

Cerebral Palsy

FACT SHEET

Part of the CBM Prevention Toolkit
on Cerebral Palsy

April 2012

Cerebral palsy: Prevention and Early Intervention Program

Cerebral palsy is one of the most common causes of childhood physical impairment in the community setting. It affects 1/500 children, and it is thought there may be as many as 10 million children around the world affected by cerebral palsy.

What is Cerebral Palsy?

Cerebral palsy (CP) is caused by an injury to the young and immature brain, usually before, at, or just after birth. It results in a non-progressive disorder of movement and coordination, commonly associated with spasticity (abnormal tightness of muscles). It may result in cognitive impairment and seizures. It is not curable.

Cerebral Palsy affects different children in various degrees, from very mild and hardly noticeable, to severe involvement with associated cognitive impairment and seizures. With the best of care in the developed world, 25% of children with CP are not able to walk independently. This incidence will be much higher in the developing world.

What are the causes of Cerebral Palsy?

There are many causes of cerebral palsy including:

- Ante-natal unknown causes
- Difficult labour and delivery
- Prematurity
- Infections
- Genetic conditions
- Cerebral Malaria

In the context of CBM's work in Africa, cerebral malaria in infants and toddlers is an important cause, one study in Uganda showing 60% of all surviving cases having been caused by cerebral malaria.

Surviving children with CP and their families often face serious challenges with mobility, activities of daily living, schooling and general health. Marginalization and stigma is common.

How can we prevent CP?

Prevention is through promoting primary health activities including:

- Family planning and timing of births
- Maternal prenatal care, nutrition, immunization and avoidance of toxic substances
- Encouragement of safe birthing
- Early intervention for neonatal infections, especially cerebral malaria

What is CBM's strategy of prevention and early intervention for Cerebral Palsy?

CBM's program of intervention for Cerebral Palsy consists of two "toolkit" strategies implemented through community based activities:

- Prevention through primary health promotion and education in the "*How to improve the health & development of your child; Preventing Impairment and disability*" flipchart.
- Early Intervention through the "*How you can help your child with Cerebral Palsy*" flipchart.

Each of these focuses on community education of caregivers and primary health personnel with an illustrated flipchart backed up by a text that is used for the training of community rehabilitation workers. Standardization of training through this curriculum within CBM partners is encouraged.

The flipchart "How you can help your child with Cerebral Palsy":

This flipchart was developed by a task force of CBM coworkers with experience in cerebral palsy intervention in the community.

It is felt that the best early intervention for cerebral palsy is in the home with caregivers and not in the medical institutional environment.

The best improvement in quality of life for children and caregivers is by education in the basic procedures of care for children with cerebral palsy, introduced at the earliest possible age.

The flipchart assists caregivers in understanding activities they can perform in the home that improves the function of their children.

Subjects such as correct positioning, feeding, and toileting are presented. Inclusion in family, community, educational and social activities is encouraged.

The first two pages of the flipcharts explain about the damage to the affected brain and show some of the severe symptoms of CP. This can be quite overwhelming for the parents and caregivers. To avoid such an experience the fieldworker or facilitator could first highlight some of the topics shown later in the flipcharts (daily living, play) and emphasize that children with CP are "children first" who also need love and attention.

The manual "Helping Children Who Have Cerebral Palsy"

The manual backs up the flipchart with more detailed information.

It is intended to be used by trainers of the community workers who will be implementing the flipcharts and forms the curriculum.

The manual is chapter 9 from David Werner's book, "*Disabled Village Children*", printed without edit and with the consent of the Hesperian Foundation who has the rights.

Further information on specific techniques can be found in the latter chapters of "*Disabled Village Children*".

How to roll out the early intervention toolkit:

All CBM partner community based projects and programs should be presented with the toolkits and encouraged to implement them in their working areas

The flipchart is designed to be printed in A1 or A4 format.

The larger A1 flipchart is intended for use in health centers and rehabilitation centers with caregiver groups.

The laminated A4 flipchart can be carried easily in a briefcase and is intended for use with a small intimate audience of caregivers in homes or smaller community settings.

The subject material of the A4 **flipchart** is simply and visually presented on the face page, suitable for audiences of limited literacy. The text to be given by the community rehabilitation worker is presented on the following page with recommended questions for the audience.

The **manual** is the curriculum used by trainers and facilitators. The flipchart follows the material in the manual faithfully.

The toolkits can also be used as advocacy material with appropriate governments and public health agencies.

Helping Children Who Have Cerebral Palsy



Foto: CBM

**A Manual for Fieldworkers,
Parents and Caregivers**

**Part of the CBM Prevention Toolkit
on Cerebral Palsy**

January 2012

This manual is meant to be used in combination with the Flipcharts on Cerebral Palsy developed by CBM and CCBRT (Tanzania). The full **Prevention Toolkit on Cerebral Palsy** (composed of the A4 Flipcharts, this Manual and a Fact sheet) aims to mitigate the disabling effects of cerebral palsy through improved new born care and greater community awareness.

CBM fully encourages the use of these materials by other organisations provided they are not altered or duplicated in a way that could mislead readers. For more information please contact:

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We wish to express our sincere thanks to Hesperian Health Guides for their permission to print chapter 9 of their book Disabled Village Children (by David Werner) as a separate booklet for this Cerebral Palsy Toolkit.

Hesperian has an "open copyright" policy to share health information as widely as possible. See: <http://www.hesperian.org> for information about copyright, other chapters of this book, and other resources.

The references in the text on the following pages refer to other chapters/pages in Disabled Village Children book.

WHAT IS CEREBRAL PALSY?

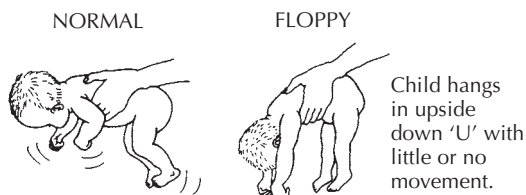
Cerebral palsy means 'brain *paralysis*'. It is a *disability* that affects movement and body position. It comes from brain damage that happened before the baby was born, at birth, or as a baby. The whole brain is not damaged, only parts of it, mainly parts that control movements. Once damaged, the parts of the brain do not recover, nor do they get worse. However, the movements, body positions, and related problems can be improved or made worse depending on how we treat the child and how damaged his or her brain happens to be. **The earlier we start, the more improvement can be made.**

In many countries cerebral palsy is the most frequent cause of physical disability. About 1 of every 300 babies is born with or develops cerebral palsy.

How to recognize cerebral palsy

EARLY SIGNS

- **At birth** a baby with cerebral palsy is often **limp** and **floppy**, or may even seem normal.

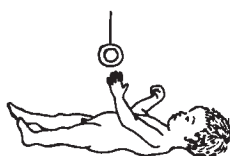


- Baby may or may not breathe right away at birth, and may turn blue and floppy. Delayed breathing is a common cause of brain damage.

- **Slow development**
Compared to other children in the village, the child is slow to hold up his head, to sit, or to move around.



- He may not use his hands. Or he only uses one hand and does not begin to use both.



- **Feeding problems**

The baby may have difficulties with sucking, swallowing and chewing. She may choke or gag often. Even as the child gets bigger, these and other feeding problems may continue.



- **Difficulties in taking care of the baby or young child.** Her body may stiffen when she is carried, dressed, or washed, or during play. Later she may not learn to feed or dress herself, to wash, use the toilet, or to play with others. This may be due to sudden stiffening of the body, or to being so floppy she 'falls all over the place'.

The baby may be so limp that her head seems as if it will fall off. Or she may suddenly stiffen like a board, so that no one feels able to carry or hug her.



Body stiffens like a board.

- The baby may cry a lot and seem very fussy or 'irritable'. Or she may be very quiet (passive) and almost never cry or smile.

- **Communication difficulties** The baby may not respond or react as other babies do. This may partly be due to floppiness, stiffness, or lack of arm gestures, or control of face *muscles*. Also, the child may be slow in beginning to speak. Later some children develop unclear speech or other speaking difficulties.

