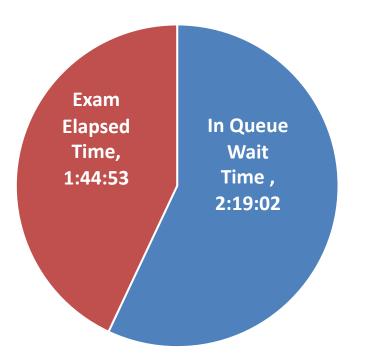
Consult Elapsed Time: January – March 2021

CBC, OV & ECU Average Consult Elapsed Time In Queue to Exam Complete FY21-Q3 January - March (4 hrs. 4 min.) Comparison CBC, OV & ECU Average Consult Elapsed Time In Queue to Exam Complete FY21-Q3 January - March 2021 (hh:mm:ss)

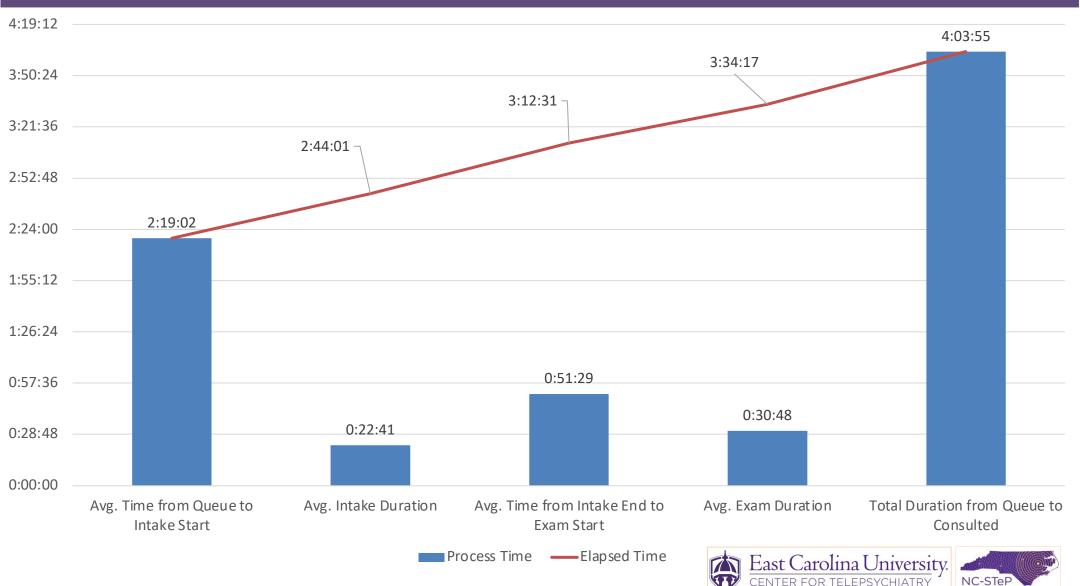


FNTER FOR TELEPSYCHIATRY

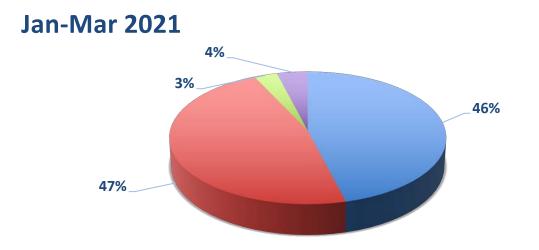
NC-STeP



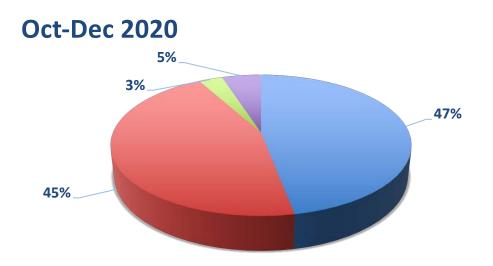
Key Processes and Elapsed Times Averages CBC, OV, ECU: January – March 2021



Percent of Patients by Discharge Disposition

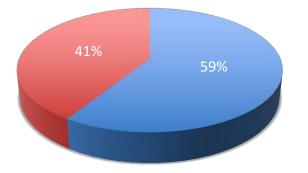


Home Transfer Admit Other





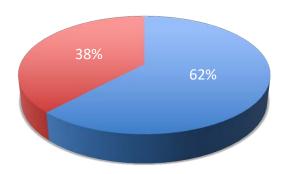
Jan-Mar 2021



IVCs – By Release Status

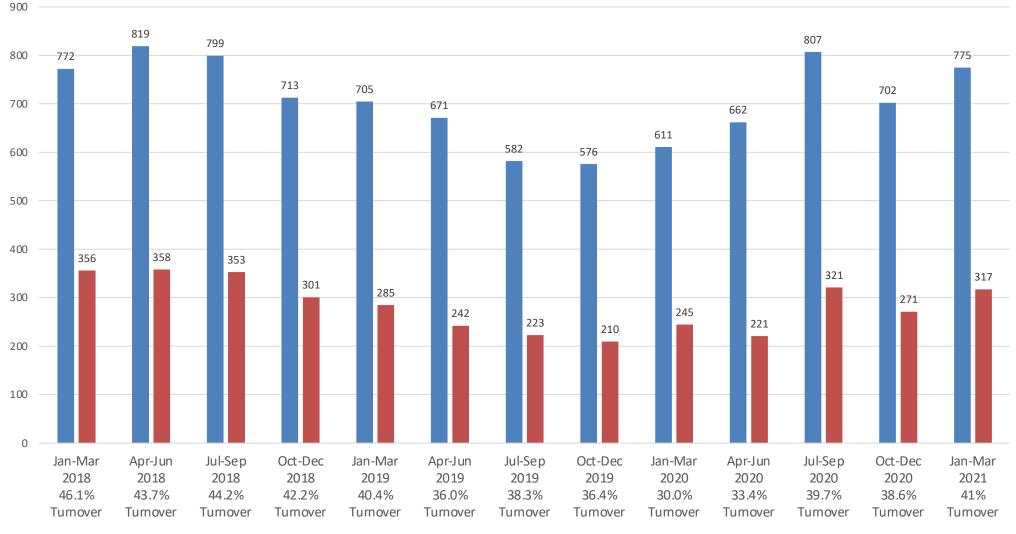
IVCs - percent not released
 IVCs - percent released







