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Project Name	Faculty Name	Department	Type of Project	What is the general researd problem or project that the student will be completing under your memoritomik? (e.g., Awo does transgenerational eigenetic inheritance affect metabolic disease risk? Which support systems provide better outcomes for people with summatic brain layor? Creation of independent learning modules for a course).	What specific question will the student addressing during their rotation, and can it be completed during the rotation? (e.g. Does thermoneutrality enhance the effect of a high-fat diet on gycernia in mice? What is the population with B1 in Worcester? How can we advance students' self-directed learning using technology?)	What type of study (e.g., cross-sectional case-control study, longitudinal cohort study, clinical truid, model system (e.g., cells, nice, worms, files, etc.) will the student be working on? What is the implementation plan for the curriculum?
Medical language curriculum development	Michael Chin	Family Medicine & Community Health		The goal of this grouped is to improve the structure, ourriculum and course resources to the CFG40 Medical Language course, which is a 1- month elective available to UMMS medical studer in their Advance Studies year. Studers may table this elective which focusing on any non-English language other than Spanish. Over the past 7 years, over 60 medical students have completed the course.	How can the curriculum and course materials for the one- month Medical Language elective be improved? How can the course's impact be expanded (e.g., via outracts hot students to increase enrollment, publishing, or providing learning resources that are used after completion of the course)?	Curriculum improvements made during summer 2025 ideally will be used in the subsequent one to nine months. The course is typically offered during a least four blocks during the academic year, and curriculum improvements have been incorporated in each of the past 7 years that the course has been run.
Ophthalmic Data Science	Nazlee Zebardast	Ophthalmology	Research	Multiple projects are available for highly motuted student in the field of ophthalmic exploring on data science. Background in statistics and knowledge of statistical and computer programming is helpful. I. Genomica and logisase risk prediction. Using two longe biochank and entry programs in a ophthalmic clinical thai, these projects aim to understand the influence of polygetic risk of adjaccom disease risk phenotype, and progression. 2. Inschine learning for better disease progressication. Unsupervised deep learning models will be used on large repositories of ophthalmic imaging to understand subtypes of disease and characterize progression. The goal is to define succural and incipational endophenotypes that are closely aligned with disease type, severity, and progression. 3. Outcomes and henguiny research. Multiple distances are available for use datasets. We have previously used hense datasets to understand the diffectiveness of new surgical procedures in the USA and racial healthcare inequities among glaucoma patients. Student role: The primary goal of these datasets and perform appropriate statistical analysis. The student kind module and perform appropriate statistical analysis. The student will formulab the question most interesting to them or work with the methor to join an existing project. Student and use existing data to anyour theory to join an existing project. Student and use network will meet at least weekly (and more often as needed) to ensure adequate progress.	NA	cross sectional and longitudinal
Translational research in autoimmune conditions and cancers			Research	How can we manipulate T cell migration and function to treat chronic diseases?	Project dependent, student interest dependent	Human bioinformatics/dataset analyses; model systems including
	Jillian Richmond Mark Maxfield, MD	Dermatology, Neurology	Research	diseases? Creation of edited robot thoracic surgery videos	Can a robot thoracic surgery video be created and edited to	mice and pet dogs surgical shadowing; clinical exposure; video editing
Robot Thoracic Surgery Videos		Surgery	Research	Under Represented Community in Health Care - Via Remote Medical	augment learner education? Medical Record indicators, Patient facing with follow up	Clinical Trial - Hypertension Disorder of Pregnancy (HTN)
Empower Study	Tiffany Moore Simas	Ob/Gyn		Monitoring Initiatives	proceedures	postpartum mothers, medical extractions, patient recruitment
Evaluating the Use of Naloxone Prearrival Instructions in 911 Dispatch	Laurel O'Connor	Emergency Medicine	Research	Naloxone is increasingly being distributed into the community through public health indiatives, however it is unclear how effective 911 dispatchers are at providing accurate prearrival instructions to faciliate bystander naloxone administration.	What percentage of 911 calls for opiate intoxication recieve bystander nationon instructions, and of the calls where natoxone is available, in what percentage of calls can bystanders follow dispatcher-supplied pre-arrival instructions to administer the nationone prior to EMS arrival?	This will be a retospective cross Sectional Study
Engaging Community-Based Organizations in Co-design of SDOH Curriculum	Susan Hogan	Family Medicine and Community Health	Research	Understanding and addressing the social determinants of health is crucial for reducing health dispatities and ensuring equitable healthcare delivery. The student will work on revising the Medicine and the Human Experience (MHE) curriculum to better address the gap between knowledge of social determinants of health and its practical application in patient care. This involves engaging in co-design essensor, qualitative data analysis, and creating surveys to evaluate and improve the curriculum	The specific question the student will address during their rotation is: "How can the Medicine and the Human Experience (MHE) curriculum be revised to ensure students effectively apply knowledge of oscial determinants of health (SDOH) in patient care?" Yes, this question can be completed during the rotation by focusing on co-designing curriculum prototypes, analyzing qualitative data from student and community feedback, and developing and evaluating pre- and post- curriculum surveys to measure the impact of these changes	The student will be working on a curriculum development study that incorporates elements of qualitative research and cross-sectional survey analysis. The focus of the study will be on the design, implementation, and curriculum. The implementation plant for the curriculum tegins with a co- design phase, during which the student will participate in the 2-botr co- design phase, during which the student will participate in the 2-botr co- design phase, during which the student will participate in the 2-botr co- design phase, during which the student will participate in the 2-botr co- design phase, during which the student will participate in the 2-botr co- design phase, during which the student will be a significant role in the which community participate and (CAP) will also pays a significant role in the which community meets and proteins, ensuring its sustainability through ongoing guidance and input. Phe- and post-curriculum surveys will be designed and implemented to measure medical students. The success of the role designed hard measures and survey ranking and utility the piloted with the next cohort of medical students. The success of the curriculum will be evaluated through sturvey ranking and utilitative feedbards from participants. Additionally, the student will contribute to schodarly oulputs by pregnant guidances and proteins.
