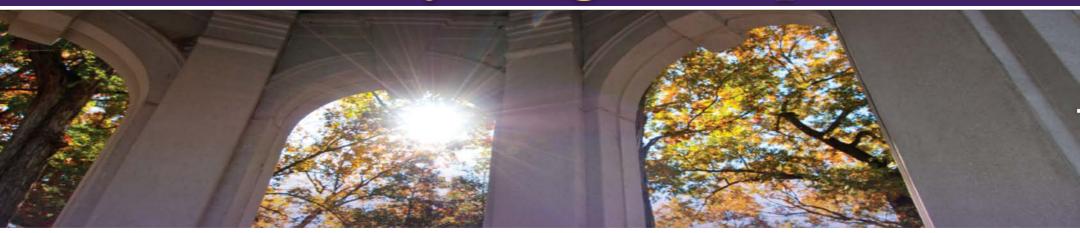


Quarterly Progress Update



Sy Atezaz Saeed, MD, MS, FACPsych,

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

Director North Carolina Statewide Telepsychiatry Program (NC-STeP)





NC-STeP Advisory Council Meeting Friday March 1, 2019 10:00 am- 12:00 pm

Agenda

- 10:00- 10:10 a.m. Welcome and Introductions
- 10:10- 10:15 a.m. Review and Approval of November 16, 2018 Minutes
- 10:15- 10:30 a.m. Brief Introduction to NC-STeP for New Members
- 10:30- 11:30 a.m. NC-STeP FY19-Q2 (Oct-Dec) Performance Data
- 11:30-11:45 a.m. Update on Community-Based Pilot(s)
- 11:45-11:50 a.m. New Business
- 11:50-11:55 am Announcements
- 12:00 p.m. Adjourn

Join WebEx meeting Meeting number (access code): 739 507 898

Join by phone <u>1-240-454-0879</u> USA Toll <u>1-240-454-0879</u> USA Toll <u>Global call-in numbers</u>

Members of the NC-STeP Advisory Council

- 1. Teresa Bowleg, MSN, RN Chief Nursing Officer, Erlanger Murphy Medical Center
- 2. Scott W. Brown, MD, FACEP NCCEP Board of Directors/ Harnett Heath System
- 3. Jennie Byrne, MD, PhD Representing NCMS
- 4. Charles K. Dunham, MD Medical Director Behavioral Health Services, Novant
- 5. Robin Huffman Executive Director NCPA
- 6. Nicholle Karim Director of Behavioral Health, NCHA
- 7. Josephine Mokonogho, 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
- 11. 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

- 1. Renee Clark, MSW, DHHS-ORH
- 2. Sheila Davies, Ph.D., NC-STeP/MedAccess Partners
- 3. Phil Donahue, NC-STeP/MedAccess Partners
- 4. Art Eccleston, DHHS, Division of Mental Health
- 5. Nick Galvez, DHHS-ORH
- 6. Katherine Jones, Ph.D., NC-STeP/ECU
- 7. Maggie Sauer, DHHS-ORH
- 8. Mary Schiller, NC-STeP/ECU
- 9. John Stephen Carbone, MD, JD, MBA, NC-STeP
- 10. Greg Tacozza, NC-STeP/ECU





Developed in response to Session Law 2013-360.

- G.S. 143B-139, 4B
- Recodified as G.S. 143B-139.4B(a)(1b) by Session Laws 2018-44, s. 15.1, effective July 1, 2018



North Carolina Distribution of Psychiatrists and MH Services at the County Level

- 31 out of 100 counties in NC have no psychiatrists
- 63 counties have less than 1.9 psychiatrists per 10,000
- 13 counties have no active behavioral health provider (BHP)
- 35 counties have less than 1 per 10,000 BHPs
- According to federal guidelines, 58 counties in North Carolina qualify as Health Professional Shortage Areas



Where can you go if you do not have access to community-based behavioral health care?

- North Carolina has seen high emergency department admissions related to behavioral health issues and extended lengths of stays (LOS), ranging from long hours to multiple days.¹
- In 2013, NC hospitals had 162,000 behavioral health emergency department visits.²
- In 2010, patients with mental illness made up about 10 percent of all emergency room visits in North Carolina, and people with mental health disorders were admitted to the hospital at twice the rate of those without.³

- 2. NC Hospital Association
- 3. Study by the Centers for Disease Control



^{1.} Akland, G. & Akland, A. (2010). State psychiatric hospital admission delays in North Carolina. (<u>http://naminc.org/nn/publications/namiwakerpt.pdf</u>.)

Telepsychiatry can offer help!

Telepsychiatry is defined in the statute as the delivery of acute mental health or substance abuse care, including diagnosis or treatment, by means of two-way real-time interactive audio and video by a consulting provider at a consultant site to an individual patient at a referring site.



NC- STeP Vision

If an individual experiencing an acute behavioral health crisis enters an emergency department, s/he will receive timely specialized psychiatric treatment through the statewide network in coordination with available and appropriate clinically relevant community resources.





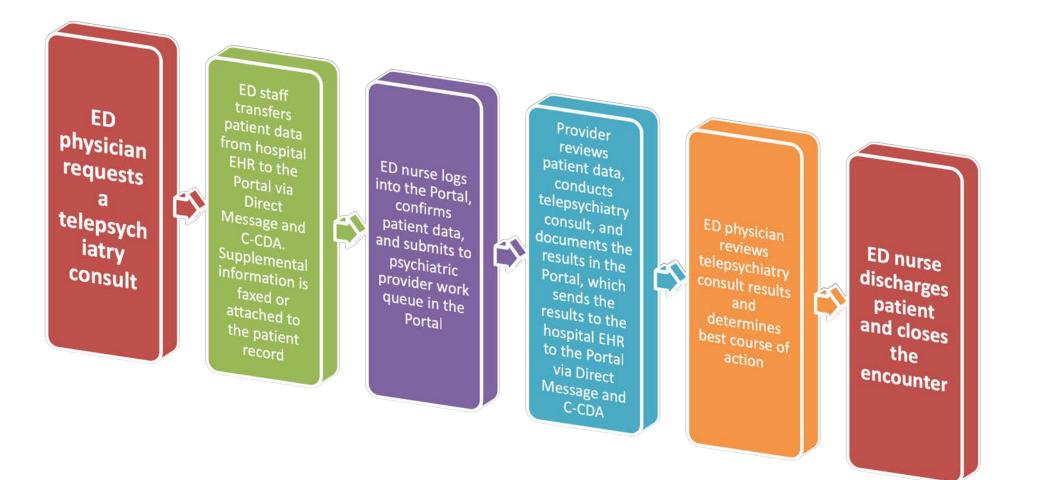
Center for Telepsychiatry and e-Behavioral Health

ECU Center for Telepsychiatry is the home for the statewide program (NC-STeP) that is connecting 60-75 hospital emergency departments across the state of North Carolina to provide psychiatric assessments and consultations to patients presenting at these EDs.

http://www.ecu.edu/cs-dhs/telepsychiatry/index.cfm



Workflow for the Portal





NC-STeP Quality Management and Outcomes Monitoring Processes: October - December 2018

- 56 hospitals in the network. 53 live, with 40 reporting Telepsychiatry patients in their ED
 - not all live hospitals had telepsychiatry patients
- 708 patient assessments billed for Model 1 hospitals during the reporting period
- The Median Length of Stay was 24.6 hours
- The Average Length of Stay was 43.5 hours
 - 42.3 hours for those discharged to home
 - 47.5 hours for those transferred to another facility



NC-STeP Quality Management and Outcomes Monitoring Processes: October - December 2018

- 704 ED patients who received telepsychiatry services had an IVC in place during their ED stay.
 - 295 (41.9%) of those patients did not have an IVC in place when discharged.
- Of the ED patients who received telepsychiatry services, 39.1% were discharged to home. 36.3% were discharged to another facility.

