obese women will have measurably increased inflammatory markers in their breast tissue, which are reduced after bariatric surgery. We expect that change in mammographic density may correlate with fibroglandular volume change on MRI; there are little data on change in background parenchymal enhancement in the setting of obesity and weight change and quantifying this will provide preliminary data for future work. Last, we expect that undergoing BC screening will be easier for patients after weight loss due to constraints of imaging equipment and potential bias in the screening process. DISCUSSION/SIGNIFICANCE: Screening for BC is paramount to improving outcomes yet people with obesity are screened less with worse outcomes. Studying the effects of weight loss on the breast may improve interpretation of breast imaging in the setting of obesity and identify markers of risk. Understanding barriers to screening may help us develop strategies to improve screening.

408

Quality by Design: A Framework for Study Success

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OBJECTIVES/GOALS: The SC CTSI Quality by Design (QbD) program aims to improve the execution of clinical research studies identifying and addressing possible issues before implementation. The program's overall goal is to optimize operational design to achieve an 80% on-time completion rate. METHODS/STUDY POPULATION: Adapted from the Clinical Trials Transformation Initiative, our QbD program applies principles of quality management, project management, and team science to SC CTSI-funded studies. The process begins with a Design Studio for systematic review of critical-to-quality factors and a discussion of risks and mitigation plans. Studio attendees generally include the research team, SC CTSI faculty, and at least one community member. Outcomes include mitigation plans, a study project plan, and continued support from the project-tailored advisory board. We will iteratively evaluate satisfaction, quality improvement, and study completion rates. RESULTS/ANTICIPATED RESULTS: In an evaluation of the pilot phase, QbD participants responded that careful planning and expert input added value to their studies. The QbD process improved the quality of their studies, and all participants plan to apply QbD tools and resources to future studies. Beyond quality improvement, other anticipated outcomes include higher on-time study completion rates and uptake of QbD resources by other research teams. We also plan to assess the comparative benefit of QbD by study type. DISCUSSION/SIGNIFICANCE: Broader application of the CTSI QbD program has the potential for widespread benefit on research processes and outcomes. Studies implemented with minimal avoidable errors are more likely to complete on time, helping ensure efficient use of valuable resources and participant time.

409

Raising research awareness through StudyFinder

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OBJECTIVES/GOALS: To increase public awareness and access to research opportunities at the University of Minnesota (UMN) utilizing StudyFinder, a public-facing website that features actively enrolling UMN research studies and directly connects website visitors with study teams. METHODS/STUDY POPULATION: Promote the University of Minnesota CTSI's StudyFinder website to the public via social media ad campaigns and community outreach. Upon completion of the latest StudyFinder enhancement project in 2021, CTSI focused 2022 efforts on marketing and promotion of the site. CTSI created three StudyFinder social media ad campaigns in January, June, and October. CTSI also planned outreach events during the week of Clinical Trials Day, the Minnesota State Fair (1.8M attendees over 12 days), and the UMN's Urban Research and Outreach-Engagement Center Community Day. RESULTS/ANTICIPATED RESULTS: Website traffic data from Google Analytics indicated a 72.76% increase in StudyFinder sessions from 2021 (Jan 1, 2021 to Nov 1, 2021) to 2022 (Jan 1, 2022 to Nov 1, 2022), with 16,262 sessions to 28,094 sessions, respectively. Direct emails from potential participants to study teams increased 89% in that same timeframe, from 3,082 emails to 5,819 emails. Targeted marketing campaigns and attending community events can improve the visibility of an institution's research and connections of potential research participants to research teams. DISCUSSION/SIGNIFICANCE: Recruitment remains a main challenge in clinical and translational research. StudyFinder is an important patient-facing tool to connect individuals to specific studies. Future directions include expanding marketing efforts, events, and public feedback.

410

Successful Implementation of a Cross-Institutional Clinical Research Coordinator Pool to Support Georgia Clinical and Translational Science Alliance (Georgia CTSA) Investigators

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OBJECTIVES/GOALS: In 2020 the Georgia CTSA Clinical Research Center site at Emory University developed a highly trained, credentialed research coordinator pool with a goal to expand the pool to include clinical research coordinators from our partner institutions with the ability to work across institutional barriers in support of Georgia CTSA investigators. METHODS/STUDY POPULATION: Fall 2022, an Emory Investigator requested Georgia CTSA Biorepository samples with supporting clinical data for a NIH funded study. This provided a pilot opportunity to utilize clinical research nursing support offered by the UGA Clinical and Translational Research Unit (CTRU). De-identified samples were collected from our Biorepository while Emory's coordinators and lab collaborated with UGA's nursing support for data collection. Our obstacle for cross-institutional support was access to Emory Healthcare (EHC) medical records that would be needed by the UGA nurses, but partnerships created with the Georgia CTSA allowed us to overcome this, granting access to the electronic medical records (EMR) needed to complete the study. RESULTS/ANTICIPATED RESULTS: As expected, the process of credentialing and gaining access to the EHC EMR for the UGA team was the most time-consuming in the development of the pool. Discussions began in June 2021 to determine needs to allow the UGA research nurses to support the Emory coordinator pool. Requirements included acquiring an EHC network ID, completion of required Emory research training, letters of support from the Georgia CTSA outlining the collaboration between institutions, and a credentialing application. All

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