THURSDAY, OCTOBER 26

3:30 p.m. Refreshments, meet the teams & judges
4:00 p.m. Program

Danto Auditorium
To our Patients, Families, Faculty, Staff, and Trainees,

Welcome to our second annual Frankel Cardiovascular Center (FCVC) Clinical Value Innovation Challenge Selection Event. The purpose of the challenge is to give every person, regardless of their affiliation, an opportunity to submit ideas to make improvements within the FCVC.

This initiative continues to receive strong support from our virtual Clinical Value Innovation community, which has now grown to over 1,000 members. This year, 31 unique ideas were submitted, resulting in 640 votes cast and 49 comments.

We are delighted to partner with Dr. Larry An from the Center for Health Communications Research to offer a second grand prize award in the area of eHealth. Dr. An and the CHCR team offer a unique set of skills, expertise and institutional knowledge to our finalists in this area.

We look forward to the pitches of three finalist teams in each grand prize category and are confident that our expert external judges will select compelling grand prize winners.

If you have any thoughts or ideas to improve this event for next year, please contact members of the FCVC’s Clinical Value Innovation Challenge Working Group, who are listed on the last page of this booklet.

Thank you for your engagement and ongoing support!

Stephanie Diccion-MacDonald | Kim A. Eagle, MD | Linda R. Larin, FACCA, FACHE, MBA | David J. Pinsky, MD | Richard L. Prager, MD | Thomas W. Wakefield, MD
About the Challenge

The annual Frankel Cardiovascular Center Clinical Value Innovation Challenge offers an opportunity for the entire FCVC community to partner with patients and families to redesign care.

Our rapidly changing health care environment demands new thinking. The core premise of this program is that those who experience and deliver care have the greatest insights into how to make it better. This concept is the key to creating a better health care system for all.

The FCVC Value Innovation Challenge has been designed to inspire ideas from all levels with wiki optimization from our 1,000+ member innovation community. During today’s selection contest, we hope to catalyze ideas that will have a lasting impact on the quality and cost of care delivered at the FCVC. To learn more, please visit our website: http://bit.ly/CVC-Challenge.

Agenda

4:00 - 4:05 p.m. Welcome and introduction of event judges
Kim A. Eagle, MD

4:05 - 4:08 p.m. Thanks to Working Group and introduction of 2016 grand prize winner
Dan Alyesh, MD

4:08 - 4:15 p.m. Mobility Aide – Early Ambulation in CVICU
Erika Koerner, RN and Regi Freeman, RN

4:15 - 5:40 p.m. Innovation Challenge Pitch
Six teams will present eight-minute pitches followed by five-minute Q&A each.

5:40 - 5:55 p.m. Judge Deliberation
FCVC Directors’ “Just do it” Innovation Awards
Door prize drawing

5:55 - 6:00 p.m. Announcement of Winning Teams
Our Judges

**Tom Shehab, MD, MMM**

Previously, Tom served as a member of Arboretum’s Technical Advisory Board and as a board member of an Arboretum portfolio company, ArborMetrix. In his current role, Tom draws upon his clinical, healthcare administration and operational expertise to evaluate new potential investments and provide strategic support to Arboretum’s portfolio companies.

Prior to joining Arboretum, Tom spent 12 years as a physician executive and practicing physician specializing in gastroenterology. He was involved in a number of entrepreneurial healthcare related ventures and held multiple senior leadership roles. Most recently, Tom served as Chief of Staff for more than 1,000 physicians at St. Joseph Mercy Hospital in Ann Arbor and as the Chair of Medicine for Integrated Health Associates (IHA), a multi-specialty group consisting of 300+ providers. Both St. Joseph Mercy Hospital and IHA are part of Trinity Health.

**Nancy Albert, PhD, CCNS, CHFN, CCRN, NE-BC, FAHA, FCCM**

As Associate Chief Nursing Officer of the Office of Research and Innovation, Dr. Albert administers and provides research and innovation services throughout the Cleveland Clinic, a multicenter system. She conducts her own program of research and mentors nurses in research and evidence-based practice.

