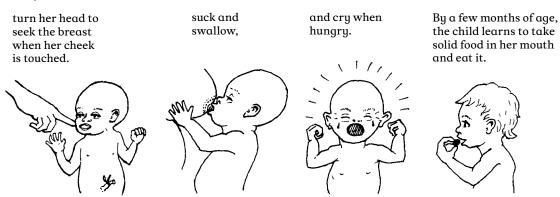
Feeding

Feeding is one of the first abilities that a child develops to meet her needs. Even a newborn baby has reflexes that cause her to:



A child's feeding skills usually increase gradually with only a little encouragement. She learns first to use her lips and tongue to suck and swallow liquids. Later she learns to bite and chew solid foods, and to take food to her mouth with her hands. The early head-turning and sucking reflexes gradually go away as she learns to control her feeding movements.

Some children, however, do not develop feeding skills easily or naturally. This may be because the child's whole development is delayed. Or, because the child has a particular physical difficulty (such as a hole in the roof of her mouth—see "Cleft Palate," p. 120).

Children with cerebral palsy often have feeding difficulties, which are sometimes severe. Difficulty with sucking (or being unable to suck) may be the first sign in a child who later develops other signs of cerebral palsy. Or the child may have trouble swallowing, and easily choke on food. Uncontrolled movements of the body, pushing out the tongue, or floppy, inactive lips may also make feeding a challenge.

One reason that some children with disabilities take longer to develop self-feeding skills is that their families continue to do everything for them. Because of a child's other difficulties, her family may continue to treat her as a baby. They may give her only liquids, and put everything into her mouth, rather than encouraging her to do more for herself.

REMEMBER: Helping the child develop feeding skills as early as possible is especially important because good nutrition is essential for health and life. The food needs of a child with disabilities are the same as for any child.

Good use of the lips and tongue when feeding is also important for future speech.







POOR NUTRITION IN CHILDREN WITH DISABILITIES

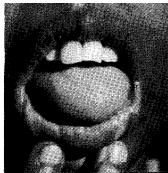
Poor nutrition (malnutrition) usually results from not getting enough to eat and is one of the most common causes of health problems. With its signs of weakness, thinness, failure to grow, and reduced ability to fight off illness, poor nutrition might be considered a disability itself. It affects at least 1 out of every 3 children under 5 years old, mainly those who live in countries whose resources are being drained by the US and Europe.

In this book, we do not discuss the problems of malnutrition in detail, because they are covered in most primary care handbooks (see *Where There Is No Doctor,* Chapter 11). However, note this warning:

WARNING: Children with disabilities are often in greater danger of malnutrition than are other children.

Sometimes this is because the child has difficulty sucking, swallowing, or holding food. Sometimes it is because the family gives more food to the children who are stronger and more able to help with daily work. Sometimes it is because the family doesn't know that a child with HIV needs more food than other children. Sometimes, however, it is because parents, although they treat their child with extra love and care, keep bottle feeding him (with milk, rice water, or sugared drinks) until he is 3 or 4 years old or older. They keep treating—and feeding their child like a baby, even though he is growing bigger and needs the same variety and quantity of foods that other children need.

To give a child only—or mainly—milk and sweet drinks after 6 months of age will cause him to slowly become malnourished. Milk and sweet drinks lack iron, so that the child may become more and more pale, or anemic (weak blood).

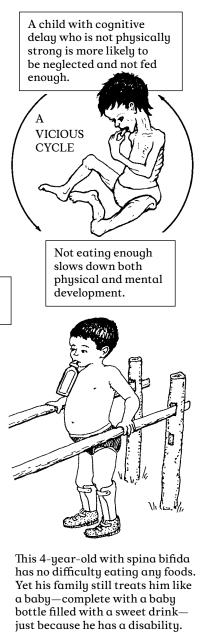


Not anemic: Lips, tongue and finger-nails have a reddish, healthy color.



Anemic: Lips, tongue and finger-nails, pale. Lack of energy. Tires quickly.

REMEMBER: A child with disabilities needs the same foods that other children of the same age need.



It is important that children with disabilities get enough healthy food to eat. It is also important that they get enough exercise to make their muscles as strong as they can be and to keep their lungs (breathing) and heart (circulation) strong.



THE BEST FOOD FOR YOUR YOUNG CHILD

The first 6 months

Give breast milk and nothing else.