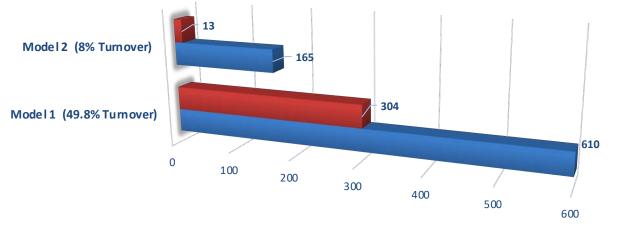
Number of IVCs and IVCs Turned Over by Quarter



■ Number of IVCs ■ Number of IVCs Turned Over



Jan-Mar 2021



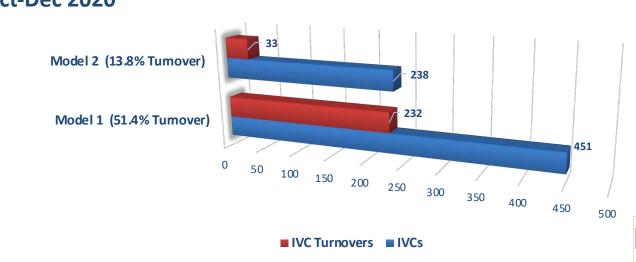
■ IVC Turnovers ■ IVCs



East Carolina University.

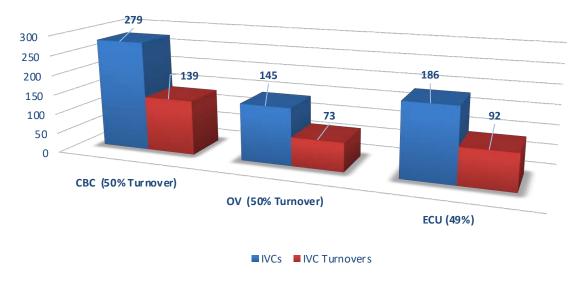
CENTER FOR TELEPSYCHIATRY

NC-STeP



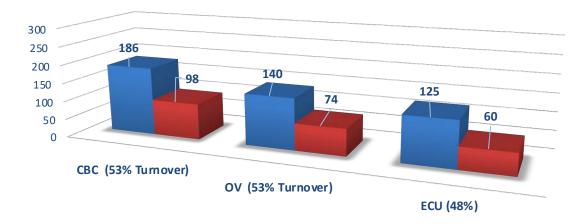
Oct-Dec 2020

Jan-Mar 2021



Number of IVCs and IVC Turnovers by Provider

Oct-Dec 2020





Satisfaction Surveys

- Satisfaction surveys are done twice a year
- Most recent surveys conducted in March 2021 with 9 groups
- 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 2021 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

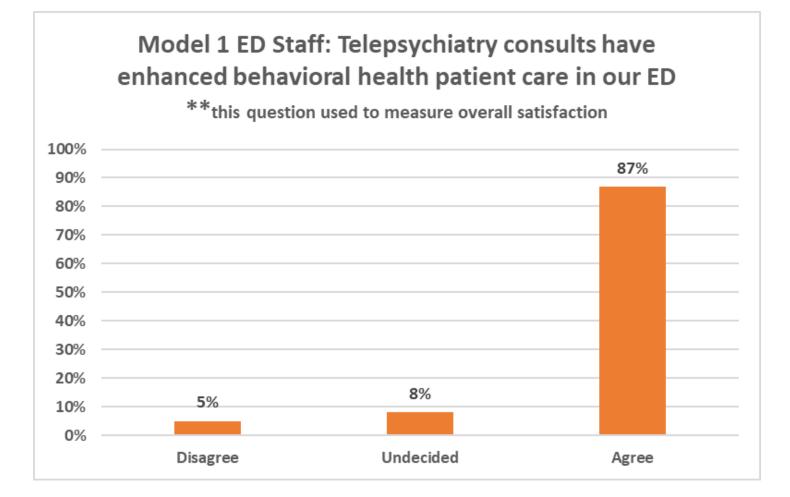
The following number of individuals from each group responded (N= 57)

- Model 1 Emergency Department Physicians (2 responded)
- Model 1 Emergency Department Staff (38 responded)
- Model 1 Provider Psychiatrists (6 responded)
- Model 1 Psychiatric Intake Specialists (3 responded)
- Model 1 Hospital CEOs (4 responded)
- Model 2 Emergency Department Physicians (0 responded)
- Model 2 Emergency Department Staff (2 responded)
- Model 2 Provider Psychiatrists (1 results not shown due to small number)
- Model 2 Hospital CEOs (1 responded results not shown due to small number)

For each group, one summary question is selected for an overall "satisfaction" rate. The overall satisfaction rate is 89%.