*Note: Data for Novant hospitals for October through December 2018 did not include IVC information (Novant Kernersville, Novant Thomasville, Novant Clemmons, Novant Rowan, Novant Brunswick). Data for Cone hospitals did not include a discharge disposition, so Cone is not included in the average LOS calculation by discharge (i.e. Home, Transfer). They are included in the overall average LOS and median LOS.



anto	
NC-STeP	

NC-STeP	Since project inception in November 2013	During Calendar Year 2014	During Calendar Year 2015	During Calendar Year 2016	During Calendar Year 2017	During Calendar Year 2018
Total Patient Encounters	25,167	5,144	7,128	1,896	3,970	6,087
Model 1 Hospital Patient Encounters	16,758	4,578	5,849	706	2,043	2,640
Model 2 Hospital Patient Encounters	8,409	566	1,279	1,190	1,927	3,447
Total Number of Assessments (Billed Assessments for Model 1 Hospitals + Number of Patient Encounters for Model 2 Hospitals)	35,524	8,130	13,573	1,942	4,347	6,658

NC-STeP	Calendar Year 2018	During Quarter Jan-Mar 2018	During Quarter Apr-Jun 2018	During Quarter Jul-Sep 2018	During Quarter Oct-Dec 2018
Total Patient Encounters	6,087	1,238	1,287	1,950	1,612
Model 1 Hospital Patient Encounters	2,640	641	677	716	606
Model 2 Hospital Patient Encounters	3,447	597	610	1,234	1,006
Total Number of Assessments (Billed Assessments for Model 1 Hospitals + Number of Patient Encounters for Model 2 Hospitals)	6,658	1,393	1,448	2,103	1,714

NC-STeP Benchmarks

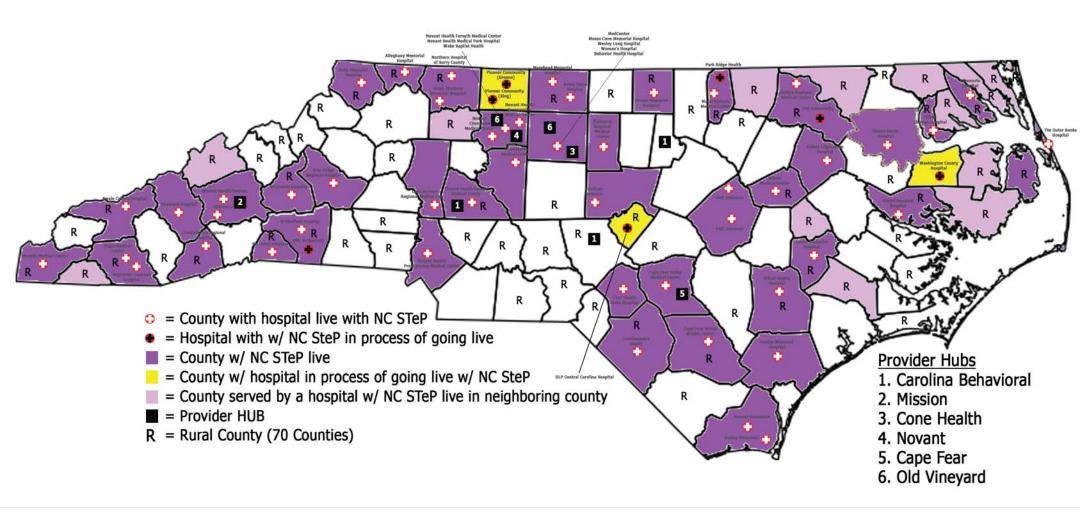
	Goals	Values Reached			
NC-STeP	Cumulative Target to be reached by (06/30/2019)	Value Reached as of most recent previous quarter (09/30/2018)	Value Reached as of this reporting quarter (12/31/2018)	Year-to-Date Total with % of the Yearly Target (12/31/2018)	
Number of IVCs	2,817	799	704	1,503	
				53% of Yea	arly Target
Number of IVCs Overturned	1,197	353	295	648 54% of Yea	arly Target
Total Number of Assessments (Billed assessments for Model 1 hospitals + Number of patient encounters for Model 2 hospitals.)	5,086	2,103	1,714	3,817 75% of Yea	arly Target

EVALUATION CRITERIA	BASELINE VALUES/MEASURES AS REPORTED ON 03/31/2018	TARGET TO BE REACHED BY 06/30/2019	VALUES/MEASURES REACHED AS OF 12/31/2018
 The number of full- time equivalent (FTE) positions supported by these contracts 	2.3 FTEs	3.65 FTEs	2.75 FTEs
2. The number of overturned involuntary commitments (inpatient admission prevented)	835	1,197	295 in this quarter YTD Total 648 Cumulative total since program inception 4,668
 The number of participating consultant providers 	47 NC-STEP	48	47

EVALUATION CRITERIA	BASELINE VALUES/MEASURES AS REPORTED ON 03/31/2018	TARGET TO BE REACHED BY 06/30/2019	VALUES/MEASURES REACHED AS OF 12/31/2018
 The number of telepsychiatry assessments conducted. 	3,533	5,086	1,714 in this quarter YTD Total 3,817 Cumulative total since program inception 35,524
5. The number of telepsychiatry referring sites	53	54	56 53 Live
6. The reports of involuntary commitments to enrolled hospitals	1,996 NC-STeP	2,817	704 in this quarter YTD Total 1,503 Cumulative total since program inception 14,434

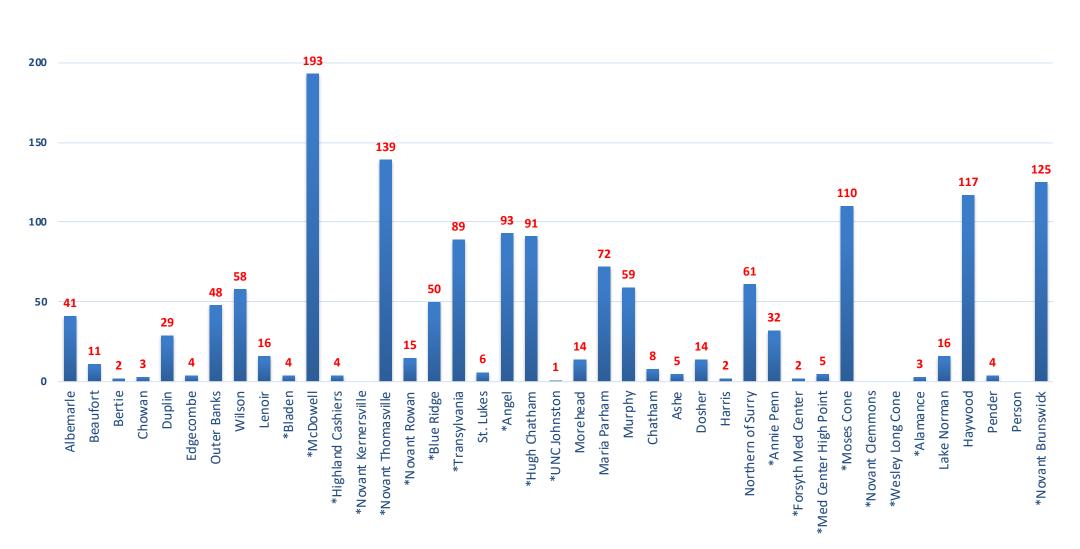
EVALUATION CRITERIA	BASELINE VALUES/MEASURES AS REPORTED ON 03/31/2018	TARGET TO BE REACHED BY 06/30/2019	VALUES/MEASURES REACHED AS OF 12/31/2018
7. The average (mean) Length of Stay for all patients with a primary mental health diagnosis across all dispositions.	56.8 hours	55 hours	QTD = 43.5 Median = 24.6
8. The rate of "satisfied" or "strongly satisfied" among emergency department staff participating in NC- STeP.	73%	73%	Satisfaction surveys not conducted this quarter

EVALUATION CRITERIA	BASELINE VALUES/MEASURES AS REPORTED ON 03/31/2018	TARGET TO BE REACHED BY 06/30/2019	VALUES/MEASURES REACHED AS OF 12/31/2018	
13. Cumulative return on investment to state psychiatric facilities through overturned involuntary commitments. (inpatient admission prevented)	\$4,509,000	\$6,463,800	\$1,593,000 in this quarter YTD \$3,499,200 Cumulative total since program inception \$25,207,200	
NC-STeP				