Although parents find it hard to know exactly what the child wants, they gradually find ways of understanding many of his needs. At first the child cries a lot to show what he wants. Later he may point with his arm, foot or eyes.



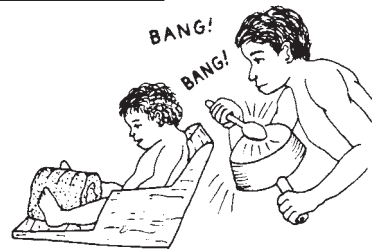
- **Intelligence** Some children may seem dull because they are so limp and slow moving. Others move so much and awkwardly they may appear stupid. Their faces twist, or they may drool because of weak face muscles or difficulty swallowing. This can make an intelligent child appear mentally slow.

About half of the children with cerebral palsy are mentally slow, but this should not be decided too soon. The child needs to be given help and training to show what she is really like. Parents can often tell that she understands more than she can show.



With help and training, some children who have been considered mentally slow prove to be quite intelligent.

- **Hearing and sight** are sometimes affected. If this problem is not recognized, the family may think that the child lacks intelligence. Observe the child carefully and test him to find out how well he can hear and see. (See p. 450 to 453.)
- **Seizures** (epilepsy, fits, convulsions) occur in some children with cerebral palsy. (See Chapter 29.)
- **Restless behavior** Sudden changes of mood from laughing to crying, fears, fits of anger, and other difficult behavior may be present. This may partly be due to the child's frustration of not being able to do what he wants with his body. If there is too much noise and activity the child can become frightened or upset. The brain damage may also affect behavior. These children need a lot of help and patience to overcome their fears and other unusual behavior. (See Chapter 40.)
- **Sense of touch, pain, heat, cold, and body position** are not lost. However, the children may have trouble controlling movements of their bodies and trouble with **balance**. Because of their damaged brains they may have difficulty learning these things. Patient teaching with lots of repetition can help.
- **Abnormal reflexes** Babies have certain 'early reflexes' or automatic body movements that normally go away in the first weeks or months of life. In children with brain damage, they may last much longer. However, these are only important if they affect how the child moves. '**Knee jerk' and other tendon-jump reflexes are usually over-active** (jump higher than normal). If you are not sure, testing for abnormal reflexes may help you tell cerebral palsy from polio. (See p. 40.)



Even if a child can hear loud banging, he may not hear well enough to understand words.

TYPES OF CEREBRAL PALSY

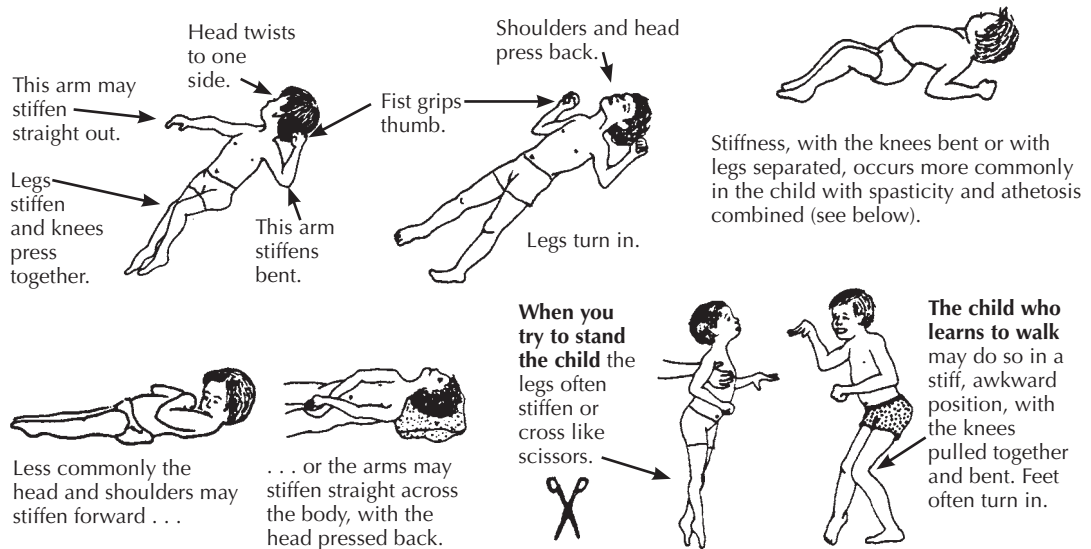
Cerebral palsy is different in every child. Different experts have worked out different ways of describing it. But do not worry about labeling a child's particular type of cerebral palsy. This does not usually help his treatment.

It is helpful, however, to recognize 3 main ways that cerebral palsy can appear. In a particular child, it may appear in one or another of these ways—but usually in some sort of combination.

1. MUSCLE STIFFNESS OR 'SPASTICITY'

The child who is '*spastic*' has **muscle stiffness**, or 'muscle tension'. This causes part of his body to be rigid, or stiff. Movements are slow and awkward. Often the position of the head triggers abnormal positions of the whole body. The stiffness increases when the child is upset or excited, or when his body is in certain positions. **The pattern of stiffness varies greatly from child to child.**

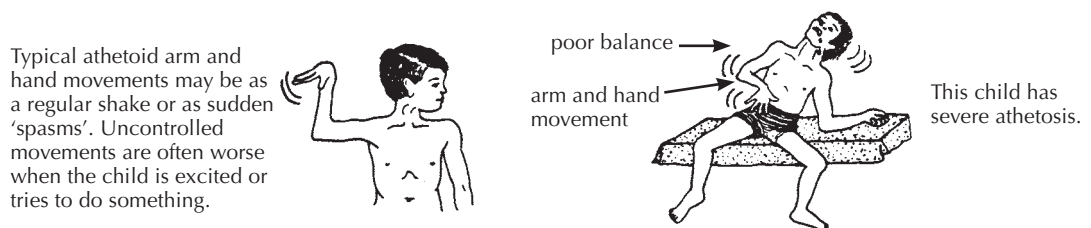
TYPICAL SPASTIC POSITIONS WHEN LYING ON THE BACK:



2. UNCONTROLLED MOVEMENTS OR 'ATHETOSIS'

These are slow, wriggly, or sudden quick movements of the child's feet, arms, hands, or face muscles. The arms and legs may seem jumpy and move nervously, or just a hand or the toes may move for no reason. When he moves by choice, body parts move too fast and too far. Spastic movements or positions like those shown above may continually come and go (constantly changing muscle tension). His balance is poor and he falls over easily.

Most children with athetosis have normal intelligence, but if the muscles needed for speech are affected, it may be hard for them to communicate their thoughts and needs.



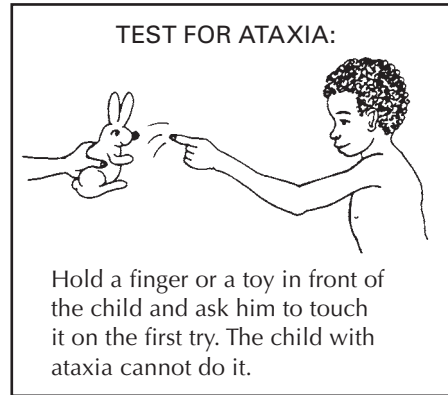
3. POOR BALANCE OR 'ATAXIA'

The child who has 'ataxia', or poor balance, has difficulty beginning to sit and stand. She falls often, and has very clumsy use of her hands. All this is normal in small children, but in the child with ataxia it is a bigger problem and lasts longer (sometimes for life).

Because children who have mainly a balance problem often appear more clumsy than disabled, other children are sometimes cruel and make fun of them.



To keep her balance the child with ataxia walks bent forward with feet wide apart. She takes irregular steps, like a sailor on a rough sea or someone who is drunk.



Many children who have spasticity or athetosis also have problems with balance. This may be a major obstacle in learning to walk. However, much can often be done to help a child improve her balance.

NOTE: Children with any type of cerebral palsy as **babies are often mainly limp or floppy.** Stiffness or uncontrolled movements begin little by little. Or the child may be limp in some positions and stiff in others.

