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Mr. Speice

Independent Study and Mentorship II 3B

26 October 2017

Assessment 9

Topic: Mitral valvuloplasty and mitral valve replacement

MLA Citation:

Ohno, Hideaki, Yasuharu Imai, Masatsugu Terada, and Takeshi Hiramatsu. "The Long-Term Results of Commissure Plication Annuloplasty for Congenital Mitral Insufficiency." *Annals of Thoracic Surgery* 68 (1999): 537-41. Web.

Shi, Yi, Haitao Xu, Qiang Wang, Shoujun Li, Tong Yi, Yajuan Zhang, and Wenchao Liu. "The Mid-term Results of Mitral Valve Repair for Isolated Mitral Regurgitation in Infancy and Childhood." *Pediatric Cardiology* (2017): n. pag. *Springer Science+Business Media*. Web.

Assessment:

When entering into my Independent Study and Mentorship II journey I knew my primary goal was to step out of my research comfort zone and begin to get more specific with my assessments. When asked if I wanted to become a part of a prospective research on mitral valvuloplasty and mitral valve replacement in infants less than one year old, I found this to be the perfect opportunity to learn about pediatric cardiothoracic surgery in a more specific scale. On assessment eight I had annotated an article that spoke of mitral valve congenital malformations. This article gave me the general background knowledge to understand the articles spoken about

in this assessment. By now understanding mitral valve anatomy, different mitral valve anomalies, and different mitral valve repairs I can begin to review prospective research done in the past on specific outcomes related to mitral valve repair.

Different from any research article I have read in the past these articles instead of proposing a solution or innovation it is an overall review of mitral valve repair done in the past; which is similar to what we hope to do, so not only do I better understand mitral valve repair through this research, I will also learn what a prospective research article should look like. The first article focused on isolated mitral regurgitation. This I believe is slightly more specific than what we plan to research since it focuses mainly on mitral regurgitation. The article reviewed information I had researched upon on my assessment eight,; explaining in detail what mitral regurgitation entailed and what the course of action for repair was taken with each case reviewed. The second article specifically on commissure plication annuloplasty, another mitral valve repair. Although the two articles were from different time periods, they had similar conclusions. Since mitral valve congenital malformations that require repair are rare there is not a lot of information on the results of these repairs. However, both articles preferred repair to replacement and had strong belief towards the negative prognosis of a mitral valve repair on infants. Learning this information I am assuming the cases I will be reviewing with Dr. Pirolli and his fellow will mostly consist of mitral valve repairs. Regarding specific surgical repairs the articles did not give altering information. With all operations following the standard cardiopulmonary bypass and moderate systemic hypothermia technique, nothing new was really reported on the more recent article. This means there is a lot of room for new medical findings within our own research article.

Overall, these articles although slightly over my head allowed me to review what I will be working on for the remainder of my Independent Study and Mentorship journey, and showed me the true lack of knowledge regarding infant mitral valve repair/replacement. I am now one step closer to more deeply understanding mitral valve congenital defects and the repairs that come with them, and am a step closer to more deeply understanding the field of pediatric cardiothoracic surgery.