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Mr. Speice

Independent Study and Mentorship II- 3B

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Assessment 20

Topic: Surgical results of mitral valve repair for congenital mitral valve stenosis in pediatric patients

MLA Citation:

Sungkyu Cho, Woong-Han Kim, Jae Gun Kwak, Jeong Ryul Lee, Yong Jin Kim; Surgical results of mitral valve repair for congenital mitral valve stenosis in paediatric patients, *Interactive CardioVascular and Thoracic Surgery*, Volume 25, Issue 6, 1 December 2017, Pages 877–882, <https://doi.org/10.1093/icvts/ivx203>

Assessment:

The goal with this assessment, unlike what I have done before was to review a publication format rather than the information it held. Now entering the writing process of my final product research titled: *Mitral Valvuloplasty and Mitral Valve Replacements in Infants Less Than One Year Old*, I have become aware of how much there is left for me to learn when it comes to medical research and medical writing. Coming into the Independent Study and Mentorship program I have had the opportunity to step out of my comfort zone many times, from watching my first surgery to meeting different health professionals; however, nothing has made me feel as unprepared and afraid as my final product during my journey this year. This is why I am taking the time to review publications, like this one, that are very similar to our expected

results and publication and allow me to visualize and understand what my goals and expectations should be at.

This research was similar to ours, regarding a prospective research of mitral valve repairs in pediatric patients; however, their patient pool was slightly different. They focused specifically on mitral valve stenosis, which is the narrowing of the mitral valve, but we focused on both mitral valve stenosis and mitral valve regurgitation cases, which is the backflow of blood from the mitral valve. Both research cases focus on isolated congenital mitral valve malformations excluding patients presenting atrioventricular septal defects or single ventricles. Our research focuses on the high risk behavior of these malformations and repairs due to age, making our age group smaller, infants less than one year old. Instead this research ranges from patients of 22 days of age to 9.1 years. Since the overall goal of both research are to prove that mitral valve repair (and in our case mitral valve replacement as well) can show acceptable results through a prospective research this article is a perfect example of how my final product should look like.

From my original work, I learned of the general outline of a medical publication. In this assessment I will be reviewing and analyzing each section for their content and organization to allow me to tie this back into my plan for my final product publication, starting with the introduction section. It is very important for me to figure out what sections of this publication are feasible for me to write with the knowledge I have, and the introduction seems like something up to par with my original work research and my level of medical writing skill. In this publication the severity of the problem is being addressed and the relevancy of their research is also addressed, this is the type of information I have included in my level one and two outlines and I can use to develop a specific and well written introduction. The introduction finishes with the

overall purpose and goal of this study. Next section is the materials and methods sections, and as of right now, this is a section I find myself unfit to write. Since most of the overall patient information is something I have yet to see, I cannot generally summarize it or create a table. The statistical analysis have been made by the CT surgical team statistician and everything she has done I have also yet to see. Their results section seemed to organize repair type, malformation types, and outcomes, deaths, and reoperations. The discussion section is what I myself feel the most unfit to write, since most of the information on there seemed to relate back to surgical techniques I have yet to learn and research. The last two sections, limitations and conclusions spoke of the limitations within a prospective research and concluded the overall result of the study, concluding that mitral valve repair can be successful in pediatric patients.

Overall reading this study I find myself only ready to complete the introduction of our research and allowed me to realize how much Dr. Pirolli and Traci have to update me on and how much I must rely on their experience and expertise to accomplish my final product goal. Right now I hope to increase communication within me and my mentor to begin to organize myself to complete this research and final product.