

Essay/Poster Contest Winners

Elementary School

Michelle Vega



Twin Lakes Elementary School

Daniel Vazquez-Hernandez



Amy Amezcua-Ramirez



Twin Lakes Elementary School

Twin Lakes Elementary School

Middle Schools

Steven Arnold

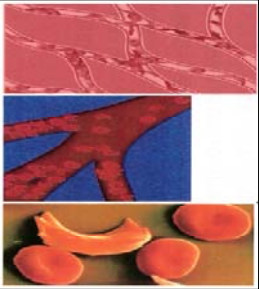


Sickle Cell Anemia
 Malaria, Sickle Cell Anemia, or SS disease

Sickle cell anemia is an inherited blood disorder characterized primarily by chronic anemia and periodic episodes of pain. The underlying problem involves hemoglobin, a component of red blood cells. Hemoglobin molecules in each red blood cell carry oxygen from the lungs to body organs and tissues and bring carbon dioxide back to the lungs.

In sickle cell anemia, the hemoglobin is defective. After hemoglobin molecules give up their oxygen, some may cluster together and form long, rod-like structures. These structures cause red blood cells to become stiff and assume a sickle shape.

Unlike normal red cells, which are usually smooth and donut-shaped, sickle red cells cannot squeeze through small blood vessels. Instead, they stack up and cause blockages that deprive organs and tissues of oxygen-carrying blood. This process produces



Swainston Middle School

Carissa Aquino



THE HEALTH CARE PROVIDER

As the man went through the steps of medication, the parents and the child received help and love from a stranger. That is what a registered nurse; John Villona does for a living. John Villona is a 40 year old registered nurse who only works with kids. If he has to, he will take care of an adult. John has been working as a registered nurse since 1998. His past job was at the UMC. But he is now working with the Summerlin hospital.

John is normally works with children. On a normal day, when he is working with a child, it is for a common cold. Not just children getting colds but also adults too. There are actually more adults coming in with colds and affections then there are kids. But when there are kids John takes care of them.

Do Nurse teach? Well according to John's job they do. I know you're asking yourself what they teach. In John's case, they teach other nurse about their jobs and what they should do with a child with cuts and other diseases. The nurse also teaches parents and children on what they should or shouldn't do and how to take medication and why and what it does to help them with whatever sickness they need help with.

John loves working with kids. He also wanted this job because he thought it would be a steady job. This was a brilliant idea, because if he gets fired he can always get a new job. He could consider being an educator, a flight nurse, school nurse, critical care nurse, and chief nurse officer. As you can see there are a lot of opportunities for a registered nurse.

John has a lot of responsibilities but he does the most give medication to people and teach. John never operates on people or anything cutting.

Let's get to Work! Before you do anything with the patient, you must wear normal gloves so that you never catch germs or diseases and spread them around to others. If you are working on a really bad infection where you have 99% chance of catching it, you must wear PPE (personal protection equipment). That is only needed depending on what the patient has. There are all sorts of things you have to wear. There is even specialize made gloves for certain diseases.

So as you can see, there are all sorts of issues John Villona have to deal with but no matter how hard the job, John will keep on loving his patients, job, and himself. I have learned a lot from John Villona's interview and I hope I can be successful like him when I grow up. John had also said he wants to at least retire at the age of 67 for the meantime, John wants to help the world and save peoples lives.

Swainston Middle School

Asha Booker



KIDNEY FAILURE

My topic is on kidney failure, a common illness that puts an estimated 400,000 Americans into treatment each year: including my father, Maurice Booker.

What is a kidney?

Kidneys are two bean shaped organs about the size of your fist located at in back around the upper abdomen with one kidney on each side of the spine. These bean-like organs remove the poisons in the body in the body from your blood-stream; as well as the body's waste.

What do the Kidneys do to the waste?

The blood enters through renal arteries which come from branches of the aorta (main artery) that carries oxygenated blood from the heart to the rest of the body. Then blood moves through structures in the kidneys named nephrons. Each kidney contains about 1 million of them, consisting of a tuft of capillary tubes that filters fluid from your blood-stream.

Two types of kidney failures!

Yes there are two types of kidney failure. There is acute kidney failure and also chronic kidney failure. The difference is that acute kidney failure is reversible and can be fixed; but for chronic, well you're stuck with forever. My father suffers from chronic failure and he can't be cured.

Treatment

If you suffer from kidney failure one place you'd be treated at a hospital named Dialysis, where you can be treated and taken care of for the day.

Cleaning

At Dialysis there is a machine that cleans the poison in your blood in your body that helps to keep you healthy; but you would need accesses inserted into your arms called accesses. Theses accesses allow the machines needle to enter into your blood-stream and clean your body's system. They look like large veins.

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