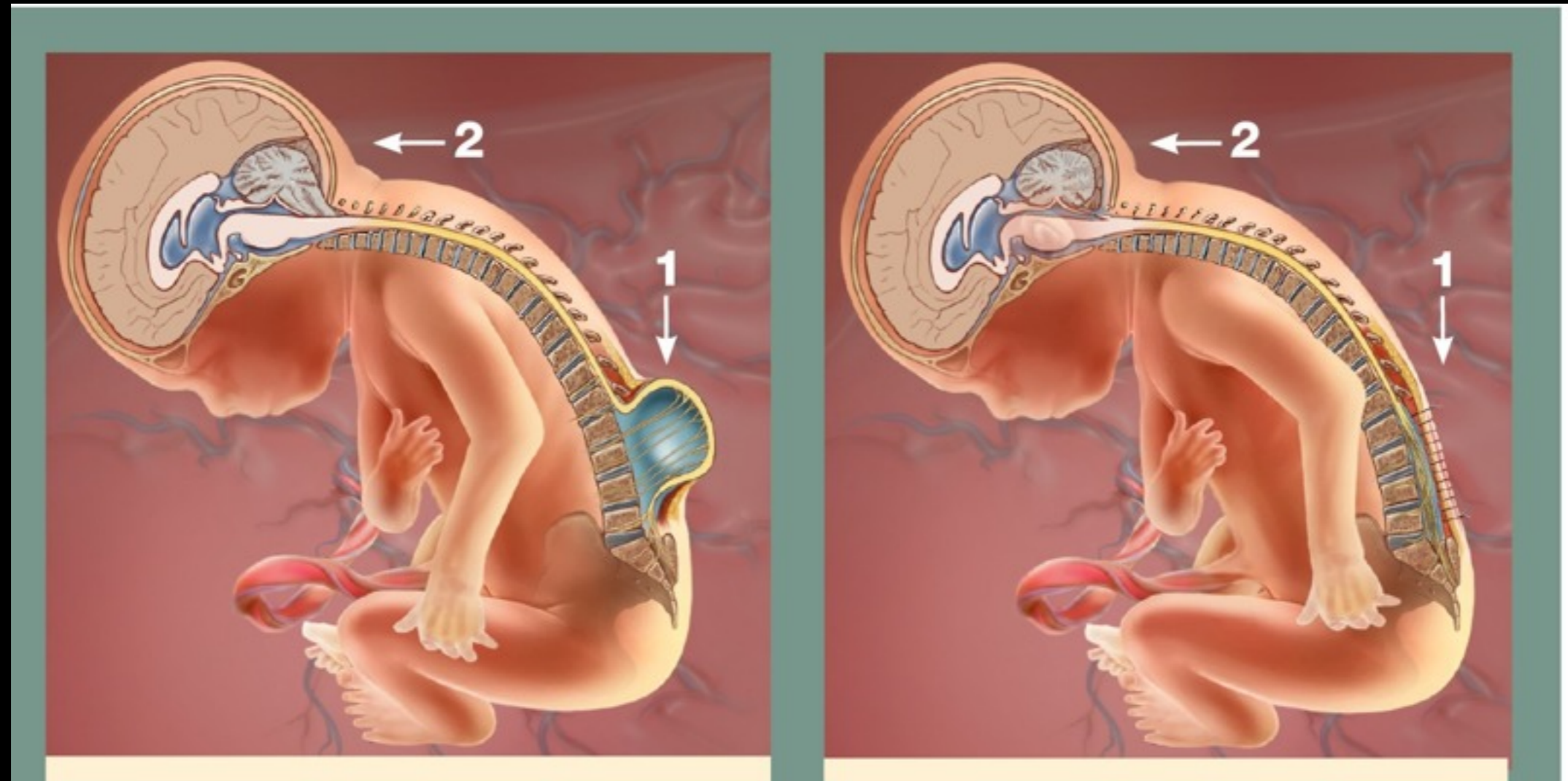


Spina Bífida



by: Kabbour and Daniel

Family Profile



This is Pigsfeet Mcslave. He was born with spinal Bifida. Because he was delivered 3 weeks past the due date he came out bigger than the average child weighing in at 11 pounds 3 oz and being 24 inches long. His mother was in labor for 6 hours before they decided that the kid needed to be a Cesarean section because of its size and the length of time the kid was in the womb. He was born with a slight protrusion on its back that had to be removed once smoothly and now there is a scar along his back but the problems they will suffer will be minimal as the surgery corrected them. Here's his family.