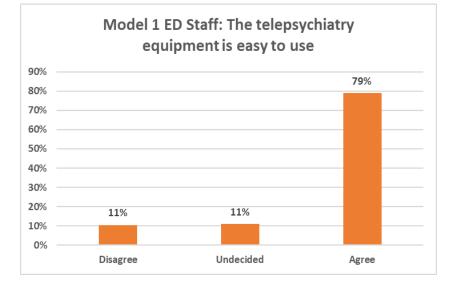


Model 1 Hospital ED Staff Results (n=38)

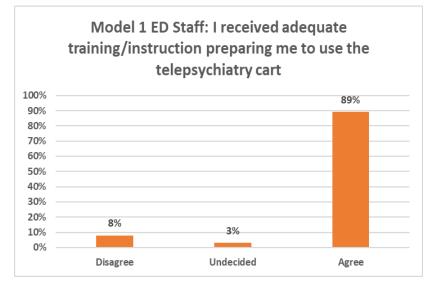


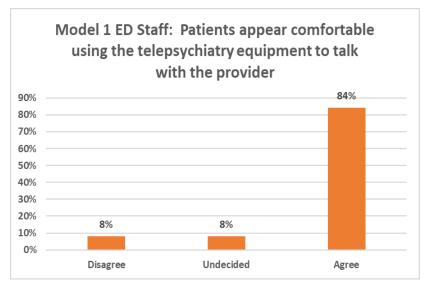


Model 1 Hospital ED Staff Results (n=38)



Model 1 ED Staff: The telepsychiatry equipment is reliable and seldom goes down. 80% 74% 70% 60% 50% 40% 30% 20% 13% 13% 10% 0% Undecided Disagree Agree

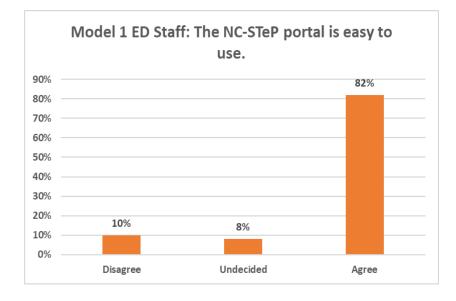




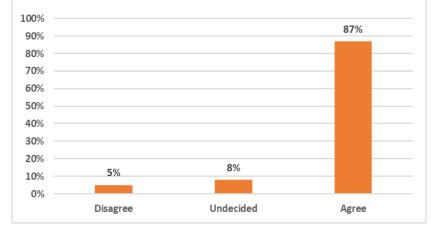


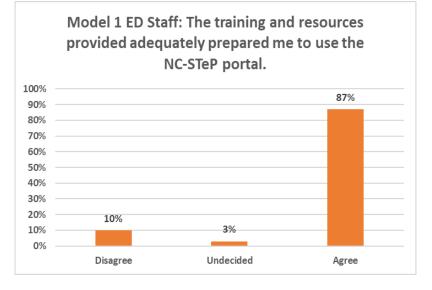


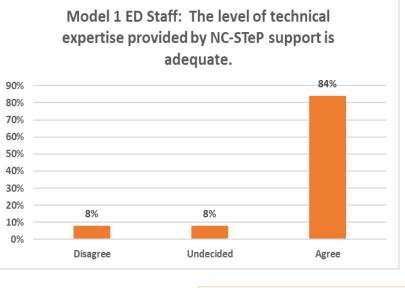
Model 1 Hospital ED Staff Results (n=38)



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



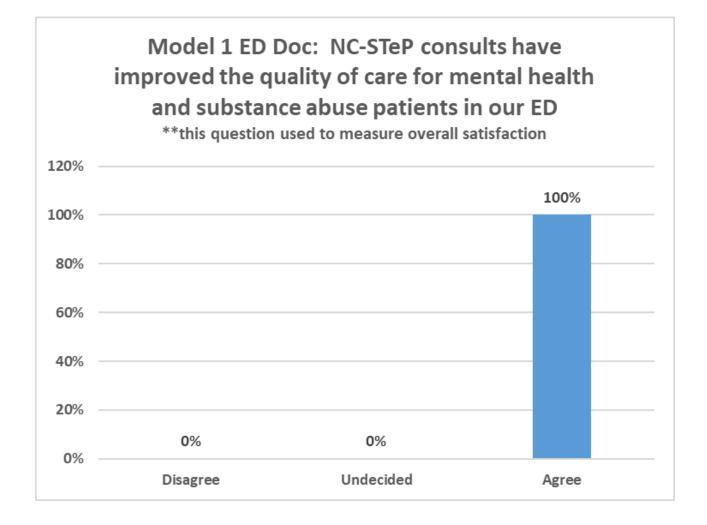






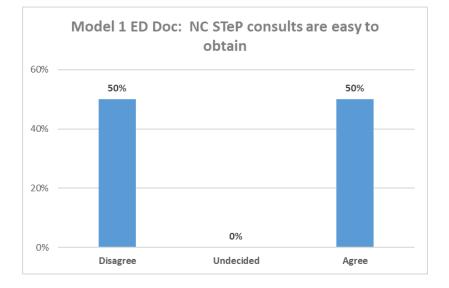


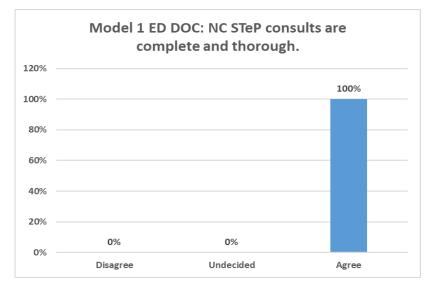
Model 1 Hospital ED Physicians Results (n= 2)

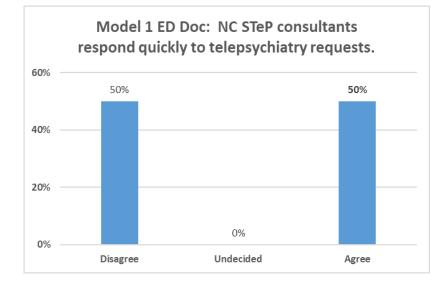


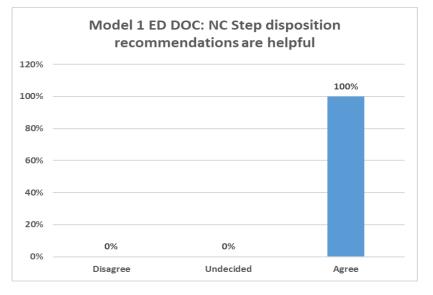


Model 1 Hospital ED Physicians Results (n= 2)