Parts of the body affected

DEPENDING ON WHICH LIMBS ARE INVOLVED, THERE ARE 3 TYPICAL PATTERNS:

<p style="text-align: center;">ARM AND LEG ON ONE SIDE (HEMIPLEGIC)</p> <p>arm bent; hand spastic or floppy, often of little use</p> <p>this side completely or almost normal</p> <p>She walks on tiptoe or outside of foot on affected side.</p>	<p style="text-align: center;">BOTH LEGS ONLY (PARAPLEGIC) or with slight involvement elsewhere (DIPLEGIC)</p> <p>upper body usually normal or with very minor signs</p> <p>Child may develop contractures of ankles and feet.</p>	<p style="text-align: center;">BOTH ARMS AND BOTH LEGS (QUADRIPELEGIC)</p> <p>When he walks, his arms, head, and even his mouth may twist strangely.</p> <p>Children with all 4 limbs affected often have such severe brain damage that they never are able to walk.</p> <p>The knees press together.</p> <p>legs and feet turned inward</p>
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Although most cerebral palsy children fit one or another of these patterns, check also for minor problems in other parts of the body.

QUESTIONS ABOUT CEREBRAL PALSY

1. What causes it?

In each child with cerebral palsy, the parts of the brain that are damaged are different. The causes are often difficult to find.

- **Causes before birth:**
 - **Infections** of the mother while she is pregnant. These include **German measles** and shingles (herpes zoster).
 - Differences between the blood of mother and child (Rh incompatibility).
 - Problems of the mother, such as **diabetes** or **toxemia of pregnancy**.
 - **Inherited**. This is rare, but there is a 'familial spastic paraplegia'.
 - **No cause can be found** in about 30% of the children.
- **Causes around the time of birth:**
 - **Lack of oxygen (air)** at birth. The baby does not breathe soon enough and becomes blue and limp. In some areas, misuse of hormones (oxytocics) to speed up birth narrows the blood vessels in the womb so much that the baby does not get enough oxygen. In other cases, the baby may have the cord wrapped around her neck. The baby is born blue and limp—with brain damage.
 - **Birth injuries** from difficult births. These are mostly large babies of mothers who are small or very young. The baby's head may be pushed out of shape, blood vessels torn, and the brain damaged.
 - **Prematurity**. Babies born before 9 months and who weigh under 2 kilos (5 pounds) are much more likely to have cerebral palsy. In rich countries, over half the cases of cerebral palsy happen in babies that are born early.
- **Causes after birth:**
 - **Very high fever** due to infection or dehydration (water loss from diarrhea). It is more common in bottle-fed babies.
 - **Brain infections** (*meningitis, encephalitis*). There are many causes, including malaria and tuberculosis.
 - **Head injuries**.
 - **Lack of oxygen** from drowning, gas poisoning, or other causes.
 - **Poisoning** from lead glazes on pottery, pesticides sprayed on crops, and other poisons.
 - **Bleeding or blood clots in the brain**, often from unknown cause.
 - **Brain tumors**. These cause progressive brain damage in which the signs are similar to cerebral palsy but steadily get worse.

2. Is cerebral palsy contagious? No! It cannot be passed from one child to another.

3. Can persons with cerebral palsy marry and have children? Yes. And the children will not have the condition (except maybe in a very rare type of cerebral palsy).

4. What medical or surgical treatment is there?

Except for drugs to control seizures, medicines usually do not help. (Although medicines to reduce spasticity are often prescribed, they usually do no good, and may cause problems.) Surgery is sometimes useful for correcting severe, stubborn contractures. However, surgery to weaken or release spastic muscles is less often effective and sometimes makes things worse. Careful evaluation is needed. Surgery usually should be considered only **if the child is already walking** and has increasing difficulty because of contractures. In a child who cannot balance well enough to stand, surgery usually will not help. Sometimes surgery to separate the legs can help make cleaning and bathing easier.

5. What can be done?

The damaged parts of the brain cannot be repaired, but often the child can learn to use the undamaged parts to do what she wants to do. It is important for parents to know more or less what to expect:

The child with cerebral palsy will become an adult with cerebral palsy. Searching for cures will only bring disappointment. Instead, help the child become an adult who can live with her disability and be as independent as possible.

Families can do a lot to help these children learn to function better. Generally, **the child who is more intelligent will learn to adapt successfully to her condition.** However, intelligence is not always necessary. In fact, some intelligent children become more easily frustrated and discouraged, so they stop trying. Extra effort is needed to find new and interesting ways to keep them progressing. **Even children with severe mental slowness can often learn important basic skills.** Only when mental damage is so great that the child does not respond at all to people and things is there little hope for much progress. However, before judging the child who does not respond, be sure to check for deafness or loss of eyesight.

IMPORTANT: Rather than try to treat the symptoms of cerebral palsy, we can do more for the child if we **help her with development of movement, communication, self-care and relationships with others.** Sometimes we can partly correct the symptoms through helping the child develop basic skills.

Family members can learn to play and do daily activities with the child in ways that help her both to function better and to prevent secondary problems such as *contractures*.

Most important is that the parents (and grandparents!) **learn not to do everything for the child. Help her just enough that she can learn to do more for herself.**

For example, if your child is beginning to hold up her head, and to take things to her mouth,

instead of always feeding her yourself



By standing on her knees as she paints a sign, this girl is improving her balance to help her (possibly) stand and walk.

look for ways to help her begin to feed herself (see p. 329).



6. Will my child ever be able to walk?

This is often one of the biggest concerns of parents. Walking is important both *functionally* and socially. But in terms of the child's needs, other skills may be more important. For the child to lead as happy, independent a life as possible, necessary skills and accomplishments (in order of importance) are:

1. Having confidence in yourself and liking yourself
2. Communication and relationship with others
3. Self-care activities such as eating, dressing, toileting
4. Getting from place to place
5. (And if possible) walking

We all need to realize that **walking is not the most important skill a child needs**—and it is certainly not the first. Before a child can walk he needs reasonable head control, needs to be able to sit without help, and to be able to keep his balance while standing.

Most children with cerebral palsy do learn to walk, although often much later than normal.

In general, the less severely affected the child is and the earlier she is able to sit without help, the more likely she is to walk. If she can sit without assistance by age 2, her chances for walking may be good—although many other factors are involved. Some children begin to walk at age 7, 10, or even older.

Hemiplegic and diplegic children usually do learn to walk, although some may need crutches, braces, or other aids.

Many severely affected children may never walk. We need to accept this, and aim for other important goals. **Whether or not the child may someday walk, he needs some way to get from place to place.** Here is a true situation that helped us to realize that other things are more important than walking.

In a Mexican village, we know 2 brothers, both with cerebral palsy.

Petronio walks but with great difficulty. Walking tires him and makes him feel so awkward that he stays at home and does not play or work. He is unhappy.

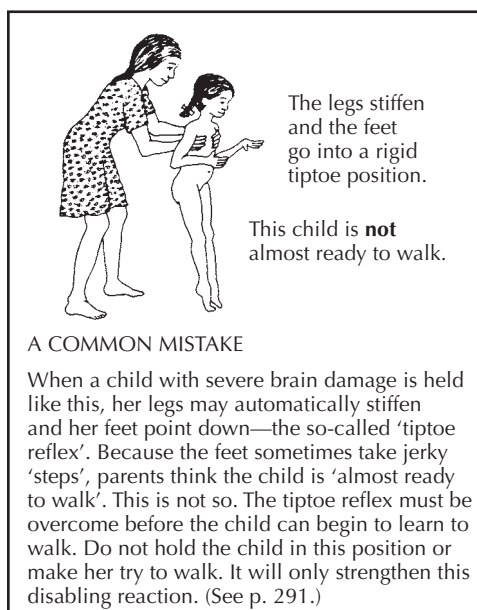


His brother, Luis, cannot walk. But since he was small, he has loved to ride a donkey. He uses a wall to get off and on by himself. He goes long distances and earns money carrying water. He is happy.



(Not only does the donkey take Luis where he wants to go, but by keeping his legs apart, it helps prevent knock-knee contractures. This way *'therapy'* is built into daily activity.)