Number of NC-STeP Patients by Hospital October - December 2018



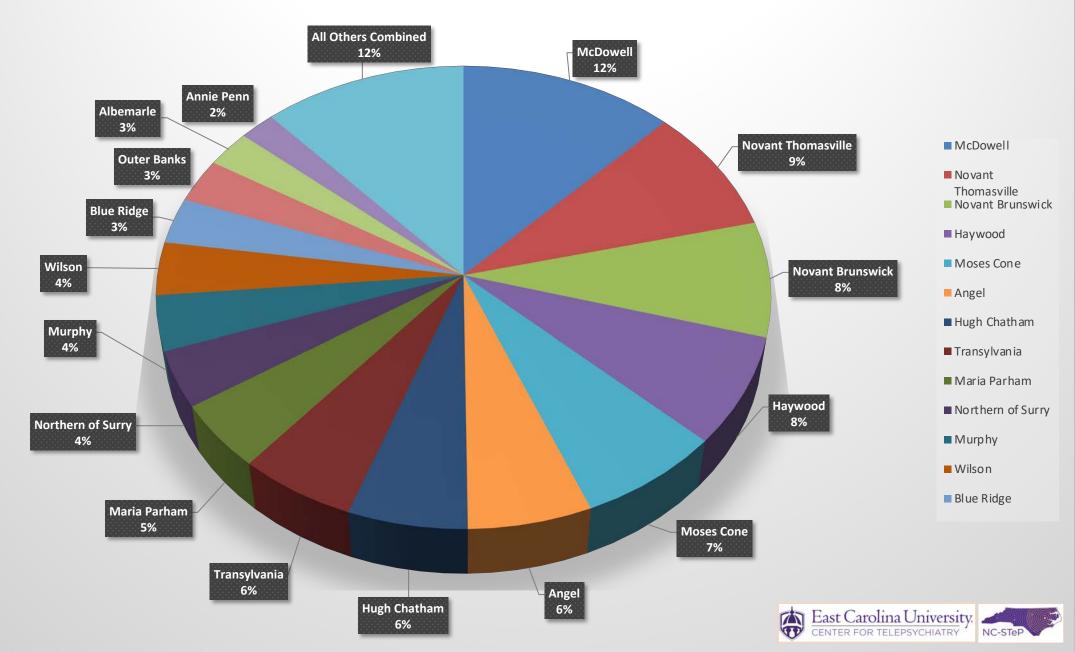
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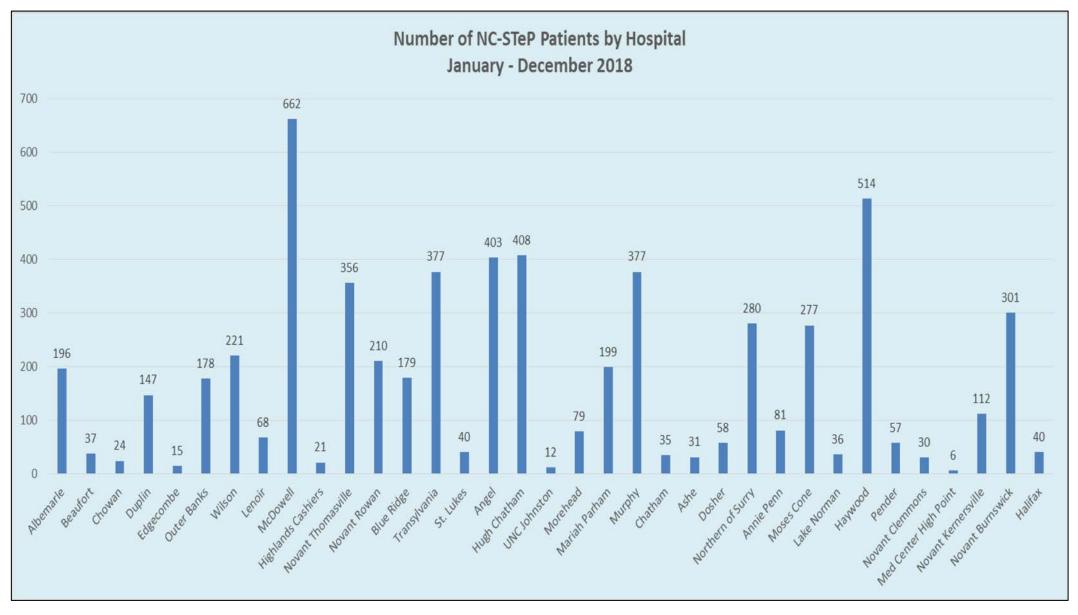




Percent of Use by Hospitatal Oct-Dec 2018

(based on number of patient encounters)



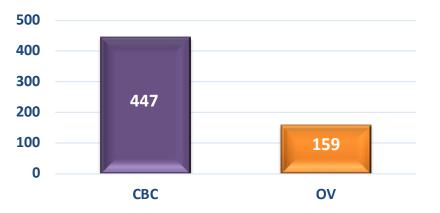


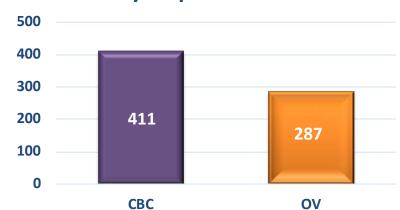
Note: Several hospitals with a count of 5 or fewer were not included on this chart. Those hospitals are: Swain, Person, Wesley Long Cone, Alamance, Novant Forsyth, Bladen, Bertie



Number of Patients by Provider (Model 1)

