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# The Challenge



- The Covid-19 pandemic has forced healthcare providers to rethink and quickly reinvent the delivery of care, particularly in rural settings.
- Fear of COVID-19 and the lack of definitive and timely information have caused many patients to be no-shows at clinic appointments, and, as a result, not receive the care they need.
- This has posed an especially critical issue for pregnant women and their newborns in the 29-county area that ECU) serves
- ECU, the safety net provider for 1.4 million people in eastern North Carolina, is the only source for high-risk prenatal care in the region.

# The Challenge (continued)



- . More than 50 percent of the women our providers see are overweight or obese.
- . Of the 37 North Carolina counties along or east of the I-95 corridor:
  - 27 have heart disease mortality rates higher than the national and state averages
  - 22 of have diabetes mortality rates higher than both the national and state averages
- Of the 55 maternal deaths that occurred from 2008-2017, 38 or 69.1% were African American.

# The Challenge (continued)

- **ECU** BRODY SCHOOL OF MEDICINE MOTHERS Project Material Outrach Through Telcheadth for Rural Sites
- One in four of our mothers live in poverty; one in eight are uninsured.
- Ninety of the 100 counties in N.C. are designated as mental health provider shortage areas.
- Socioeconomic factors in the region limit access to transportation, adequate nutrition and basic necessities in the maternal population.
- According to the WHO, worldwide about 10% of pregnant women and 13% of women who have just given birth experience a mental disorder, primarily depression.

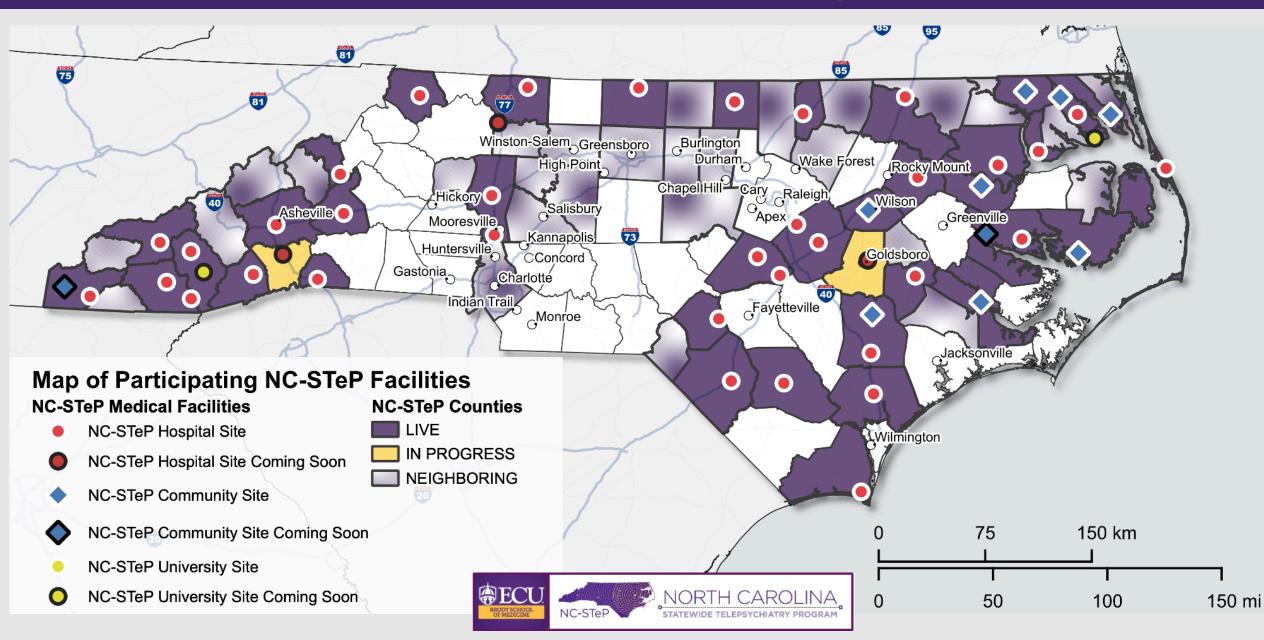
### One Solution: Outreach through Telehealth

• We believe that where an expectant or new mother lives should not negatively impact her physical or mental wellbeing or that of her child.

