

## Research Opportunities

Although UND does not have a classical academic medical center and hospital, there are several research opportunities that you can take advantage of to build a solid research portfolio prior to residency applications. Residency programs know there is not as much available, so taking the initiative to pursue some of these is usually more than enough to be considered a competitive applicant from UND.

### Pre-Clinical

- Research Experience for Medical Students (REMS)
  - Many students participate in basic science projects and some in clinical projects that they attempt to get published. This is a great way to get exposure to research early on to see if it is of interest to you. Trying to find a principal investigator that understands and shares your desire to publish is key here.
  - Try to connect with Basic Science faculty early in the year or ask third- and fourth-year students what clinical faculty they worked with before applying.
  - REMS now includes the REMS 1 prep elective and REMS 2 for 8 weeks later in the year. You must complete REMS1 to enroll in REMS 2. It is now possible to consider doing research via the REMS course outside UND, either in an affiliated hospital or at another university. Consult with the course director well in advance about how that would work.
- Sanford Summer Internship
  - This program is not always running, but if available, has had opportunities for orthopedics or other research that students were able to get papers and posters from.

### Clinical

- Epidemiology Project
  - Many students will elect to publish their project. Drs. Beal and Sahmoun are very supportive of this and will be involved in the revising process.
- Surgery Grand Rounds
  - Can include your required surgery presentation as a research experience in ERAS
- OB/GYN Grand Rounds
  - Can include your required presentation as a research experience in ERAS
- Case Reports
  - Generally, most providers will have cases marked for students to write up. If you ask around with the providers you are working, you will find something.
  - There are essentially unlimited opportunities to publish case reports during third and fourth year.
  - Always good to contact clerkship directors and Drs. Bande and Nichols to see what is available.
- Quality Improvement Elective
  - This is an excellent elective to get another research project that typically requires minimal effort compared to the Epi or REMS projects.
  - You are typically assigned a project by the health system you are working with to be completed in the four-week span.
- Pathology Independent Study Elective
  - Many students work on and publish case reports and submit abstracts to the NAME conference.
- Fourth year research elective

- Many students take advantage of this one month research elective opportunity that is directed at the creation of a publishable-quality manuscript.
- However, you should be aware that it is not realistically possible to propose and design a study, get IRB approval, collect data, and write a paper all within one month. There is a detailed timetable for preparation to take this elective before the one month actual experience, including allowing time to write for and seek IRB approval. Plans to participate in this elective should be discussed with the course director well in advance and participation requires previous IRB or IACUC approval if that would be required for your research.
- Preparation of case reports does not qualify for this experience
- Research on Away Rotations
  - Always a great idea to ask about case reports and other projects that are available. Not only does this show an interest in research, which many residency programs are looking for in applicants, but it gives you another project to put on ERAS.
- Clinical Research Projects:
  - If you contact one of the various department research advisors, they may be able to help you get connected with a clinical research project as an extracurricular activity
  - [https://med.und.edu/research/\\_files/docs/departamental-student-clinical-research-advisors.pdf](https://med.und.edu/research/_files/docs/departamental-student-clinical-research-advisors.pdf)
  - Some Fargo campus students have worked with Dr. Dyke on cardiothoracic research in the past

### **Local Opportunities to Present Research**

- Frank Low Research Day in Grand Forks
  - Can present case reports, REMS project, Epidemiology Project
- ND American College of Physicians/Society for Hospitalist Medicine Annual Conference in Fargo
  - Can present case reports, clinical or basic science research
- Pediatric Grand Rounds during Pediatric Acting Internship in Fargo
  - Have to create an hour-long presentation to give to pediatric providers