

**Week 6: RUA Pathophysiological Processes Paper**

**Sickle Cell Anemia**

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NR283 Pathophysiology

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February 19, 2023

### **Introduction : Sickle Cell Anemia**

Describing Sickle cell Anemia, individuals who are experiencing sickle cell anemia are dipped in chronic life condition. Each year most number of babies that born are related to previous family or family trait important red body fluid disorders(hemoglobin). Sickle cell anemia is a chronic life disease especially established to enter the blood and concede the possibility and noted for a red blood cell disorder and a patient has to receive deoxyribonucleic acid of an uneven red blood cells. This sickle cell disorder is entity that an individual accompanying involve lasting and can form the individual experience many complexities and they will experience extreme pain. Because of the habit of this sickness and being pronounced, there is not surely an perfect number of folk that diagnosed with this disorder. A blood or bone marrow replacement is only a treatment for this disease but no medical theoris have a solution to reduce the sign and symptoms of sickle cell anemia.

### **Etiology and Risk Factors**

If an individual has sickle cell disease , those individuals are succeed with the broken deoxyribonucleic acid that arises from parents and their red blood cells are not round or disc shaped as a usual structure with hemoglobin bear to be formed. The gene of hemoglobin S is passive and its very ordinary in things. There will be plenty of energy issues that guide the ailment and someone which transfers the characteristic, but still people that have the characteristic bearers maybe asymptomatic and though you maybe related to previous family or family trait characteristic and be healthful eventhough the chance to die with the broken gene to your child. Harmfull determinants of this ailment contains high risk of hematuria, incise below the utmost environments, and a high chance of diabetic complexities. Individuals with sickle cell

disease are most likely incur despair and likely to gain hardship to deal the difficulties which include the classifications.

### **Pathophysiological Processes**

Cases accompanying sickle cell disease( anemia) get so much arduous fight a few conditions. These fight would cause people to have a sudden cease in brain, both male and female are in discomfort with unchanging manifestations. Few interventions that an individual may suffer from an illness that can account a obstruction of ancestry line. Once this individual endures from sickle cell disease bear a bad depressed cell with hemoglobin count which causes reduced red blood cells and these membranes likely to hold smaller life expectancy than others beyond sickle cell ailment on account that is induced by break down of red blood cells. When an individual is suffering from a sickle cell disease, lot of the best blood cells are expected as complicated and many difficulties can happen around the individuals physique and mould mind, cartilages,even the structures of organ can affect. Momentarily, important defect and misfortune in working can happen in many body structures. These can cause ulcers and obstructions in hand and foot too.

### **Clinical Manifestations and Complications**

Irrespective of gender,both gender sufferers from sickle cell disease can incur a cease in brain function, they can evolve intense cardiac condition, blood pressure, they can receive tissue injury, cultivate less vision, cultivate dermal ulcers. These can cause for people accompanying certain affliction to get a brain damage almost on an account of the obstruction to the region on the head. A brain damage maybe fateful and make an impactthe launch of the brain damage that carry a brain damage, proneness and deadness will screw up sufferers arms and limbs, and unexpected verbal complication, unexpected misfortune in knowledge. Acute chest disorder is a

severe obstacle of sickle cell anemia can cause rib cage discomfort, turmoil eventually leading to trouble respiring. Most significant evidence in kids that suffers from the sickness can inflame legs and hand eventually these will matter the physician to investigate the individual accompanying sickle cell disease. Intentions for people can receive examined and visualize the defect would be initial evidence in the utmost exhaustion, their first and feet will likely to blow up and family will get infected and placed away from the distribution of the infection and illness and will would regulate the harshness in illness. Kids will have deferment in their development and have slow growth process of adolescence on account of the ailment. One element namely prevailing in kids can develop cessation in pneumonia lead to induced infection.

### **Diagnostics**

Individuals could probably receive a blood analysis to completely analyze with bearing sickle cell disorder, that the blood work aids to determine the quantity of hemoglobin especially the sufferer. A matured individuals blood would be held from the nerves from the hands, where kids, new born and babies blood can be collected from their finger and shipped to a lab to induce screened for rood blood cells. After the lab work is proved to be helpful, they can opt to do more lab work to decide if the individual can have one or two sickle genes, as if an individual has two genes, and they have a best portion of affected red blood cells and only have specific deoxyribonucleic acid. Whereas a mom especially carrying a child can definitely visualize if her child is bearing sickness by the means of internal fluid and likewise be examined over DNA. If individual has sickle cell characteristics, it specifies the event to be disclose generative conclusions.

### **Interview Someone with Sickle Cell Anemia**

I have interviewed one of my friend accompanying the disorder. We both arrived and he happily said yes to me and I started to ask him questions concerning illness and it was a smooth framework where nobody could interfere us. He is a 22-year-old male, started with pain alongside sickle cell disorder, and he established that he has both pleasant and completely distressing days. He declared that when he had invasions, it is hard for him to perform. He cultivates not able to have or do progress and the pain gets so deep that he must make use of the emergency room to endure pain to help himself. He told that he has continued ill and often to take care alongwith the discomfort. He posted me constantly that he feels easily discouraged and sinks himself in sounds that are pleasant, harmonized and keeps to himself. He has friends and family but does not like to stress one beside her condition. He states that when he has pleasant days, he likes to experience his highest in rank that he can and he does work and make use of school and does not mind what his life take the place of her entire existence.

I was sad and happy in doing the interview alongside aided myself to take a transparent knowledge by means of what someone accompanying the sickness can endure and in what way or manner they can manage the operations amidst life. I am well-informed from this section and also from the paper. Sickle cell disorder is a condition, and everyone should consider when people is carrying sickness ,as we just never experience particularly by means of what they are sensing or what they are thinking.

### **Conclusion**

I would like to conclude this paper by stating some key points I learned by doing this paper. Sickle cell disease is an hereditary blood disorder remarkable by abnormal hemoglobin. It prevents the capability of hemoglobin deficit blood cells to transfer oxygen. Sickle cells favor to

unite, obstructing small blood vessels producing hard and harmful problems. Sickle cell disease is a chronic condition. Even though the problems of sickle cell disease may not be able to be completely obviated, living an active healthy life-style can decrease some of the complexities.

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