Nursing Care of Child with Hypoplastic Left Heart Syndrome

WebQuest Description: To assist nursing students gain the knowledge needed to care for a child with Hypoplastic Left Heart Syndrome

Grade Level: College / Adult
Curriculum: Professional Skills

Keywords: HLHS, Fontan, patient care, congenital heart defect, underdeveloped, heart, oxygen
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Introduction

In addition to the most common form of HLHS shown in the animation below, there are a number of complex cardiac conditions with variations in the structures as described. In these children, where one ventricle is also small (sometimes called "HLHS variants") the treatment strategy is similar to those with the more typical HLHS, which is shown in the animations below. &nbsp;Included are three videos and one includes the Norwood Glenn Fontan. &nbsp;Norwood Procedure 1 converts the right ventricle into the main ventricle pumping blood to both the lungs and the body. The main pulmonary artery and the aorta are connected and the main pulmonary artery is cut off from the two branching pulmonary arteries that direct blood to each side of the lungs. Instead, a connection called a shunt is placed between the pulmonary arteries and the aorta to supply blood to the lungs.

Tasks

By the end of this WebQuest, you will have:

1. Studied information pertaining specifically to Hypoplastic Left Heart Syndrome (HLHS) including: etiology, signs and symptoms, diagnosis, and treatment.
2. Made a Nursing Diagnosis and Care plan for a patient with (HLHS).
3. Increased your own learning by sharing with and working with another student.
4. Completed a quiz and Labeling of blank heart image to evaluate learning acquired during this WebQuest.

This WebQuest has been created to provide you with the knowledge required to complete the tasks related to the care of a child with Hypoplastic Left Heart Syndrome. Each task build on each other. I have provided a list of links to resources to help you complete the task. Do not forget to email your complete assignments to receive credit. You will be working in teams of two students. Please make sure all completed assignments are emailed to me. Remember have fun learning!&nbsp;1.) &nbsp;Click on these link links to learn about Hypoplastic Left Heart Syndrome and read all sections and watch all videos to see how the heart functions:&nbsp;http://www.chop.edu/conditions-diseases/hypoplastic-left-heart-syndrome-hlhs/about#VWEYqU_BzGc &nbsp;&nbsp;http://www.cdc.gov/ncbddd/heartdefects/hlhs.html &nbsp;&nbsp;http://www.nemours.org/service/medical/heart-defects/hypoplastic.html?tab=about&amp;kid=health=87529&amp;bs2=2.) &nbsp;Required Article Readings:&nbsp;Claxon-McKinney, B. (2001). Hypoplastic left heart syndrome. Pediatric Nursing, 27(3), 245-248, 251-2, 286 passim. Retrieved from http://vlib.excelsior.edu/login?url=http://search.ebscohost.com/login.aspx?direct=true&amp;db=rzh&amp;AN=20010758171&amp;site=eds-live&amp;scope=site Meakins, L., Ray, L., Hegadoren, K., Rogers, L. G., &amp; Rempel, G., R. (2015). Parental Vigilance in Caring for Their Children with Hypoplastic Left Heart Syndrome. Pediatric Nursing, 41(1), 31-50. Retrieved from http://vlib.excelsior.edu/login?url=http://search.ebscohost.com/login.aspx?direct=true&amp;db=rzh&amp;AN=20129985771&amp;site=eds-live&amp;scope=site&amp;Rempel, G. R., Rogers, L. G., Ravindran, V., &amp; Magill-Evans, J. (2012). Facets of Parenting a Child with Hypoplastic Left Heart Syndrome. Nursing Research &amp; Practice, 1-9. http://doi.org/10.1155/2012/714178&amp;Soetenga, D., &amp; Mussatto, K. (2004). Management of infants with hypoplastic left heart syndrome: integrating research into nursing practice. Critical Care Nurse, 24(6), 46-46-8, 50, 52 passim. Retrieved from http://vlib.excelsior.edu/login?url=http://search.ebscohost.com/login.aspx?direct=true&amp;db=rzh&amp;AN=20050341551&amp;site=eds-live&amp;scope=site&amp;scope=site&amp;bs3=3.) &nbsp;Answer the following questions: What is Hypoplastic Left Heart Syndrome (HLHS)? What are the signs and symptoms? What are the different types of test done for diagnosis? What type of treatment is available? What type of follow-up care is required? 4.) &nbsp;Go to blank heart document: label your heart.&nbsp;Go to test document: &nbsp;test your knowledge from your reading assignments.&nbsp;Go to test document: &nbsp;test your knowledge from your reading assignments.

Now that you have learned about Hypoplastic Left Heart Syndrome, how to diagnose it, signs and symptoms, you are ready to make a nursing diagnosis and care plan!&nbsp;I would like you to work in groups of two. &nbsp;You should complete at least 2 care plans. &nbsp;Work together and collaborate your care for this individual patient. &nbsp;This will give you the opportunity to discuss the care of this patient and come together to incorporate interventions and patient outcomes. Be creative in coming together to work, use email, discussion boards, face-time, you will also have time in class to come together. &nbsp;&nbsp;Working together and collaborating your care for this individual patient. &nbsp;This will give you the opportunity to discuss the care of this patient and come together to incorporate interventions and patient outcomes. Be creative in coming together to work, use email, discussion boards, face-time, you will also have time in class to come together.

The Word Doc entitled &nbsp;Care Plan provides a template, I have also included a document with websites to assist you with the Nursing Care Plan.
Congratulations!! You have now completed all of the tasks for this WebQuest. These are the goals that were met by completing this WebQuest: You have obtained a solid understanding of what Hypoplastic Left Heart Syndrome is, how it is diagnosed, treated and importantly how to care for patients with Hypoplastic Left Heart Syndrome. You have gain the knowledge of how to create a thorough care plan for a patient with Hypoplastic Left Heart Syndrome. You have increased your learning and other students by gaining knowledge through required reading, collaborating with other students, watching animated videos. You have improved your ability to become a better nurse by having the knowledge need to care for a child with Hypoplastic Left Heart Syndrome.

This WebQuest was created to assist a nursing student and even the new nurse and introduce them to a better understanding of what Hypoplastic Left Heart Syndrome is. The goal was to create a fun learning environment for students to gain the knowledge needed of this heart disease to care for a child with it. In this WebQuest I posted readings, website resources, creating a nursing care plan, videos, a brief test and general questions. All the tasks to be completed were to be completed with another student, this was to promote team collaboration. The time to complete this WebQuest is approximately 4-6 hours including reading.
Standards
This WebQuest was created for nursing students at a college level. The focus was on assessment, planning, implementation, teaching, care plan, and evaluation.

Credits
The inspiration for this topic came from a special little girl with HLHS who I have had the pleasure of caring for and love very much!! Throughout my WebQuest I have included cited material. Thank you to Google Images for so many wonderful images to include in my WebQuest.

Other