

# **Family Medicine Research**

Dept of Family Medicine / Greater Charlotte Region Summer 2023 Newsletter

#### Meet the Research Team with a highlight of 3 current studies

### **Coach McLungs<sup>™</sup>**

Atrium Health has been awarded a \$3.5 million NIH/National Heart, Lung, and Blood Institute grant to implement Coach McLungs<sup>SM</sup>, a web-based asthma platform, across 21 Atrium Health pediatric and family medicine practices. An interactive digital asthma coaching tool, Coach McLungs<sup>SM</sup> provides asthma education and clinical decision support to enhance patient and provider communication using shared decision making.

About 1 in 12 children have asthma. Currently, there are over 6 million children in the US with asthma, which can lead to missed school days, emergency department visits, and hospitalizations. Significant disparities in asthma outcomes occur by gender, race, ethnicity, and socioeconomic status. As part of the grant, we will measure changes in emergency department visits, hospitalizations, and prescribed oral steroid.



Reeves, Tom Ludden, Brianna Gutch, Margo Burnard, Shaina Glass. Additional members not s, iom eaderly original origin, margo bernardy and a Gassy robustion shown – Jeremy Thomas, Melinda Manning, Rachel Frazier, Hazel Tapp

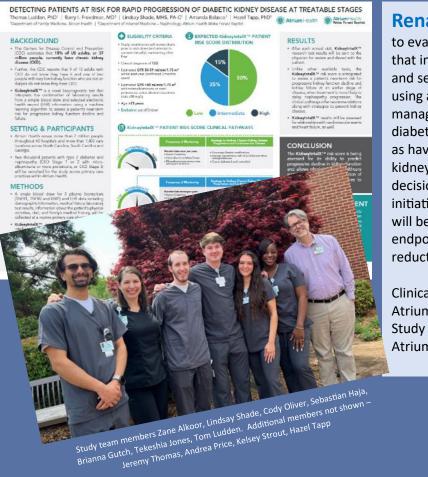


Study team members Ali Hemphill, Margo Burnard, Lindsay Shade, Kelsey Strout

#### The **PREVENTABLE** Study

Funded by the NIH, NIA, and NHLBI Lead Site: Duke University **Coordinating Center: Wake Forest** Atrium Health Site PI: Lindsay Shade, PA-C

**PREVENTABLE** is a landmark study of statins in older adults. The study will enroll 20,000 participants from 100 sites across the US. Statins are known to be effective for reducing the risk of cardiovascular events in individuals with cardiovascular disease and up to age 75 without disease, but limited evidence proves the usefulness of statins for primary prevention in adults over age 75, especially in the setting of multiple chronic conditions. We are hoping to learn if taking a statin (atorvastatin 40 mg vs placebo) could help older adults live well longer by preventing dementia, disability, or cardiovascular disease.



**Renalytix AI** – A prospective clinical utility trial to evaluate the impact of KidneyIntelX<sup>™</sup>, a novel test that interprets a combination of laboratory results and selected electronic health record information using a machine learning algorithm, on the management of patients with Type 2 diabetes and diabetic (chronic) kidney disease who are identified as having increased risk for progressive decline in kidney function within 5 years. Specific clinical decisions such as referral to a nephrologist, or initiating treatment (e.g., SGLT2, GLP-1, ACE-I/ARB) will be tracked along with measurable clinical endpoints including lowering of blood pressure and reduction in levels of Hb1Ac.

Clinical Trial subcontract between WFUHS and Atrium Health Study PI: Barry Freedman, MD Atrium Health Site PI: Hazel Tapp, PhD

## Other studies to note:

**SURPASS** – industry-sponsored (Eli Lilly) phase 3 clinical trial to assess the effect of alternate medications on cardiovascular (CV) outcomes when added to standard of care in Type 2 diabetes patients with established CV disease.

**Super Supporters** – Duke Endowment funded collaboration between Wake Forest and Atrium Health for Specially Trained Staff to facilitate Virtual Care for Vulnerable Patients and Family Caregivers across the health system, to assist them with connecting more easily and successfully with their providers in Virtual Care appointments.

**FOCUS** – Gilead Sciences funds this public health initiative that enables partners to develop and share best practices in routine blood-borne virus (HIV, HCV) screening, diagnosis, and linkage to care.

**CAPTURE** – multi-site, NHLBI funded grant with almost 1,000 participants from Atrium Health. Through a simple tool using five questions combined with selective peak expiratory flow measurement, the study seeks to identify individuals suffering from undiagnosed 'clinically significant' COPD.

**MISSION:** To improve health through innovative research and collaboration

**VISION:** To be a nationally recognized partner in primary care research

VALUES: Patient-centered, Inclusive, Engaging, Relevant, Rigorous

Special Thanks to our researchassociated physicians for their clinical expertise, namely Drs. **Rebecca Beesley, Jewell Carr, and** Anthony Caprio.

## FAMILY MEDICINE RESEARCH

#### MEET THE TEAM—in alphabetical (first name) order



#### **ALI HEMPHILL**

I studied fine arts and was a member of the cross-country team at UNCC. I have a diverse background including elder care and real estate and have a passion for art, travel and spending time outdoors.

\* 7



### **ANDREA PRICE**

I am a mother of two and a lover of all things science. I am so grateful to have called Family Medicine my home for the last four years. Working with these patients and caregivers has been one of the most rewarding

experiences of my career.