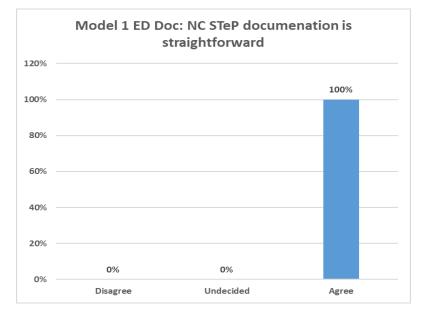


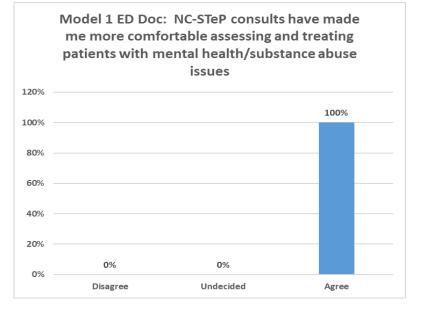


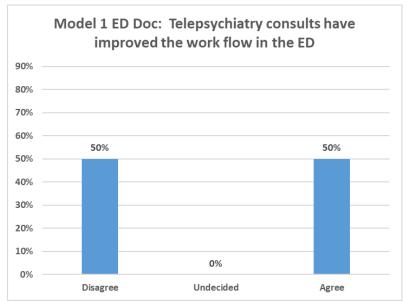




Model 1 Hospital ED Physicians Results (n= 2)

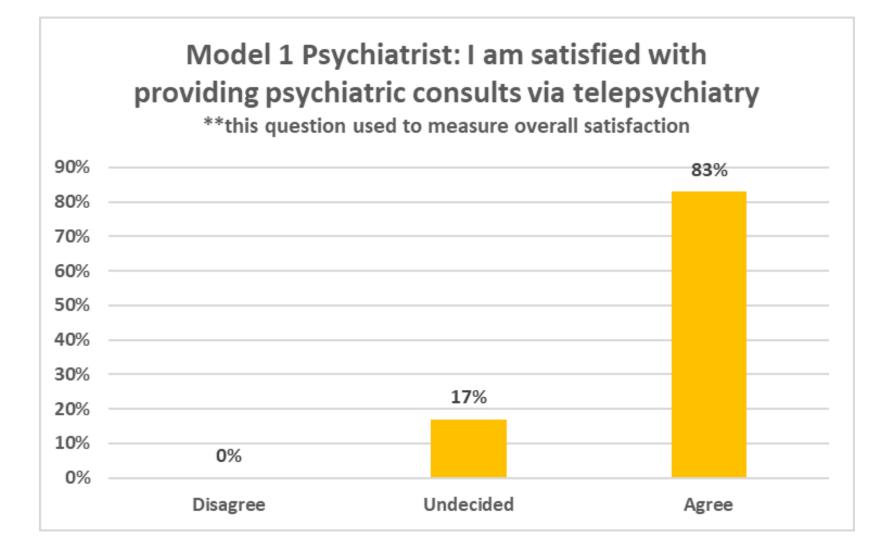






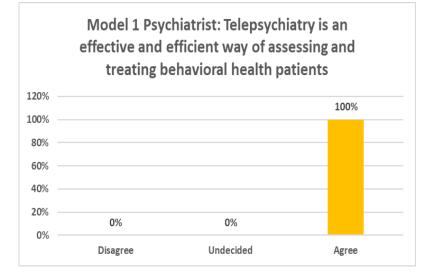


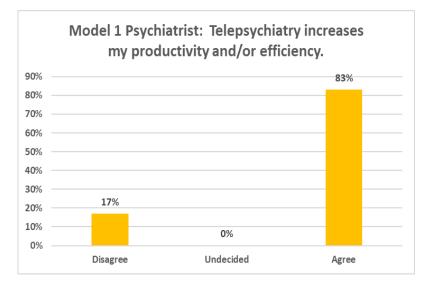
Model 1 Provider Psychiatrist Results (n= 6)

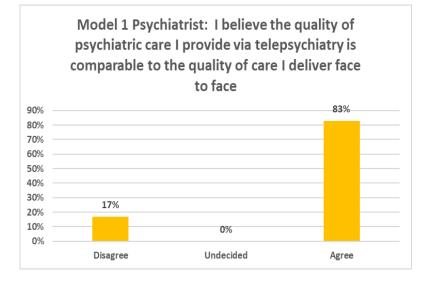


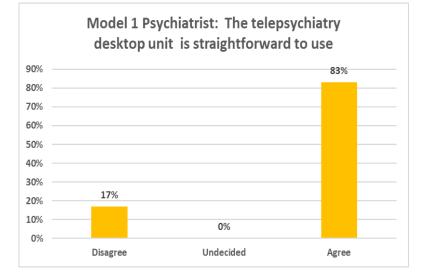


Model 1 Provider Psychiatrist Results (n= 6)





