



**University of Cincinnati College of Nursing & Maple Knoll Communities  
Academic-Practice Partnership Expectation and Outcome Metrics Worksheet**

Partnership Goals	Activities	Outcomes
<p><b>Foster cooperation and interaction between Maple Knoll (MK) Communities and The University of Cincinnati (UC) College of Nursing (CON) for the benefit of both the University of Cincinnati and Maple Knoll, as well as their constituent groups.</b></p>	<p>In 2012, Maple Knoll Communities was chosen as the Continuum Care Retirement Center (CCRC) partner to realize UC CON’s vision to be a leader in leveraging technology, nursing workforce development, interprofessional education and student competency building.</p>	<p>A trial agreement for the creation of an Innovation Collaboratory Smart House on the campus of Maple Knoll Village is signed.</p> <p>Increased hands-on interprofessional opportunities.</p>
	<p>The initiative attracts other UC colleges – College of Engineering and Applied Science (CEAS), the College of Medicine, and the College of Allied Health.</p>	<p>Signing of a formal affiliation and creation of a formal Affiliation Board, consisting of four individuals from each organization to further the progress of the relationship.</p>
	<p>In 2014, leadership and decision makers from UC and MK Communities met to identify steps needed to move forward with the partnership, as well as specific goals each side would like to see accomplished.</p>	<p>Creation of a three-year strategic plan and working guide for the partnership including research, education and practice.</p>
<p>Hosting of an annual technology showcase that promotes the Smart House outcomes, student learnings and older adults’ feedback. Attendees tour the Smart House and attend student presentations.</p>	<p>Showcase promoted findings with 300+ community members, guests, students and faculty. Promotion of the Smart House and UC CON &amp; MK affiliation featured on local TV and radio stations.</p>	

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	<p>Hosting of yearly meetings to review partnership goals from the previous year, as well as ongoing educational, research and innovation project sessions are held with faculty and the workforce team at MK to generate continuous flow of students and faculty engagement on the MK campus.</p>	<p>Dissemination of partnership findings and outcomes. Generation of new strategic plan for the year ahead taking into account directives from UC colleges and MK – by identifying common goals and desired outcomes, foster a strategic plan that includes all partners focusing on creating meaningful contributions towards residents’ lives and students’ learning experiences.</p>
	<p>Sustainment, expansion and diversification of UC activities and research taking place at MK campus. The continuation of the CCRC Senior Vice President and the CON tenure endowed chair holding a board seat is one illustration of partnership engagement and excellent timing.</p>	<p>Bridge care delivery and engagement of MK residents in a variety of activities stemming from various research, education and practice initiatives, and expanding the CON’s existing clinical skills environments.</p>

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<p><b>Enhance educational opportunities and intergenerational interactions between Maple Knoll residents and the University of Cincinnati College of Nursing students and faculty.</b></p>	<p>UC CON students and faculty used the MK Smart House and access to MK residents and volunteers as an opportunity to create simulated clinical experiences, develop of capstone projects and conduct research.</p> <p>CON students used the Smart House as a location for different simulated interactive clinical experiences, such as discharging older adults from acute care settings, educating patients on managing chronic diseases and focusing on mental health care.</p>	<p>Students got trained to recognize depression and suicidal ideation symptoms and cues in a low pressure environment. In clinical settings, often times health care professionals don't get access to the full picture. The simulation experiences and other interactive student engagements at the Smart House, throughout MK's campus and remotely allowed a total of nearly 2100 students to have all their questions answered in non-intimidating, controlled environments, increasing their confidence when exposed to a similar situation in the real-world.</p> <p>MK residents and other staff volunteers got to use their knowledge from real life experiences to simulate patients with these issues and learned how to identify depression/suicide cues.</p>
	<p>In partnership with the UC College of Engineering and Applied Sciences, CON students created environments with potential to improve older adults' physical and mental status through self-care and independence, as well as implemented and monitored new technologies that help older adults age in place, such as telehealth robotics, environmental and activity sensors.</p> <p>Students were assigned a resident-buddy for the semester and conducted weekly home visits to assist with medication, diabetes management, and nutrition education, as well as conducted a fall-prevention assessment and education in the resident buddy's home.</p> <p>Undergraduate students worked with volunteer residents in focus groups.</p>	<p>Smart House serves as an incubator for students' innovations, which can be tested and evaluated before launched in real life settings.</p> <p>Residents and students benefit from intergenerational sharing of history, technology, and care-coping skills.</p> <p>Students have opportunities for hands-on clinical experiences beyond the classroom walls.</p> <p>400 residents get firsthand knowledge of changes in health care and receive care in a way they never dreamed possible.</p> <p>Students perfected their interviewing skills, history and physical techniques and approaches to older adults. MK resident panels reacted to the students' innovation and invention ideas.</p>