There are many different ways to help children who cannot walk, or who walk with difficulty, get where they want to go. These include **wheelboards, wagons, wheelchairs, special walkers, and hand-pedal tricycles.** Many of these are described in PART 3 of this book (see the Index).



How can we help?

First, with the help of parents and family we observe the child carefully to see:

- what the child **can** do.
- what he looks like when he moves and when he is in different positions.
- what he **cannot** do, and what prevents him from doing it.

WHAT THE CHILD CAN DO

Can the child:

- lift her head? hold it up? sit? roll over?
- pull herself along the floor in any way possible? crawl? walk?

How does the child use her **hands**?

- Can she grasp things and hold on; let go; use both hands together (or only one at a time)?
- Can she use her fingers to pick up small stones or pieces of food?

How much can the child do for herself?

- Can she feed herself; wash herself; dress herself? Is she 'toilet trained'?

What can the child do in the home or in the fields to help the family?

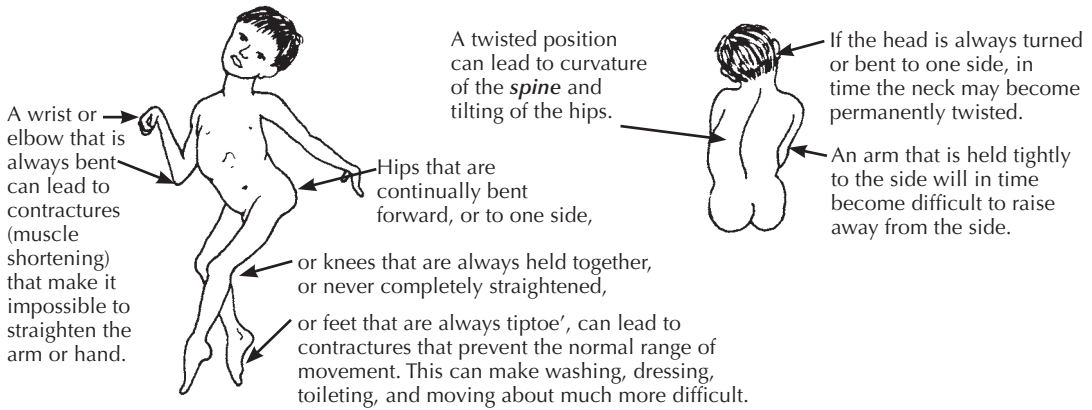
After observing and discussing what the child **can do**, we must **expect him to do these things**. If the parents are used to doing almost everything for the child, at first this may be difficult (for both parents and child). But soon it will help the child have more confidence. The parents, also, will be encouraged by seeing what he can do for himself, and they will think less about what he cannot do. Here a grandmother helps her grandchild become more self-reliant:



It was difficult for the grandmother not to bring her grandson a cup of water—especially when he begged her. But she understood that in the long run it would do him more good to manage for himself. For more ideas about how a family can help a child with cerebral palsy, read the story of Maricela on pages 5 to 7 and the story of Enrique on page 288.

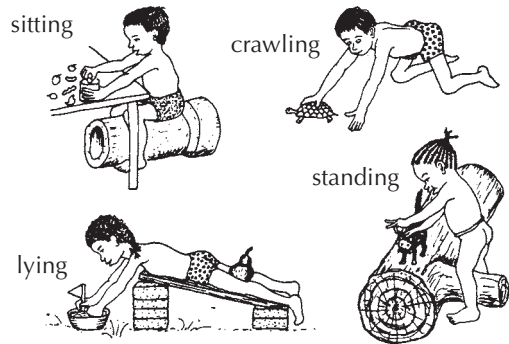
HELPING THE CHILD ACHIEVE BETTER POSITIONS

Due to abnormal pull of muscles, children with cerebral palsy often spend a lot of time in abnormal positions. These abnormal positions of the limbs and body should be avoided as much as possible, or the child can become deformed. For example.



Whenever possible the child should be in positions that prevent rather than cause these problems. Whatever the child is doing (lying, sitting, crawling, standing) try to encourage positions so that:

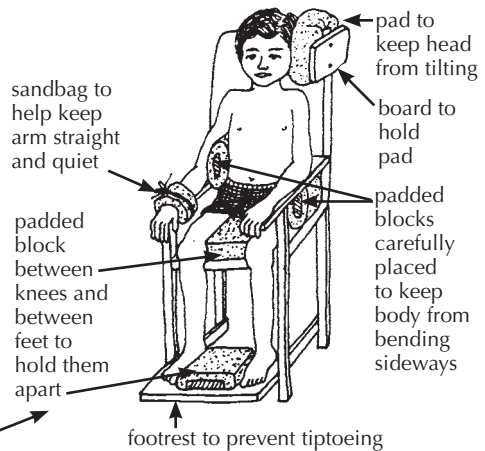
- her head is straight up and down.
- her body is straight (not bent, bowed, or twisted).
- both arms are straight and kept away from the sides.
- both hands are in use, in front of her eyes.
- she bears weight equally on both sides of her body—through both hips, both knees, both feet or both arms.



Encourage positions that the child can manage at her stage of development. Play with her, talk with her, give her interesting things to do in these positions.

Not all children will be able to stay in these positions without some kind of support. Special chairs, tables, wedges, pads, or bags of clean sand may be needed to keep a good position.

For example, the child at the top of the page might need a chair like this.



Note: Remove straps and supports as soon as the child is able to stay in a good position.

WARNING: Do not leave a child in any one position for many hours as his body may gradually stiffen into that position. Change his position often. Or better, encourage him to change it. If he can change his own position effectively, then chairs, seats, and other aids must not prevent him from moving.

AIDS SHOULD RESTRICT A CHILD'S MOVEMENT AS LITTLE AS POSSIBLE.

When the child with cerebral palsy moves she may do so in a very strange or abnormal way. To some extent this should be allowed, as long as the child is able to do things as best she can. But also show the child other ways to move in order to correct some of the abnormal positions that she repeats again and again. For example,

If her arm repeatedly bends up.



encourage her to reach out and hold objects.



Or she may need a post to hold on to.



If she bends backward a lot,



she needs actions that bend her head, body, and shoulders forward, like these.



Corrective actions and positions can be found while working in the fields, in the home, or while playing with brothers and sisters. Here are some more suggestions for corrective positions (from physical therapists Nancy Finnic and Sophie Levitt).

Lying and sleeping

Try to find ways for the child to be in positions that correct or are opposite to his abnormal ones.



For example, if the baby's knees usually press together or his legs cross like scissors,



The baby's legs can be held apart by using many thicknesses of diapers (nappies) like this,

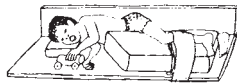


or by pinning her legs like this (when sleeping).

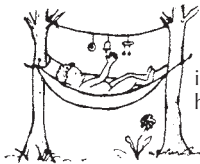
If the child's body often arches backward,



try positioning him to lie and play on his side.



Look for ways to 'break the spasticity' by bending him forward,

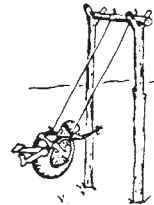


in a hammock

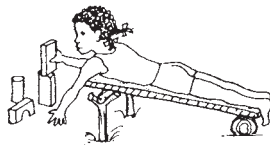
or over a barrel (or beach ball or big rock, etc.),



or in a car tire swing.



If the child does not have enough control to reach out in this position,



help position him so he can lift his head using his arms.

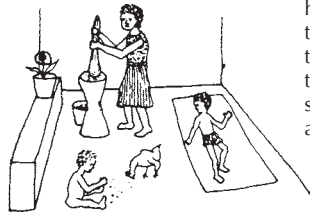


hole in the ground to prevent tiptoeing

If the child's head always turns to the same side,



do not have him lie so that he turns his head to that side to see.



WRONG

Instead, have him lie so that he has to turn his head to the other side to see the action.



RIGHT

For more suggestions on head control, see p. 302.

Rolling and twisting

A child with cerebral palsy is often very stiff when it comes to twisting or rotating the main part of her body. However, such twisting is necessary for learning to walk. Rolling also helps develop body twisting.