BREAST IS BEST because breast milk contains the ideal combination of foods that the child needs, is clean, and is always the right temperature. Also, breast milk contains antibodies from the mother that protect the baby against infections.



Therefore, breast milk is especially important for children more likely to get infections, such as a child with Down syndrome (see p. 279) or a child who often chokes on her food and might get pneumonia.

Breast milk is healthier for babies than other milks or formula.

If the baby cannot suck, a mother can milk her breasts:



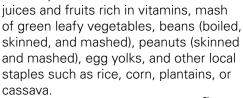
and then give the baby her milk with a cup and spoon. See *Where Women Have No Doctor*, page 112.



HIV and breastfeeding

After 6 months

Continue breastfeeding and also begin to give the baby other foods—



Small stomachs need food often. Feed children under 1 year old at least 5 times a day—and give them snacks between meals.

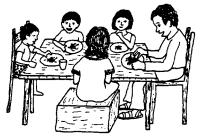


If the child has trouble eating solid foods, do not keep giving only milk or formula or rice water. Even mother's milk alone is not enough after 6 months. Mash or grind up other foods to form a drink or mush.

By 8 months to 1 year of age the child should be



eating the same food as the rest of the family—even if it has to be mashed or turned into liquids.



If a woman has HIV, sometimes this infection can pass to the baby through her breast milk. But medicines called anti-retrovirals (or ART) can keep the mother and baby healthy. A woman whose HIV is well controlled by ART is unlikely to pass the infection while breastfeeding. Talk to a health worker about starting ART and take it consistently.

Even for mothers who are not on ART, breastfeeding is often the safest way to feed their babies. Without access to clean water and a regular supply of infant formula, a baby is more likely to die from diarrhea, dehydration, and malnutrition than to get sick or die from HIV passed through breastfeeding.

Give only breast milk for the first 6 months, as this is best for a baby's nutrition and protection against illnesses. If you have enough food to give your baby, you can make that the baby's main food after 12 months. But you can continue to breastfeed as long as the child wants.



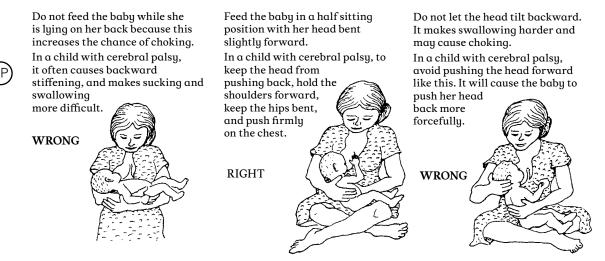
Successful feeding involves the whole child

The more difficult it is for a child to control his body movements, the more difficult it will be for him to feed himself. A child with Down syndrome may have trouble feeding because of weak mouth and lips and difficulty with head control. But the feeding challenges of a child with cerebral palsy are more complex. They may include: lack of mouth, head, and body control; lack of sitting balance; difficulty bending hips enough to reach forward; difficulty with hand-eye coordination; and difficulty holding things and taking them to his mouth. We must consider all these things when trying to help the child feed more effectively.

It is not enough simply to put food or pour drink into the mouth of a child who has difficulty sucking, eating, and drinking. First, we must look for ways to help the child learn to suck, swallow, eat, and drink more effectively. Here are some suggestions.

POSITIONS FOR FEEDING

Be sure the child is in a good position before you begin feeding her. The position will make feeding either easier and safer, or more difficult and unsafe.



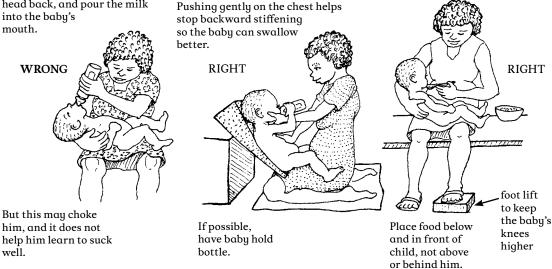
Positions for feeding with a bottle, spoon, or finger are like those for breastfeeding. Position the baby so that the

head is slightly forward, and the

bottle comes from in front, not

above.

If the baby does not suck and swallow well, the mother may think she should put a bigger hole in the nipple, tilt the baby's head back, and pour the milk into the baby's mouth.