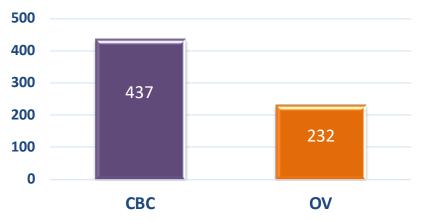
October-December 2018

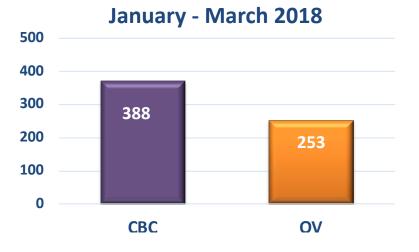




July -September 2018

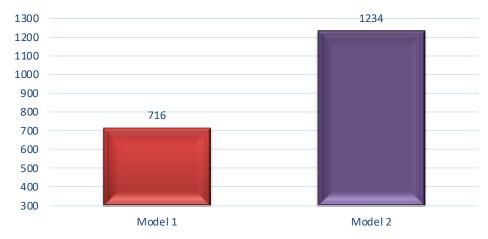
April - June 2018



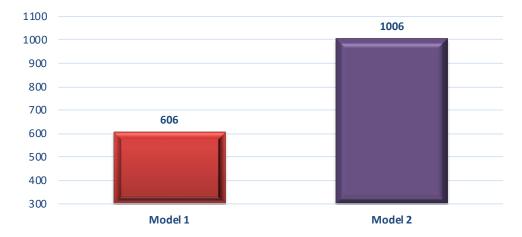




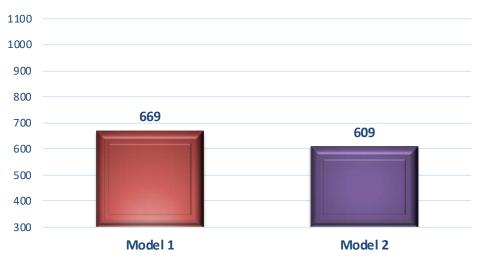
July-Sep 2018



Oct-Dec 2018



April - June 2018



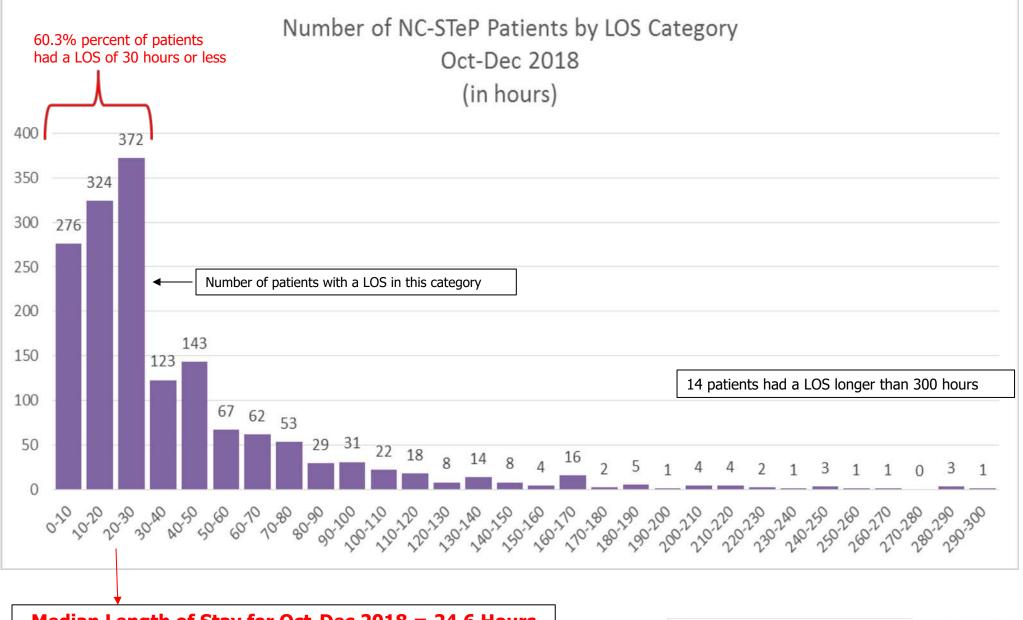
Number of Patients by Model



Number of NC-STeP Patients by Model by Quarter January 2017 - December 2018

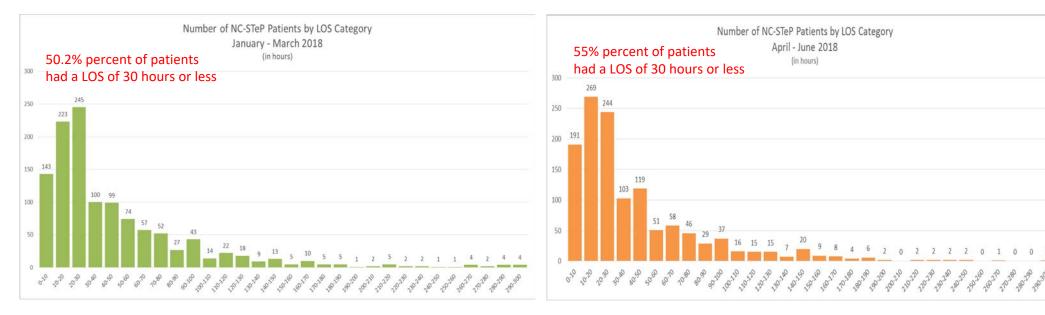


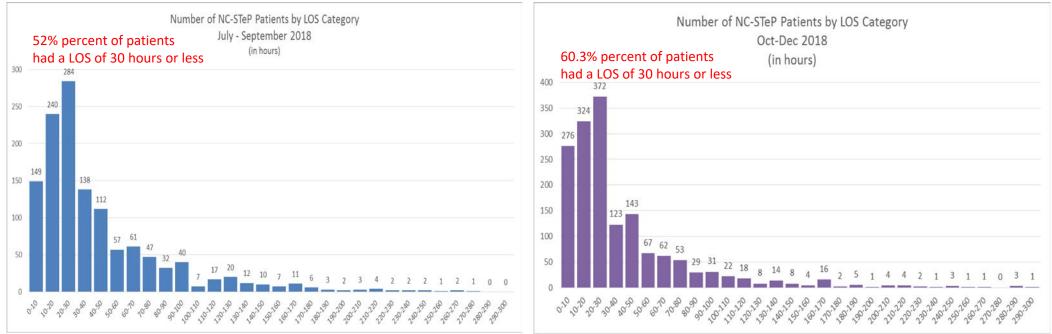




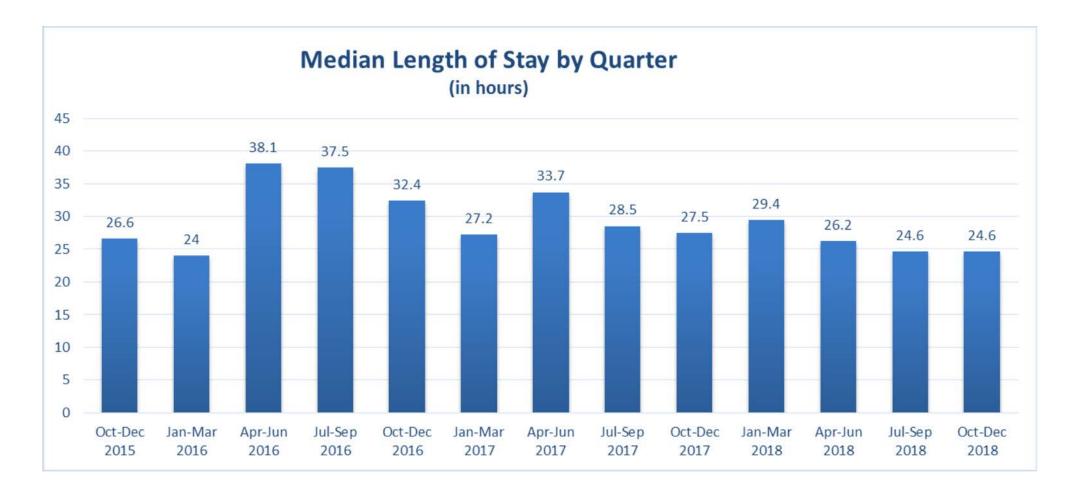
Median Length of Stay for Oct-Dec 2018 = 24.6 Hours



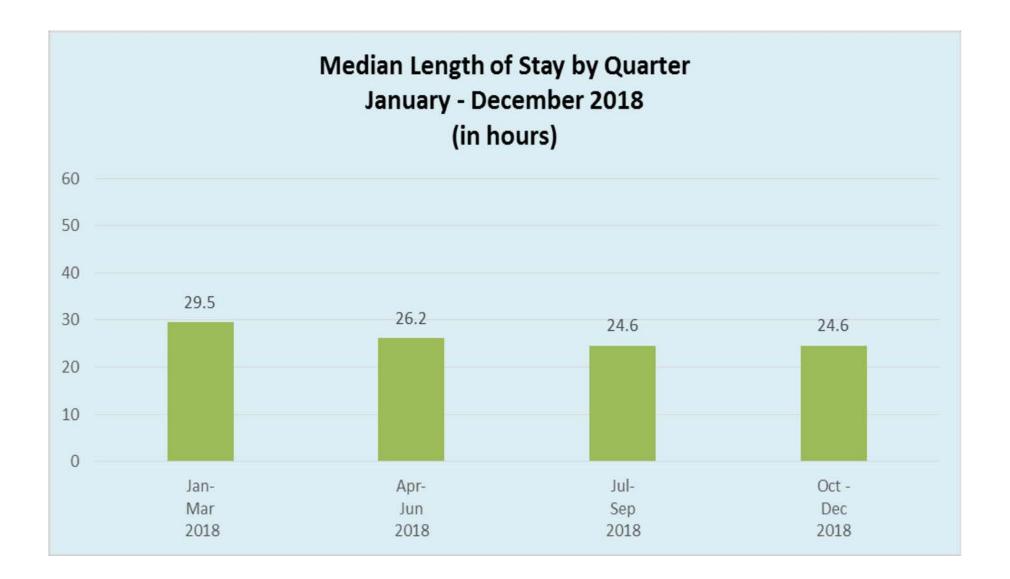






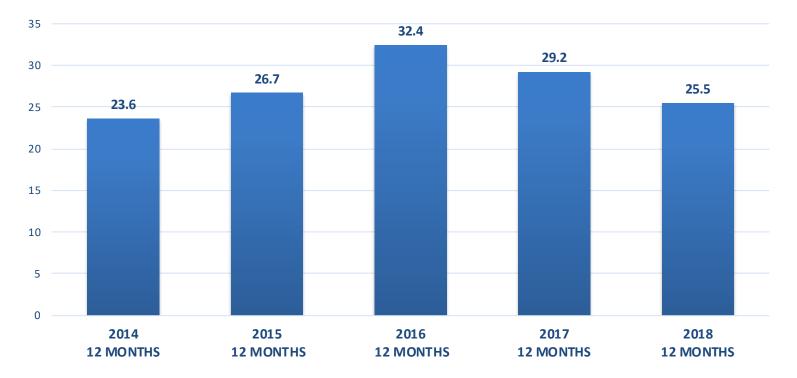








Median Length of Stay by Year (in hours)