\* 2, 4, 8, 9



psychologist. \* 3, 8

**BRIANNA GUTCH** 



#### **CODY OLIVER**

I graduated from ECU with a B.S. in Biology and a Master of Public Health with the concentration in Epidemiology. Some of my favorite activities to do are watch movies, hang with friends, and watch basketball. I am a huge Boston Celtics fan! \* 2, 4, 8, 9

I graduated from UNCC in May 2022. I I have 2 cats and live in NoDa, but grew up in Wilmington. I enjoy traveling, especially for music festivals. My goal is to obtain my doctorate in clinical psychology in order to open a private practice as a clinical child

#### HAZEL TAPP

I grew up in Wales, received a PhD from the University of Birmingham England, and did a post-doctoral fellowship at NYU. I live in Charlotte with husband Craig, sons Nicholas and Harrison, and dogs Willow and Lucy. My interests are national primary care research leadership and running, hiking, and dog walking in my spare time. \* 2, 3, 4, 5, 6, 8

#### \* SEE NEXT PAGE FOR LIST OF RESEARCH STUDIES EACH TEAMMATE WORKS ON



#### **IAMARI TYSON**

I am a rising senior at UNCC studying Business Analytics, and am a participant in the Levine Scholars Program. I enjoy reading fantasy novels and cooking.



#### **JEREMY THOMAS**

was raised in Cleveland, Ohio and sometimes miss the snow, but always miss my sports teams. I am a Girl Dad to two smart, brave, and funny girls, who take after their mom in all the best ways.

1, 3, 5, 10



#### **KELLY REEVES**

I am a research nurse certified in user experience (UX). I have interest in leveraging health IT to engage patients and families in their health. I am the mother of four and enjoy traveling and spending time with my family and friends. \* 3, 4, 6



#### **KELSEY STROUT**

graduated from NC State with a bachelor's in **Biological Sciences and in** Animal Science with a Veterinary Bioscience concentration. In my spare time, I enjoy running in as many races as possible, going hiking with my pups Franklin and Delta, and attending the Charlotte FC games.

\* 2, 7, 8



#### **KRISTEN MINEHART**

I'm about to graduate from UNCC with a double major in Biology and Health Systems Management. I love to explore different cultures, travel, try new foods, and watch foreign TV shows and movies. I enjoying spending time with my family and friends, playing tennis, listening to music, cooking, or playing board and card games. \* 3



#### LINDSAY SHADE

I graduated from UNC Chapel Hill, then from the Duke University PA Program, practicing in Family Medicine in Charlotte ever since. I am the Director of Clinical Trials and Quality and have been involved in nearly 30 research studies over the past decade. In my spare time, I enjoy yoga, making jewelry, and most of all spending time with my two young children and husband. \* 2, 3, 6, 7, 8



#### MARGO BURNARD

I graduated from Drake University with my bachelor's degree in Biochemistry, Cell and Molecular Biology. In my free time, I enjoy gardening, taking care of my large house plant collection, and spending time with my partner and our two cats.





#### **MELINDA MANNING**

I have a degree in applied math from UCLA, was a consulting actuary for many years, then came to CHS for claims analysis before finding my home with FM Research. In my spare time, I chair the benefits committee for the Charlotte Firefighters' Retirement System and enjoy working with power tools. \* 3

#### NICK STEVENS

I have my Bachelor's and Master's degrees in Exercise Science from Appalachian State University. I have a passion for pediatric research and I love interacting with patients! Outside of EFM, I am a competitive powerlifter, powerlifting coach, gamer, and avid fan of Formula 1 and UFC/MMA. \*3,4

#### **RACHEL FRAZIER**

I am originally from Durham, North Carolina. I am a UNC-Charlotte Alumni (x2) and a mom to a beautiful baby boy, Noah. My favorite vacation spot is anywhere tropical! \*3



#### SEBASTIAN HAJA

I graduated from Wake Forest University with a B.S. in Biology and a minor in Chemistry. I am an avid Chelsea FC fan but enjoy watching soccer, football, and basketball. I like to spend my time outside of work with friends and family, working on cars, and fishing. \* 4, 8



#### SHAINA GLASS

I'm a student at UNCC in the Cognitive Science graduate certificate program, Master of Psychology program, and in the Health Psychology Ph.D program. I also have training in programming, video game design, and statistical analysis. I have a cat named Shego, and enjoy going to the gym, playing video games, reading books, and spending time with friends and family. \*3



#### **TEKESHIA JONES**

I am a graduate of NC Central University with a B.S. in Public Health. I was a Clinical Research Associate and Community Engagement Specialist for UNC-Chapel Hill School of Medicine in infectious diseases. I am a Charlotte native, have a beautiful two-year-old daughter, and enjoy vacationing and volunteering with local non-profit organizations. \* 3, 8



#### TOM LUDDEN

I have been with the Department of Family Medicine since 2007, and I am the Director of Data Analytics and Population Health, an Associate Professor with WFSOM, and the co-director of the Mecklenburg Area Partnership for Primary Care Research (MAPPR). In my spare time, I enjoy hiking as much as possible on the weekends and during vacations.

\* 1, 3, 4, 5, 6, 8, 10



#### ZANE ALKOOR

I graduated from Davidson College in 2021 as a religious studies major, writing my dissertation on Japanese Imperial propaganda during the interwar period. After graduation, my focus has been on a career in healthcare. In my free time, I love outdoor extreme sports like rock climbing, surfing, and snowboarding!

\* 4, 8

* MAJOR RESEARCH STUDIES		
1—ARTAS/HIV LINKAGE TO CARE	5—FOCUS	9—SURPASS
2—CAPTURE	6—PCORI ED	10—THRIVE: HIV TESTING IN ED
3—COACH MCLUNGS	7—PREVENTABLE	
4-DUKE ENDOWMENT SUPER SUPPORTERS	8—RENALYTIX	