Dr. Albert also serves as a clinical nurse specialist in advanced heart failure within an ambulatory advanced heart failure clinic on the main campus of Cleveland Clinic, Cleveland OH. She is a clinical educator and consultant to graduate students and hospital and ambulatory nurses regarding heart failure, cardiac or intensive care topics. She is widely published with over 275 peer-reviewed publications in medical and nursing journals, over 15 book chapters. Dr. Albert presents regionally, nationally and internationally and is actively involved on steering committees, work groups and task forces of many healthcare...
Linda Fingerle, CPA, MBA

Linda Fingerle is the President and Managing Director of Tappan Hill Ventures. She brings over 25 years of business and finance experience to the Tappan Hill Team including eight years in Venture Capital serving as CFO and Principal of EDF Ventures in Ann Arbor, Michigan. While at EDF, she served as a board member and acting CFO for a tech start-up internet technology company. She was also board observer and managed EDF’s operations.

Linda served on the board and was Audit Committee Chair for Aastrom Biosciences, Inc. (NASDAQ: ASTM) a Michigan based biotech. She also provided strategic & financial consulting to an Ann Arbor based biotech start-up culminating in a successful exit in 2009.

Prior to EDF, Linda was a Group Operating President for MascoTech, Inc., a Michigan based Manufacturing Corporation. Linda was active in MascoTech’s robust M&A program as well as oversight responsibilities for several operating units. Prior to MascoTech, Linda was a Group Operating Vice-President with TriMas Corporation, an Ann Arbor-based industrial proprietary products manufacturer, and a key member of TriMas’s strategic acquisition team and played a key role in expanding TriMas’s growth & profitability via acquisitions.

Linda earned her MBA from the University of Michigan in Ann Arbor, and a BA in Accounting from Michigan State University (CPA in the State of Michigan).
Our Finalists

$100K VALUE INNOVATION PRIZE

Sponsored by the Frankel Cardiovascular Center, this prize will be awarded to the team with the innovation that has the greatest possible impact on patient care at the FCVC as determined by our external panel of expert judges. To guide submissions this year, teams will be able to submit to the following categories: Patient/Family Experience, Safety, Clinical Outcome, Process/Operations, Virtual/E-Health, Equity/Health Disparities, and Cost of Care.

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Using user experience design to enhance visual communication and create more patient-centered preoperative visits

User experience design considers the overall experience from information, visual communication, and human factor perspectives; this approach is routinely used for developing products to satisfy unmet consumer needs. We will apply these principles to preoperative visits, engaging patients as co-developers in an iterative redesign of the educational materials, communication tools, and perioperative process with the goal of a more patient-centered user experience.

Team Members:

- **Matthew Corriere, MD, MS** – Associate Professor of Surgery, Vascular Surgery Section
- **F. Jacob Seagull, PhD** – Assistant Professor of Medical Education, Learning Health Science Division of Learning Knowledge Systems
- **Ann Eschelbach, MS, RN, ACNP-BC** – Frankel CVC Clinic and Adjunct Clinical Instructor, School of Nursing
- **Susan Young RN** – Clinical Care Coordinator, Frankel CVC Clinic
Saving blood, saving patients: increasing add-on lab utilization

We plan to implement a multi-phase electronic medical record intervention aimed at making the lab add-on process more automated, with prompts alerting providers to add-on lab opportunities. The aim of this intervention is to increase providers’ awareness and utilization of add-on labs, with the ultimate goal of optimizing patient blood draws and increasing patient satisfaction while contributing to the hospital’s overall goal of decreasing adverse events (infection, mortality) and costs.

