

Quarterly Progress Update



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Brody School of Medicine - East Carolina University

Director

North Carolina Statewide Telepsychiatry Program (NC-STeP)





NC-STeP Advisory Council Meeting

Friday December 13, 2019 1:00 pm – 3:00 pm North Carolina Psychiatric Association 4917 Waters Edge Drive, Suite 250 Raleigh, NC 27606

Agenda

1:00- 1:10 p.m.	Welcome
1:10- 1:15 p.m.	Review and Approval of September 10, 2019 Minutes
1:15- 2:15 p.m.	NC-STeP FY20-Q1 (Jul-Sept) Performance Data
2:15- 2:30 p.m.	Update on Community-Based Pilot(s)
2:30- 2:40 p.m.	Old Business • Legislative Funding for next fiscal year • Startup Costs Allocation and an Annual Base Subscription for Hospitals
2:40- 2:45 p.m.	New Business
2:45- 2:50 p.m.	Announcements
3:00 p.m.	Adjourn

Join WebEx meeting

Meeting number (access code): 734 201 897

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Join by phone

Tap to call in from a mobile device (attendees only)

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Members of the NC-STeP Advisory Council

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 Chief Nursing Officer, Erlanger Murphy Medical Center

2. Scott W. Brown, MD, FACEP

NCCEP Board of Directors/ Harnett Heath System

Jennie Byrne, MD, PhD Representing NCMS

4. Charles K. Dunham, MD

Medical Director Behavioral Health Services, Novant

5. Robin Huffman

Executive Director, NCPA

Nicholle Karim
Director of Behavioral Health, NCHA

7. Richard P. Smith, MD
Wake Forest School of Medicine

8. Sy Atezaz Saeed, MD, MS Director, NC-STeP (*Chair*)

9. Glenn M. Simpson, MBA, MA, NCC
Behavioral Health Service Line Administrator, Vidant Health

10. Victoria Soltis-Jarrett, PhD, PMHCNS/NP-BC Psychiatric-Mental Health Nursing, UNC Chapel Hill

Alexandra L. Spessot, MD
 Chief Medical Officer, Monarch/ NCMS

12. Marvin Swartz, MD

Professor & Head Division of Social & Community Psychiatry, Duke

13. Leza Wainwright
CEO, Trillium Health Resources

14. Mary Worthy, MS, LMFT
Director BH Access Center Mission Health Systems

Ex Officio Members

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



NC-STeP Quality Management and Outcomes Monitoring Processes: July - September 2019

- 53 hospitals were live, as of 9/30/19 with 27 hospitals reporting Telepsychiatry patients in their ED
 - not all live hospitals had telepsychiatry patients
- Total number of assessments for this quarter = 1,131
- Total number of encounters for this quarter = 1,034





NC-STeP Quality Management and Outcomes Monitoring Processes: July - September 2019

- The Median Length of Stay was 27.2 hours
- The Average Length of Stay was 45.8 hours
 - 44.8 hours for those discharged to home
 - 45.9 hours for those transferred to another facility
- Average Consult Elapsed Time (in Queue to Exam Complete) for Model 1 hospitals was 3 hours and 9 minutes.





NC-STeP Quality Management and Outcomes Monitoring Processes: July – September 2019

- 574 ED patients who received telepsychiatry services had an IVC in place during their ED stay.
 - 219 (38.2%) of those patients did not have an IVC in place when discharged.
- Of the ED patients who received telepsychiatry services, 46.6% were discharged to home. 47.0% were discharged to another facility.

Notes:

 Bladen, Novant, and Cone hospitals did not submit data for this quarter.



NC-STeP	Since project inception in November 2013	During Calendar Year 2019	Quarter Jan- Mar 2019	Quarter Apr- Jun 2019	Quarter Jul- Sep 2019	Quarter Oct- Dec 2019
Total Patient Encounters	28,814	3,622	1,461	1,139	1,034	
Model 1 Hospital Patient Encounters	18,253	1,473	509	502	474	
Model 2 Hospital Patient Encounters	10,561	2,149	952	637	560	
Total Number of Assessments (Billed Assessments for Model 1 Hospitals + Number of Patient Encounters for Model 2 Hospitals)	39,353	3,974	1,594	1,268	1,131	

NC-STeP Benchmarks

	Goals	,	Values Reached	
NC-STeP	Cumulative Target to be reached by (06/30/2020)	Value Reached as of most recent previous quarter (06/30/2019)	Value Reached as of this reporting quarter (09/30/2019)	Year-to-Date Total with % of the Yearly Target (09/30/2019)
Number of IVCs	2,774	2,887	574	574 20.7% of Y
Number of IVCs Overturned	1,190	1,181	219	219 18.4% of \
Total Number of Assessments (Billed assessments for Model 1 hospitals + Number of patient encounters for Model 2 hospitals.)	6,805	6,695	1,131	1,131 16.6% of \

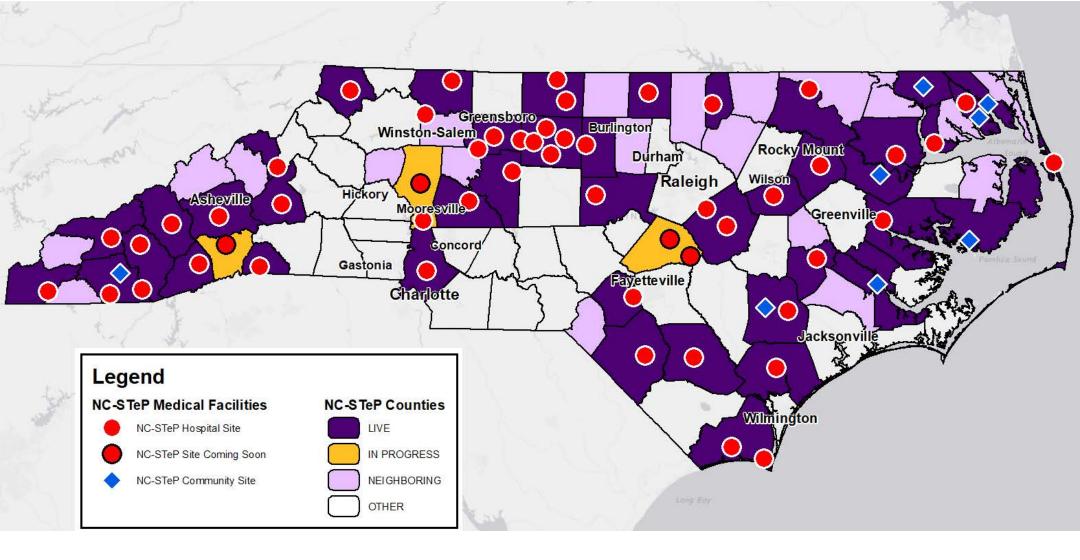
EVALUATION CRITERIA	BASELINE VALUES/MEASURES AS REPORTED ON 03/31/2019	TARGET TO BE REACHED BY 06/30/2020	VALUES/MEASURES REACHED AS OF 09/30/2019
The number of full- time equivalent (FTE) positions supported by these contracts	2.75 FTEs	4.02 FTEs	3.60 FTEs
2. The number of overturned involuntary commitments (inpatient admission prevented)	922	1,190	219 in this quarter YTD Total 219 Cumulative total since program inception 5,420
3. The number of participating consultant providers	54	48	53

EVALUATION CRITERIA	BASELINE VALUES/MEASURES AS REPORTED ON 03/31/2019	TARGET TO BE REACHED BY 06/30/2020	VALUES/MEASURES REACHED AS OF 09/30/2019
4. The number of telepsychiatry assessments conducted.	5,252	6,805	1,131 in this quarter YTD Total 1,131 Cumulative total since program inception 39,533
5. The number of telepsychiatry referring sites	56	56	57 53 Live
6. The reports of involuntary commitments to enrolled hospitals	2,143	2,774	574 in this quarter YTD Total 574 Cumulative total since program inception 16,392

EVALUATION CRITERIA	BASELINE VALUES/MEASURES AS REPORTED ON 03/31/2019	TARGET TO BE REACHED BY 06/30/2020	VALUES/MEASURES REACHED AS OF 09/30/2019
7. The average (mean) Length of Stay for all patients with a primary mental health diagnosis across all dispositions.	46.7 hours	55 hours	QTD Average = 45.8 QTD Median = 27.2
8. The rate of "satisfied" or "strongly satisfied" among emergency department staff participating in NC- STeP.	78%	78%	63%

EVALUATION CRITERIA	BASELINE VALUES/MEASURES AS REPORTED ON 03/31/2019	TARGET TO BE REACHED BY 06/30/2020	VALUES/MEASURES REACHED AS OF 09/30/2019
9. The rate of "satisfied" or "strongly satisfied" among hospital CEOs/COOs participating in NC-STeP.	100%	100%	Response too small to calculate
10. The rate of "satisfied" or "strongly satisfied" among consulting (hub) providers participating in NC-STeP.	100% NC-STEP	100%	88%

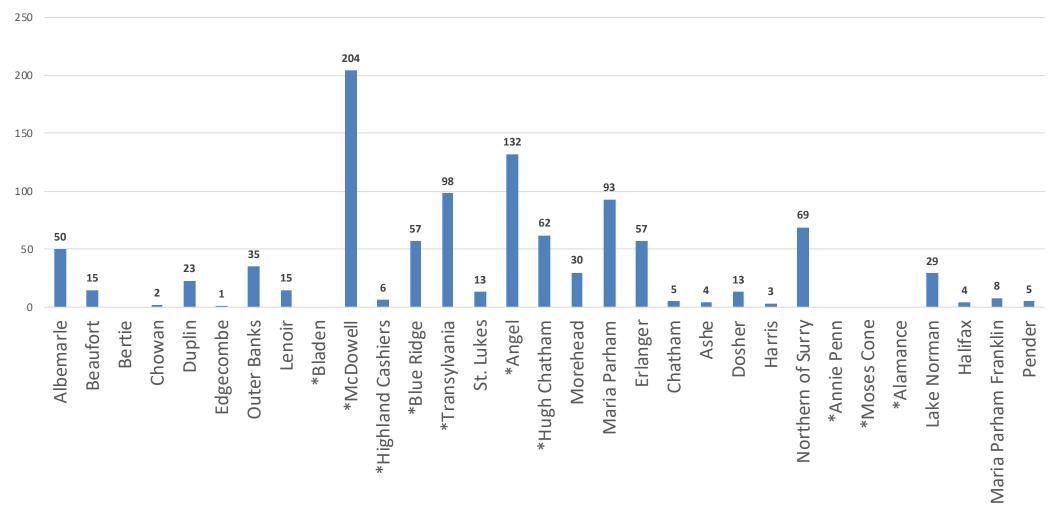
EVALUATION CRITERIA	BASELINE VALUES/MEASUR ES AS REPORTED ON 03/31/2019	TARGET TO BE REACHED BY 06/30/2020	VALUES/MEASURE S REACHED AS OF 09/30/2019
11. The rate of "satisfied" or "strongly satisfied" among emergency department physicians participating in the statewide telepsychiatry program.	72%	85%	64%
12. Cumulative return on investment to state psychiatric facilities through overturned involuntary commitments (inpatient admission prevented)	\$4,978,800	\$6,463,800	\$1,182,600 YTD Average \$1,182,600 Cumulative average since program inception \$29,268,000