Mother



Mother: Christiana Mcslave

Age: 15

Height: 5'7

Weight: 140lbs bf % 16

*Social status: lower middle
class*

Race: White

*Pets: Hamster and a bunch of
stuffed animals*

Location: Alabama

Hobbies: Partying, Running

Track, Texting, Facebook,

Hanging out with her besties

Has had 3 miscarriages before this is baby still lives with her parents who are helping her raise her the child. Her family lives on welfare but the father pays child support that more than covers all the babies costs. She shares custody with the kid giving the father custody on weekends and half of the holidays.

Father



Father: James Handerson

Age: 22

Height: 6'7

Weight: 300lbs 9% bf

Social status: Upper Class

Race: $\frac{3}{4}$ white $\frac{1}{4}$ black

Pets: Raises and breeds Pitbulls

Location Alabama

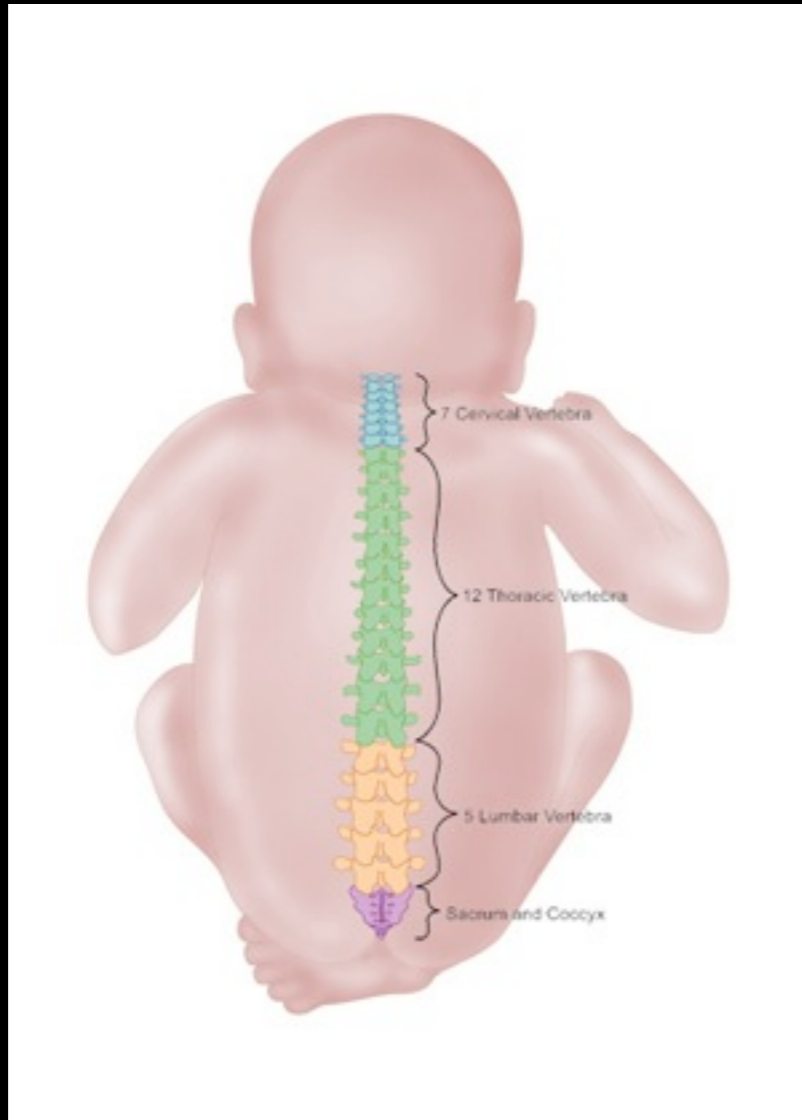
Hobbies: Football, Weight Lifting,

Martial Arts, Boxing, Raising

Dogs, Eating

He is a college Defensive End for Alabama university and number 1 draft prospect for the 2012 NFL draft . This will be the 14th child he has fathered but only pays support and acknowledges the males as his own which would make this his 4th son He met the mother of the child visiting his old High school to donate and to the give a motivational speech to the football team. Hearing his child has developed spina bifida he has a scheduled an appointment with excellent doctors to correct his sons condition as soon as possible so he could mold him into a manly man early.

