

Academic-Practice Partnerships
University of Minnesota School of Nursing (UMSON) and Fairview Health Services/MHealth (FHS/MHealth)
Partnership Expectation and Outcome Metrics Worksheet

Partnership Goals	Activities	Outcomes
<p>The UMSON and FHS/MHealth Nursing Collaboratory will facilitate the following five partnership goals:</p> <p>1. Lead research, education and practice aimed at discovering new approaches to improving health within the system and externally, throughout the broader community and the nation.</p> <ul style="list-style-type: none"> • Established formal relationships with senior leadership and multiple levels throughout the organization to advance the Collaboratory. • Advance academic/practice research through co-sponsoring events and collaboration on research 	<p>Integrate research, education and practice across the UMSON and FHS/MHealth by creating joint appointments and participation on organizational councils in both organizations.</p> <ul style="list-style-type: none"> • Create joint appointments between UMSON and FHS/MHealth for members of the Collaboratory. • Assign Collaboratory members and other key faculty and staff to executive, practice, education, research, DNP and employee engagement councils for each organization. • Implement a nurse scientist professorship that contributes 50% effort to each organization. <p>Collaborate with FHS/MHealth and UMSON to host a series of presentations on case studies entitled Nursing Grand Rounds via WebEx to all 10 FHS hospitals.</p>	<p>12 joint appointments were developed for all Collaboratory members.</p> <p>A combined total of 12 individuals have been assigned to a total of 16 local and system wide councils. Active engagement on key research councils and activities has supported research innovations and collaborations.</p> <p>A nurse scientist was appointed to the position on March 20, 2016.</p> <p>Quarterly Nursing Grand Rounds were hosted from the SON by WebEx to FHS/MHealth nurses in 2015 and 2016.</p>

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<p>studies.</p> <ul style="list-style-type: none"> • Support opportunities for nurses to lead and develop collaborative models that redesign practice environments 	<p>Jointly sponsor the annual Nursing Research Day at the University of Minnesota with representatives from FHS/MHealth on the Planning Committee.</p> <p>Invite UMSON faculty to speak at the 2016 and 2017 Nursing's Quest for Excellence conference sponsored by FHS/MHealth.</p> <p>Engage graduates from the U of MN doctoral programs (PhD and DNP) who are employed at FHS/MHealth in the School of Nursing Alumni Association to mentor students and foster research and systems change projects</p> <p>Create innovative models of care that improve access to care, provide training sites for nursing students, facilitate research and advance interprofessional practice and education.</p> <ul style="list-style-type: none"> • Plan and implement an interprofessional, nurse managed primary care clinic in collaboration with FHS/MHealth and community partners in an underserved area of Minneapolis. 	<p>Over 400 nurses and nursing students attended the 2017 Nursing Research Day. FHS/MHealth Nursing had a designated paper session and poster presentations at the conference that showcased research projects. ANCC credits were provided for attendees.</p> <p>UMSON faculty presented at the 2016 and 2017 Nursing Quest for Excellence conference sponsored by FHS/MHealth</p> <p>UMSON students and faculty received School of Nursing Foundation grants for research projects conducted in partnership with FHS/MHealth. This has resulted in increased collaborations between the UMSON and FHS/MHealth Nursing APRNs and clinical nurses.</p> <p>The MHealth Nurse Practitioners clinic was created in April 2014 in partnership with FHS/MHealth and has provided over 2000 patient visits since its inception. The clinic is both intra-professional and nurse</p>