Number of NC-STeP Patients by Hospital

July - September 2019

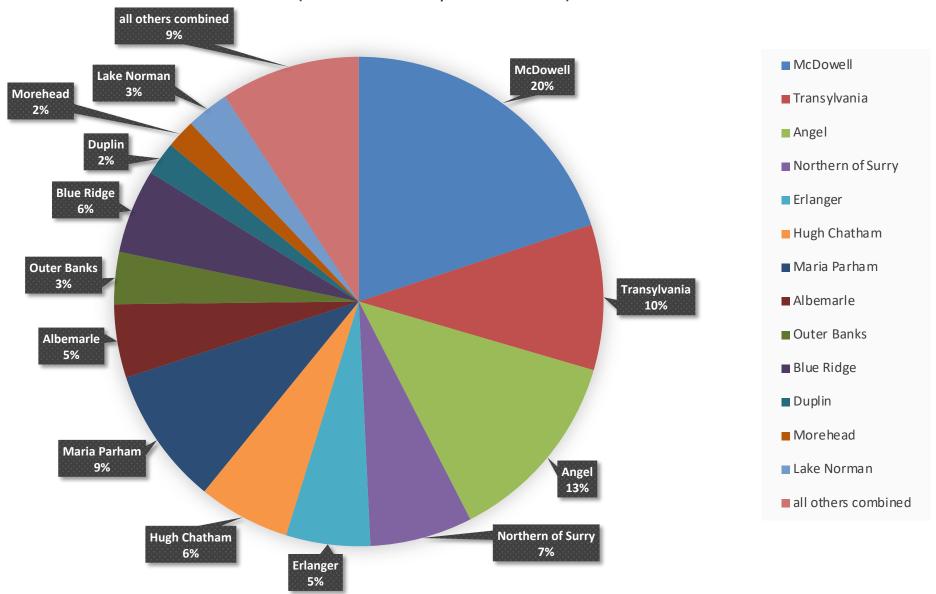






Percent of use by Hospital Jul-Sep 2019

(based on number of patient encounters)

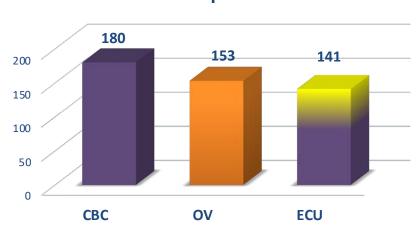




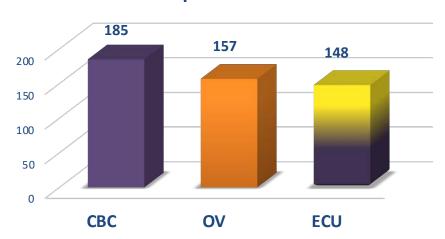


Number of Patients by Provider (Model 1)

Jul-Sep 2019



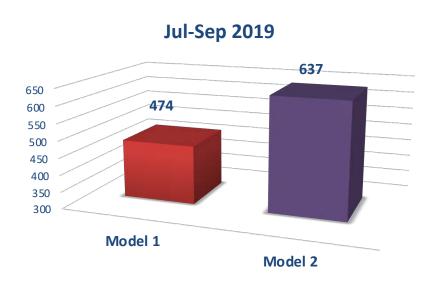
Apr-Jun 2019

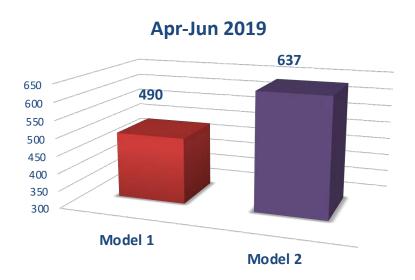






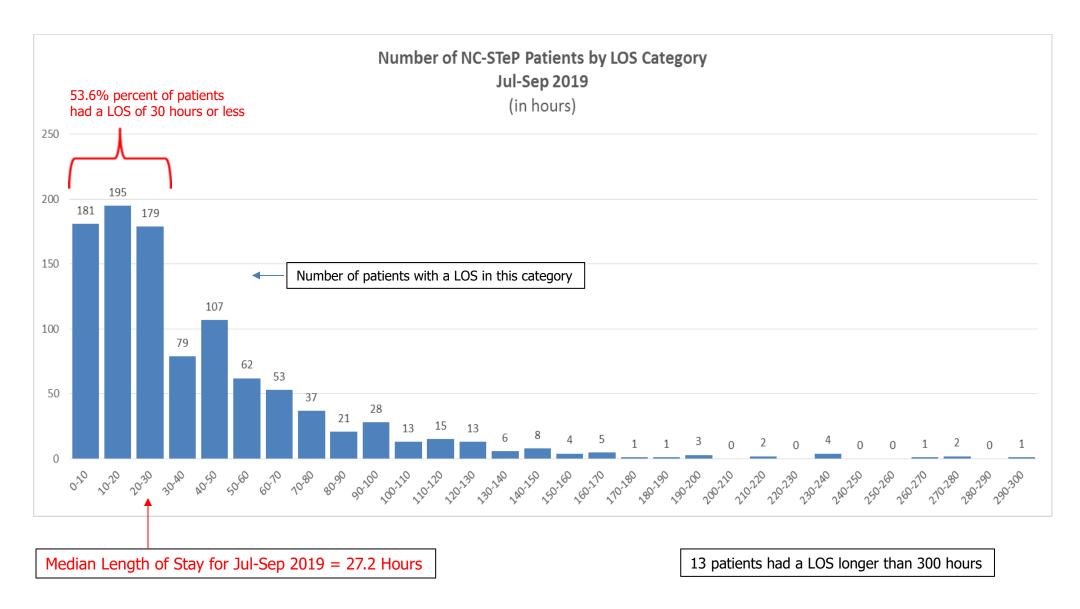
Number of Patients by Model



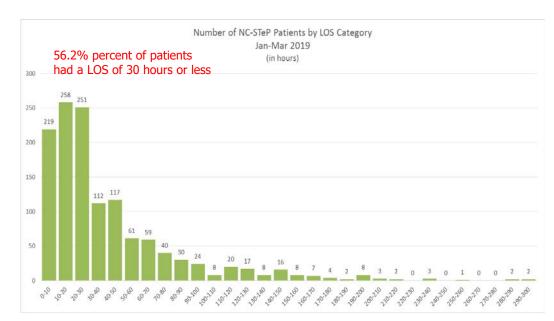


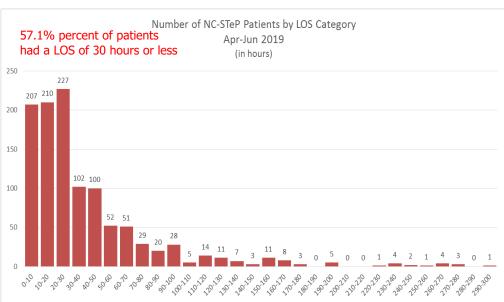


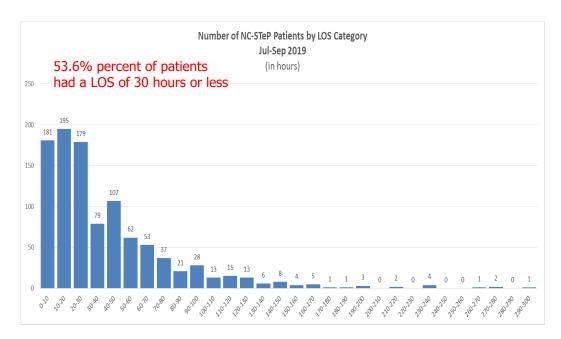






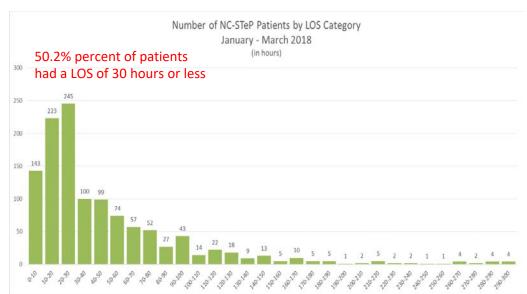


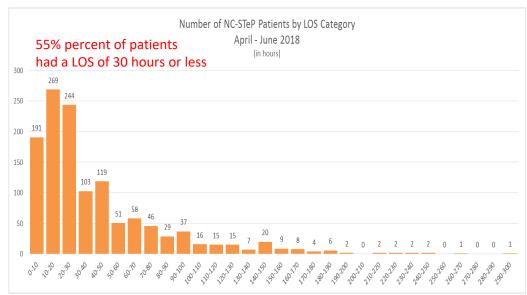


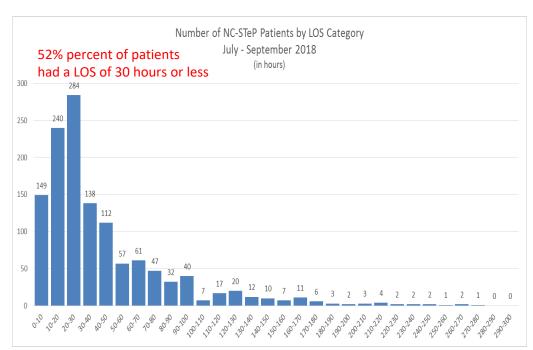


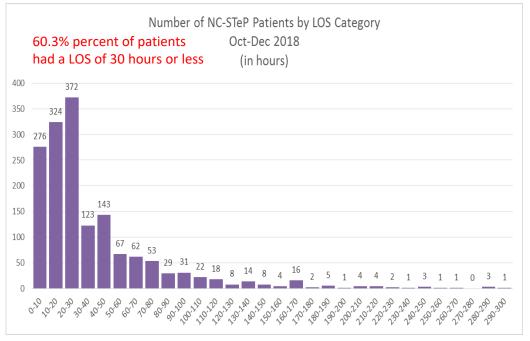








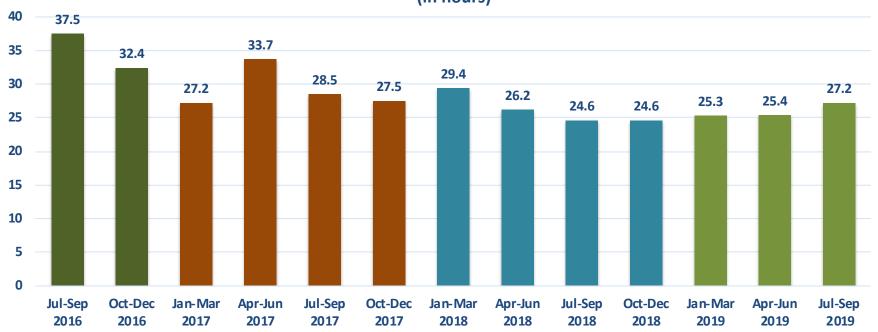








Median Length of Stay by Quarter (in hours)