Development and effect of the spinal Bifida



Effects the development of the spinal cord while the baby is still in it's mother stomach. Because it effects the growth of the spinal cord and the spinal cord is a part of the neuroskeletal system. Spina Bifida also effects the nervous system because it can effect the development of the length of the brain and spinal. Spinal bifida is a form of NT'D which form like this The early spinal cord of the embryo begins as a flat region, which rolls into a tube and about 28 days after the baby is conceived. When the neural tube does not close completely, an NT'D develops.

Early Childhood Nutrition



Our child has a set meal plan.

Fat breakfast - 7:30

Lunch- 12:00

Dinner with family- 7:00

No fast food like McDounals and Burger king

Eats a lot of fruits and vegetables

Fruit:

-oranges

-apples

-banana

-strawberries

-blueberries

Vegetables:

-corn

-carrots

-broccoli

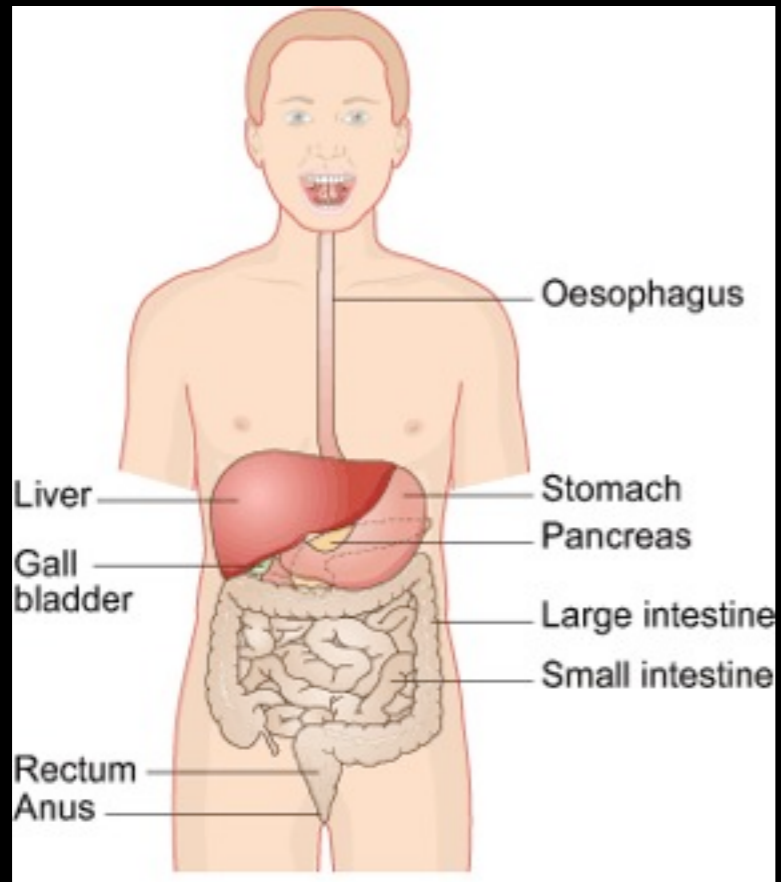
-potato

Drink a lot of liquid like milk, water, diet soda.

Don't eat much fat. home meal are either baked, grilled, steamed or broiled.