Team Members:

- **Kaitlyn Vitale, MD** – Internal Medicine Resident
- **Christopher Grondin, MD** – Internal Medicine Resident
- **Catherine Wilson, MD** – Internal Medicine Resident
- **Khalid Abdul Majeed, MD** – Internal Medicine Resident
- **David Stewart, MD** – Assistant Professor of Pediatrics and Internal Medicine
- **Zachary Haupt, MD** – Internal Medicine Resident
- **Christopher Petrilli, MD** – Assistant Professor of Internal Medicine
- **Tammy Ellies, MBA** – Internal Medicine Performance Improvement Manager
Create a Michigan Medicine Certification for Ventricular Assist Device Care

There is a national need to standardize Ventricular Assist Device education to improve outcomes and decrease the incidence of preventable readmissions. We plan to improve education of clinicians, patients and families who care for Ventricular Assist Device (VAD) patients by supplementing our current practice with a novel Simulation-based (SIM) Learning and certification program.

VAD Team Members:

- **Kevin Knott, PA-C** – Program Physician Assistant
- **Tracey Romans, NP-C** – Program Nurse Practitioner
- **MJ Melong, BSN, RN** – Education Nurse Coordinator & Program Coordinator
- **Deb Blissick, BSN, RN, CHFN** – Program Coordinator
- **Rená Lucier, MSN, RN** – Program Coordinator
- **Heidi Haynes, BSN, RN** – Program Coordinator
- **Teresa Colaianne, BSN, RN** – Program Coordinator
- **Caty Johnson, MSN, RN** – Program Manager
- **Lydia McGowan, MS, CCRP** – Program Clinical Research Project Manager
- **Alondra Dorsey** – Program Clinical Subject Manager
- **Adrienne Porter, BA** – Program Clinical Research Coordinator
- **Stacy Haverstick, BSN, RN, PCCN** – Program Clinical Information Analyst
- **Jodi Hutchinson** – Program Medical Assistant
- **Andy Griffith** – Program Equipment Specialist
- **Lori Brenneman** – Program Administrative Assistant
Our Finalists

$100K VIRTUAL HEALTH PRIZE

Co-sponsored by the Center for Health Communications Research (CHCR) and the Frankel Cardiovascular Center and new in 2017 is a grand prize award in the category of Virtual Health. The finalists in this area will receive support prior the challenge event including consultation with a multidisciplinary team experienced in the user-centered design of health care solutions and development of a wireframe mock-up to help visualize the essential elements of their ideas. The winning team will receive up to $100K to support work with University of Michigan’s Center for Health Communications Research (CHCR) to develop a prototype. CHCR has prior experience working with Health Information Technology & Services on projects involving different levels of MiChart integration.

1 Improving the Discharge Pathway in Cardiac Surgery

Readmissions following cardiac surgery are common and costly, with some evidence that they can be prevented with effective post-discharge care. The purpose of this study is to evaluate the efficacy of an electronic discharge pathway tool to reduce readmissions in cardiac surgery patients.

Team Members include:

- **Michael P. Thompson, PhD** – Assistant Professor of Cardiac Surgery
- **Donald S. Likosky, PhD** – Associate Professor of Cardiac Surgery
Building a medical mobile App “WHEELS for DASH” to support health care provider’s decision to recommend DASH Diet at the Frankel CVC and Beyond!

Over 48% of the 43 million hypertension or high blood pressure (BP) outpatients seen by physicians in the U.S. do not have good BP control, and less than 20% use the recommended Dietary Approaches to Stop Hypertension (DASH) diet plan. This may be due to health care providers’ lack of time, educational support, or available professionals (Registered Dietitians) to provide nutritional counseling. The proposal would further develop “Women’s and Men’s Hypertension Experiences and Emerging Lifestyles” (WHEELS), a theory-based cognitive behavioral intervention tested with hypertension outpatients that offers a cost-effective, time-saving solution to guide long-term behavioral changes for improved BP and healthier eating patterns.