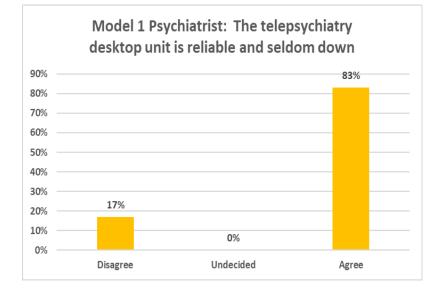


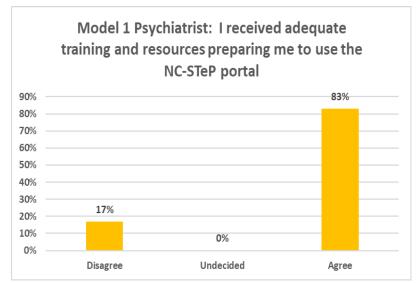


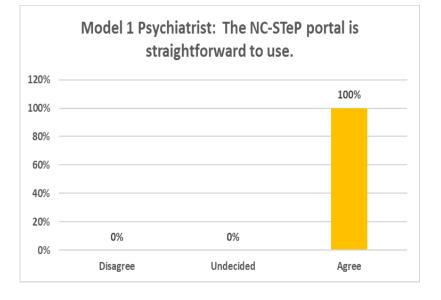


3/19/2021

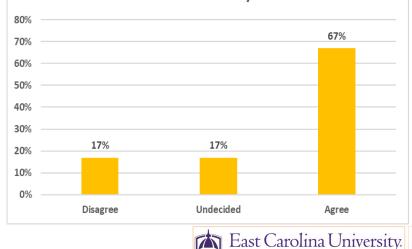
Model 1 Provider Psychiatrist Results (n= 6)







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



CENTER FOR TELEPSYCHIATRY

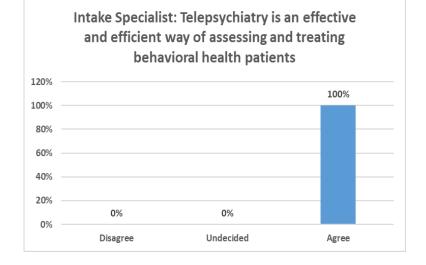


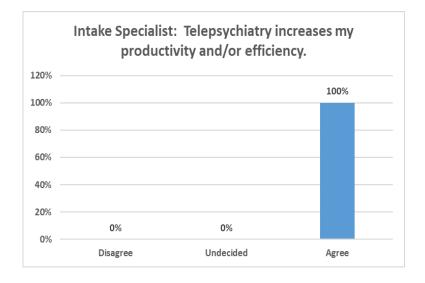
Model 1 Psychiatric Intake Specialist Results (n=3)

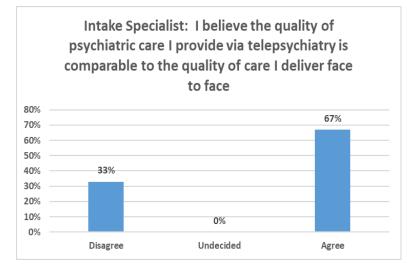


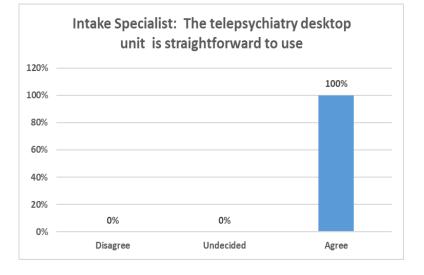


Model 1 Psychiatric Intake Specialist Results (n=3)



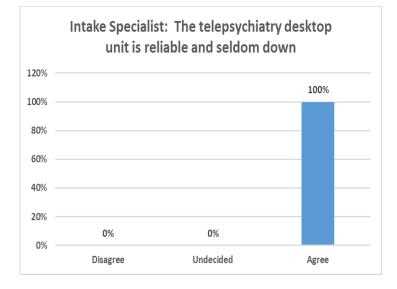


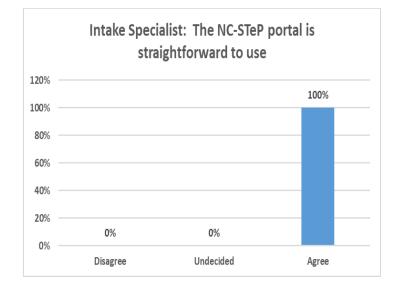


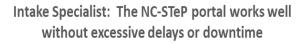


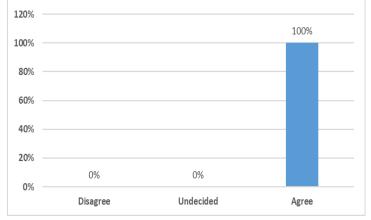


Model 1 Psychiatric Intake Specialist Results (n=3)



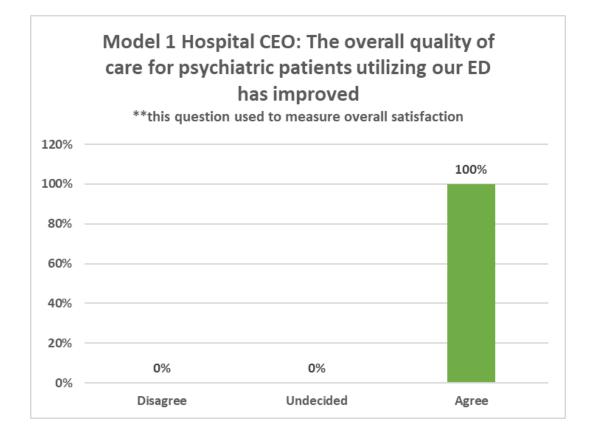






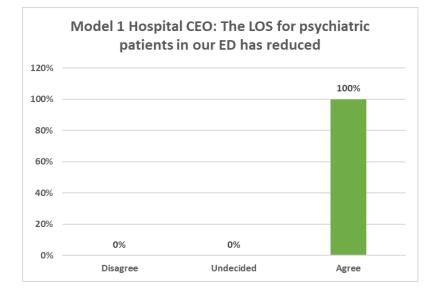


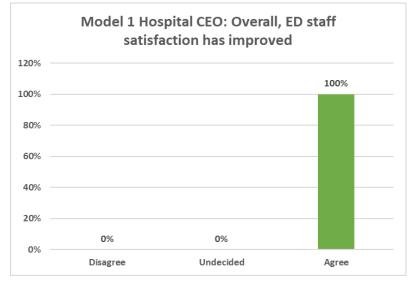
Model 1 CEO/CNO/CFO Results (n=4)