**BEC** 

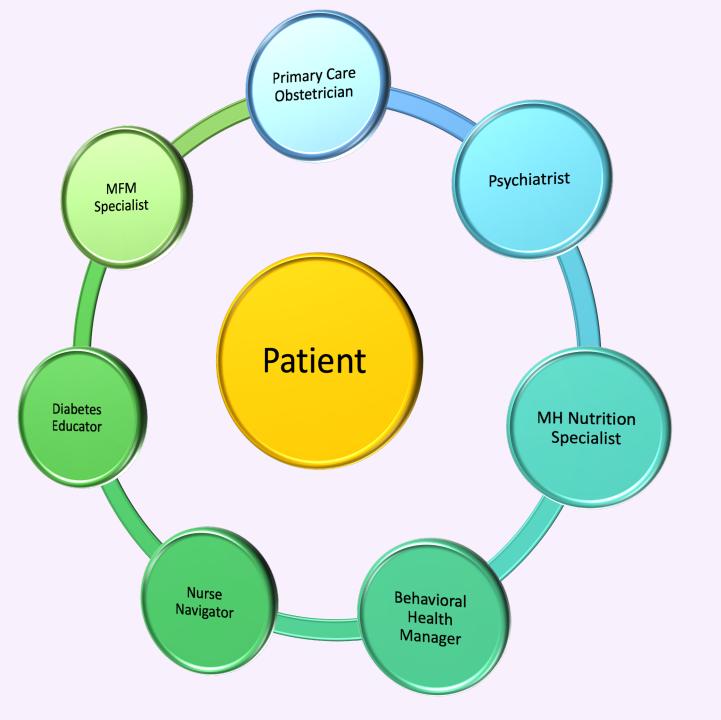
- ECU was funded by the United Healthcare Foundation (UHF) to utilize NC-STeP model—a statewide telepsychiatry program— to bring multidisciplinary care to three community-based primary care obstetric clinics in underserved counties.
- Telehealth consultations will bring the experts to these communities, saving patients and families the time and inconvenience of travel.

#### NC-STeP Status as of January 1, 2021





- Team-Based Care
- Patient-Centered Collaboration
- Primary care provider remains the driver and prescriber
- It's about expanding the limits of care within primary care setting
- Measurement-Based Treatment
- Evidence-Based Care



### **Proposed Sites**

• Carteret OB-Gyn- Live as of January 11,2021

#### • Vidant Duplin Ob-Gyn

- Pending Contract Execution
- Pending upgrade of Ultrasound machines
- Vidant Chowan OB-Gyn in Edenton (two locations)
  - Pending Contract Execution
  - Pending upgrade of Ultrasound machines



### Program Core Team

- Kristie Anderson, CADA Department of OB-Gyn
- Ryan Baker, Administrator Center for Telepsychiatry
- Michelle Brooks, Chief of Staff for Vice Chancellor for HS Division
- Kay Craven, Director of Clinical Nutrition Services, ECUP
- James deVente, Director Labor and Delivery, Department of Ob/Gyn
- Vickie Haley, CADA Department of Psychiatry & Behavioral Medicine
- Sharon Hamilton, Senior Director, Corporate and Foundation Relations

- Clifford C Hayslip, Chair, Department of Obstetrics and Gynecology
- Jenny McKellar, Associate University Attorney, Health Sciences
- Kalyan Muppavarapu, Medical Director Center for Telepsychiatry
- Alan J Sacks, MFM Specialist, Department of Obstetrics and Gynecology
- Sy Saeed, Chair, Department of Psychiatry and Behavioral Medicine;
  Executive Director, NC-STeP
- Joel Stocks, Foundation AFH Health Sciences Controller



### Measuring Impact of the Program

- Number of perinatal patients who receive care and may deliver in their own communities
- Number of missed appointments for highrisk patients
- Documented impact on patient access (e.g., savings on travel/time costs for patients)
- Documented impact on clinical outcomes for expectant and new mothers and their newborns

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• Number of women served by the program for mental health reasons

**ECU** 

- Number of sites and regional credentialed providers engaged
- Expansion of the web portal to effectively navigate electronic health records
- Implementation of technological solutions in terms of equipment and platforms used
- Impact on health disparities as measured by percentage of patients served from underserved and diverse backgrounds.