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

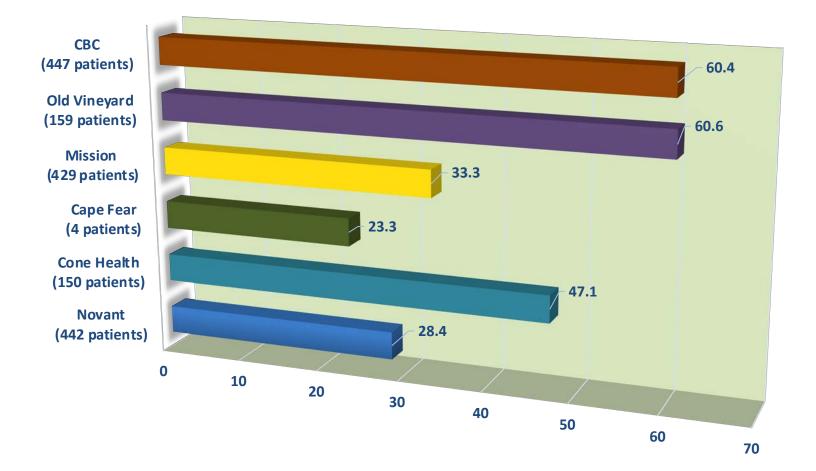


Average Length of Stay by Year (in hours)

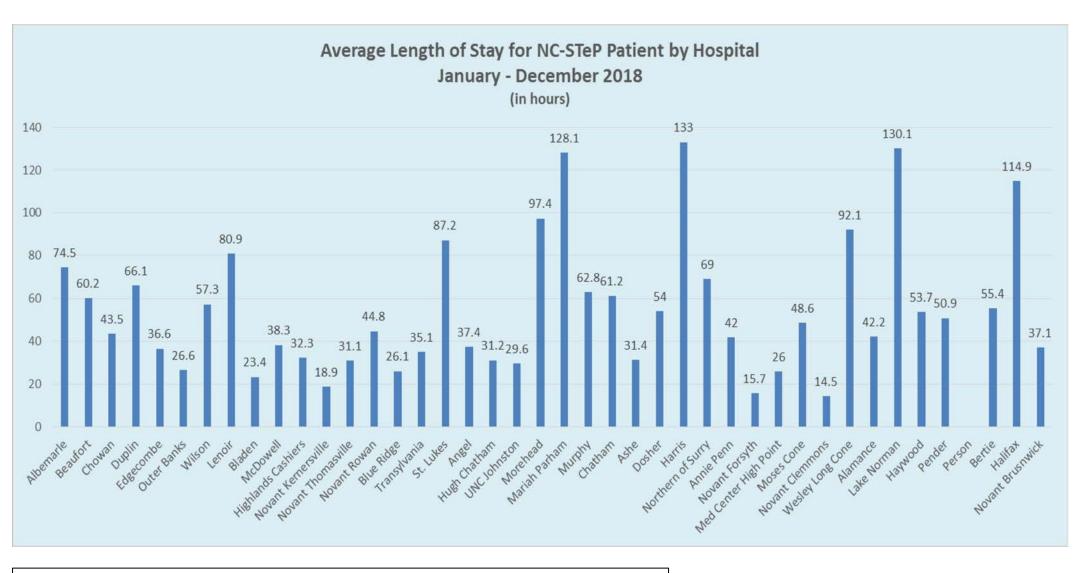




Average Length of Stay by Provider Oct-Dec 2018 (in hours)



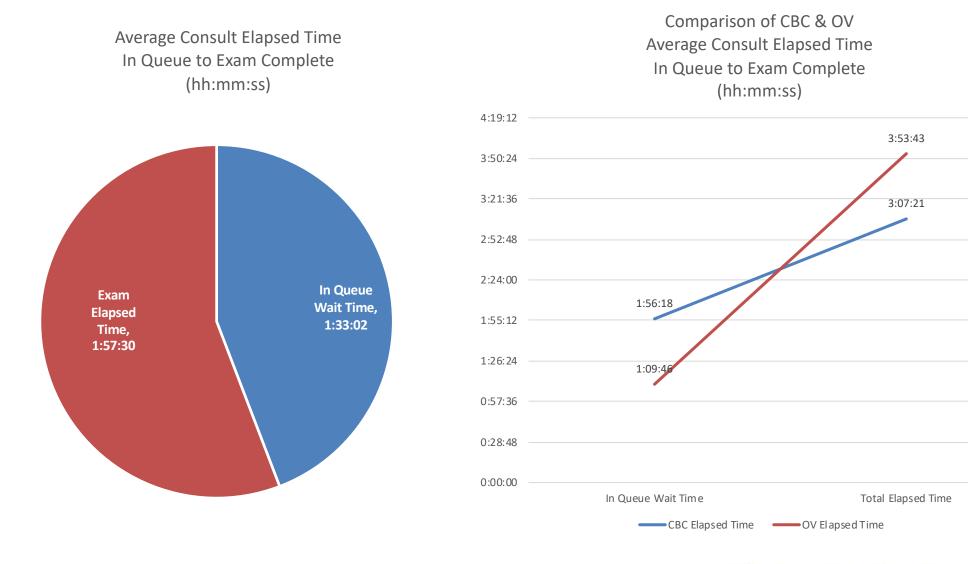




Note: Swain was not included on this chart. It had one patient, with a LOS of 252 hours.