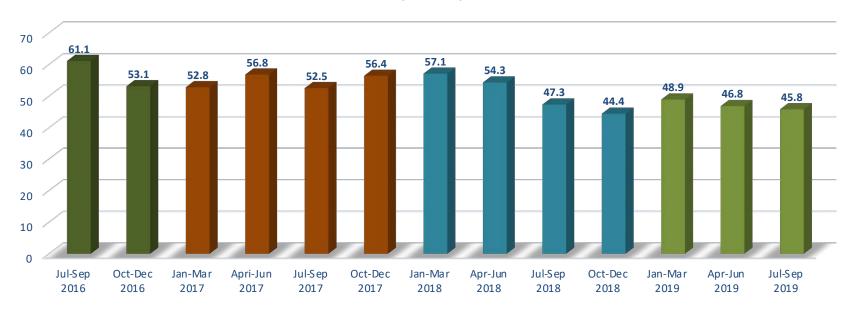








Average Length of Stay by Quarter for Hospitals Participating in NC-STeP (in hours)



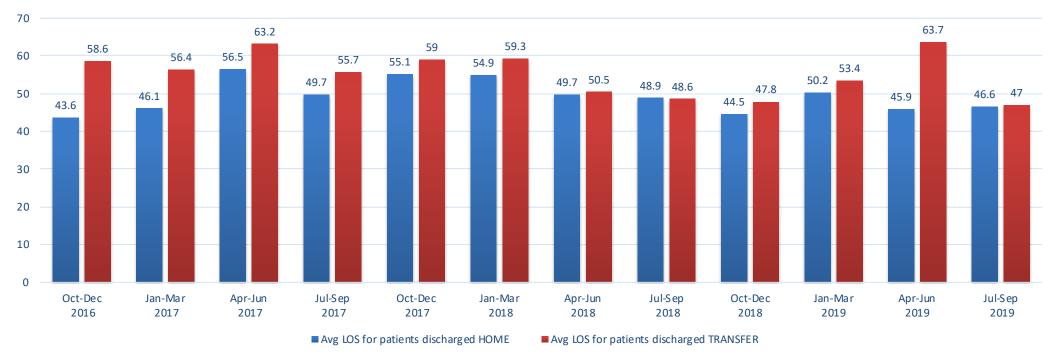
Average Length of Stay by Year







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



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



 \blacksquare Avg LOS for patients discharged HOME

■ Avg LOS for patients discharged TRANSFER

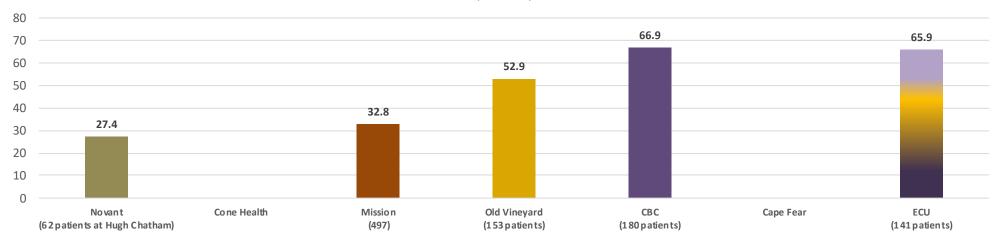




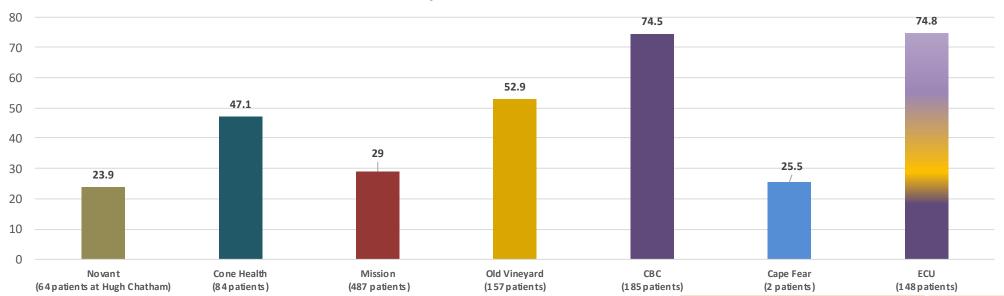
Average Length of Stay by Provider

Jul-Sep 2019

(in hours)



Apr-Jun 2019 (in hours)

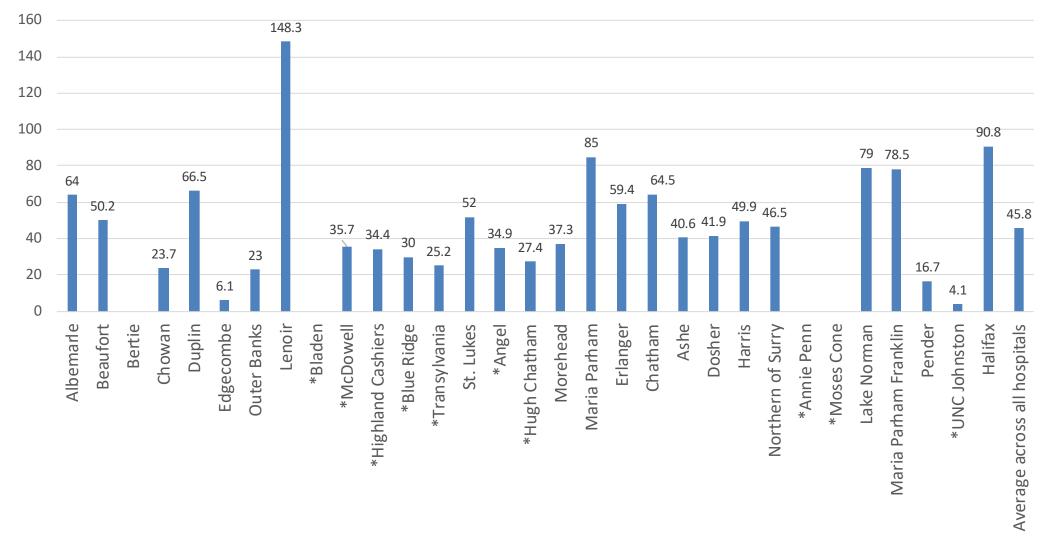






Average Length of Stay for NC-STeP Patients by Hospital

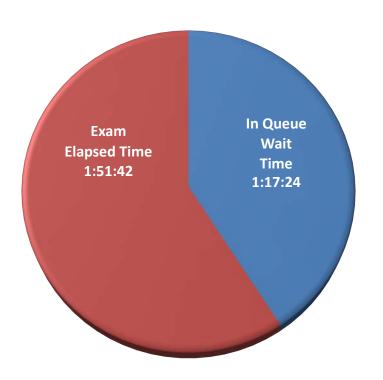
July - September 2019 (in hours)



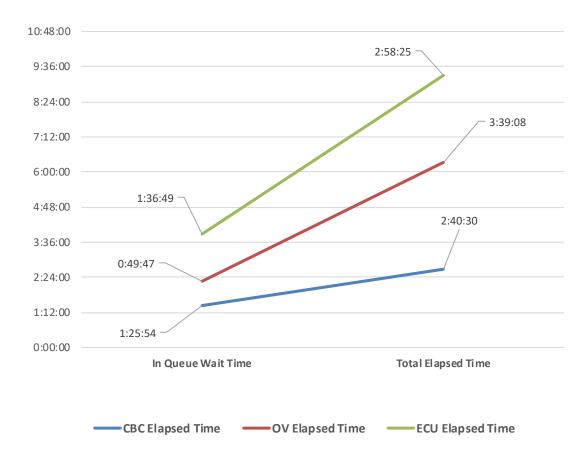


Consult Elapsed Time: July - September 2019

Average Consult Elapsed Time In Queue to Exam Complete (3 hrs. 9 min.)

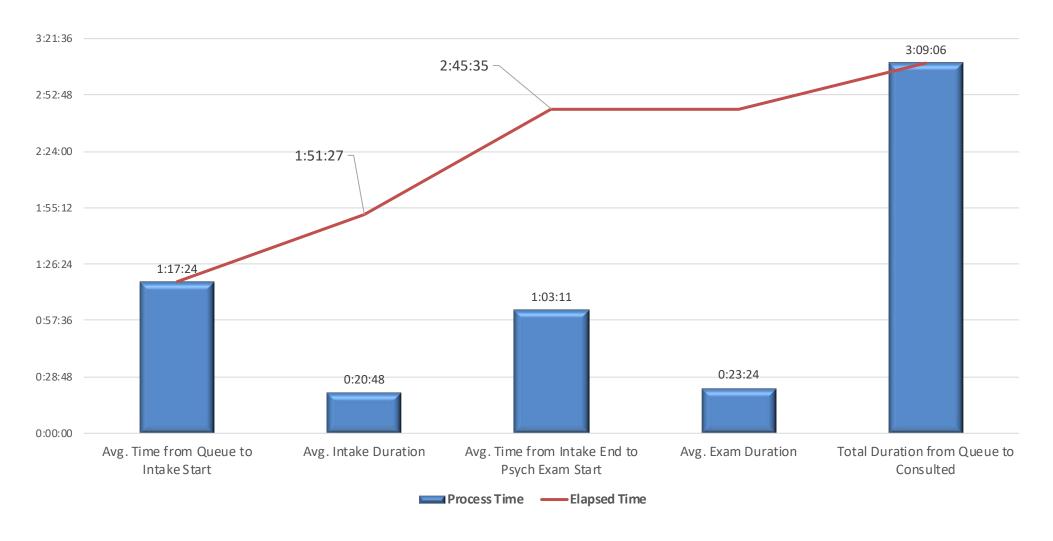


Comparison of CBC, OV &ECU Average Consult Elapsed Time In Queue to Exam Complete (hh:mm:ss)