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	<ul style="list-style-type: none"> <li data-bbox="667 667 1423 764">• Plan and implement a nurse managed memory care clinic in partnership with FHS/MHealth to address a critical shortage of geriatricians and specialists in care of seniors. <li data-bbox="667 1040 1423 1138">• Plan and implement a women’s integrative health service in partnership with FHS/MHealth to improve access to women’s health services. 	<p data-bbox="1455 233 1980 630">managed and supports practices in nursing, dentistry and pharmacy from the UMSON and FHS/MHealth. The clinic has also expanded to 4 satellite clinics and created an innovative model of care for mental health and geriatric care with four new industry partners. Two grants have been awarded to the clinics to 1) develop a mental health/primary care nurse practitioner model (HRSA) and 2) develop a dental therapist/primary care nurse practitioner model of care (Delta Dental).</p> <p data-bbox="1455 667 1980 927">The Fairview Memory Loss Clinic was established in July 2015 and is a partnership between the UMSON and FHS/MHealth. The clinic is located in Edina, MN and is managed by a UMSON geriatric nurse practitioner in collaboration with FHS/MHealth geriatricians, social workers and care coordinators.</p> <p data-bbox="1455 1040 1980 1328">Integrative women’s health services were implemented within a FHS/MHealth women’s health clinic in partnership with faculty from the UMSON. The integrative health services program has been awarded one interprofessional practice and education (IPE) grant from the National Center for IPE and also provides a training site for UMSON students.</p>
<p data-bbox="178 1343 640 1398">2. Promote undergraduate, graduate and post graduate education in nursing</p>	<p data-bbox="667 1343 1423 1398">Develop a working group with membership from the UMSON, FHS/MHealth and Fairview Medical Group (FMG) whose</p>	<p data-bbox="1455 1343 1980 1398">A joint working group was developed and meets on a bi-monthly basis to identify and</p>

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<p>throughout the two organizations and facilitate a smooth transition to practice.</p> <ul style="list-style-type: none"> • Implement joint programs to support preceptors and training sites for BSN, MSN, DNP and PhD students admitted to the UMSON. • Implement programs to support student projects at FHS/MHealth. 	<p>purpose is to remove barriers and increase both the number of clinical training sites and number of preceptors available for UMSON students.</p> <ul style="list-style-type: none"> • Evaluate and jointly develop competencies for students. • Outline and strengthen the graduate student placement process between FHS/MHealth and the UMSON • Meet every 2-3 months to address issues, identify what is working well and review outcomes of work (e.g. student placements) <p>Implement a process to facilitate FHS/MHealth quality improvement projects with UMSON students</p> <ul style="list-style-type: none"> • Co-create and implement policies and procedures that clarify the process students, faculty and FHS/MHealth sponsors use to manage student projects <ul style="list-style-type: none"> • Integrate DNP students into FHS' quality improvement training program named the QI Collaborative to provide opportunities for students to participate in ongoing FHS/MHealth quality improvement projects. 	<p>remove barriers for clinical training sites and preceptors. A year after meetings began; FHS/MHealth hospitals and clinics now provide the highest number of learning experiences to UMSON Nursing students when compared to other sites in the Twin Cities area. The Number of UMSON students that have had learning experiences in 2016-17 within the FHS/MHealth system was:</p> <ul style="list-style-type: none"> • Pre-Licensure students: 345 • Graduate students: 124 <p>The new joint nurse scientist has facilitated the implementation of policies and procedures that describe the process across both organizations for identifying potential FHS/MHealth student projects, student use of private health information, assigning project sponsors and outlining expectations.</p> <ul style="list-style-type: none"> • A shared computer drive has been implemented to identify preceptors and tracks the status of student projects in the FHS/MHealth system. • UMSON students are provided advanced notice of potential projects available through the FHS/MHealth Quality Collaborative program. • A total of 33 UMSON DNP student projects have been approved within the FHS/MHealth since implementation of the changes.