Don't watch much tv

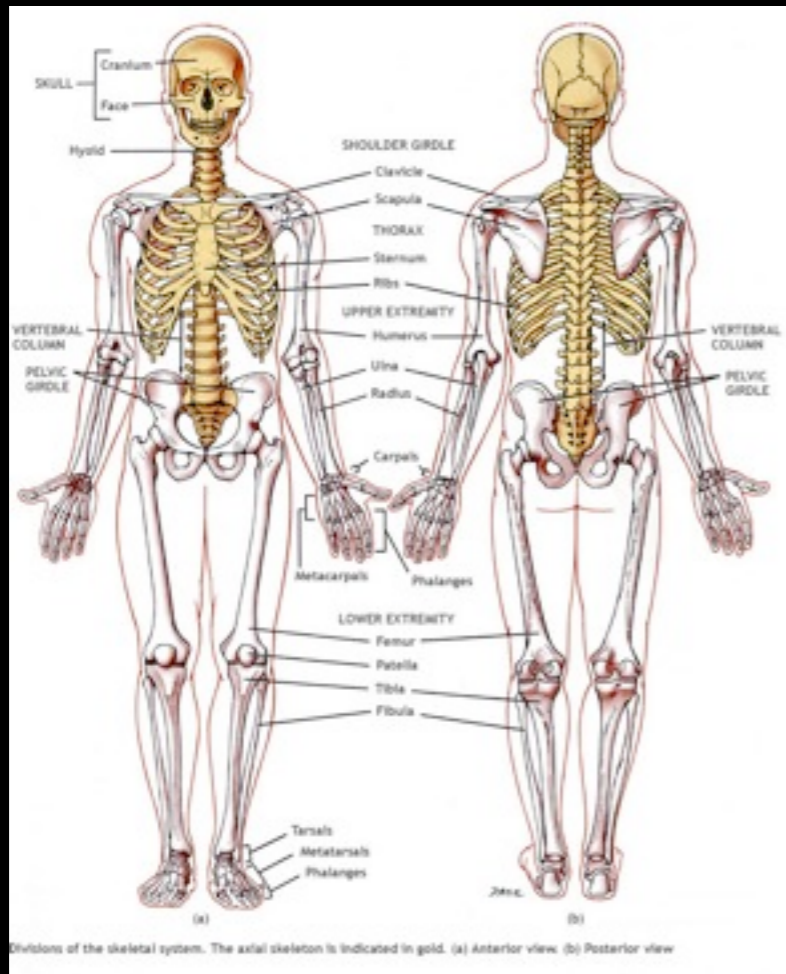
How the Digestive system works?



When we eat the food first goes in the mouth as it's in the mouth your teeth breaks it down in little pieces. while the teeth is breaking down the food saliva is released and help breaks down the fats and what not also making the food easier to swallow by moistening the food. The saliva has four major compositions. They are amylase, lingual lipase, electrolyte solution, and proteins/enzymes. The Amylase initiates the digestion of starch, lingual lipase begins the digesting fat, electrolyte solution moisturize the food, and enzymes are produced by the salivary glands to break down food in to smaller pieces. There are 4 major enzymes called Pepsin, Proteases, Bile, and salivary amylase. Pepsin is released by the gastric glands and is responsible for breaking down proteins into smaller pieces known as polypeptides. Proteases occur in the stomach and small intestine and helps breaks down polypeptides into amino acids. Bile is the fluid use to digest fat. And the salivary amylase is used to break down starch. But back to the process after the mouth the food makes it way down the esophagus. The esophagus also further helps breaks down food because of how moist it is. From the esophagus the food moves down to the stomach.

The stomach then breaks it down in even smaller pieces so that the nutrients can be taken in by the cell. After the stomach breaks down the food even more the broken down food moves to the small intestine. The small intestine is the main level of the digestive system. This is where most food digestion through acid base occurs. The small intestine has an acid call villi. Villi are structures, which act as valve allowing solid foods and/or acids to pass through one structure to another. All useful nutrients that are located in chyme, pass through the small intestine into the bloodstream. so This is where most of the nutrient is taken out. Then it's off to the large intestine where the liquid is separated from the solid and send to it's place through the waste processing. There are six major nutrient categories. The six are water, Carbohydrates, Fats, Proteins, Minerals, Vitamins. The body can't live without water. No water leads to dehydration which lead to electrolyte imbalance and that leads to death. Carbohydrates is the source of energy and building block for nutrients. Carbohydrates are usually found in sugar or starches. Proteins is like the building block that helps structure the tissue in the body. Best sources of protein are meat and dairy. Fats is where the energy is store. Minerals are compounds from your diet that form together helping form the structure of your body. For example calcium is a form of minerals. It helps keep your bone strong. Minerals don't produce sugar. Vitamins are organic components in food that are needed for growth. The older you are the more vitamins needed. Vitamins do not produce energy. Some examples are Vitamin A, D, and E.

How the Skeletal structure works?