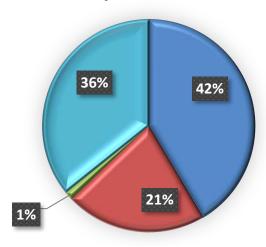
Key Processes and Elapsed Times Averages July - September 2019





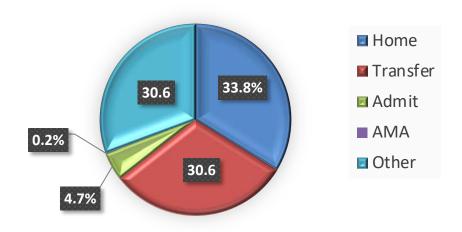
Jul-Sep 2019 5% 47%

Apr-Jun 2019



Percent of Patients by Discharge Disposition

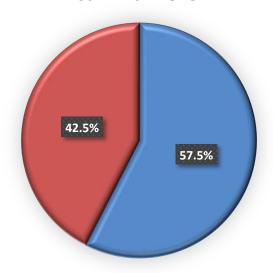
Jan-Mar 2019







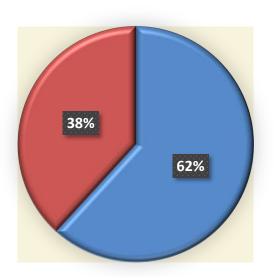
Jan-Mar 2019



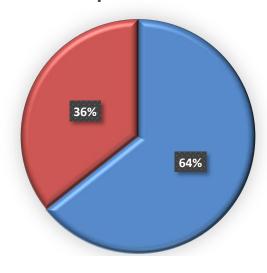
IVCs – By Release Status

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

Jul-Sep 2019



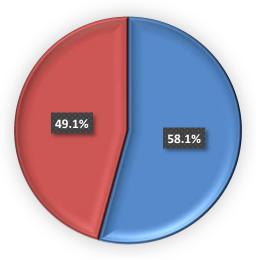
Apr-Jun 2019



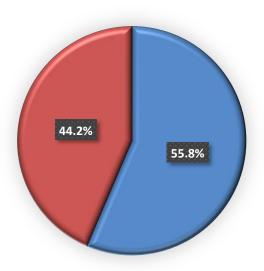




Oct-Dec 2018



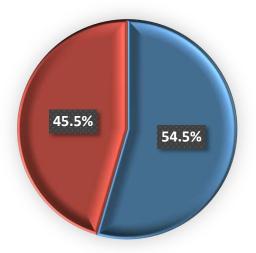
Jul-Sep 2018



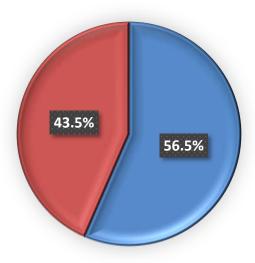
IVCs – By Release Status

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

Jan - Mar 2018



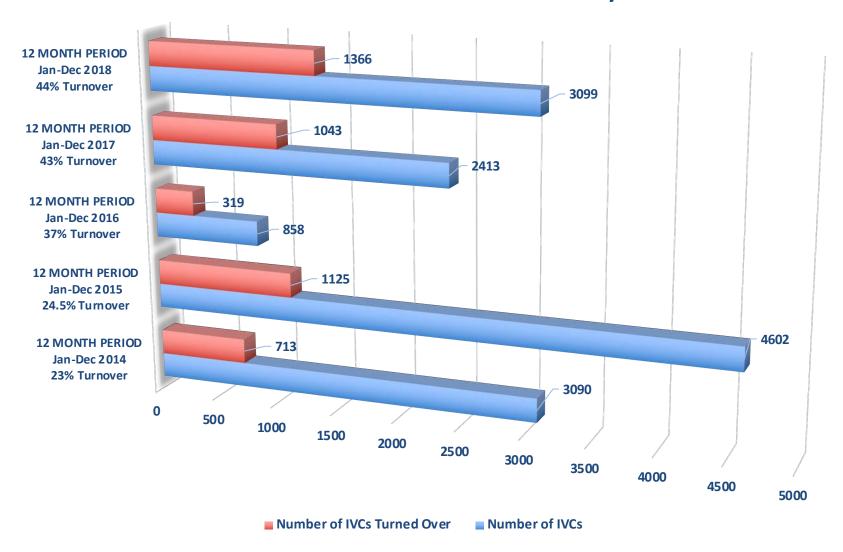
Apr - Jun2018





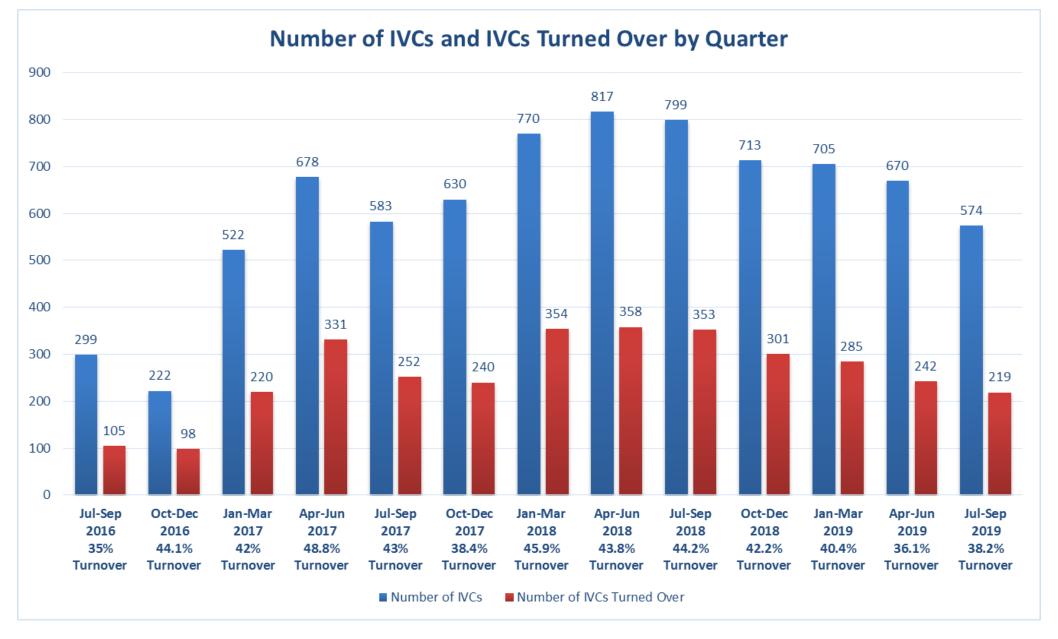


Number of IVCs and IVCs Turned Over by Year





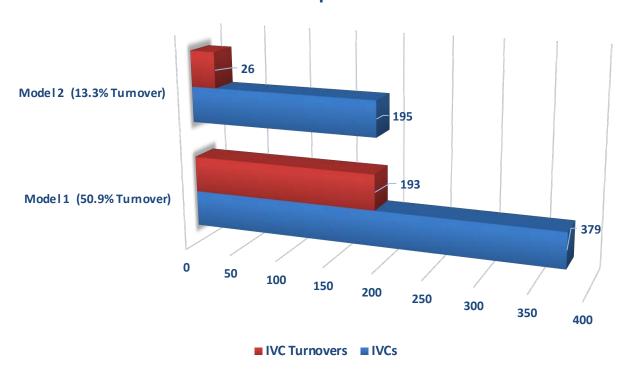






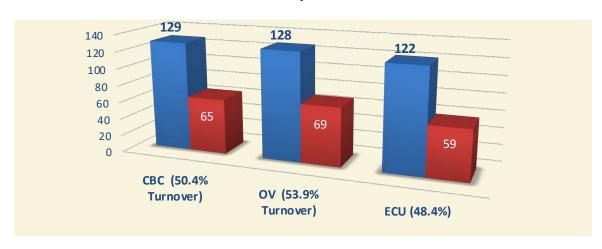


Number of IVCs and IVC Turnovers by Model Jul-Sep 2019





Jul-Sep 2019



Apr-Jun 2019 131 135 131 140 120 100 80 60 73 40 62 20 56 CBC (55.7% OV (45.9% Turnover) ECU (42.7%) Turnover)

IVCs

■ IVC Turnovers

Number of IVCs and IVC Turnovers by Provider





Satisfaction Surveys

- Satisfaction surveys are done twice a year.
- Most recent surveys were conducted in September 2019 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.
 - ED staff also received a pop-up within the portal with a link to the survey.
- Surveys were completed online via Qualtrics software



Satisfaction Surveys Methodology

Satisfaction surveys were conducted in September 2019 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

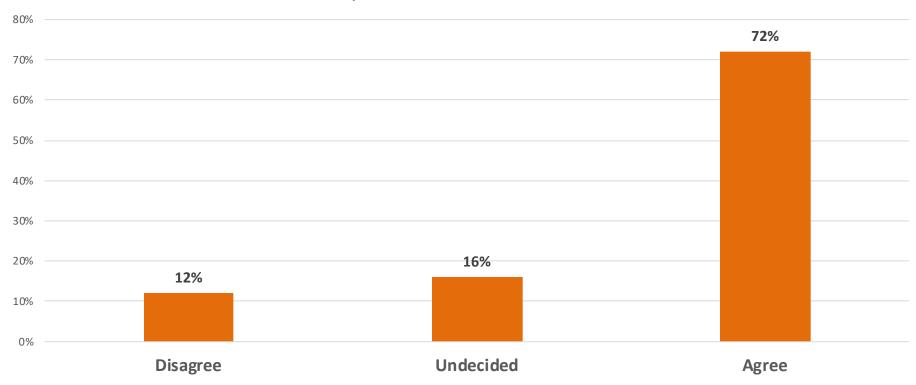
Each group was given a different survey (with different questions) based on their role in the program.