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To avoid the backward stiffening,

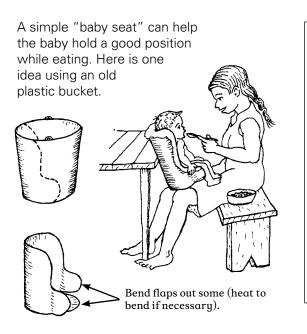
bend the shoulders and back forward,

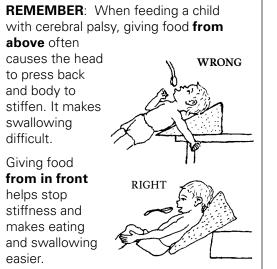
keeping the hips and knees bent. Be

sure the head bends a little forward.

DISABLED VILLAGE CHILDREN 2023

well.



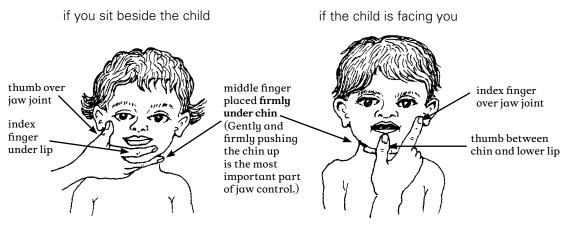


For other seating ideas, see p. 326.

HELPING CONTROL MOUTH FUNCTION

The child may also need help in improving the **sucking-swallowing reflex**, and her ability to eat from a **hand or spoon** and to **drink from a cup**. Sometimes these can be improved by using what is called "jaw control."

Jaw control. Before giving the breast, bottle, spoon or cup, place your hand over the child's jaw, like this:



At first the child may push against your hand, but after she gets used to it, it should help her control the movement of her mouth and tongue. Be sure not to push her head back, but keep it bent forward slightly.

While you feed the child, apply gentle, firm steady pressure-not off and on.

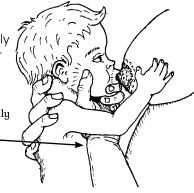
Good positioning together with jaw control will help with several challenges common in cerebral palsy, such as pushing the tongue forward, choking, and drooling (dribbling). **As mouth control improves, gradually lessen and finally stop jaw control.**

For more suggestions for controlling drooling and improving use of the lips and tongue, see the section on developing speech, p. 314.



For the child who has difficulty breastfeeding (or bottle feeding), as you apply jaw control try bringing her cheeks forward with your fingers.

> At the same time, push gently against the child's chest with your wrist. (This may help the child who tends to stiffen backward.)



If you bottle-feed the baby, a large round nipple usually works best.

If the child still has trouble sucking, try making the hole in the nipple bigger and thickening the milk with corn meal, gelatin, or mashed food.

The best spoon is

rounded and shallow.

YES

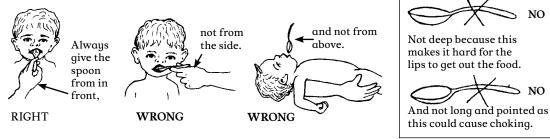
NO

> NO

CAUTION: Jaw control helps in many children with developmental delay and cerebral palsy-but not all. After trying it for 2 or 3 weeks, if the child still resists it or shows increased difficulty feeding, stop using jaw control.

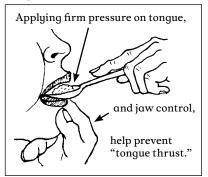
Spoon feeding

The child who has no sucking-swallowing reflex needs to be fed with a spoon.



Tongue thrusting

A baby sucks by moving her tongue forward and backward. For this reason, when the child begins to eat from a spoon, her tongue will at first push part of the food out of her mouth. She has to learn to use her tongue differently-pushing the food between the gums to chew, and to the back of her mouth to swallow. Children with developmental delay or cerebral palsy may have trouble learning to do this, and continue to push or "thrust" the tongue forward for some time. Do not mistake this for meaning she does not like the food.



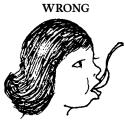
Jaw control, although helpful, may not be enough to prevent this tongue thrusting. It also helps to apply firm pressure with the back of the spoon on the tongue as you feed the child. This helps keep the tongue from pushing forward and lets the child use his lips and tongue better.

CAUTION: Better to use a strong (metal) spoon and **NOT** a thin plastic one that might break when you push down the tongue.

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Do **NOT** scrape the food onto the upper lip or teeth as you take the spoon out. Instead, let the child try to get the food off the spoon onto her tongue. To make it easier for her, start by putting only a little food on the end of the spoon. As you take the spoon out, make sure the mouth is closed so that the tongue can move the food inside the mouth and cannot push it out.