If the child is very stiff, first help her 'loosen up' by swinging her legs back and forth.



Then help her learn to twist her body and roll.

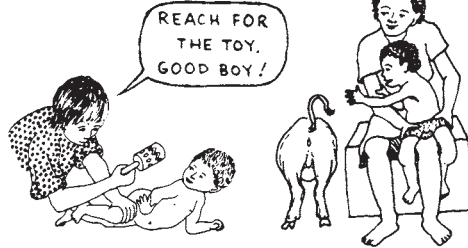
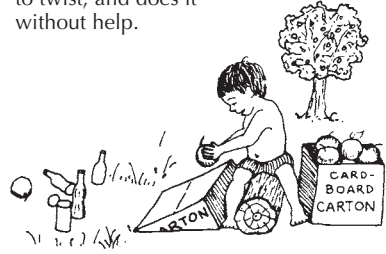


Figure out games so that the child **wants** to twist, and does it without help.



For more ideas to develop twisting and rolling, see p. 304.

Sitting

The way that you help position a child for sitting also depends on the type of abnormal body positions he has. For example,

If his legs push together and turn in, and if his shoulders press down and his arms turn in,



sit him with his legs apart and turned outward.



Also lift his shoulders up and turn his arms out.

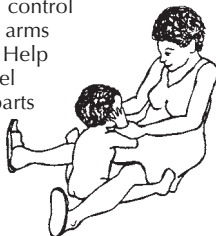
Look for simple ways to help him stay and play in the improved position without your help.



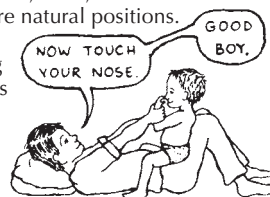
Sitting with the legs in a ring helps turn hips outward.



For the child with spasticity who has trouble sitting, you can control his legs like this. This leaves your hands free to help him control and use his arms and hands. Help the child feel and grasp parts of his face.



Sit the child on your belly with his legs spread and feet flat. Give support with your knees as needed. As he begins to reach for his face, help his shoulders, arms, and hands take more natural positions. Make a game out of touching or holding parts of his face. MAKE IT FUN!



As the child develops, encourage her to put her arms and body in more normal positions through play and **imitation**.



Children who have trouble with balance (from cerebral palsy, polio, or other disability) often sit with their legs in a 'W' in order not to fall over



Sitting in a "W" should usually be discouraged because it can increase contractures and loosen or damage hips and knees. However, if it is the only way a child can sit and use her hands, it should be allowed.

Look for ways for the child to sit with legs spread forward. Here are 2 examples.



The pot or log keeps the knees apart. The holes for heels help too.



If the child's legs stay apart, his butt sticks out, and his shoulders are pulled back,

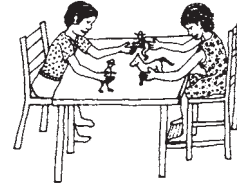


first sit him with his body bent forward and his legs together. Then bend his shoulders forward and turn them in.



A sack of grain provides a roll to hold this child's legs apart. Her father pushes down on her knees. This helps her to hold her feet flat and sit up straighter. (PROJIMO)

Look for ways that the child will sit and play in the improved position without help.



Play with her at a table. Sit across from her to have her reach forward for toys with both hands.

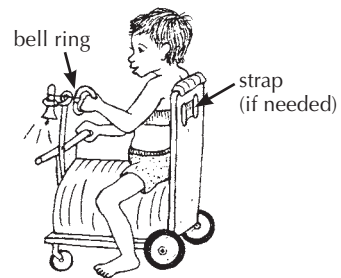
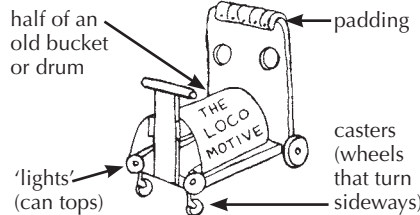
Be sure her feet are on a flat surface.

For ideas on special seats and sitting positions to prevent 'knock-knee' contractures, see below. Other ideas on special seats for children with cerebral palsy are on pages 308, 573, 607 to 612, 621 and 624.

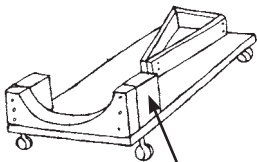
Moving about

Because children with cerebral palsy are usually delayed in walking, they need other ways to get from place to place. The methods used will depend on both the needs and abilities of the child—also the resources, skills, and imagination of family, friends, and local craftspersons.

Aids for ways to get from place to place should provide corrective positions. The following examples are all designed to help prevent 'knock-knee' contractures. They also provide other types of corrective positioning.

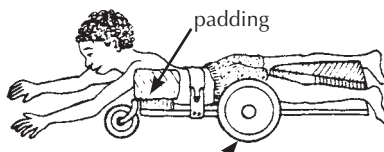


Wheelboards



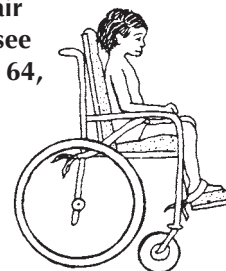
Pad or put a pillow over this support. (Some children will not need this support.)

Adapting wheel boards for travel on rough surfaces



By placing large wheels near the middle, if the smaller front caster gets stuck, the child can lift with his arms and go on. Or if a fixed front wheel is used, he can lift it off the ground to make turns. For dirt or bamboo floors, larger wheels will be needed.

Some children will need wheelchairs. For wheelchair designs, see Chapters 64, 65 and 66.



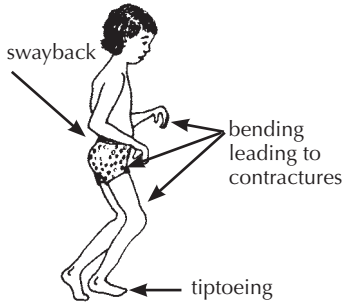
For special cushions, to help hold a child's hips back and her knees apart, see p. 609.

For other wheelboard designs, see p. 618.

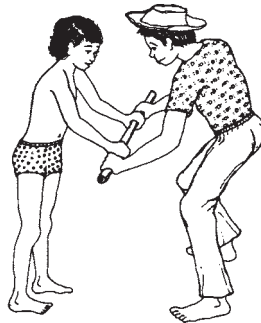
Standing

Many children with cerebral palsy stand and walk in strange positions. A child's unsure balance often increases the uncontrolled tightening of certain muscles and makes balance even more difficult.

As a result the child stands in an awkward position that can lead to deformities and contractures.

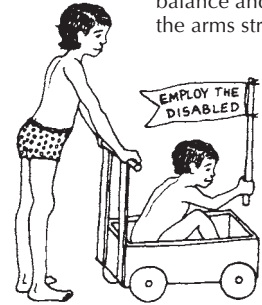


When you help the child keep her balance, she is less tense and can stand straighter.



Look for ways to provide similar assistance during play and other activities.

Here a cart provides easier balance and keeps the arms straight.



Miguelito began to walk at age 8—first on parallel bars.



Soon he learned to use crutches. Here he races another child who is learning to walk.



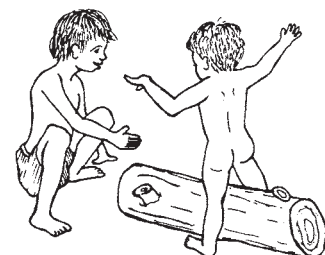
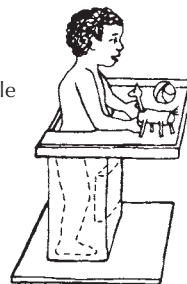
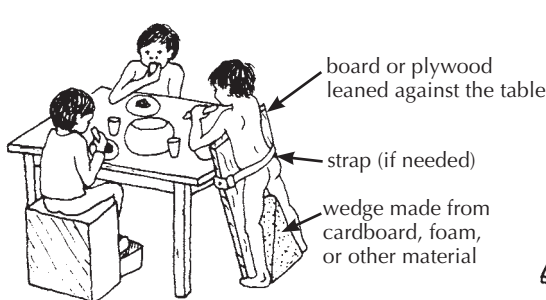
And now he can walk alone.