Pigsfeet is developing quite fine his skeleton is fine we were concerned that his spina bifida would effect his skeletal development but it is supporting his body fine as protecting his organs and his moment is better then normal of anything. He has truly been blessed his calcium levels in his bones was a bit low but we corrected that with calcium pills. At the microscopic level, bone consists of osteogenic cells, extracellular matrix and minerals. osteogenic cells are used for breaking down and reforming bones while the matrix is mostly collagen and the minerals is the fuels for the processes. When Pigsfeet was a baby he has 300 bones now that he is maturing they have fused together so that he only has 206 like a normal adult a bunch of smaller bones fused together to make 1 bone instead of multiple. The Fontanel or soft spot on the head is no longer a there. The child has less cartilage from when it was an infant and now relies more on bones to perform the function of cartilage. Also the head has become a far smaller portion of the child's total body size. The spine is a long structure of individual bones to form one long bone mass that contains the spinal cord and aids in flexibility and being a pathway between the brain and the rest of the body We were concerned that spina bifida would effect the process but the swift at birth surgery has left the kids with only a small scar along the access point and having a normal.

Playground accident



It was a beautiful day outside when our child went outside for recess. He was long waiting all day to show his friends how good he had got on the jungle bar. We ran up to where the jungle bar was and said, "look at me". He climbed up the ladder and held n the first bar. With no hesitation he swing to the second bar. Then to the fourth but as he moved he felt his hands sweat. He heard his friends cheer him on so he wanted to finish but his arms was getting tired. He moved to the fifth. He was right in the middle. He could finish or turned back ether way he had the same distanced to go. I can do it he thought to himself. He moved to the next bar but as he reached for the next one he felt his hands let go and in an instant he was on the floor. He closed his eyes and for the second before it could close he saw his friends and teachers running towards him. The pain shot up from his legs and he started to shout in pain. He had leaded on his ankle and from the pain he felt he knew it was broken.

They took him to the office and put and ice bag on his ankled to slowdown the swelling until the ambulance came. He had never cried nor felt this much pain before. When he got to the emergency room he had to get and x-ray. Then had to administer and anaesthetic for the surgery. Because his ankle wasn't displaced he didn't have to go through a reduction. He got a splint put on. The splint allows more room in case the swelling is still going on. After a few days a cast was put on but because he has spina Bifida he had to spend two weeks in the hospital.

Pigsfeet learns about Sports

Pigsfeet wanted to become an athlete like his father so he took an interest in body building. His mother wanted to be sure his nervous system would be good enough to begin a sport so he went to a doctor for a physical. First the doctor made sure that his Central and Peripheral nervous system were performing their jobs of integrating information from the nervous system to coordinate movement in the body and make sure the central nervous system is properly connected to the limbs of the body. So he checked the Brain and Spinal cord as well as the Lumbosacral plexus (L1-S4), Cervical spinal nerves (C1-C4), and Brachial plexus (C5-T1). The next step for the doctor was to check and make sure the neurons were performing their function of being the Basic information processing center for the Central nervous system in the brain, spinal cord, and peripheral ganglia. Then he checked Pigsfeet's sensory receptors in the skin to make sure the sensitivity to mechanical stimulation and his eyes for light sensitivity response. After that he monitored his endocrine system to make sure his sensitivity to chemicals was fine then skin again as well as brain to make sure his temperature sensitivity was fine.

The doctor made sure there was a high concentration of sodium and chlorine ions to generate nerve impulses. Then the doctor made sure his reflex arc which is a neural pathway that controls and action reflex was intact so he would be able to play sports. The doctor then made sure his cerebral hemisphere was functioning properly but testing if the left hemisphere was doing mathematical tasks and the right was doing more abstract tasks. He also made sure that the diencephalon was properly forming the posterior forebrain structures. Also he checked if the brain stem was properly regulating the cardiovascular system control, respiratory control, pain sensitivity control, alertness, awareness, and consciousness. The cerebellum controls motor control and the Spinal cord was properly relaying information to the brain. He then asked the mother if she did anything during pregnancy that could have caused fetal nerve damage such as drinking, doing drugs, having certain diseases, had high blood pressure, or if the kid had his oxygen cut off some point during development. After everything neurological checked out Pigsfeet went to the next door joint specialist to make sure his synovial joints, Cartilaginous Joints, and Fibrous joints were all allowing the proper amount of movement proportional to each joint.



Pigsfeet Mcslave now



Name : Pigsfeet Mcslave

Age: 10

Height: 5'7

Weight: 160lbs bf % 12

Social status: middle class

Race: White

Pets: A pit bull his dad gave him

Location: Alabama

Hobbies: Football, Video games, Working out

History: Playing football and video games with his friends. He wants to take up a martial art as well but his mom will not let him so he just spars with friends at school and usually wins because of his large size.