If eating with fingers is the custom, or if spoon feeding is too difficult, use your fingers.

Here a mother holds her child in a good position on her lap, using her legs and body to give support.

With one hand she gives jaw control while she feeds him with the fingers of the other hand. Place a little food on the side or middle of the tongue—not on the front of it.



For spoon or finger feeding, it is best to start off with soft, mushy foods rather than liquids. Milk (even breast milk) or egg yolk can be mixed with rice paste, boiled corn, or mashed beans. You can also give small pieces of fruit, mashed greens and vegetables, and yogurt or soft cheese.

Hardest for the child to eat are combinations of liquids and solids—such as vegetable soup.

CAUTION: Remember to wash your hands before feeding child with your fingers.

Chewing

To help the child learn to chew, put a bit of firm food in the side of her mouth between her teeth. Use very small pieces of bread crust, tortilla, or chapati. Help her close her mouth using jaw control.

Biting off can be encouraged by pulling slightly on a long thin piece of food.

Or rub the piece of food against the teeth before putting it between them.



CAUTION: Do NOT open and close the child's jaw or help her chew. After she bites the food, her jaw must stay closed or almost closed to chew. To help her do this, apply steady firm pressure with jaw control. This should lead the child to make chewing motions. Let the jaw move some on its own. But do NOT make chewing motions for the child! This will only encourage unhealthy movements.

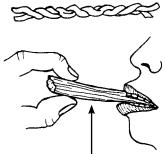
If the child has difficulty chewing and chokes on pieces of food, try this:

Cut a piece of clean, soft cotton cord, or braid thin _________ strips of cotton cloth. Soak or cook the cord in a tasty good food and hold the end while she bites and chews on it, squeezing out the nutritious juices. Help with jaw control.

This method is completely safe. Because you hold on to the cord, the child cannot bite off pieces and choke on them. It is best to practice this at the beginning of a meal while the child is still hungry.

CAUTION: If a piece of food slips back into the child's throat and gets stuck, bend the child far forward, and keep calm. The food should drop out. Do NOT pat the child on the back as this could cause the child to breathe in the food.

If the food does not fall out and the child cannot breathe, suddenly and forcefully squeeze the child's lower chest (see *Where There Is No Doctor*, p. 79).



A finger-shaped piece of tough cooked or dried meat or very tough chicken (old rooster) can be used instead of the cord. Be sure it is too tough for the child to chew pieces off of it, but juicy or tasty enough to give her pleasure.

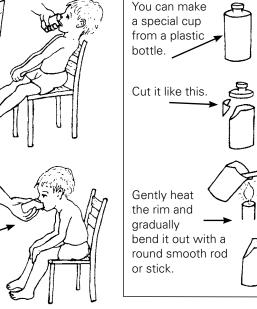
CP) Drinking

Successful drinking, like eating, involves the whole child. Body position is important. For example, in a child with cerebral palsy, to drink from a regular cup or glass, his head must be tilted back. But this can cause uncontrolled backward stiffening and possible choking.

However, if he uses a **plastic cup with a piece cut out**, he can drink without bending his head back.

The cup should have a projecting rim. Cut out a space to fit around the child's nose.

This way the child can drink in a better, more controlled position.



At first you may need to apply jaw control to help the child close her lips on the rim of the cup. Tilt the cup so that the liquid touches the upper lip and let the child do the rest. Do **not** take away the cup after each swallow as this may trigger pushing the head back or tongue out. It helps to start with thick liquids—like cooked cereals, maize mush, or yogurt.

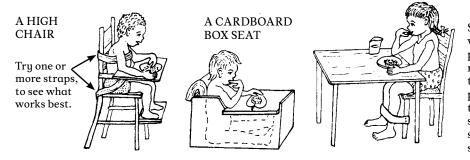
Self-feeding

To be able to feed herself, a child needs more than control of her mouth, lips, and tongue. She also needs to be able to **sit with her head up,** to **pick things up,** and to **take them to her mouth.**

To prepare for self-feeding, encourage the child to play, taking his hands and toys to his mouth. Also, encourage him, when sitting, to balance while he uses both hands (see pp. 105 and 307).



A child who has difficulty with balance or uncontrolled movements will at first need special seating adapted to her needs.