Two sticks can help the child once she develops some standing balance. At first you can hold the tops of the sticks. But let go as soon as possible.

CAUTION: Be sure sticks are taller than child so that she will not injure herself if she falls.



The child who cannot yet stand alone can be placed in a standing frame for an hour or 2 each day.



Even for the child who may never stand alone or walk, standing in a frame helps prevent deformities. It also helps the leg bones grow and stay strong. Start at about the age normal children begin to stand—around one year old.

For ideas on 'standing frames' see p. 574 and 575.

Hand use

Try to find ways that the child can play or do things using her hands while she is in the corrective positions of sitting, standing or lying.

Encourage her to touch, feel, and handle as many different shapes and surfaces as possible: things that are big, small, hot, cold, sticky, smooth, prickly, hard, soft, thin, and thick.

This girl in the rehabilitation center of the Khao-i-dang refugee camp in Thailand develops hand control by sliding colored rings on a pole.



A boy with cerebral palsy at the PROJIMO rehabilitation center helps paint a chair frame.

For more ideas of developing use of the hands, see p. 305.

CORRECTIVE CARRYING POSITIONS

As in other activities, try to carry a child in positions that work to correct abnormal positions.

If the child usually lies with arms bent and legs straight,



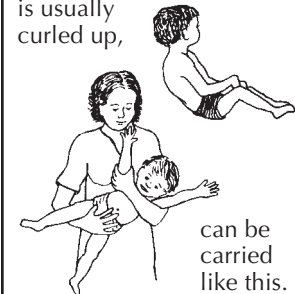
Carry him in ways that straighten his arms and bend his knees and hips.



As the child gains more control, you can carry him with less support.



The child with spasticity who is usually curled up,



can be carried like this.

The child with severe spasticity who tends to straighten and arch backward can be carried like this.

Pushing shoulders up helps relax tight spasms of the legs.



Holding the child by his inner thighs helps turn legs out as they separate.

For play, you can swing the child in the air in this position.

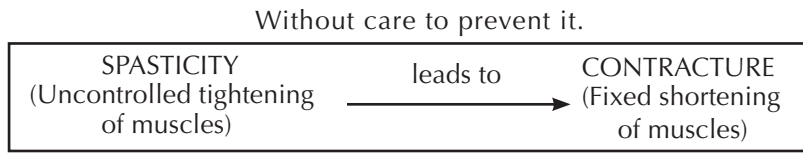


While working, you can carry the baby with legs spread across your hips or back, as is the custom in many places.

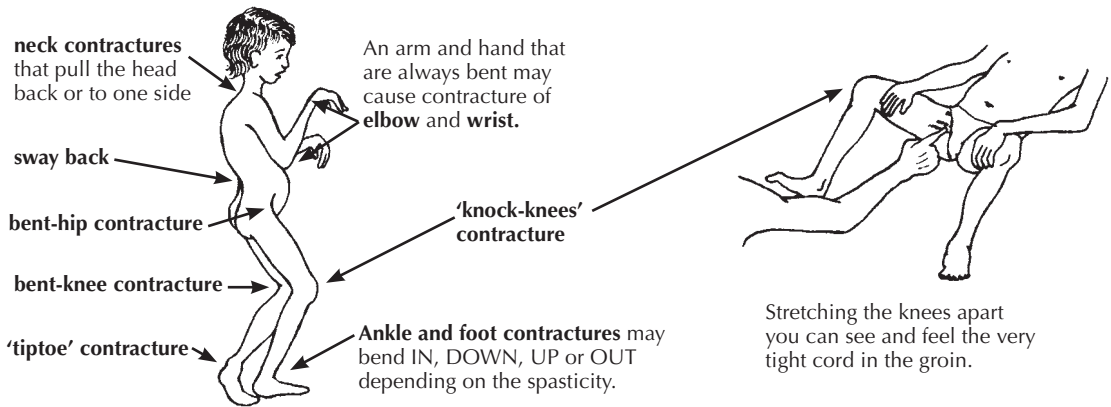
For other good carrying positions, see p. 303.

CONTRACTURES IN CEREBRAL PALSY

Abnormal muscle tightness often leads to contractures (muscle shortening and reduced motion of joints, see Chapter 8). In time, the muscles that keep a limb bent become shortened so that the limb cannot straighten even when the muscles relax. But with care, contractures can often be prevented.



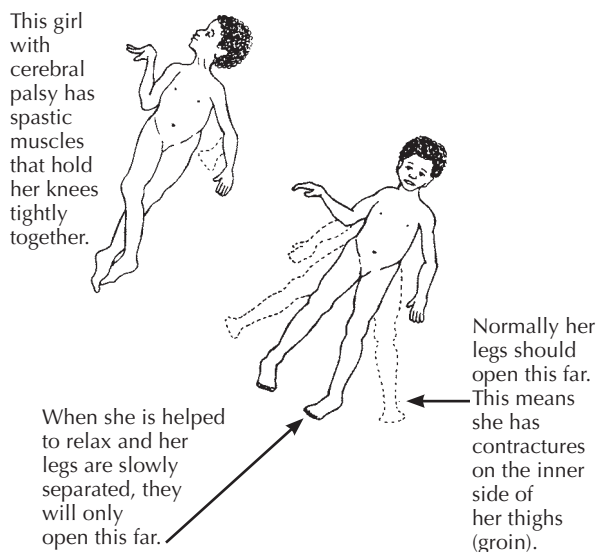
The **typical contractures of cerebral palsy** are similar to the abnormal positions of cerebral palsy. They can include:



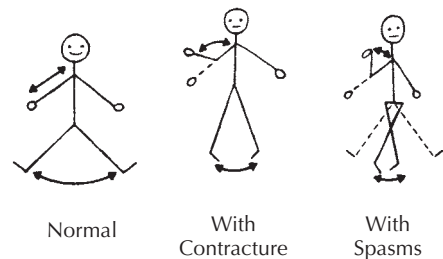
Chapter 8 discusses contractures, and ways to prevent and correct them. Page 79 explains how to tell spasticity from contractures.

Spasticity and contractures combined

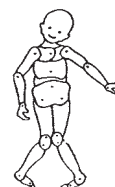
Decreased range of motion may be caused partly by spasticity and partly by contractures. Therefore, whenever a child has spasticity, check to see if contractures are also forming, and if so, how much.



One way to record spasticity and contractures:



You can use a flexikin to record the positions. (See. p. 43.)



PREVENTING CONTRACTURES

In cerebral palsy, it is important that steps to prevent contractures be included in activities that help the total development of the child. Many of the **corrective positions** we have already suggested for activities such as lying, sitting, standing, and moving about are helpful in preventing contractures. When there are signs of developing contractures, give even more time and care to corrective positions.

Range-of-motion exercises

Although the reasons contractures form in cerebral palsy and polio are different, many of the stretching and holding exercises discussed in Chapter 8, "Contractures," and in Chapter 42, "Range-of-Motion and Other Exercises," will be helpful. However, in cerebral palsy, take care to **do exercises in ways that do not increase spasticity, but help to relax the spastic muscles.**

RELAXING SPASTIC MUSCLES

To help relax spastic muscles, before beginning range-of-motion exercises try the following to see what works best for your child:

1. Apply warm soaks (see p. 132) to spastic muscles or have the child sit or lie in warm water.
2. Slowly twist or help the child to twist his body from side to side. This reduces spasticity throughout the body, and is a good first stretching exercise. Make it into a game. (See p. 304.)



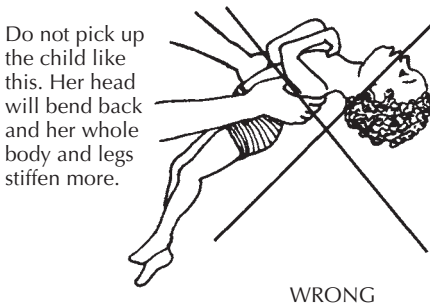
CAUTION ABOUT MASSAGE

In some countries, people and even therapists use massage, or rubbing, to try to relax spastic muscles. Although massage often helps relax muscle spasms, cramps, or tight muscles from other causes, in spasticity, massage usually increases the muscle tightness. As a general rule, **DO NOT MASSAGE SPASTIC MUSCLES.**

Pulling or pushing directly against spastic muscles causes them to tighten more.