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<p><b>Enhance educational opportunities and intergenerational interactions between Maple Knoll residents and the University of Cincinnati College of Nursing students and faculty. (continued)</b></p>	<p>MK has a large footprint in the community through its home health business, which reaches nearly 40K older adults through the Greater Cincinnati area. CON Students conducted skilled home visits with a Maple Knoll Home Health Nurse and provided community outreach services with the Public Health Nurse from the City of Springdale Health Department. They assisted older adults with medication, diabetes and nutrition education.</p>	<p>Forty CON students able to get comprehensive understanding of home health care delivery to a diverse population, in different social economic populations. This experience prepared students for the different patients they will encounter in their future careers as nurses and got older adults to receive 1:1 attention and interaction from newcomers as they contributed to their learning.</p>
	<p>CON students, in partnership with College of Medicine students, led an in-home study to test the remote-presence robots in the homes of 40 MK residents who live independently.</p>	<p>In-home study provided preliminary research data to more widely implement a robot study called Telehealth Community Health Assistance team (T-CHAT). Students also had the chance to reassess preconceived notions and bust myths about older adults, given the engagement and vitality levels of the residents. Residents got to experience telehealth first hand and to have a voice in technology solutions that are being shaped to impact their lives.</p> <p>Successful T-CHAT study preliminary data supported research launch, now replicated at poverty/below-poverty housing – there are 25 residents enrolled in this second phase.</p> <p>Student experience with robots gave taught them how to incorporate technology into practice and helped them attain health coaching skills they may use in their future as nurse practitioners. Older adults experienced and learned wellness techniques to improve their own health.</p>

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<p><b>Enhance educational opportunities and intergenerational interactions between Maple Knoll residents and the University of Cincinnati College of Nursing students and faculty. (continued)</b></p>	<p>Faculty observed UC students working interprofessionally and evaluated outcomes, student learning and output, team building experiences.</p>	<p>Development of a 3-credit hour undergraduate Interprofessional Honors Seminar that is admitting UC students in the fall 2019. “Leveraging Emerging Technology and Data to Promote Healthy Aging” will be conducted by a CON, CEAS, Nutrition, and Informatics team of experts in aging and technology. The students’ outputs will be created in harmony with MK resident engagements, technological advancements and that address chronic care needs. MK will serve as the exploration site for testing new ideas, creating reactor panels with the residents and identifying one technological advancement that will address chronic conditions that eventually will impede independence.</p>
<p><b>Create research and internship opportunities that support the innovation of techniques and new products that will improve older adults’ access to care and allow them to age in place.</b></p>	<p>The Chief Officer of Innovation and Entrepreneurship worked with a graduate student to develop an Electronic Health Record (EHR) that mimics real clinical experiences to be used in Academic Health Centers.</p> <p>T-CHAT preliminary study results got the project to be awarded a \$20,000 Innovation Grant.</p>	<p>EHR captured in Redcap research data base as an educational chart in which all health care disciplines may practice recording the health and physical information and other pertinent chronic disease information.</p> <p>Innovation Grant allowed the T-CHAT study to be replicated in the Older Adult Low Income Housing owned by Maple Knoll Communities and managed by Episcopal Retirement Services (ERS).</p> <p>T-CHAT study was reviewed in two publications and presented at two national conferences.</p>

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<p><b>Create research and internship opportunities that support the innovation of techniques and new products that will improve older adults' access to care and allow them to age in place. (continued)</b></p>	<p>Several research and quality improvement studies took place at MK: sensing studies, culture diversity research with diabetes, research with technology, quality improvement with audiology services, music therapy, workforce engagement.</p> <p>Development of team capstone project on exoskeleton to prevent falls.</p>	<p>Maple Knoll has served as an incubator to test and evaluate nearly 70 student innovations and inventions before real life launch.</p> <p>UC students have the opportunity to experience clinical training that mimic their future work environment. The experience at MK adds a big differential to these students, who consistently share how MK prepared them for the future.</p>