

Nathan Jung

Mr. Speice

ISM I

5 March 2021

## A Perfect Start to the Mentorship Experience

### Assessment 15 - Mentor Visit

**Mentor:** Dr. David Kim

**Profession:** Interventional Radiologist

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

**Date:** 2/9/2021

**Time:** 6:00 PM

#### **Assessment:**

This first mentor visit was a great way to begin the mentorship experience. My discussion with Dr. David Kim was extremely productive and detailed. He was able to provide a load of information and advice regarding the original work and the future research necessary to turn the designs from the original work into the final product. We discussed a lot of topics and information; all of which will be analyzed in this assessment.

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. First, it is necessary to discuss what the preset plan was for the mentor visit. The first thing on the agenda was to go through the Mentor Handbook and discuss it. We did that and not much new information was gained from

that part of the meeting; it was just going over some policies. The next thing we did was to discuss the original work project done over the fall. One of the main topics that needed to be discussed was successfully discussed in great detail. This topic was about which procedures to look into for the final product research. I told him about the procedures I researched for the original work and he told me that one of the procedures I researched, percutaneous nephrostomy, was not completely appropriate for my project specifically. He explained that the procedure is really quick and is quite simple in terms of equipment used; it only requires two wires, an intro. catheter, a dilator, and a tube. He advised that the procedures researched should fall into the category of a complex vascular procedure that takes a long time, meaning two to four hours, compared to most IR procedures, which take around 20 minutes to an hour. He provided examples of such procedures, which included angioplasty, stent placement, and embolization; all of which fall under the category of interventional angiography. These procedures were researched in detail since the mentor visit in preparation for the next one and to incorporate the procedures into the design of the final product. Each procedure involves lots of wires and catheters and are extremely complex. The wire organization purpose that my final product design serves will be extremely helpful in these procedures due to their complexity and long lists of equipment.

The second main topic that was discussed was the design of the mechanism itself. The original plan was to have it protrude out from underneath the side of the table and to come straight up, with the grips for the wires being out to the side of the table. Dr. Kim advised to alter the design to have the mechanism come out over the bottom of the table where the patient's feet typically lay due to the fact that it would then be hanging directly over the patient, thus keeping it in the sterile field. He explained that something hanging out to the side of the table would

potentially be outside of the sterile field and would thus be ineffective in organizing the wires and catheters that need to be sterile in order to prevent contamination and infection. He also explained that having the mechanism coming out from underneath the side of the table would get in the way of the controls on the angiography table and would thus decrease the efficiency of the procedure, which would be counterproductive to the entire purpose of creating the mechanism in the first place. All of these design modifications will be made for the final product.

Another goal of this assessment was to analyze what some of the highlights of the mentor visit were. One highlight was the fact that he appeared to be really pleased with the idea and certain main aspects of the design. For example, he mentioned that the rubber grips were a great idea to be able to hold all types of wires: slippery and steel. He also mentioned that the lock mechanism idea was also good due to the fact that the wires must be completely secure when they are being held by the mechanism. Another highlight was when he was explaining the information. Allow me to elaborate. He was explaining the information in great depth and detail and I was excited to see my background knowledge kicking in and enhancing my understanding of what he was saying. It also demonstrated that he trusted that I had enough background knowledge and personal ability to understand what he was saying. Our discussion was exactly what I had envisioned at the beginning of the year for discussions with a professional: extremely detailed and information that I was able to understand due to all of my hard work researching throughout the fall. It was just nice to see all of the hard work done up until this point fit the purposes envisioned earlier in the year.

In conclusion, the mentor visit was extremely successful and lots of information was gained from it. This assessment essentially analyzed the information gained, how it will be used in the future, how it can be applied to the final product, and some highlights of the visit. This

mentor visit was a great way to start off the mentorship and I am extremely excited to continue to work with Dr. Kim in the future.

[Mentor Visit Notes](#)