To correct abnormal positions, sometimes you can use 'tricks' to release or 'break' the muscle spasms.

Muscle tension in any part of the body is affected by the position of the head and body. Spasms that straighten the legs and pull the knees together can be partly relaxed by bending the head and back forward.



Do not pick up the child like this. Her head will bend back and her whole body and legs stiffen more.

WRONG

If you roll her a little to one side, it will be easier to bend her head and back forward. This relaxes her hips and legs so that they also bend.



RIGHT

Whatever you do with the child, look for ways that will help relax and stretch the tight muscles. Here are some examples.

Rosa's body stiffens backward, while her knees straighten stiffly and press together.

To wash between her legs, **do not** try to pull her legs apart at the ankles.

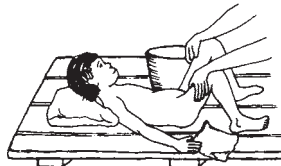
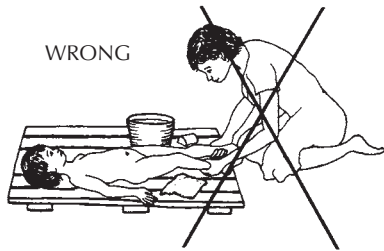
This will make her legs pull together more tightly.

Instead, put something under her head and shoulders to bend them forward. This helps to relax the stiffness in her whole body.

Then bend the legs and slowly separate them. If you hold them above the knees, they will open more easily.

Washing will be easier with her knees bent. After washing her (with warm water, if possible) you can help stretch the tight muscles.

Slowly open her legs as wide as they will go, and then gradually straighten her knees.



When you try to feed the child, if her head and shoulders stiffen backward,

do not try to pull her head forward. It will push back more.

You may find that her head relaxes more if you put your arm across the back of her neck and push her shoulders forward.

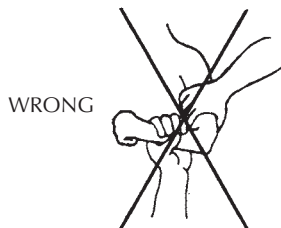
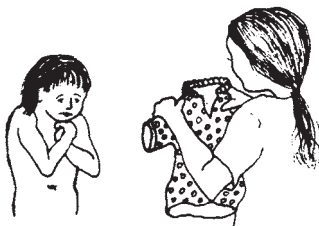
Or, you may find that raising the front of the chair seat keeps her hips bent, relaxes her in general, and gives her much more control.



When you want to help your child dress, if her arms press against her chest,

do not try to pull them straight. They will stiffen more.

Try holding her arms above her elbows, and gently turning her arms out and straighten them at the same time.



Note: These suggestions will work for some children but not for others. Keep trying different ways until you find what works best.

DEVELOPING EARLY SKILLS

Most children with cerebral palsy develop basic skills and abilities more slowly than other children. This is partly because of their difficulty with balance and movement. Also, in some children, mental slowness or problems with seeing or hearing make learning more difficult. Because slow development occurs with many different disabilities, we discuss activities for child development in a separate section of this book.

In this chapter, therefore, we give only a few suggestions for assisting a child with cerebral palsy to learn new skills.

VERY IMPORTANT:

To understand better how to help a child with cerebral palsy develop early skills, **you also need to read other chapters.** Chapters 34 and 35 are about **helping the child whose mind and/or body are slow to develop.** Chapters 36 to 41 discuss ways of **helping children develop and become more self-reliant.**

Although Chapters 34 to 41 are written to help any children who are slow to develop, many suggestions are included for the specific needs of the child with cerebral palsy. These are marked with (CP) in the margin.

To help a child develop new skills, first observe all the things that she can and cannot do. Like a normal baby who progresses stage by stage in a certain order, the child with cerebral palsy must do the same. Charts showing the normal 'developmental milestones' are on pages 292 and 293. You can use them to help decide the next steps or skills that the child may be ready to learn.

Help the child advance slowly, at her own speed, in small steps. If we try to go too fast because of her age, she can become discouraged by failure. Also, her progress can be held back. This happens when we stand a child and try to make him walk before he is ready. (See p. 291.)

**Move ahead at a speed that fits your child—
not too fast and not too slow.**

To help a child with cerebral palsy develop skills takes a lot of time, energy, patience, and love. The whole family needs to help, and also, if possible, others in the community. (See Chapter 33.)




Remember that **positioning is very important.** When the child has been helped to lie, sit, and stand in ways that give him better positions and control, he will start learning to do things he could not do before.

Good balance is one of the most important goals for the development of the child with cerebral palsy. It is important to help a child improve her balance from as young an age as possible. At each stage of the child's development—lying, sitting, creeping, standing, and walking—better balance is needed to progress to the next stage.

Helping improve balance

Detailed suggestions of activities to improve balance are included in Chapter 35, "Early Stimulation Activities," especially pages 306 to 312. Here we give you a brief look at some of the basic suggestions explained in more detail in that chapter.

TESTING A CHILD'S BALANCE

POOR BALANCE	BETTER BALANCE	GOOD BALANCE
		
<p>If when you sit a child over 10 months old, she falls stiffly to one side with no effort to 'catch' herself, her balance is poor.</p>	<p>If she can balance using her arms when you gently push her, her balance is fair.</p>	<p>If she can do it by bending her body, without using her arms, her balance is good.</p>

When lying

Encourage the child to shift weight from one arm to the other by reaching for objects,



Lie him on your body and tip a little from side to side so that he begins to catch himself.



When sitting

Let her start to fall so that she begins to catch herself.



Sit her across your knees. Raise one knee so she has to balance.



Then lower your hands.



As the child improves, use a tilting board.

Encourage the child to twist and reach to the side.



Use as little sitting support as needed. Often low back support is enough for a child who straightens stiffly.



For creeping and crawling **Note:** Some children advance to standing without ever crawling.

Shift weight from one arm to the other. Provide support as needed, and gradually take it away.



Shift weight from one leg to the other.



Play trying to balance on a tipping surface.



Crawl forward, sideways, and backward.



For standing and walking

Stand and balance on knees.



CAUTION: Not for a child with bent-knee spasticity.

Pull to stand.



(Often the child will stand better when he pulls himself up than when someone helps him.)

Stand while holding on, and reaching.



Help with standing and then walking.



Give less and less support while he walks with only a 'safety-belt'—and then alone.



Have the child practice stepping forward, backward, and sideways.

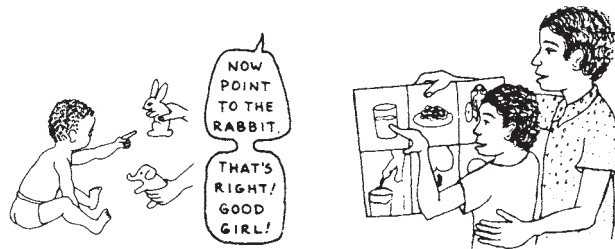


Whenever possible, **turn these activities into games. Talk to the child** a lot while you do them to help develop language skills at the same time (see p. 313).

Skills for daily living and self care

A child with cerebral palsy will get abilities later than other children—but **she will get them!** Of course, the child may not achieve everything, and may not always walk. But **make sure the child achieves what she can in each important area of development:**

The child will often need a lot of help with **language and communication skills.** Develop these skills in whatever way seems possible: using words, gestures, pointing (with hand, foot, head, or eyes), or with communication boards. (See Chapter 31 and p. 578.)



Help the child become as independent as possible in **eating, dressing, washing, toileting,** and in meeting other **daily needs.** Do this by guided practice, imitation, and step-by-step learning. These self-care skills are discussed in Chapters 36 to 39.

Develop some form of **moving about** and, if necessary, use wheel-boards, wheelchairs, pedal tricycles, walkers, crutches, or other aids. (See Chapters 63, 64, 65, and 66.)