MPACT Clinical Trial about Mindfulness	Davis Oraci	Family Medicine and Community Health	Research	How does mindfulness help reduce chronic low back pain?	How can mindfulness help people who have chronic low	Randomized Control Trial
and Chronic Low Back Pain	Paula Gardiner			Food insecurity is widely recognized as a social determinant of health that has	back pain Students engaged with the collaboration will have two primary roles. 1)	This is a direct community service project with a Quality
Summer produce distribution at a community health center	Melanie Gnazzo, MD	Family Medicine and Community Health	Community Health	significant impact on overall health and well being, and can be addressed with outsing resources. The Family Health Center of Worsster is a foderally qualified health center in an urban neighborhood, at which the patients are more likely to experience food insecurity than the general population of Worsetsr. The Community Harvest Project of Grafton, MA is a farm that provides 100% of its harvest to hunger relief. Since 2013 the Family Health Center of Worseter and the Community Harvest Project and UMass Chan Medical abuents have colluborated to give free produce to patients during the summer season.	coordinate and implement the produce distribution. This will involve part- time work ver6 44 weeks during the summer. It can involve hand-on work at the farm, bagging produce, transporting produce to the FHOW, and working with staff at the FHOW to distribute to patients. 20 Justify improvement project. This can be tailored to the program's needs and the student's interests. In 2024, the student surveyed staff to assess the impact of produce distribution on staff vectorious and staff relation. See OI engagement with the produce, self-propried health outcomes, and screening processes for SDOH at the FHCW.	Improvement process.
ELMExperiences with Long term antidepressant Medication	Alison Karasz	Family Medicine and Community Health	Research	Long term antidepressant use is very common in the United States. Yet the benefits of antidepresant medications are slim and contoversial, while some evidence suggests growing health risks from long term use. This study is interviewing doctors and patients regarding their experiences and decision making with long term use.	What are doctor and patient experiences whit long term use? How can doctor and patient experiences help to understand the factors underlying long term use? Are there different patiences to long term use, varying by culture, ethnicicity, and SES? What are potential targets for de-prescribing?	qualitative study
Experiences with isolation and loneliness among post partum women in India	Alison Karasz	Family Medicine and Community Health	Research	What are causes of post partum isolation/ioneliness in Indian mothers of different SES groups? What are mothers' experiences of lonelienss and isolation? What role do gender roles play in this experience?	See above	Qualitative interviews (translated/transcribed) will be analyzed. Hindi/Urdu speaker an advantage.
Improving Participation in Pulmonary Rehabilitation through Peer-Support and Storytelling	Peter Lindenauer	DHDPS, Baystate Health	Research	What are best ways to encourage patients to attend pulmonary rehabilitation?	Patients will gain experience in recruitment, intervention delivery, reviewing patient data and conduct qualitative interviews.	Clinical trial
Linkages between addiction treatment providers and recovery courts	Ekaterina Pivovarova	Family Medicine and Community Health	Research	what is the impact of a linkage facilitation intervention on access to care for individuals involved in recovery courts	evaluate findings from qualitative interviews and support manuscript development	qualitative data from three site pilot
Trends in the Treatment of Youth in Foster Care	Heather Forkey, MD	Pediatrics	Research	Analysis of foster care clinic patient data for diagnostic and clinical management trends	What does the Foster Children Evaluation Service (FaCES) clinic QI data for the past 5 years demonstrate?	Quality Improvement clinic descriptive analysis
Supporting Foster Parents Understanding of and Response to Trauma in Foster Youth	Heather Forkey, MD	Pediatrics	Community Health	Creation of learning modules and resources for birth parents and foster parents	How does a foster parent and birth parent understand and respond to trauma in foster youth?	Literature and resource scan and distillation for lay foster and birth parent population