MED 832: A Month in the Research NEXUS

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Block 1	0	**Block 3**	0	**Block 5**	0	**Block 7**	0	**Block 9**	0
Block 1A		Block 3A		Block 5A		Block 7A		Block 9A	
Block 1B		Block 3B		Block 5B		Block 7B		Block 9B	
Block 2	6	**Block 4**	0	**Block 6**	0	**Block 8**	0	**Block 10**	0
Block 2A		Block 4A		Block 6A		Block 8A		Block 10A	
Block 2B		Block 4B		Block 6B		Block 8B		Block 10B	

Does this rotation accept visiting students? ☐ YES ☒ NO

COURSE DESCRIPTION:
This course is for MD/PhD students, other pre-doctoral trainees, and post-doctoral fellowship students ONLY. The objective of this elective is to help students write a translational research proposal in the format of a NRSA F32, R21, or mini-grant that expands on their current research interests. The course consists of research topic specialist lectures, literature review, completion of a mini-course covering basics of human subject regulations, active discussion about designing various clinical and translational research studies, development of a translational study including sample size calculation and power analysis, how to set up a study database, and how to statistically analyze data. Completion of this course will provide students with an excellent foundation in translational research, a relevant addition to a basic science base. Each student works with a mentor and obtains the assistance necessary to fully develop the clinical and/or translational study. At the end of the course, each student will formally present his/her proposal to members of the SCTR Research Nexus rotation course, his/her mentor, and selected other individuals.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Develop a clinical investigation protocol based on the student's dissertation and/or research interest.
2. Apply appropriate statistical approaches in developing a clinical protocol.
3. Demonstrate understanding of the basics of the informed consent process, IRB review, good clinical practice, strategies for patient recruitment/retention, standard operating procedures, study audits, adverse events/reporting, clinical trial budgets, and research misconduct.
4. Employ effective strategies for managing research teams.
5. Demonstrate understanding of the importance of preliminary data, rationale for methodology, and experimental design in the context of the presented research study.

INSTRUCTIONAL METHODOLOGIES AND ROTATION ACTIVITIES: Students on this rotation will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:
1. Lectures from various research topic specialists across campus.
2. Attend IRB and Scientific Review Committee meetings.
3. Literature review.
4. Rounds/discussions.
5. Participate in a mock review.
6. Attend a R21, F32 or mini-grant and Biostatistics - Power/Sample Size Consults.

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
Not applicable

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods.
1. E*Value Research Evaluation.
2. Clinical/translational proposal.
3. Participation in discussions.
4. Interpersonal/communication skills.
5. Presentation of a final proposal.
6. Written proposal to be scored by two reviewers.
7. Final course satisfaction REDCap survey.
8. A mid-point evaluation will be completed halfway through the rotation in order for the student to be assessed on their performance.

9. Grading components - proposal 60%, participation in class 40%.

Will students be expected to participate in call? ☐ YES ☒ NO