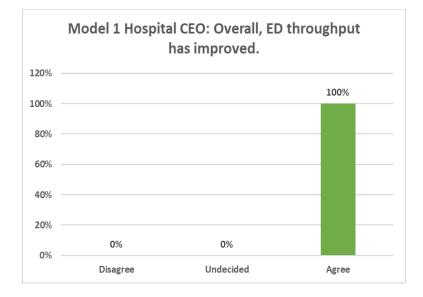




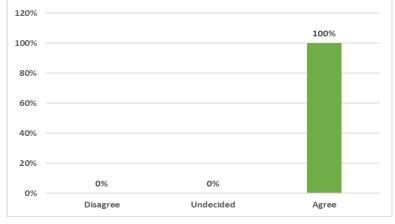
Model 1 CEO/CNO/CFO Results (n=4)





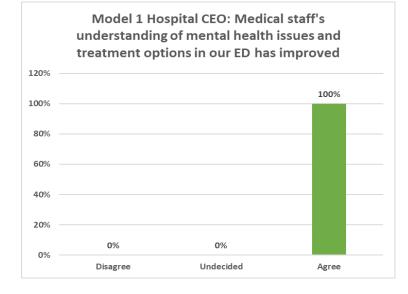


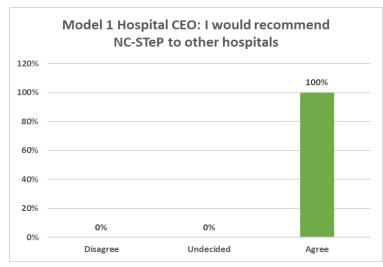
Model 1 Hospital CEO: There has been an improvement in discharge planning and referrals for psychiatric patients in our ED





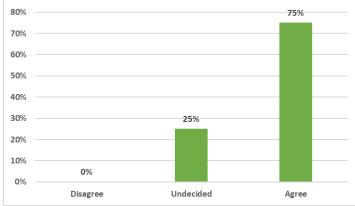
Model 1 CEO/CNO/CFO Results (n=6)





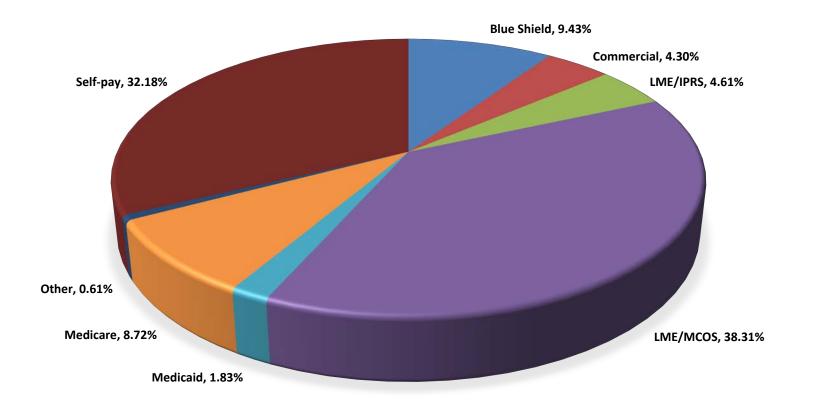








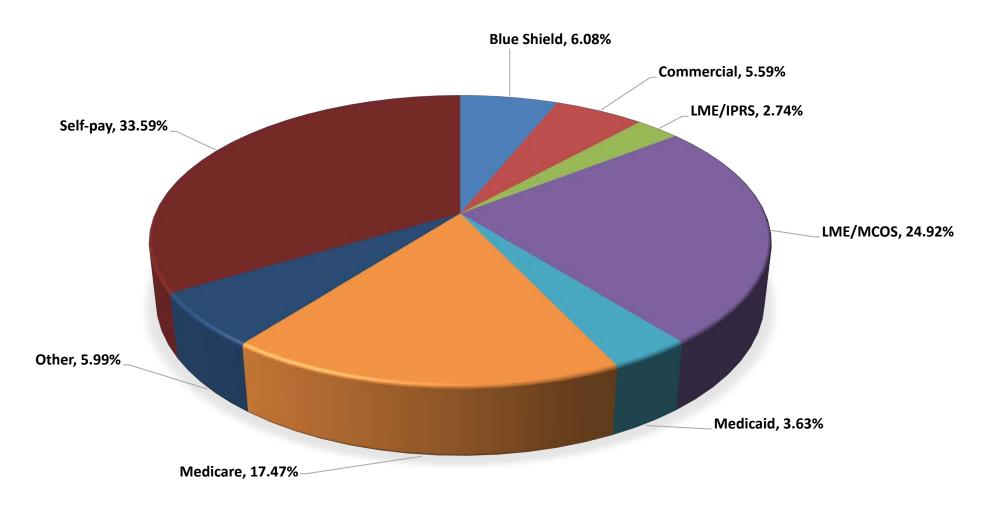
NC-STeP Charge Mix QTD 2021 - Quarter 3





NC-STeP Charge Mix - Project to Date

Service Dates: October 1, 2013 - March 31, 2021





Community-Based Sites as of March 31, 2021

EVALUATION CRITERIA	BASELINE VALUES/MEASURES AS REPORTED ON 3/31/2020	VALUES/MEASURES REACHED AS OF 03/31/2021
1. The number of full-time equivalent (FTE) providers supporting the program	0.70 FTEs	0.70 FTEs
2. The number of community-based sites contracted	8	16
3. Number of patient visits with medical (psychiatric) doctor	81	77 YTD= 210 PTD= 886
4. The number return visits	524	877 YTD= 2,376 PTD= 5,708
5. The number of patient visits with a mid-level provider	613	1,015 YTD= 2,712 PTD= 6,245
6. The number of new patient visits	169	214 YTD= 540 PTD= 1,489

