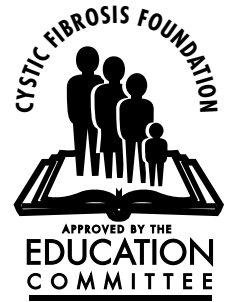


Nutrition



School, Enzymes, and Sports For the Child with Cystic Fibrosis

The Cystic Fibrosis Foundation has prepared this fact sheet for teachers, caregivers, and parents to help them meet the nutrition needs of the school-aged child with cystic fibrosis (CF).

CF is a chronic, inherited disease that affects the lungs and digestive system. CF affects each child differently. The basic problem in CF is an error in the salt and water exchange in some cells. This causes the body to make thick, sticky mucus, which clogs the lungs and pancreas.

CF In The Classroom

The lung disease in CF can cause the child to cough a lot to clear lung mucus. If the coughing disrupts class, the child could leave for a drink of water. The child may cough up some mucus and want a box of tissues in their desk or backpack. CF is not contagious. Coughing helps to keep lungs clear and should not be discouraged.

Thick mucus also clogs the pancreas and blocks digestion. To treat this, oral pancreatic enzyme medicine is taken with all meals and snacks that contain fat, protein, and/or complex carbohydrates. Foods that are mainly simple carbohydrates (like juice, fruits, fruit snacks, sports drinks, and soda) do not require enzymes to be taken since they are easily absorbed. Oral pancreatic enzymes are not addictive and will not change the child's behavior. Pancreatic enzymes do not cause a problem if taken by another child. As always, when a child takes medicine not prescribed for them, call **Poison Control** at (800) 222-1222.



Most children with CF have been taking pancreatic enzymes since infancy and can take them on their own. Teachers and parents need to work together to make a medicine schedule for school. The child, school nurse, teacher, or office staff can administer the enzymes. The right dose helps digestion and food absorption. The dose should not be changed without talking to the CF dietitian or caregiver.

When children forget to take their enzymes or do not take enough, they may need to go to the bathroom more often, have stomach pain, or have foul-smelling gas. The child with CF should always feel free to leave for the bathroom to prevent embarrassment because of lung or stomach symptoms.

Nutrition Needs

Children with CF need a high-calorie, high-protein diet and enzymes to gain weight and grow. They need high-fat foods, which are often discouraged for the general public. They may take longer to eat and need more food. Extra snacks at school and high-calorie nutrition supplements may be needed to increase calories. They should be able to get their enzymes and take them in a manner that gives them the most time to eat.

A balanced, high-calorie diet with enzymes gives good nutrition, which helps children with CF be healthy. Good nutrition also helps physical activity.

Exercise And CF

Exercise has benefits for all. For children with CF, exercise also helps clear mucus and increase lung muscle strength. Exercise also can help increase

self-image and decrease social differences between them and others.

Children with CF can and should be included in all games and activities. From day to day, CF may limit how much they can do or how long they can do it.

For children with CF, exercise:

- builds muscles and strong bones;
- strengthens lungs;



To Whom It May Concern,

_____ is under our care at the cystic fibrosis (CF) care center at _____. CF is an inherited disease that affects mainly the lungs and digestive system.

As part of ongoing CF medical care, this child must take the following oral pancreatic enzyme medicine with all meals and snacks. The only usual exception is drinks that are mostly sugar, water, or fruit.

ENZYME BRAND NAME

NUMBER OF CAPSULES WITH MEALS

NUMBER OF CAPSULES WITH SNACKS

These enzymes are not addictive and will not change behavior. Most children with CF have been taking enzymes since infancy and take them on their own. If children with CF are allowed to take them on their own, they are usually more compliant with this vital part of their care. As always, if a child takes medication not prescribed for them, contact **Poison Control at (800) 222-1222**.

Please call with questions.

Sincerely,

PHYSICIAN SIGNATURE

PRINT NAME

PHONE NUMBER

DATE