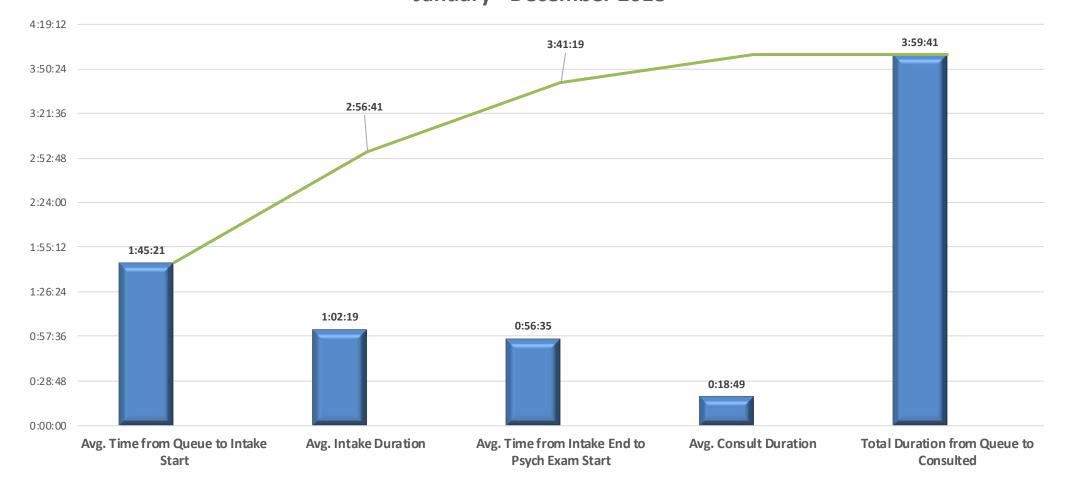


Consult Elapsed Time: October - December 2018



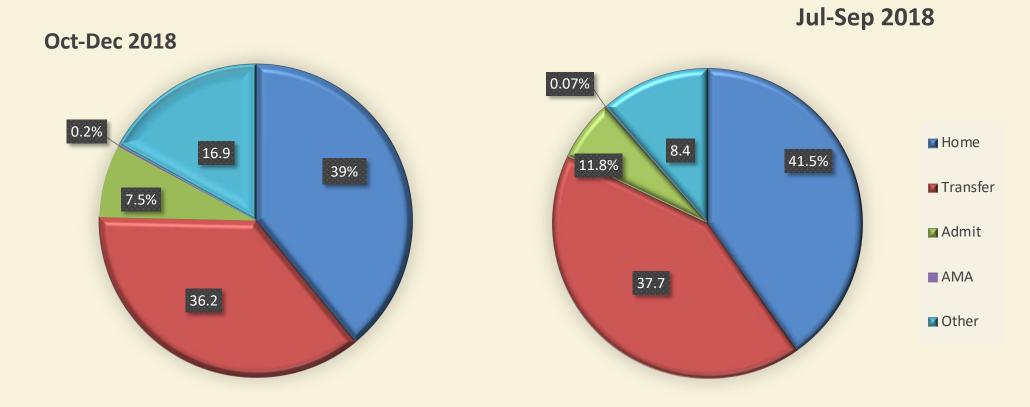


Carolina Behavioral Care & Old Vineyard Health Services Key Processes and Elapsed Times Averages January - December 2018



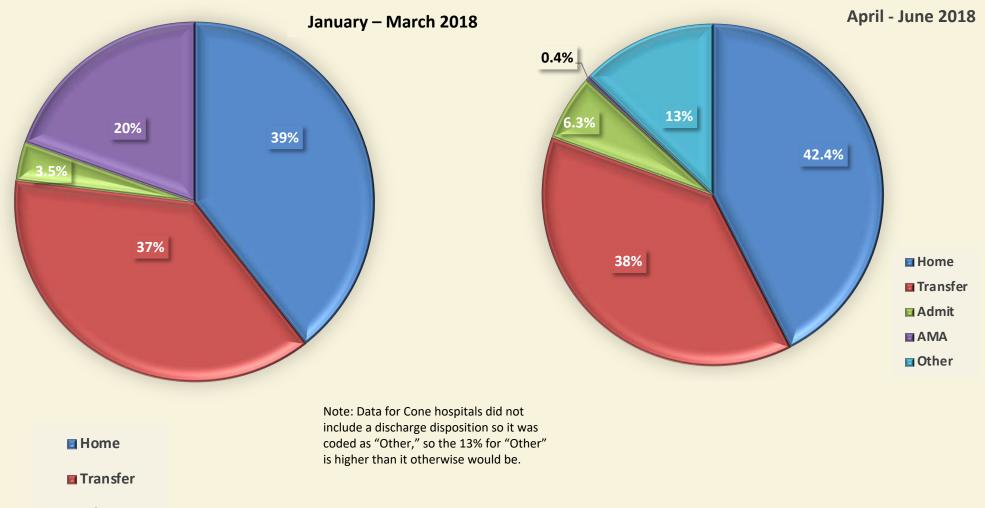


Percent of Patients by Discharge Disposition





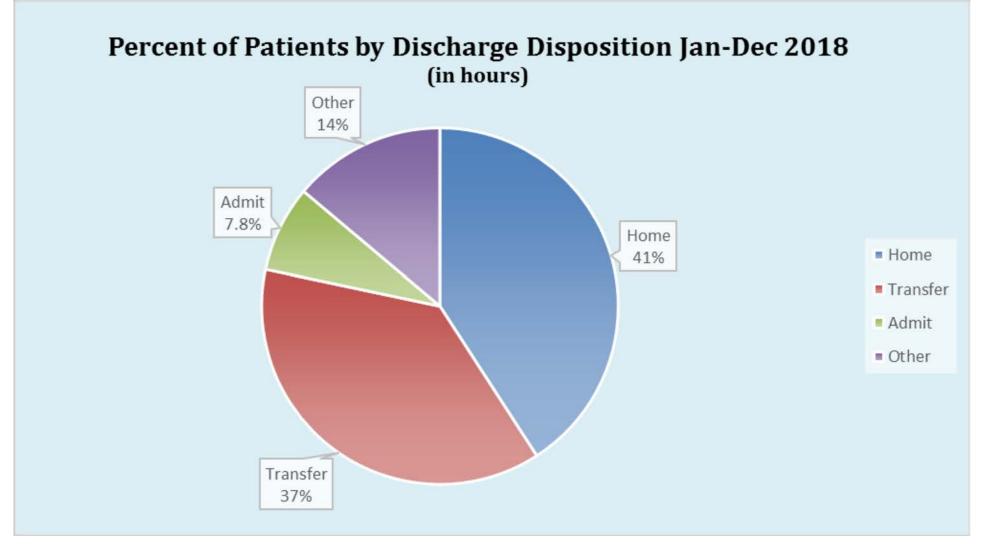
Percent of Patients by Discharge Disposition



🖪 Ad mit

🖪 Other

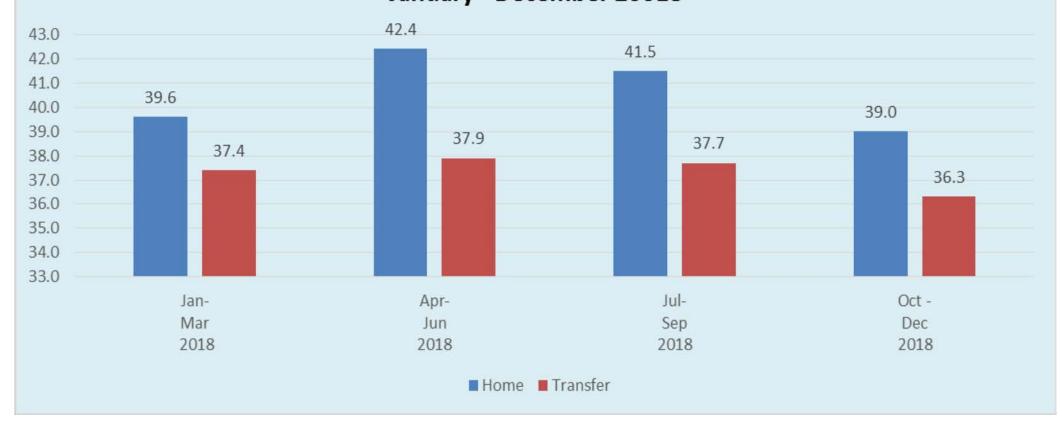




Note: Data for Cone hospitals did not include a discharge disposition so it was coded as "Other."



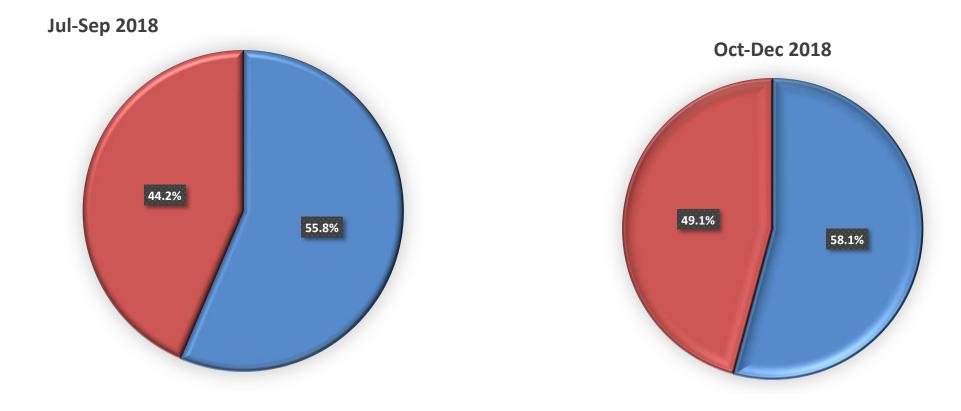
Percent of NC-STeP Patients by Discharge Disposition by Quarter January - December 20018