Patient Visits	Since project inception in October 2018	During Calendar Year 2018	During Calendar Year 2019	During Calendar Year 2020	During Quarter Jan-Mar 2021
With Medical Doctor	886	8	536	265	77
With Mid-Level Provider	6,245	7	2,006	3,217	1,015
Total Patient Visits	7,228	15	2,633	3,477	1,103

- Since project inception there are 92 visits that listed no provider and 5 visits that listed both a mid-level and a doctor.
- There were 11 MFM visits this quarter. As a result, the number of total patient visits was higher than the doctor visits and mid level visits summed. 4/22/21

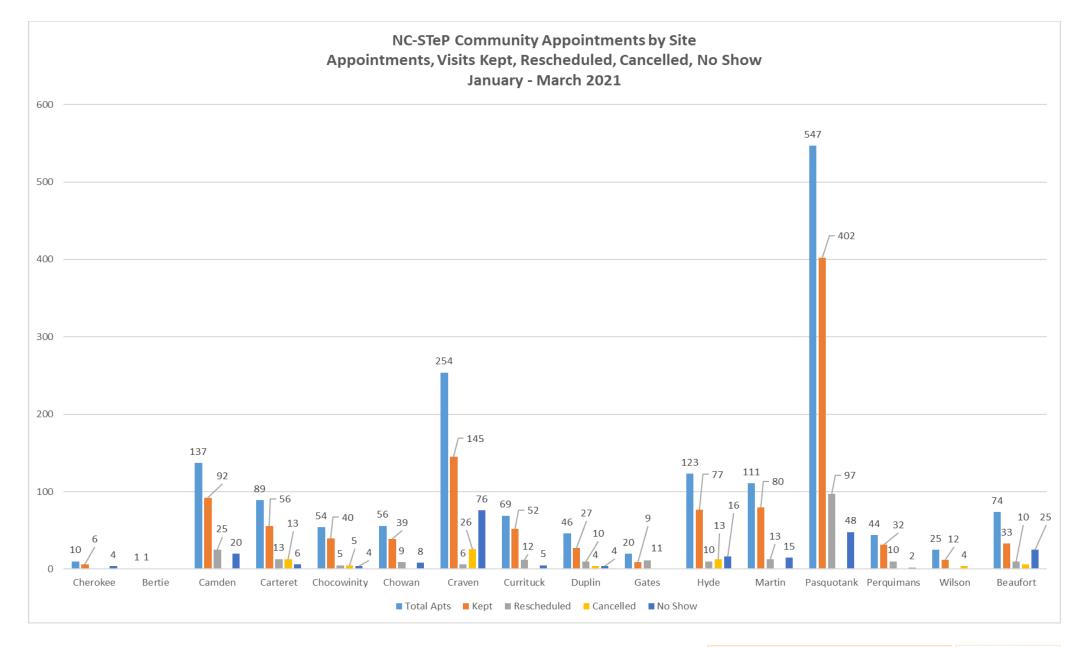


NC-STeP Community Benchmarks							
	Goals	Values Reached					
Patient Visits	Total for most recent full fiscal year (July 1, 2019 - June 30, 2020)	Value Reached as of most recent previous quarter (12/31/2020)	Value reached as of this reporting quarter (03/31/2021)				
With Medical Doctor	438	70	77				
With Mid-Level Provider	2,661	848	1015				
New Patient Visits	629	169	214				
Return Patient Visits	2,455	744	877				

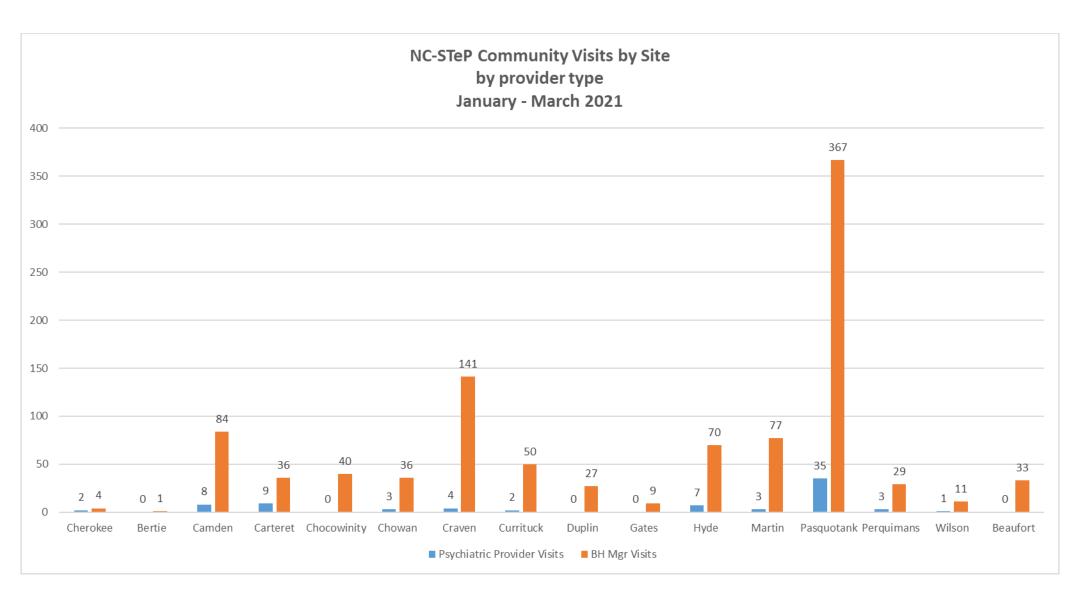
4/22/21

- DHHS no longer has targets, so I changed this column to show totals for the most recent 12-month fiscal year period.
- 1 visit did not specify if it was new or return.
- There were 11 MFM visits.