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<ul style="list-style-type: none"> • Provide for opportunities to co-teach UMSON courses and classes. • Implement a statewide approach for nursing students to be aware and educated regarding substance use and nurses 	<p>Collaborate with experts from FHS/MHealth to co-teach classes at the UMSON where shortages of faculty or expertise exist.</p> <ul style="list-style-type: none"> • Contract with FHS/MHealth midwives to co-teach specialty courses in the UMSON midwifery program. • Collaborate with FHS/MHealth to provide safe patient handling curriculum to UMSON prelicensure students which focuses on methods of moving patients including ceiling mounted lift devices in the UMSON simulation center. <p>Implement a collaborative effort through the Collaboratory, including the MN Board of Nursing, FHS/MHealth to address a comprehensive approach for substance use among nurses.</p> <ul style="list-style-type: none"> • Develop and implement a curricular strategy to ensure all prelicensure students nearing graduation are aware of and knowledgeable about substance use disorder among nurses. • Provide that curriculum to all schools of nursing in Minnesota 	<p>The UMSON and FHS/MHealth midwives collaborated on co-teaching 4 graduate course at the UMSON per year.</p> <p>UMSON prelicensure students are provided a safe patient handling class by FHS/MHealth nurses every year.</p> <p>Curriculum on substance use disorder among nurses was provided to all pre-licensure students (200) that were in the last year of their program.</p> <ul style="list-style-type: none"> • Wide press coverage on the curricular work (newspaper, TV) • Curriculum made available to all MN schools of nursing and FHS/MHealth in fall 2017.
<p>3. Advise and collaborate with Minnesota-based, regional and national health care providers and industry leaders as they apply nursing practice to developing and implementing new and better ways to generate, manage, access, understand and use health services.</p> <ul style="list-style-type: none"> • Provide opportunities to share 	<p>Provide expert consultation from UMSON faculty to FHS/MHealth on developing a professional practice model that exemplifies the standards set by Magnet hospitals.</p> <ul style="list-style-type: none"> • Faculty from the Health Innovation and Leadership 	<p>Faculty from HIL and the CSpH consulted</p>

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<p>expertise and knowledge on professional practice models, national certification, and accreditation standards.</p> <ul style="list-style-type: none"> Support shared learning management systems and by creating joint processes. 	<p>Program (HIL) and the Center for Spirituality and Healing (CSpH) will participate in FHS/MHealth practice councils to consult on adopting the professional practice model developed by HIL and CSpH.</p> <ul style="list-style-type: none"> UMSON faculty will implement a series of presentation to FHS/MHealth nurses that describes the new professional practice model. Faculty from the UMSON will provide expert consultation on achieving Magnet certification from 2015 to present. <p>Improve customer satisfaction and reduce costs by creating a joint UMSON/FHS process for providing American Nurse Credentialing Center (ANCC) contact hours to healthcare providers.</p>	<p>for a six month period with FHS/MHealth practice councils. This resulted in FHS/MHealth adopting the new professional practice model previously developed by the faculty from HIL and CSpH. The UMSON faculty then provided a total of 6 presentations to nurses in FHS/MHealth hospitals regarding the adoption of the new professional practice model.</p> <p>The Associate Dean for Faculty Practice, Partnerships and Professional Development provided ongoing consultation to FHS/Health on strategies to achieve Magnet status from 2015 – present.</p> <p>A joint process to provide ANCC contact hours to both FHS/MHealth, UMSON and external clients has been created and is in the pilot stage. This has resulted in the ability to provide a higher level of quality with one less FTE.</p>
<p>4. Develop and coordinate alignment of internal and external standards supporting the use of nursing data and research.</p> <ul style="list-style-type: none"> Provide opportunities to disseminate new knowledge through joint scholarship activities and paper presentations at national conferences. 	<p>Provide faculty and students the opportunity to conduct big data research studies that support the use of nursing data and advance the use standard nursing terminologies and nursing knowledge.</p> <ul style="list-style-type: none"> Facilitate collaboration between the UMSON informatics faculty and FHS/MHealth to provide PhD and DNP students an opportunity to conduct “big data” nursing research using FHS/MHealth’s electronic clinical data repository (CDR) supported by the UM’s National Institutes of Health Clinical Translational Science Award. 	<p>A total of 8 DNP & PhD students were provided an opportunity to conduct big data research projects using the FHS/MHealth CDR. Subject areas included:</p> <ul style="list-style-type: none"> Evaluating the Modified Early Warning System(MEWS) Implementing an “open notes” clinical documentation system. Mapping standardized nursing languages (SNL’s) to flowsheet data for skin assessment.

