



SIR Foundation Summer Medical Student Internship Program

Institution Name: Advanced Interventional and Vascular Services, LLP

Responsible mentoring physician: Christopher Shackles, DO, MPH

Length of proposed curriculum: The internship should be 8 weeks and at least 40 hours per week.

A. Please provide a brief description of how each of the following curriculum elements will be demonstrated/taught through your program.

The summer research internship at Holy Name Medical Center aims to be an innovative educational program that spans the summer between the first and second year of medical school. This program intends to give medical students increased exposure to the world of Interventional Radiology as well as to improve their understanding of the research process and its importance to the future of medicine.

In preparation for the summer program, the students will be asked to review the list of currently active projects, or alternatively may submit an original clinical research proposal prior to their arrival on campus for review. Once the student arrives on campus, they will spend the first two to four weeks in the Interventional Radiology suites observing cases and gaining a better understanding of the specialty. After gaining some experience in the life of an Interventionalist, the students will then begin to focus on their research projects. Pertinent introductory, clinical and statistical concepts will be taught by the faculty throughout the experience through a combination of didactic lectures, assigned readings and hands on work. Throughout the course of the program, participants will be encouraged to attend all of the multidisciplinary conferences (i.e., M&M, Tumor Board), research meetings and journal clubs. The program will ultimately culminate in a presentation to the department at the end of the summer. All participants will be highly encouraged to submit their work as scientific abstracts and/or manuscripts whenever possible.

B. Please provide the details on the instructional setting and methodology (laboratory, classroom), description of any educational resources (PowerPoint presentations, textbooks, selected readings), and assessment techniques (question and answer sessions, tests) to be used in the process of instruction.

Holy Name Medical Center will serve as the main campus for clinical cases with opportunities to rotate to outpatient centers when possible/preferred. During the first two to four weeks students will spend their time observing cases to better understand the field of Interventional Radiology. Afterwards, students are encouraged to continue to observe cases, particularly those



which correlate with their research projects, throughout the program. Once a project is assigned/accepted, the student will meet with the site director weekly for project updates. If the project is to be continued after the completion of the summer program, project updates may continue via Zoom or Email. The student will be required to present their project to the department at the conclusion of the summer. All students will be encouraged to submit their work as a scientific abstract or manuscript whenever possible. Appropriate clinical/statistical support will be made available whenever necessary.

Didactic lectures will be given throughout the program when appropriate to further students understanding of the research process, discussed topics or recent cases. Select journal articles will be assigned for review/discussion.

Cases which are a part of our several ongoing Clinical Trials also give the student a unique opportunity to observe the role played by the research coordinator as well as participating research assistants/clinical specialists when possible.

C. Please provide a brief outline of available research topics, one of which the student will select for completion as part of the program. The projects should be of a scope appropriate for completion within the limited time frame provided.

Research topics and interests are broad with a strong focus in peripheral arterial disease and limb salvage. However, our affiliation with the Outpatient Research and Cardiovascular Alliance (ORCA) allows for a steady influx of a multitude of additional interest areas with some of our current projects focused on; device development/performance, IVUS utilization and Inpatient vs Outpatient Outcomes research.