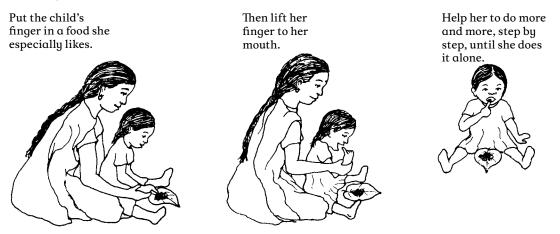


Some children with cerebral palsy may only need a foot strap to stay in a good position (to keep the body from straightening stiffly as shown above).

CAUTION: Seats or straps that limit movement should be used only until the child learns to control her position without being tied or held. Special seating should help the child to do more and to move more freely. It should not become a prison! For more seating ideas, see pp. 323, 573, and Chapter 65.



When a child is delayed in using her hands to grasp things, or to take things to her mouth, you can help her discover how to use her hands and feed herself, like this:



Little by little help her less and less. Lift her hand to her mouth and touch her lips with the food. See if she will then put it into her mouth. When she has learned this, lift her hand near her mouth and see if she will do the rest. Next just put her finger in the food and encourage her to lift it to her mouth. Each time she does more for herself, praise her warmly.

This method is part of a behavioral approach to teaching new skills. The same approach can be used for teaching the child many skills related to eating, such as using a spoon or drinking from a glass. To learn more about this approach, see Chapter 40, "Ways to Improve Learning and Behavior."

IMPORTANT: Try to make mealtime a happy time. Remember that it takes time for any child to learn new skills, and that a child learns best when he plays. When any child first learns to eat for himself, he makes a mess. Be patient, help the child to become more skillful at eating, praise him when he does well, but at the same time let him enjoy himself and his food. Many children with and without disabilities do not learn to eat cleanly and politely until they are 5 or 6 years old—or even older. A cover or "bib" like this, of plastic or waterproof cloth, is

a big help. The pocket at the bottom catches spilled food.



While it is important not to push or hurry children too much in developing feeding skills, the opposite is also true. Often parents wait too long and do not expect enough from their child with disabilities. On the next page see how a rehabilitation worker helps parents awaken to the ability of their child with cognitive delay to learn new skills.

THE 6 MINUTE BISCUIT TRICK FOR DEVELOPMENTALLY DELAYED CHILDREN

by Christine Miles of Peshawar, Pakistan, and Birmingham, United Kingdom

Here is how I get parents to open their eyes to what their child actually can do and learn to do. I see many parents with developmentally delayed children between 15 and 30 months. They have realized that the child is not functioning at a level appropriate for his age. But often they cannot describe what the child actually can do, and do not seem to realize that children gain new skills by **learning**. Parents complain that "He doesn't speak. He can't do this, he can't do that," as though there is something wrong with the machinery or someone has failed to push the correct button.

I ask them whether the child can eat a biscuit (cookie). "No, he only has milk and mush. He can't feed himself." I get a biscuit and put it into the child's hand. I guide the hand



In 6 minutes the parents have watched their child **learn** an important skill, by our using a simple directed action and a strong reward (tasty food). No matter how developmentally delayed their child is, the parents gain some vital information about the child's ability to learn. Whether or not they remember anything else that I say to them, they go away with a whole new experience to think

up to the mouth. Sometimes the child will bite on the biscuit; sometimes it needs to be tapped gently against his teeth and wetted with his lips and tongue until a piece breaks off and is eaten. I move the child's hand away from the mouth, then repeat the process. Usually by the time half the biscuit has gone, the child has learned how to do it, and finishes the biscuit happily without help. The parents usually say "Oooh!"

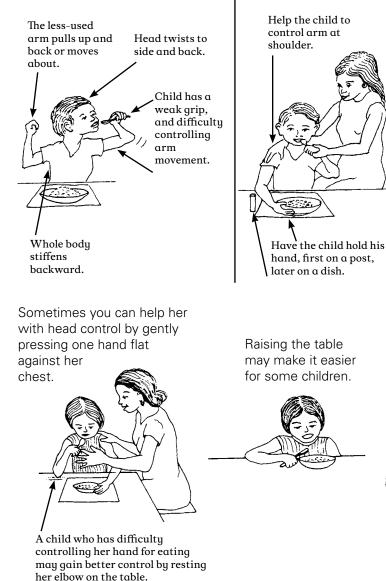


about. Almost always they have consulted several doctors before coming here, without gaining any useful advice.

Of course, it is not guaranteed to work. But it does work surprisingly often. The 6 minute biscuit trick is a powerful stimulant to parents to actually observe their child and to help the child learn.