Model 1 Hospital ED Staff Results (n=25)

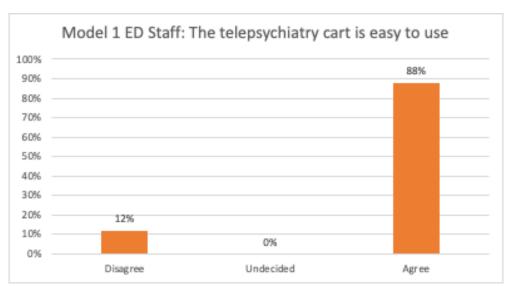
Model 1 ED Staff: Telepsychiatry consults have enhanced behavioral health patient care in our ED

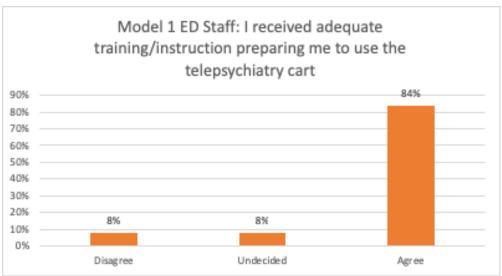
**this question used to measure overall satisfaction

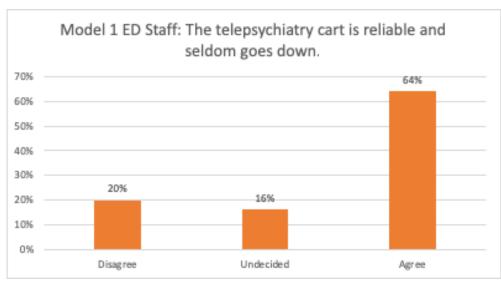


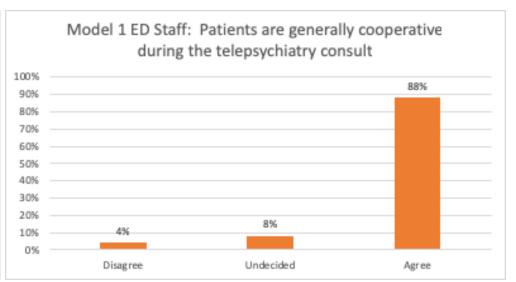


Model 1 Hospital ED Staff Results (n=25)





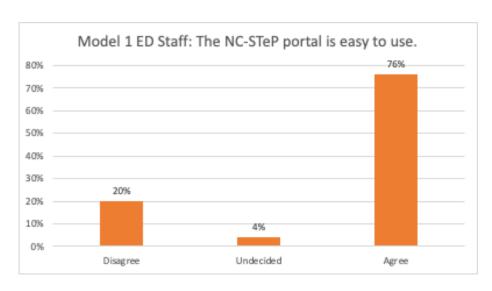


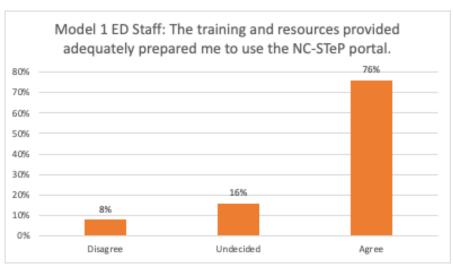


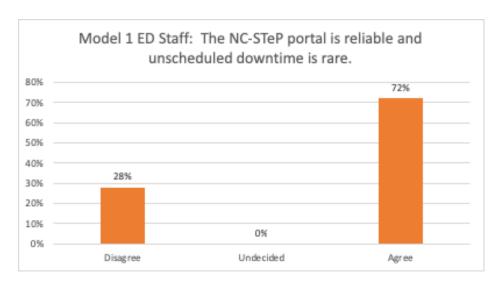


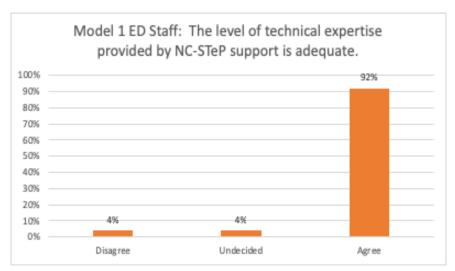


Model 1 Hospital ED Staff Results (n=25)







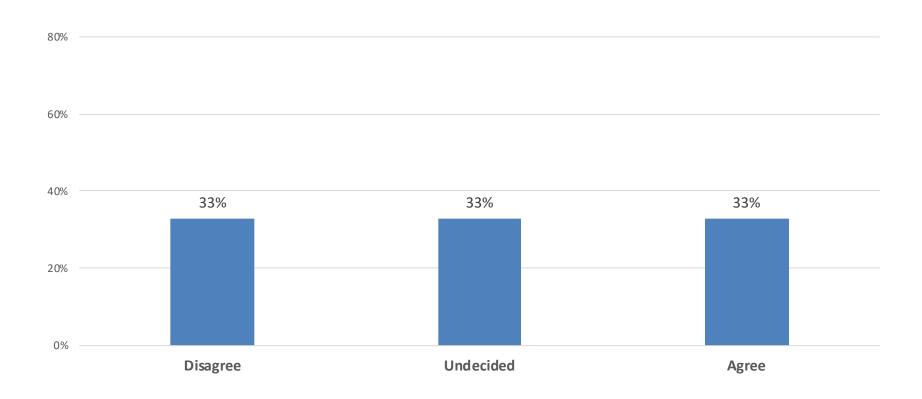




Model 1 Hospital ED Physicians Results (n=3)

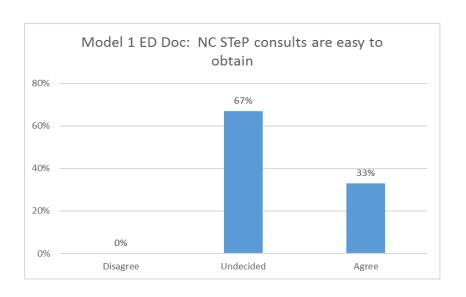
Model 1 ED Doc: NC-STeP consults have improved the quality of care for mental health and substance abuse patients in our ED

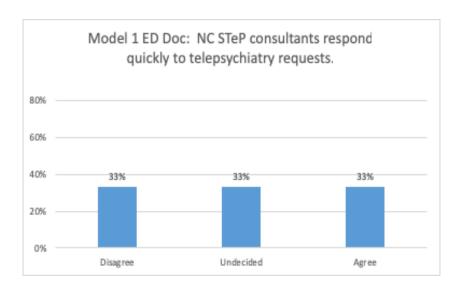
**this question used to measure overall satisfaction

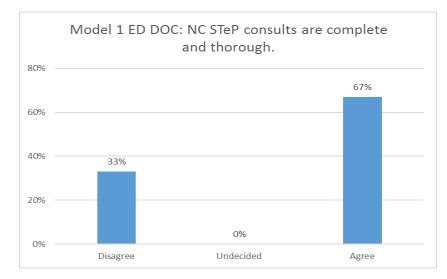




Model 1 Hospital ED Physicians Results (n=3)

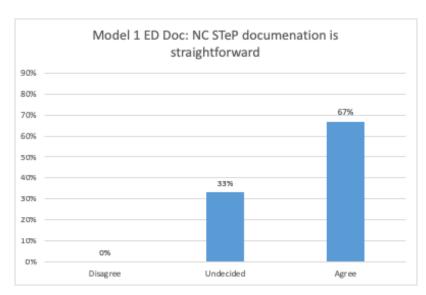


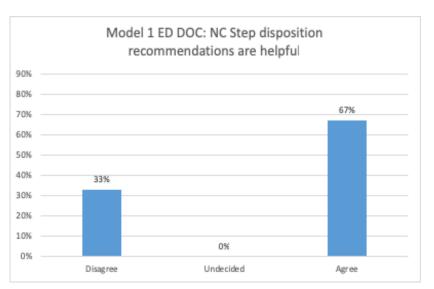


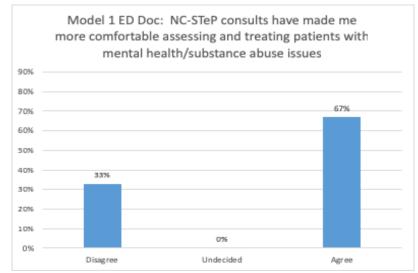




Model 1 Hospital ED Physicians Results (n=3)





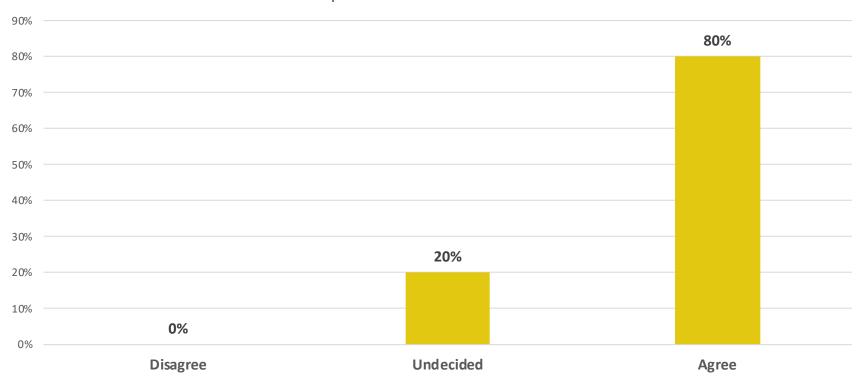




Model 1 Provider Psychiatrist Results (n=5)

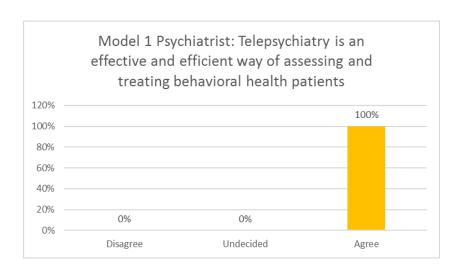
Model 1 Psychiatrist: I am satisfied with providing psychiatric consults via telepsychiatry

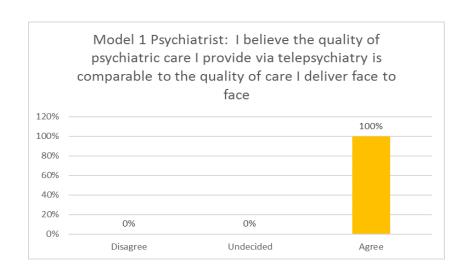
**this question used to measure overall satisfaction

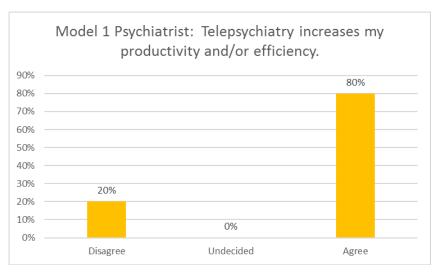


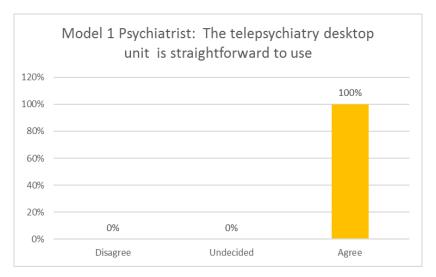


Model 1 Provider Psychiatrist Results (n=5)





