

Nathan Jung

Mr. Speice

ISM I

19 March 2021

Discussing Complex Vascular Procedures In-Depth

Assessment 16 - Mentor Visit

Mentor: Dr. David Kim

Profession: Interventional Radiologist

Location: Home of Nathan Jung, 4561 Jaguar Drive, Plano, TX, 75024

Date: 3/2/2021

Time: 5:30 PM

Assessment:

The second mentor visit was another great informative session. It represents the great direction that this mentorship is going and it increased the overall excitement to be researching this career. Dr. David Kim was extremely helpful in answering all of the questions that were asked about the angiography procedures and in providing some insight into other aspects of interventional radiology. Overall, it was a great and fun discussion.

The primary goal of this assessment is to analyze what goals, desired information, and questions were thought of in preparation for this assessment and whether or not all of those things were either answered or fulfilled during the mentor visit. In this visit, the main goal was to ask the questions that arose while conducting research on the angiography procedures that Dr. Kim recommended I research for the final product, which included angioplasty, stent placement,

and embolization. Dr. Kim was able to answer all of the questions in great detail, providing deep insight on each one. He was able to describe things in terms of basic anatomy, history, and the background knowledge that he knew was created from our discussion last time. Many questions about how the procedures themselves are carried out were asked and answered in great detail. For example, he explained that angioplasty and stent placement are often combined in certain procedures in order to effectively treat the patient. He also explained in what situations that would be necessary and why it would be necessary. Furthermore, when asked about the difference between plastic and steel stents, he explained the history behind stents and how plastic is a more modern version of stents originated from the stainless steel stents used before. The fact that he explained his answers to the questions in such detail and in ways that were easily understandable, meant that they were able to create a complex understanding about these angiography procedures and how they are all connected to each other and when each is used in certain situations. This new knowledge and understanding will be useful for designing the final product, but that will be discussed later in the assessment.

Another goal of this assessment was to identify and analyze some of the highlights of the mentor visit. One major highlight of the assessment was that we got to discuss interventional oncology, which is not directly related to my final product, but is still a topic of high interest for me. Dr. Kim was talking about one procedure, radiofrequency ablation, that can completely cure a type of kidney cancer in a one-day procedure. He said it is one of his favorite procedures to perform because it is so rewarding and his description of it piqued my interest in that topic. He also gave his insight on when the cure for cancer will come, and he predicted that the curve for finding cures to diseases will be similar to the technology curve: exponential. He believes that once artificial intelligence reaches the point where it can find one cure to a certain type of cancer,

it will only go uphill from there. Our discussion about cancer treatment and interventional oncology increased my overall understanding of interventional oncology and how it fits into interventional radiology as a whole. It was good to talk about another topic in order to broaden the range of knowledge gained from this spring semester.

The last goal of this assessment was to discuss how this mentor visit and the knowledge gained from it will be applied to the design of the final product. Lots of gaps in the research done on the complex vascular procedures were successfully filled and the overall understanding of these procedures was elevated by a lot. Now that a good understanding of these procedures is gained, that understanding can then be applied to the design of the final product. Essentially, this mentor visit contributed to increasing the overall understanding of these procedures and even created a complex understanding of these procedures in the sense that Dr. Kim connected them to each other and to the overall interventional radiology field as a whole. This complex understanding will serve the purpose of elevating the quality of the final product and how much the knowledge of these procedures will be applied to the final product.

In conclusion, this mentor visit was extremely beneficial to the overall understanding of the procedures researched due to the fact that it filled in many gaps and answered many questions about the research conducted. Now that these procedures have been successfully researched and an understanding of them is gained, they can now be applied to the modified designs of the final product. I really look forward to my next mentor visit with Dr. Kim.

[Mentor Visit Notes](#)