IVCs - By Release Status

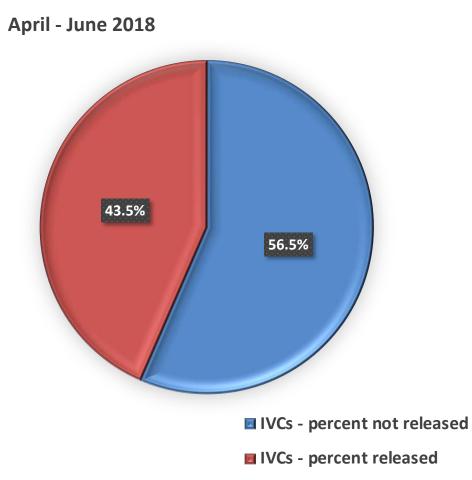


IVCs - percent not released

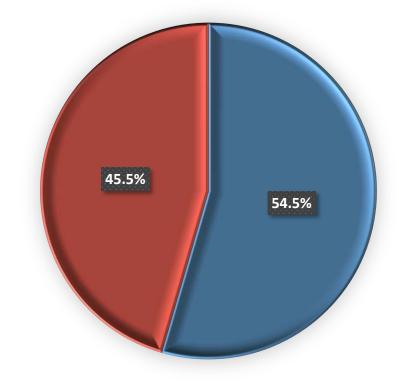
IVCs - percent released



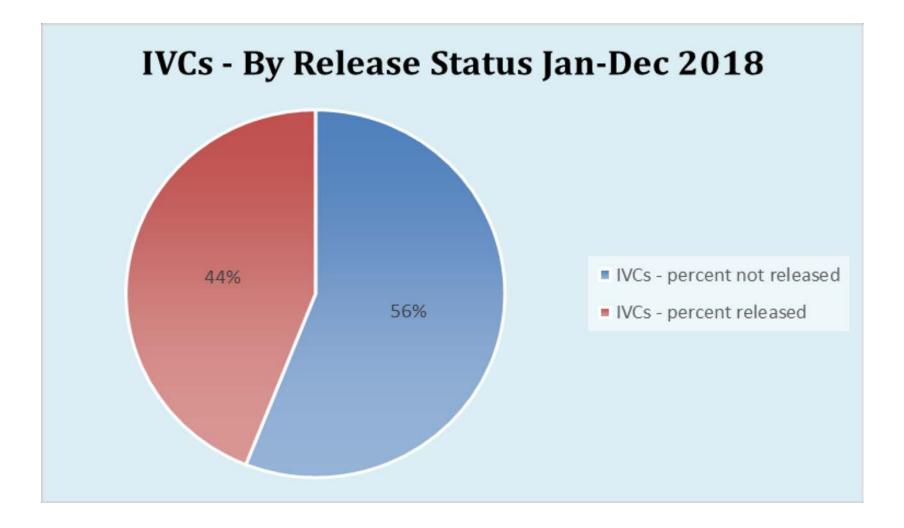
IVCs - By Release Status



January - March 2018



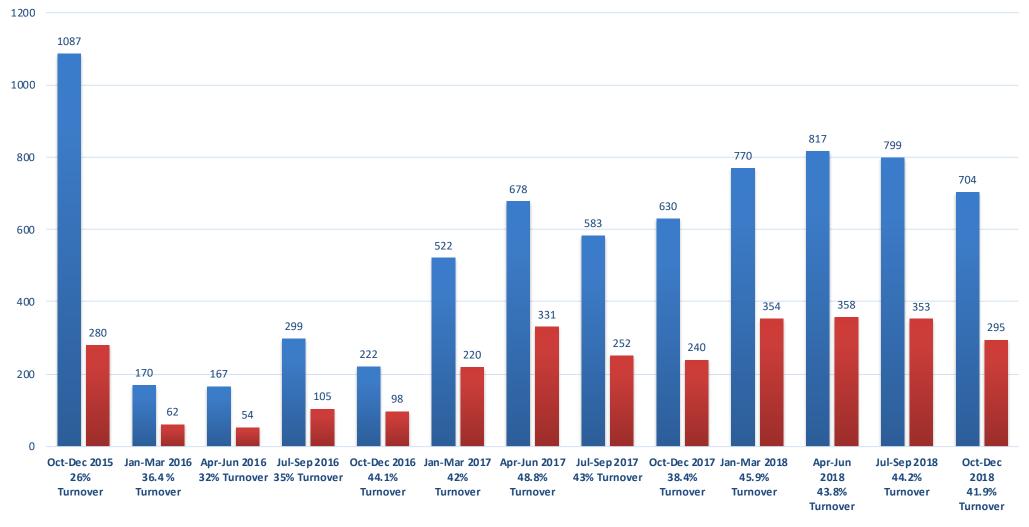






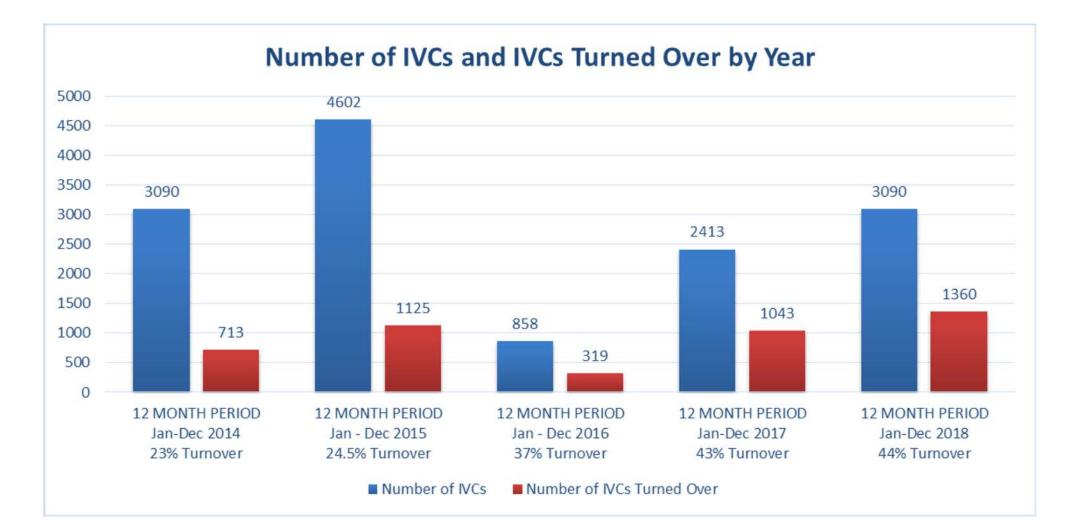


Number of IVCs and IVCs Turned Over by Quarter



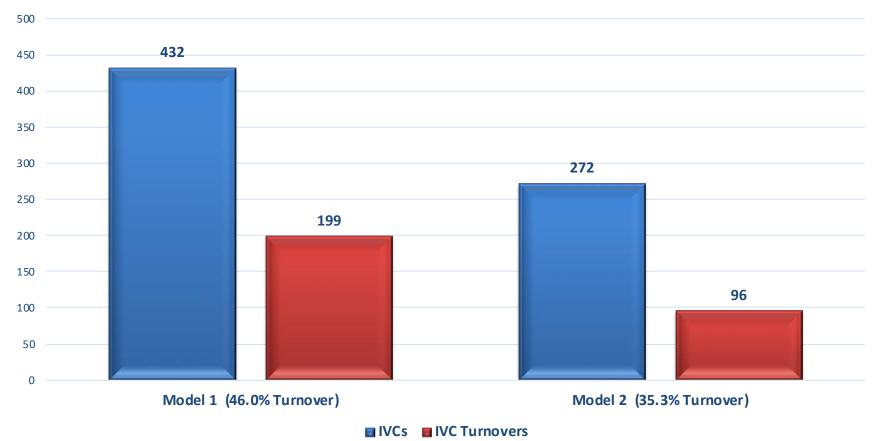
■ Number of IVCs ■ Number of IVCs Turned Over