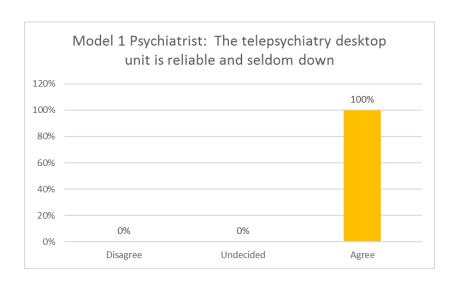


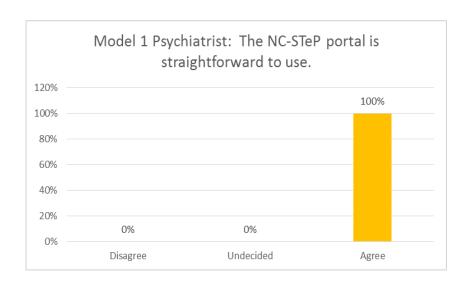


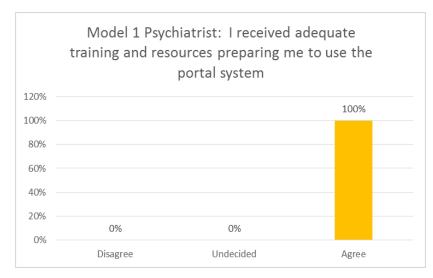


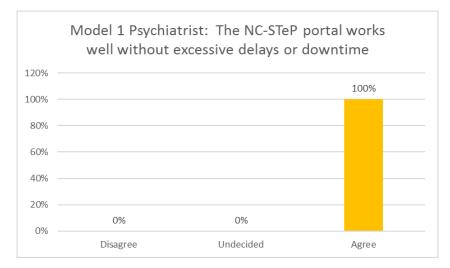


Model 1 Provider Psychiatrist Results (n=5)









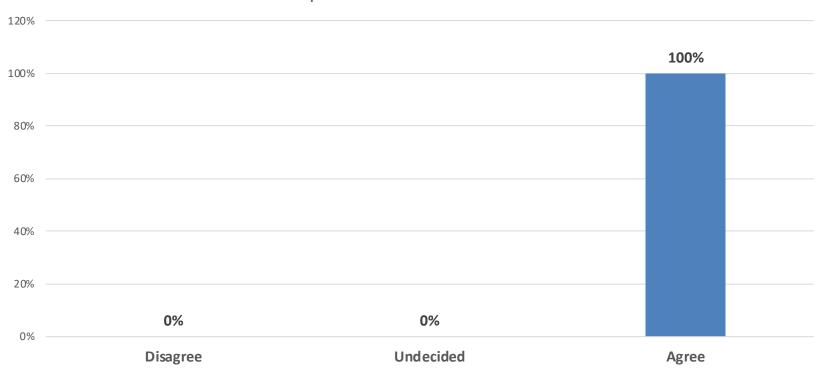




Model 1 Psychiatric Intake Specialist Results (n=3)

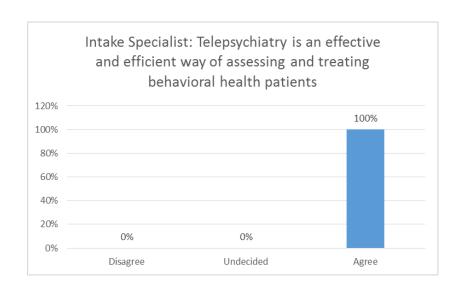
Intake Specialist: I am satisfied with providing psychiatric consults via telepsychiatry

**this question used to measure overall satisfaction

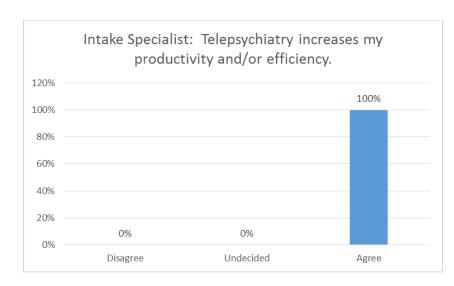


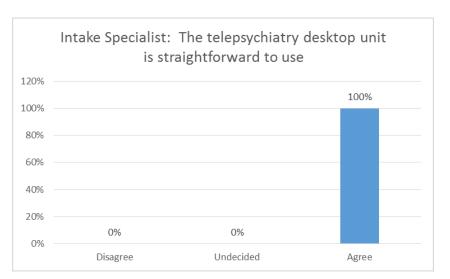


Model 1 Psychiatric Intake Specialist Results (n=3)



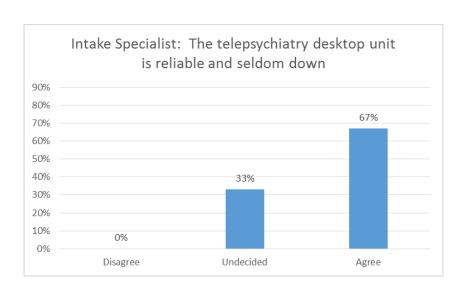


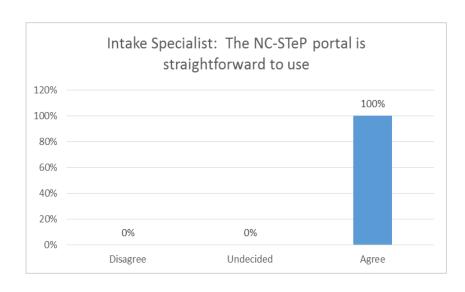


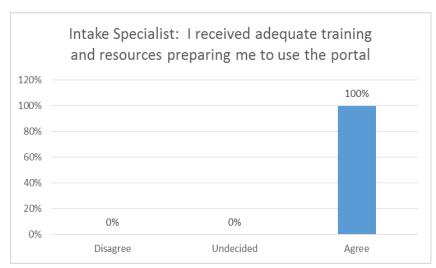


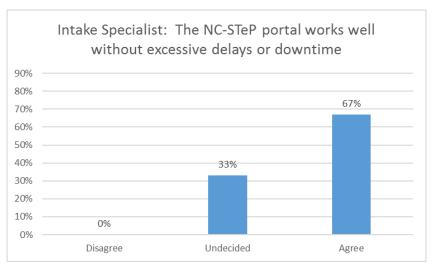


Model 1 Psychiatric Intake Specialist Results (n=3)







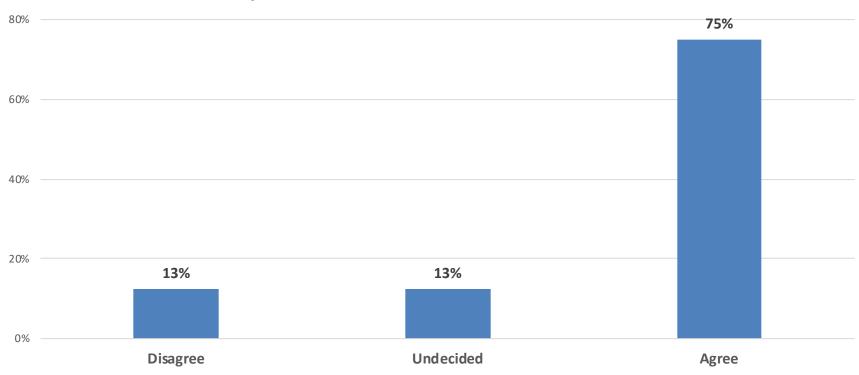




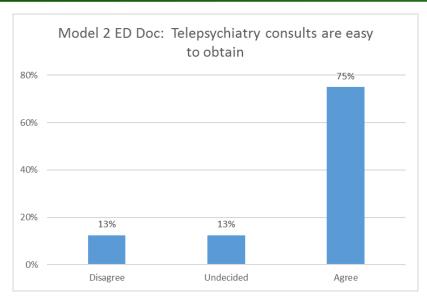


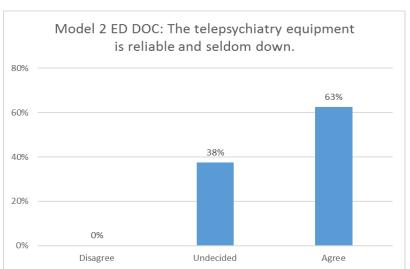
Model 2 Hospital ED Physicians Results (n=8)

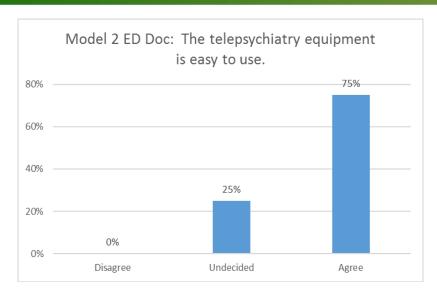
Model 2 ED Doc: Telepsych consults have improved the quality of care for mental health and substance abuse patients in our ED **this question used to measure overall satisfaction

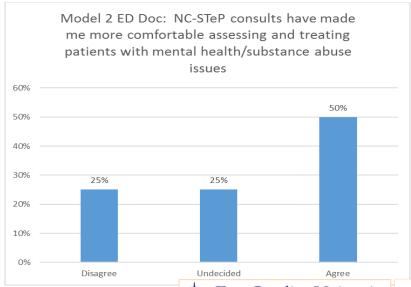


Model 2 Hospital ED Physicians Results (n=8)









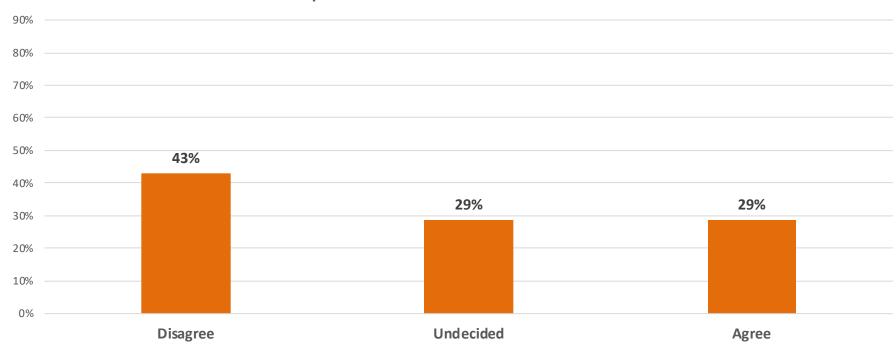




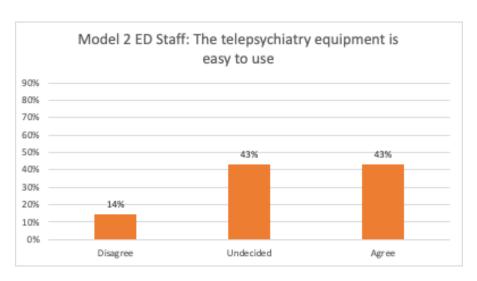
Model 2 Hospital ED Staff Results (n=7)