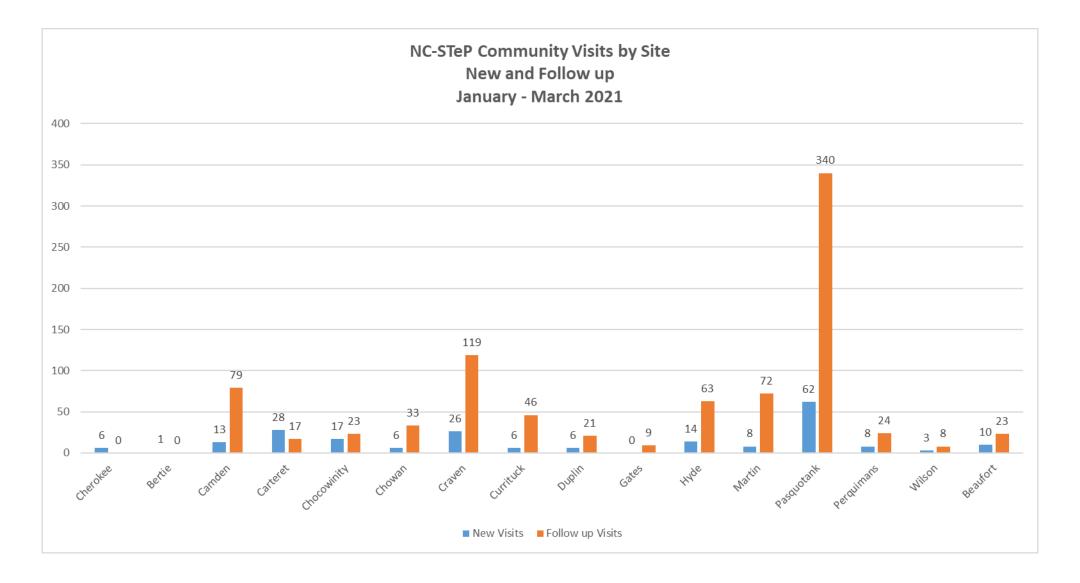




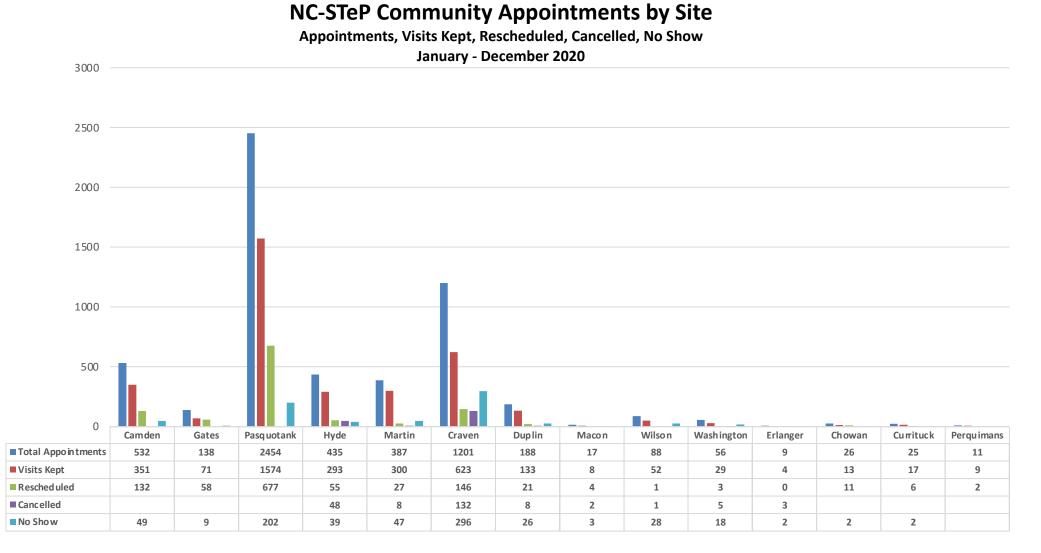












■ Total Appointments ■ Visits Kept ■ Rescheduled ■ Cancelled ■ No Show



NC-STeP Status as of March 31, 2021

- 41 hospitals in the network. 40 live.
- 46,904 total psychiatry assessments since program inception
- 7,012 IVCs overturned
 - Cumulative return on investment = \$37,864,800 (savings from preventing unnecessary hospitalizations)
- Six Clinical Provider Hubs with 42 consultant providers
- Administrative costs below industry standard
- Over 33% of the patients served had no insurance coverage



NC-STeP Status as of March 31, 2021

- 16 community-based sites.
- 7,228 total patient visits since program inception in October 2018.
 - 886 total patient visits with a psychiatrist
 - 6,245 total patient visits with a mid-level provider







Sy Atezaz Saeed, MD, MS, FACPsych Professor and Chairman Department of Psychiatry and Behavioral Medicine Brody School of Medicine | East Carolina University

Contact

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NC-STeP Advisory Council Meeting Friday, June 25, 2021

10:00 am – 11:30 am Virtual Meeting via Zoom Video Conferencing

Agenda

- 10:00- 10:05 a.m. Welcome
- 10:05- 10:10 a.m. Review and Approval of March 12, 2021 Minutes
- 10:10- 11:00 a.m. NC-STeP FY21-Q3 (Jan-Mar) Performance Data
- 11:00- 11:15 a.m. Update on Community-Based Pilots
- 11:15- 11:20 a.m. Old Business
- 11:20- 11:25 a.m. New Business
- 11:25- 11:30 a.m. Announcements
- 11:30 a.m. Adjourn



Join Zoom Meeting https://zoom.us/j/94425768672?pwd= d0JJYk5tTjh5blZqOTdzL2Y2ZDRwdz09