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	<ul style="list-style-type: none"> <li data-bbox="716 334 1415 394">• Share research findings through joint scholarship activities to include published papers and presentations. <li data-bbox="716 1109 1415 1268">• Create an annual national nursing and big data science conference whose aim is to facilitate better health outcomes resulting from the standardization and integration of the information nurses gather in electronic health records and other information systems, 	<ul style="list-style-type: none"> <li data-bbox="1503 233 1955 293">• Mapping SNL's to flowsheet data for pressure ulcers. <p data-bbox="1455 334 1955 461">2 manuscripts and presentations were co-authored by UMSON faculty, students and FHS/MHealth that support the use of nursing data and standard terminologies.</p> <ul style="list-style-type: none"> <li data-bbox="1503 472 1976 662">• Westra BL, Christie B, Johnson SG, Pruinelli L, LaFlamme A, Park JI, Sherman SG, Byrne MD, Svenssen-Renallo P, Speedie S. Expanding Interprofessional EHR Data in i2b2. AMIA Jt Summits Transl Sci 2016 <li data-bbox="1503 708 1965 1036">• Johnson, S.G., Byrne, M.D., Christie, B., Delaney, C.W., LaFlamme, A., Park, J.I., Pruinelli, L., Sherman, S., Speedie, S., Westra, B.L. (2015). Modeling Flowsheet Data for Clinical Research. AMIA Clinical Research Informatics. AMIA Jt Summits Transl Sci Proc. 2015 Mar 25;2015:77-81. <p data-bbox="1455 1109 1965 1403">Three national nursing big data science conferences have been held at the UMSON with FHS/MHealth as a co-sponsor and active member of conference workgroups. A total of 14 manuscripts and numerous presentations on nursing and big data science have been published in professional nursing journals as a result of these conferences.</p>

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<p>5. Develop, commercialize and disseminate new products, technologies, devices, instrumentation and other services to improve the health of communities served.</p> <ul style="list-style-type: none"> • Provide educational opportunities for nurses, faculty and students to learn how to bring their innovative ideas to reality. • Partner with industry experts to provide expertise on the innovation process • Create a process through the Collaboratory to advance innovative ideas and if appropriate commercialize them. 	<ul style="list-style-type: none"> • Co-create and implement an annual workshop that provides education and resources to nurses, faculty and students on innovation and commercialization in Nursing. • Collaborate with the University of Minnesota Medical Device Center to place a Fellow on the FHS/MHealth Innovation and Technology Council. • Sponsor a booth at the University of Minnesota Medical Device Centers annual conference that promotes the medical devices, products and applications created by faculty, students and nurses at the UMSON in collaboration with FHS/MHealth. • Create a formal pathway for nurses, faculty and students that describes the steps and resources available to conduct market analysis, business planning, management of intellectual property, funding and, if appropriate, commercialization. 	<p>Innovation workshops were co-created and implemented by the UMSON and FHS/MHealth in the year 2015 and 2016. Attendance at the first workshop was 30. Attendance at the second workshop was 105.</p> <p>A Fellow from the UM Medical Device Center was placed on the Innovation and Technology Council in January 2016.</p> <p>The UMSON sponsored a booth for the first time at the UM Medical Device Conference and displayed 8 innovations created with FHS/MHealth and industry partners.</p> <p>The UMSON and FHS/MHealth have implemented a process where the Collaboratory, 1) evaluates innovative ideas, 2) provides inventors with educational resources, 3) links them with industry partners, if appropriate, 4) assists with industry sponsored funding and research applications, and 5) facilitates management of intellectual property</p>

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<ul style="list-style-type: none"> Seek opportunities to jointly create and market new products and services that improve patient care. 	<p>Develop and implement a care coordination course that can be used to orient new care coordinators to the FHS system, students at the UMSON and can be commercialized for use in other Schools and health systems.</p>	<p>through the UM Office of Technology Commercialization. Since beginning this process the following innovations have been patented or licensed by nurses, faculty and students:</p> <ul style="list-style-type: none"> An IV pole arm that prevents infection by safely lifting tubing off the floor in pediatric oncology patients, An enhanced oral airway that mitigates the risks and adverse effects of current airways while increasing safety and provider satisfaction An assessment tool that identifies risk of pressure ulcers in dark skinned patients. A computer game that supports memory retention in patients with memory loss. An interactive app that supports families and caregivers of children with congenital heart disease. <p>A 25 contact hour, professional development, care coordination course was co-developed by FHS/MHealth and faculty from the UMSON and has been made available to nurses at FHS/MHealth as well as faculty and students at the UMSON. In May, 2015 the course was built into the Moodle, an open source learning management system, and is available commercially for external clients and used within the FHS/MHealth system for orientation of new care coordinators. A total of 58 nurses from FHS/MHealth and UMSON students have taken the course</p>

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		since it was created.