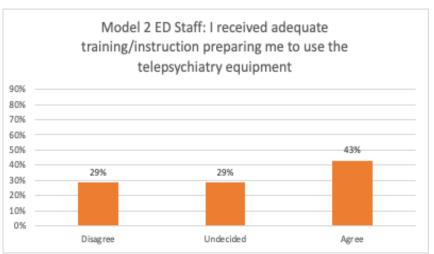
Model 2 ED Staff: Telepsychiatry consults have enhanced behavioral health patient care in our ED

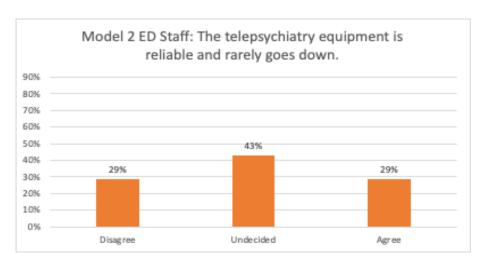
**this question used to measure overall satisfaction

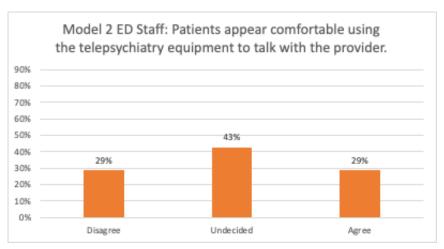


Model 2 Hospital ED Staff Results (n=7)







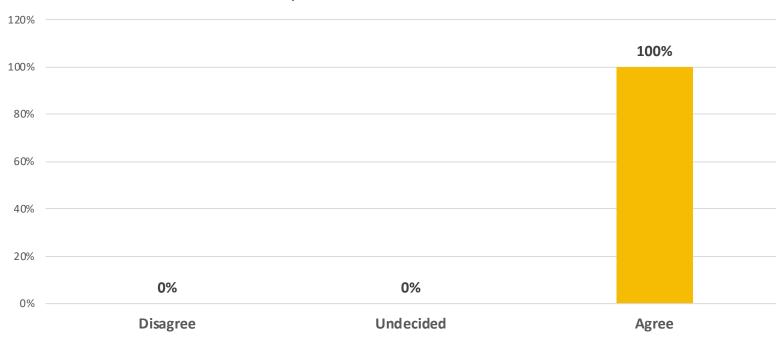




Model 2 Provider Psychiatrist Results (n=3)

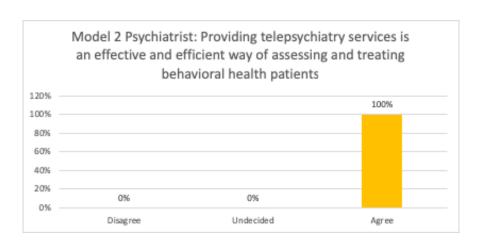
Model 2 Psychiatrist: I am satisfied with providing psychiatric consults via telepsychiatry

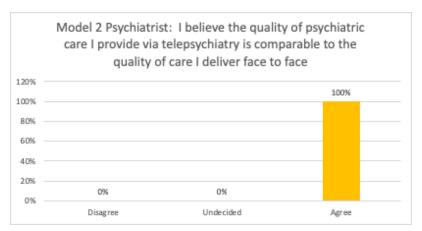
**this question used to measure overall satisfaction

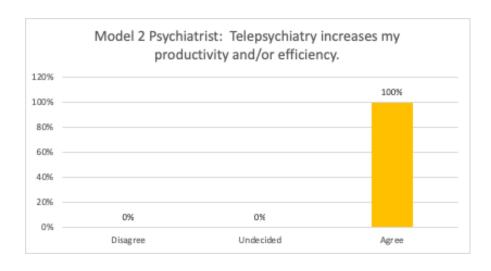


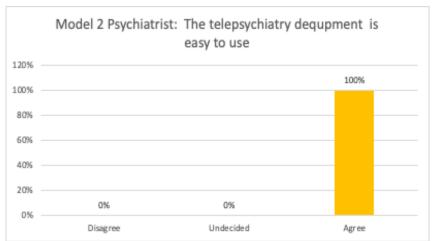


Model 2 Provider Psychiatrist Results (n=3)