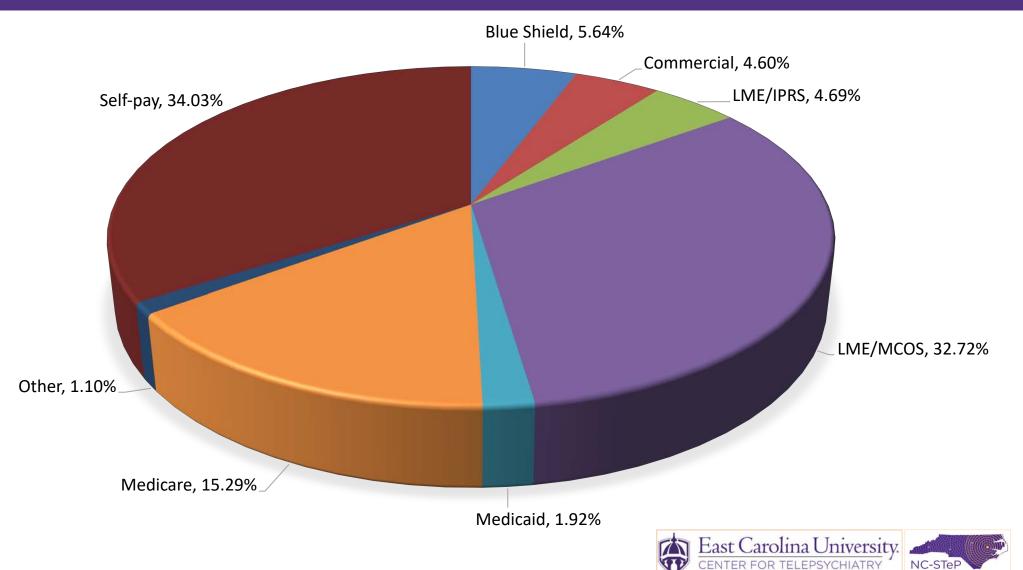


Number of IVCs and IVC Turnovers by Model Oct-Dec 2018



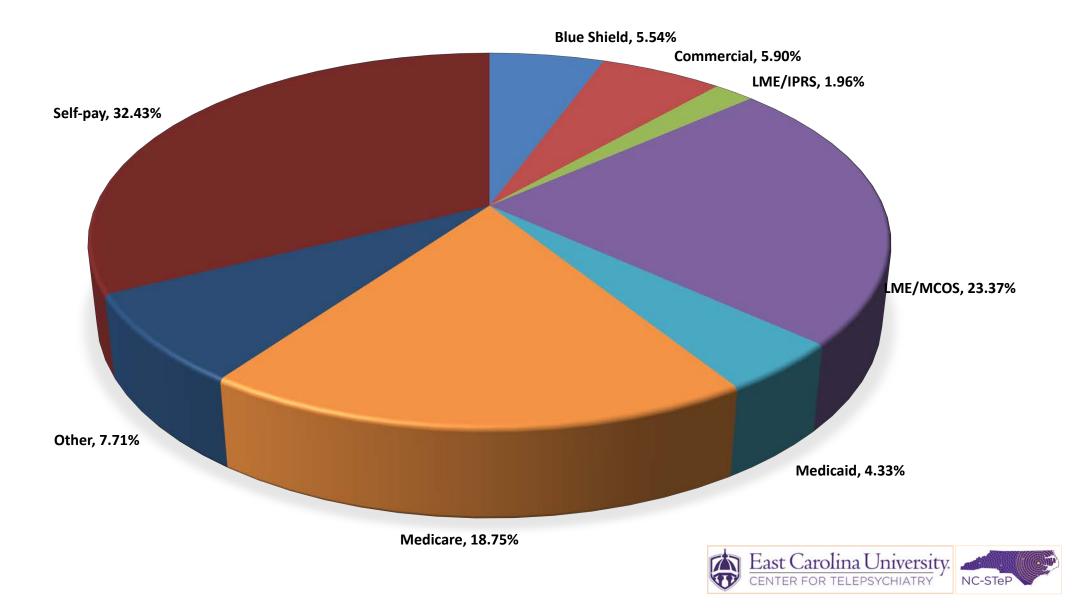


NC-STeP Charge Mix QTD 2019 - Quarter 2 (October- December 2018)



NC-STeP Charge Mix – Project to Date

Service Dates: October 1, 2013 – December 31, 2018

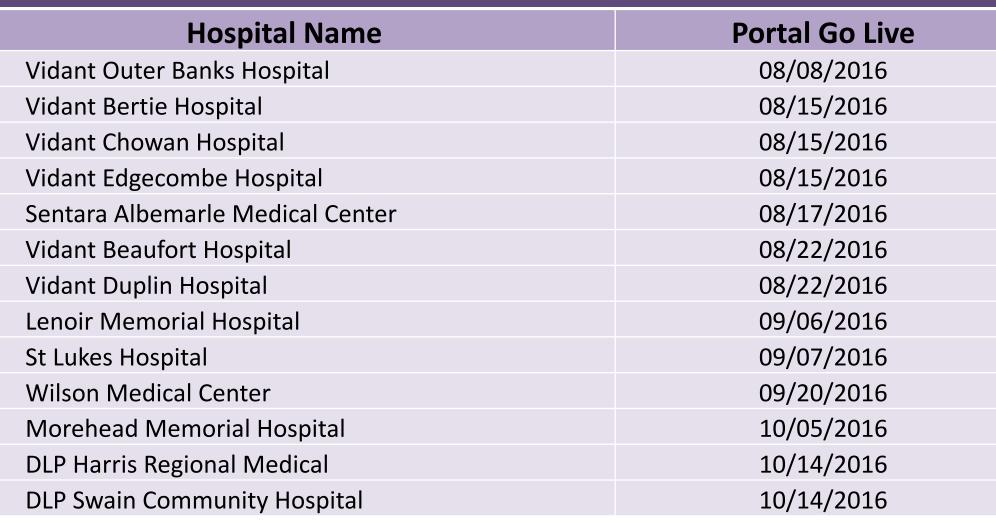


NC-STeP Status as of December 31, 2018

- 56 hospitals in the network. 53 live.
- 35,524 total psychiatry assessments since program inception
- 4,668 IVCs overturned
 - Cumulative return on investment = \$25,207,200 (savings from preventing unnecessary hospitalizations)
- Seven Clinical Provider Hubs with 47 consultant providers
- Administrative costs below industry standard
- Over 30% of the patients served had no insurance coverage



Model 1 – Live (page-1)







NC-STeP

Model 1 – Live (page-2)



Hospital Name	Portal Go Live
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
Alleghany Memorial Hospital	10/17/2017
Lake Norman Regional Medical Center	10/17/2017
Pender Memorial Hospital	12/07/2017





Hospital Status Report as of December 2018		
Model 1 – In Process		
Hospital Name	Portal Go Live	
DLP Rutherford Regional Medical Center	Fall 2019	
DLP Maria Parham Franklin	February 2019	
Park Ridge Health	March 2019	



Hospital Status Report as of December 2018		
Model 1 – Participation Pending	NC-STeP	
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	
Harnett Hospital	Reviewing Contract	
Betsy Johnson Hospital	Reviewing Contract	



Model 2 (page-1)



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	



Model 2 (page-2)



Hospital Name	Go Live Date/Status
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





Hospital Status Report as of December 2018			
Expressed Possible Interest		NC-STeP	
Hospital Name	Program Status	NC-STeP Model	
Duke Regional Hospitals	TBD	TBD	
Novant Matthews Medical	TBD	Model 2	
Iredell Memorial Hospital	TBD	TBD	



Terminated



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







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Director

North Carolina Statewide Telepsychiatry Program (NC-STeP)

Phone: 252.744.2660 | e-mail: <u>saeeds@ecu.edu</u> Website: <u>http://www.ecu.edu/psychiatry</u> Mail: 600 Moye Boulevard, Suite 4E-100, Greenville, NC 27834



Contact



NORTH CAROLINA STATEWIDE TELEPSYCHIATRY PROGRAM



