Suggested Language for Explaining CF to Children & Teens

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	What is CF?	CF and the Respiratory System	CF and the Digestive System
Adolescent	CF is a genetic disease that affects the body's epithelial cells, which are found in many places, including the sweat glands, the lungs, and the pancreas. In a person who does not have CF, the epithelial cells produce a thin, watery mucus that acts like a lubricant and helps protect the body's tissues. In a person with CF, an error in these cells causes problems with the balance of salt and water in the body. The body responds by making thick mucus. The thicker mucus doesn't move as easily, blocking the lungs and sometimes other ducts and passageways, causing infections and breathing problems. The two organs that are most affected are the lungs and pancreas, where the thick mucus causes breathing and digestive problems. The thicker mucus has trouble moving out of the lungs, so bacteria can remain and cause infections. The thick mucus can also be found in the pancreas — an organ that produces proteins called enzymes that flow into the intestine to support the body's digestion process. Because the mucus can block the path between the pancreas and the intestines, people with CF have trouble digesting food and getting the vitamins and nutrients they need from it.	To loosen mucus, people with CF exercise regularly and may use inhalers (like people with asthma use) or nebulizers that help deliver medication to the lungs. Coughing helps people with CF clear the mucus from their lungs. They may also take antibiotics to prevent or fight lung infections. Chest physical therapy may also be an important part of a person's CF treatment routine. After lying down in a position that helps drain mucus from the lungs, the person may have someone, like a parent, bang on his or her chest and back to loosen the mucus. Many people with CF now use a therapy vest that shakes the chest allows them to be more independent by doing their therapy on their own. Despite all of the efforts to clear the thick mucus from the lungs, bacteria may still get trapped inside the mucus. This means that people with CF get frequent lung infections that can damage their lungs over time. Sometimes these require strong antibiotics along with stays, or "tune-ups" in the hospital.	The thick, sticky mucus in someone with CF can also keep the intestines from absorbing important nutrients like fat and vitamins from food. This means that people with CF may be short and underweight for their age, and they may get sick a lot because their bodies can't fight infections well. About 85% to 90% of CF patients have pancreatic insufficiency. This means that the body doesn't pass certain chemicals, called enzymes, from the pancreas into the intestines properly. These enzymes are necessary for a person to digest fat, starch, and protein. People with pancreatic insufficiency need to take prescribed enzymes with meals and snacks to help them digest their food properly and get the nutrition they need to grow and develop. Enzymes need to be taken with every meal and most snacks. They should not be chewed or crushed up, and the dose should only be adjusted by the dictitian or doctor. People with pancreatic insufficiency might have problems with growth and weight gain, and they might also have frequent and bad-smelling bowel movements. As people with CF grow older, they may also develop other illnesses, such as diabetes (a disease in which a person's blood sugar is too high) or osteoporosis (a weakening of the bones). People with CF also need extra calories and nutrients to help them fight infection and keep their lungs strong, particularly if they get sick with colds or the flu. With the right balance of nutrition, extra fat and calories, and prescribed supplements, though, people with CF can keep themselves healthy.