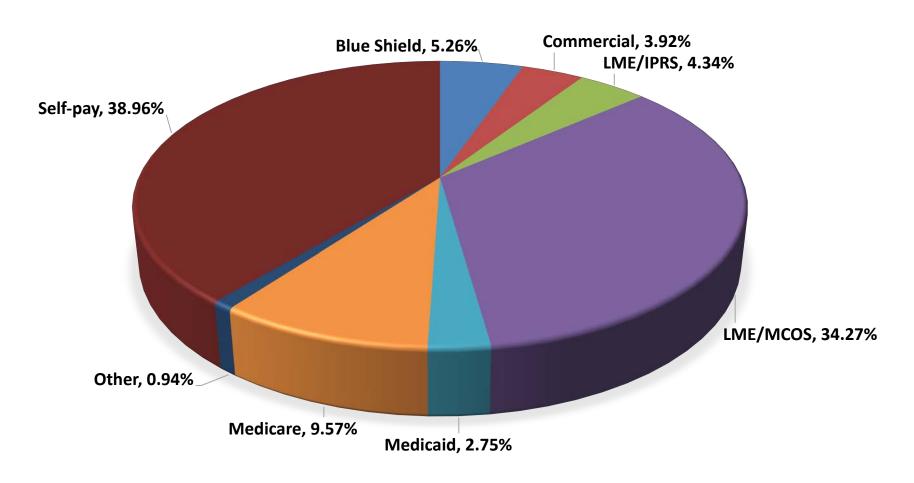






NC-STeP Charge Mix

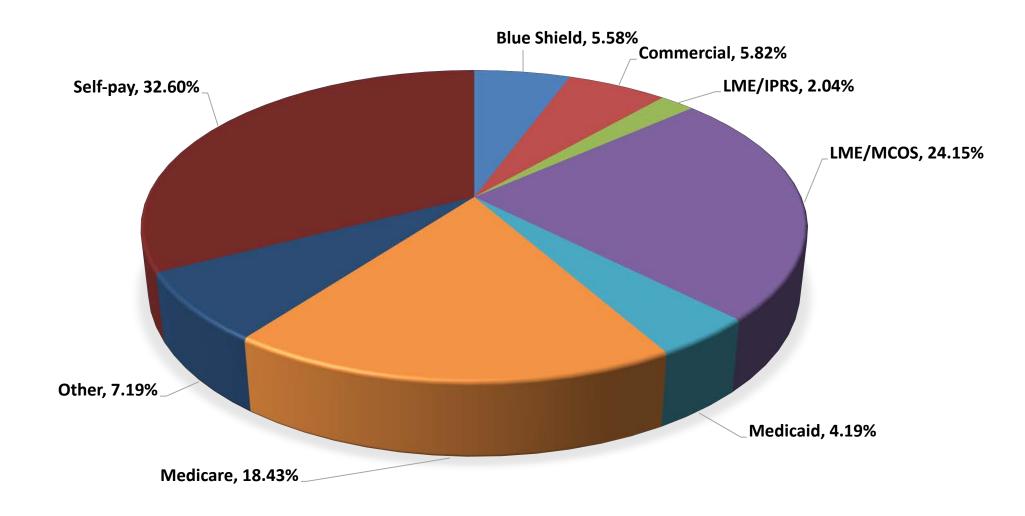
QTD 2020 - Quarter 1





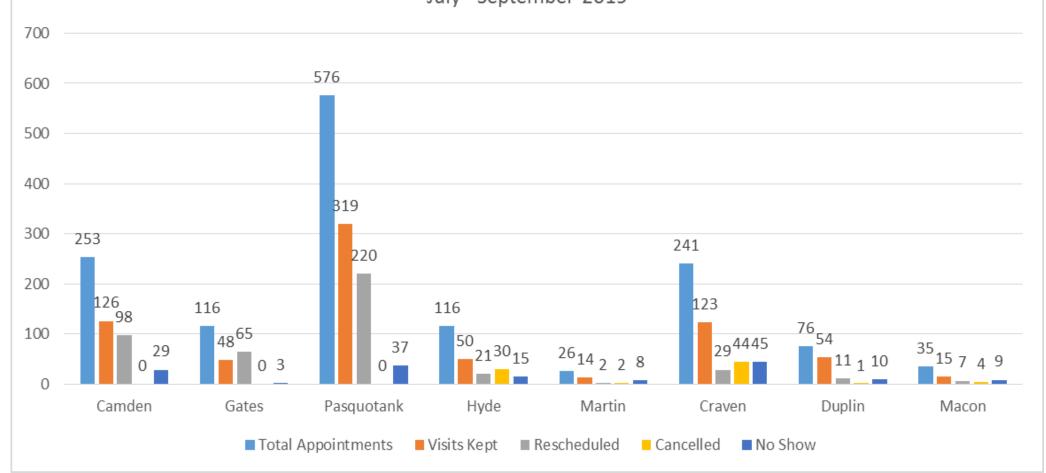
NC-STeP Charge Mix – Project to Date

Service Dates: October 1, 2013 – September 30, 2019







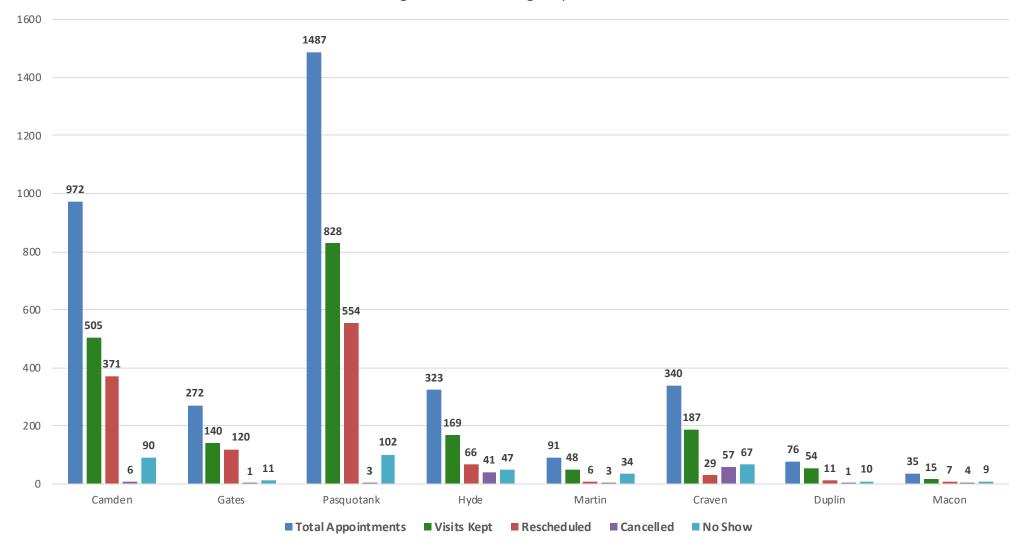






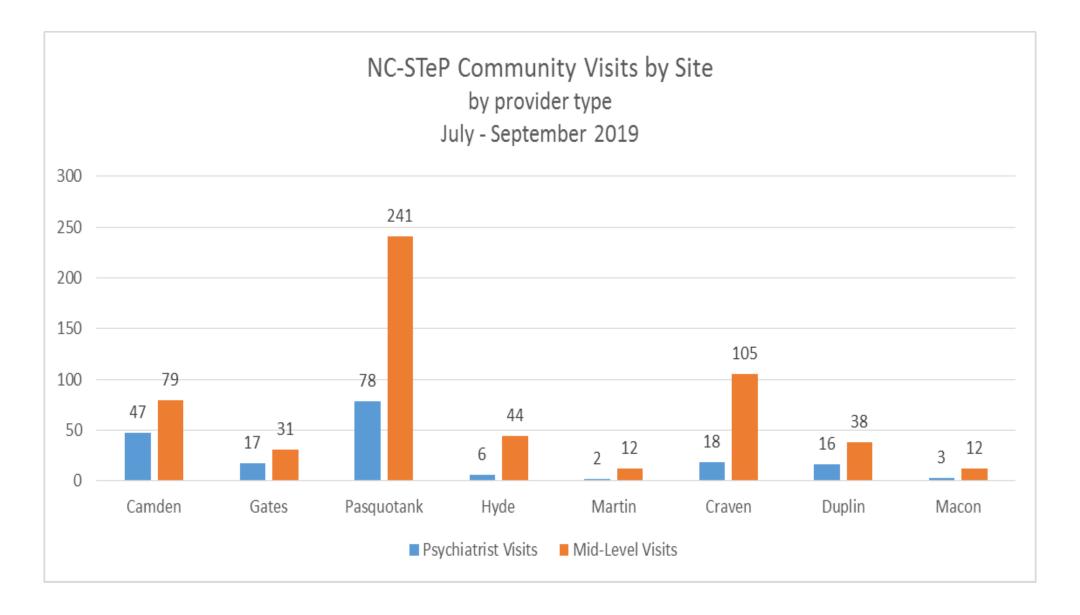
NC-STeP Community Appointments by Site

Appointments, Visits Kept, Rescheduled, Cancelled, No Show Program to Date Through September 2019





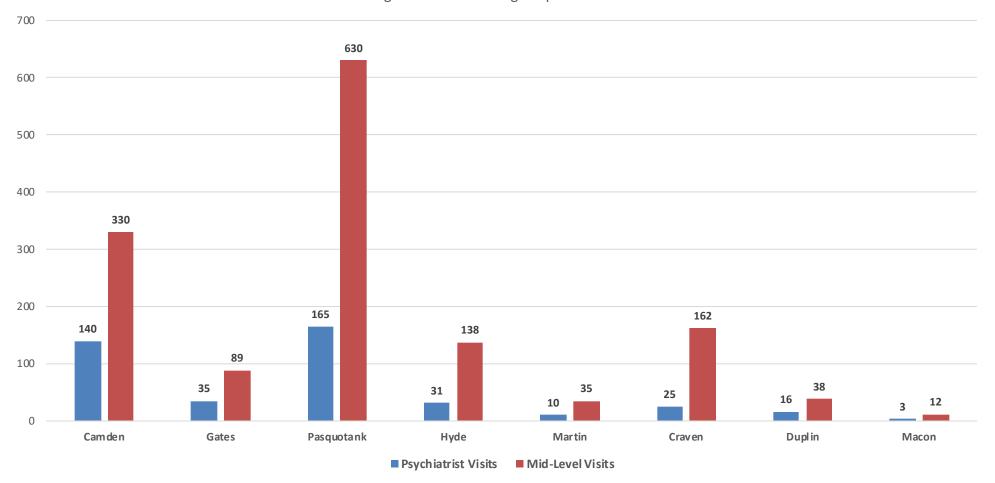








NC-STeP Community Visits by Site by provider type Program to Date Through September 2019





NC-STeP Status as of September 30, 2019

- 57 hospitals in the network. 53 live.
- 39,533 total psychiatry assessments since program inception
- 5,420 IVCs overturned
 - Cumulative return on investment = \$29,268,000
 (savings from preventing unnecessary hospitalizations)
- Eight Clinical Provider Hubs with 53 consultant providers
- Administrative costs below industry standard
- Over 30% of the patients served had no insurance coverage

Model 1 – Live



Hospital Name	Portal Go Live
Vidant Outer Banks Hospital	08/08/2016
Vidant Bertie Hospital	08/15/2016
Vidant Chowan Hospital	08/15/2016
Vidant Edgecombe Hospital	08/15/2016
Sentara Albemarle Medical Center	08/17/2016
Vidant Beaufort Hospital	08/22/2016
Vidant Duplin Hospital	08/22/2016
Lenoir Memorial Hospital	09/06/2016
St Lukes Hospital	09/07/2016
Wilson Medical Center	09/20/2016
Morehead Memorial Hospital	10/05/2016
DLP Harris Regional Medical	10/14/2016
DLP Swain Community Hospital	10/14/2016
Murphy Medical Center	10/26/2016
DLP Maria Parham Medical Center	11/15/2016
UNC Chatham Hospital	12/21/2016
J. Arthur Dosher Memorial Hospital	01/07/2017
Ashe Memorial Hospital	01/26/2017
Northern Hospital of Surry County	03/07/2017
Southeastern Regional Medical Center	08/08/2017
Halifax Regional Medical Center	08/08/2017
DLP Person Memorial Hospital	08/17/2017
DLP Haywood Regional Medical Center	08/22/2017
Lake Norman Regional Medical Center	10/17/2017
Pender Memorial Hospital	12/07/2017
DI D. Maria Barham Franklin	2/1/2010

Model 1 – In Process



Hospital Name	Portal Go Live
Park Ridge Health	October 2018
Harnett Hospital	July 2019
Betsy Johnson Hospital	July 2019
Iredell Memorial Hospital	September 2019

Model 1 – Participation Pending



Hospital Name	Program Status
DLP Central Carolina Hospital	Reviewing Contract
Our Community Hospital	Reviewing Contract
Pioneer Community Hospital of Stokes (Greene)	Reviewing Contract
Pioneer Community Hospital of Stokes (King)	Reviewing Contract
Washington County Hospital	Reviewing Contract
Wayne Memorial Hospital	Reviewing Contract

Model 2



Hospital Name	Go Live Date/Status
Cape Fear Valley Medical Center	06/2014
Cape Fear Valley Bladen Hospital	07/2014
Cone Health Behavioral Health Hospital	07/2014
Cone Health MedCenter High Point	07/2014
Forsyth Medical Center	07/2014
McDowell Hospital	07/2014
Mission Hospital	07/2014
Novant Health Clemmons Medical Center	07/2014
Novant Health Kernersville Medical Center	07/2014
Wesley Long Hospital	07/2014
Mission Children's Hospital	08/2014
Annie Penn Hospital	08/2014
Moses H. Cone Memorial Hospital	08/2014
Blue Ridge Regional Hospital	09/2014
Transylvania Regional Hospital	09/2014
Women's Hospital – Cone Health	10/2014
Angel Medical Center	01/2015
Highlands-Cashiers Hospital	03/2015
Novant Health Thomasville Medical Center	03/2015
Alamance Regional Medical Center	04/2015
Hugh Chatham Memorial Hospital	12/2015
Cape Fear Valley Hoke Hospital	06/2016
UNC Johnston, Clayton	06/2016
UNC Johnston, Smithfield	06/2016
Novant Health Presbyterian Hospital	11/2016
Novant Health Rowan Medical Center	07/2017
Novant Health Brunswick Medical Center	07/2017

Expressed Possible Interest



Hospital Name	Program Status	NC-STeP Model
Duke Regional Hospitals	TBD	TBD
Novant Matthews Medical	TBD	Model 2

Terminated



	116 5161
Hospital Name	Hospital Name
Alleghany Memorial Hospital	Martin County General
Carolina East	Nash General Hospital
Carteret	Sampson
Columbus Regional	UNC Hillsborough
Davie Medical	WakeMed Apex
DLP Rutherford Regional Medical Center	WakeMed Briar Creek
FirstHealth Montgomery Memorial Hospital	WakeMed Cary
FirstHealth Moore Regional Hospital	WakeMed Garner
FirstHealth Regional Hospital - Hoke	WakeMed North Healthplex
FirstHealth Richmond Memorial Hospital	WakeMed Raleigh
FirstHealth Sandhills Regional Medical	WakeMed Raleigh Children's ED
Lexington	WakeMed Psychiatric Observation Unit

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





Contact

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Director

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Greenville, NC 27834













NC-STeP Advisory Council Meeting

Friday December 13, 2019 1:00 pm – 3:00 pm North Carolina Psychiatric Association 4917 Waters Edge Drive, Suite 250 Raleigh, NC 27606

Agenda

1:00- 1:10 p.m.	Welcome
1:10- 1:15 p.m.	Review and Approval of September 10, 2019 Minutes
1:15- 2:15 p.m.	NC-STeP FY20-Q1 (Jul-Sept) Performance Data
2:15- 2:30 p.m.	Update on Community-Based Pilot(s)
2:30- 2:40 p.m.	 Old Business Legislative Funding for next fiscal year Startup Costs Allocation and an Annual Base Subscription for Hospitals
2:40- 2:45 p.m.	New Business
2:45- 2:50 p.m.	Announcements
3:00 p.m.	Adjourn

Join WebEx meeting

Meeting number (access code): 734 201 897

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Dial <u>734201897@ecu.webex.com</u>

You can also dial 173.243.2.68 and enter your meeting number.

Join by phone

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+1-415-655-0003 US Toll