Team Members include:

- **Susan Steigerwalt, MD** – Associate Professor of Internal Medicine, Cardiology
- **Scott Hummel, MD** – Assistant Professor of Internal Medicine, Cardiology
- **Kenneth Jamerson, MD** – Professor of Internal Medicine, Cardiology
- **Susan Ryskamp, MS, RDN** – Clinical Dietitian
- **Lynn Glazewski, RDN** – Clinical Dietitian
- **Kathy Rhodes, PhD, RDN** – Senior Allied Health Supervisor, Cardiovascular Nutrition
- **Lynette Mollo, MSN, NP** – Nurse Practitioner, Preventive Cardiology
- **Margaret Scisney-Matlock, PhD, RN** – Professor Emerita, School of Nursing
A Mobile Application to Enhance Communication Between Patient Families and Cardiac Procedure and Operating Rooms

Given the stress associated with waiting during a cardiac procedure and systems barriers to quality communication during this time, we aim to create a mobile application that uses text and visual messages to enhance communication between patient families and procedure and operating rooms. We hypothesize that the creation of this mobile application is feasible and will result in improved patient, family, and nursing staff satisfaction.

Team Members include:

- **Hamid Ghanbari, MD** – Assistant Professor of Internal Medicine, Cardiology
- **Matthew Romano, MD** – Assistant Professor of Cardiac Surgery
- **Andrea McAuliffe** – Marketing Assistant
- **Dan Alyesh, MD** – EP Fellow
- **Thomas Cascino, MD** – Cardiology Fellow
- **Cindi King, RN** – EP Education Nurse Coordinator
- **Margaret Ramsay** – EP Technician
FCVC Directors “Just do it” Awards

Sponsored by the Frankel Cardiovascular Center, the winner(s) for this award will be determined by the FCVC Directors in advance of the challenge event itself. The award is intended to support the implementation of low cost ($2,000 - $4,000), low complexity innovation ideas.

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Charging Stations for Waiting Families

Several similar ideas were placed into patient and family facing “drop boxes” placed in waiting areas during August and early September regarding the need for charging stations for mobile devices. The FCVC Directors will fund installation into several FCVC areas to help meet this demand. FCVC Administration staff members will help to facilitate the process.

Working Group Members

- Dan Alyesh, MD – Cardiac Electrophysiology
- Jamie Beach, RN – Frankel CVC Quality and Data Manager
- Diane Drago – Patient/Family Representative
- Andrea Obi, MD – Vascular Surgery
- Chris Petrilli, MD – Hospital Medicine
- Ran Lee, MD – Cardiology
- Shelley Lassey, RN – Frankel CVC Clinic
- Nikki Taylor, RN – Frankel CVC Inpatient Nursing
- Lauren Heidemann, MD – Hospital Medicine
2017 Idea and Proposal Submissions

- Samyukta Mullangi, MD – mHub: central messaging hub
- Mansoor Arain, MD – RELAY-IT, REaL-Time Notification of ImportAnt Test Results to Improve Hospital Efficiency and Patient Satisfaction
- Mansoor Arain, MD – MI-ECHO; improved workflow for accessibility and ordering of echocardiograms
- Christopher Petrilli, MD – M-Care Tracker, creation of daily patient agenda to be shared during rounding
- Greg Merritt, PhD – Harvesting and Implementing Patient Ideas (H.I.P.I.) through the QEI method
- Jennine Paugh, CCP, FPP – Cardiac, Thoracic Surgery and ECMO Simulation Program
- Jon Lundt, MSME – Intra-Oral 3D Ultrasound Scanner for Earlier Detection of Periodontitis and Prevention of Cardiovascular Disease
- Regi Freeman, MSN, RN – Stepping Up Turning and Mobility in CVICU
- Anne McLeod, DNP – Post Discharge Stroke Transition Education Panel
- Cheryl Garner, RN – S.O.S. on a bed of nails
- Laura Aslam, RN – Bariatric Ceiling Lift System
- Stephen Riutta, MSE – Improve Efficiency and Safety of Daily Rounding Through Readily-Accessible Technology
- Emily Miotke, RN – Distraction Basket for Confused Patients
- Jacklyn Thibert, MS, PA-C – A Better Way to Tuck Arms in OR?
- Patient and family submissions – Improve Signage in the FCVC; Microwave and Ice in the CVC OR waiting area; TVs in FCVC Family Waiting Areas; Improve Public Wifi; Improve Quietness; Leverage Technology to Reduce Paper Use; Improve Visibility of Social Workers; Improve Patient Communication; Gluten and Soy Free Meals; Pillows for Chest Splinting