SELF-FEEDING SUGGESTIONS FOR THE CHILD WITH CEREBRAL PALSY

COMMON CHALLENGES



SUGGESTIONS

Help him learn to hold the spoon firmly.



WRONG





Straighten his hand by turning it out gently from the base of the thumb.

Where the custom is to eat sitting on the floor, a child may be helped by making a



Sometimes you can help the child avoid twisting to one side by bending the less-used arm across the belly, and turning the palm up.

When head and body are difficult to control, it may help to sit on a bench or log in a "riding" position.

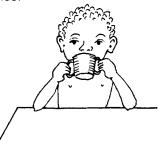
If he sits with a rounded back, it may help to support the lower back.



A child who has trouble controlling a cup with one hand can often do better if the cup has 2 handles.



Ask a local potter to make one.



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Homemade equipment to help eating

A plate with steep sides makes eating easier for the child who uses only one arm. When that arm is very weak, it helps if the dish is low on one side and high on the other, to push food against.

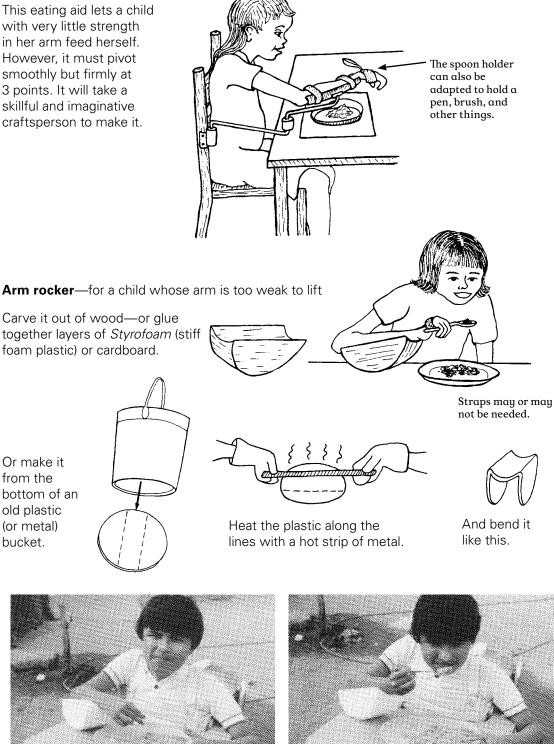


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Swing-a-sling eating aid

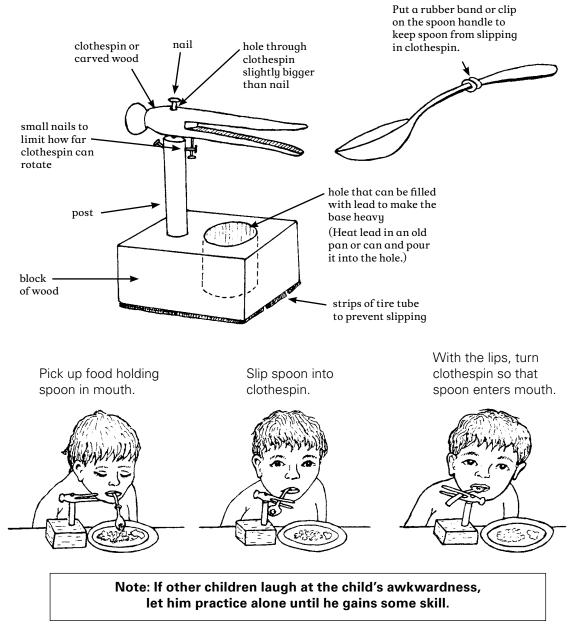
This eating aid lets a child with very little strength in her arm feed herself. However, it must pivot smoothly but firmly at 3 points. It will take a skillful and imaginative craftsperson to make it.

bucket.



A boy with muscular dystrophy, whose arm is too weak to lift it to his mouth, eats with the aid of an arm rocker. This arm rocker, cut out of Styrofoam, took about 5 minutes to make.

Feeding aids for a child with no hand use



Children with no use of their arms can feed themselves by lowering their mouths to their food. It helps if the plate can be lifted nearer to the face. A pot like this helps to stabilize the plate. If the plate has a rounded bottom, the child can tip it bit by bit as it is emptied.



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A rack allows the child to drink from a cup that he can tip with his mouth.

Or simply use a straw.

Use your imagination to think of many other ways to help a child with disabilities eat and do other things for himself.