Keep experimenting until you find what works best.

For example, this girl, with poor body and hip control, tends to fall through the space between her arms when the handgrips on the walker are upright.



She does much better on a higher walker with a handgrip that runs from one side to the other.



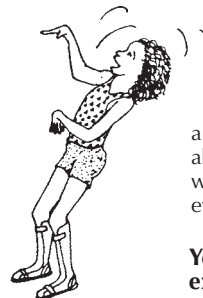
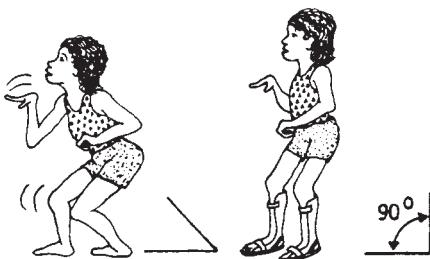
Often leg braces **do not** help a child with cerebral palsy walk better. But sometimes they do. When in doubt, try low-cost braces first, to look for possible problems. For example:

Carla walks in a very crouched position.

She may be helped by below-knee braces that hold her feet at nearly a right angle (90°)

or by above-knee braces that keep her knees almost straight...

But it is possible that the below-knee braces will throw her badly off balance,



and that the above-knee braces will make balancing even harder.

You will need to experiment!



Even if braces for walking do not work, Carla may be helped to walk straighter by using 'night splints' to hold her knees straight and prevent contractures. (See p. 540.)

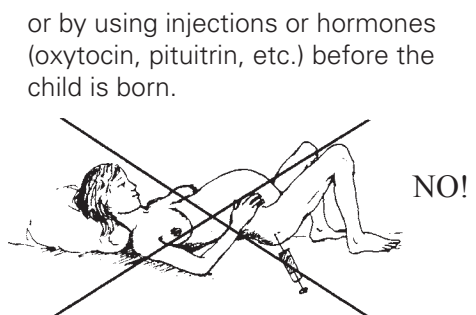
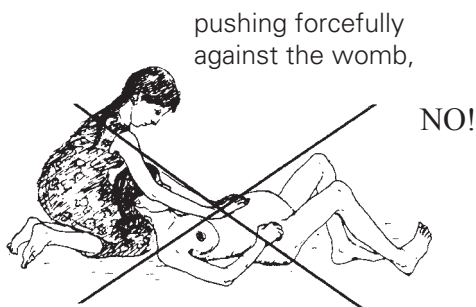
IMPORTANT: Practice in learning skills should take place with family and friends so that the child develops skills in relating to others. However, the **child will also need time to practice her skills alone** and with the person who is mainly responsible for treating or teaching her.

CAUTION: Many suggestions for developing basic skills are discussed in Chapter 34, “Child Development and Developmental Delay,” and Chapters 36 through 39 on developing skills for self-care. However, **for the child with cerebral palsy, some of these activities will need to be done differently** to help reduce and not increase muscle spasms. **If any activity increases spasticity, try it differently until you find a way that reduces muscle tension and improves position.**

PREVENTION

With these precautions, children will be less likely to have cerebral palsy:

- **Good nutrition of the mother**, both before and during pregnancy, reduces the chance of premature birth—and of cerebral palsy.
- If possible, girls should **avoid pregnancy until full grown** (16 or 17 years old).
- **Avoid unnecessary medicines during pregnancy.**
- Try to **avoid** getting near persons with **German measles** during pregnancy. Or get vaccinated against German measles before becoming pregnant.
- Go for regular **health check-ups during pregnancy** (prenatal care). If there are any signs that giving birth may be difficult, try to arrange for a skilled midwife or doctor to attend the birth—if possible, in a hospital. (See the list of “Signs of Special Risk,” *Where There Is No Doctor*, p. 256.)
- During labor, do not let the midwife or doctor try to speed things up by:



- Be familiar with, and be sure your midwife is familiar with, all the precautions and **emergency measures** of childbirth. Learn what to do if the baby is born blue and limp and does not breathe right away, or has the cord wrapped around the neck. Plan for emergency transport to the nearest clinic or hospital. (See *Where Women Have No Doctor*, pages 88 to 95.)
- **Breast feed** the baby (breast milk helps prevent and fight infection), and make sure the baby gets enough to eat. (See *Where There Is No Doctor*, p. 121 and 271.)
- **Vaccinate** the baby (especially for measles).

- When the baby has a **fever**, uncover him completely.



If the fever is high, wet the child and fan him until he is cooler.

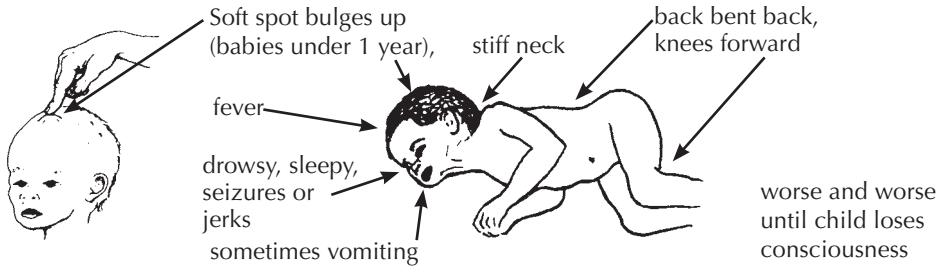
Never wrap the baby up in clothing or blankets.



This can make the fever worse and cause seizures or permanent brain damage.

Be sure the child with fever drinks a lot of liquids, and follow the other instructions on pages 75 to 76 of *Where There Is No Doctor*.


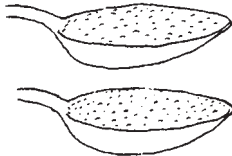


- Know the signs of **meningitis** and get (or begin) treatment quickly.



- When your baby has **diarrhea**, prepare Rehydration Drink and give it to him every few minutes to prevent or correct dehydration. See *Where There Is No Doctor*, p. 151 to 161.

Preventing dehydration helps prevent seizures and brain damage (cerebral palsy).

REHYDRATION DRINK—TO PREVENT AND TREAT DEHYDRATION

<p>In 1 liter of WATER (better if boiled, but do not lose time)</p> 	put	<p>2 level tablespoons of SUGAR or honey</p> 	and	<p>$\frac{1}{4}$ teaspoon SALT</p>  <p>and</p> <p>$\frac{1}{4}$ teaspoon BAKING SODA (bicarbonate of soda).</p> 
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CAUTION:
Before giving the Drink taste it and be sure it is no more salty than tears.

If you do not have soda, use another $\frac{1}{4}$ teaspoon salt.

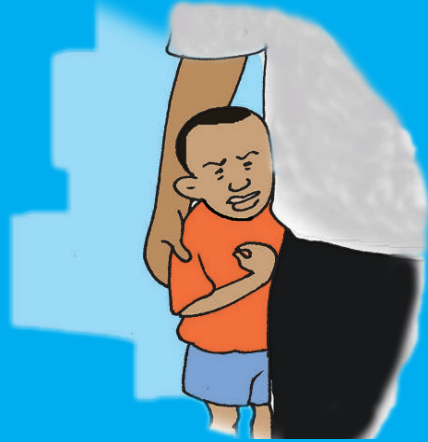
If available, add half a cup of orange juice or coconut water or a little mashed ripe banana to the Drink.

OTHER PARTS OF THIS BOOK WITH INFORMATION CONCERNING CEREBRAL PALSY

Cerebral palsy is a complex disability that involves many problems and needs. Therefore much of the basic information you will need is in other chapters. It is essential that you read Chapters 4, 8, 33 to 43, and 62 to 66.

Throughout the book, important information about cerebral palsy has been marked with a (CP) in the margin. Many references to cerebral palsy are also included in the INDEX.

HOW YOU CAN HELP YOUR CHILD WITH CEREBRAL PALSY



About cerebral palsy

Definition: cerebral palsy is damage to the brain causing problems with movement and posture, and often communication, feeding/eating, seizures, learning, and behaviour.

- Sometime cerebral palsy affects only one side of the body.
- In most cases, we do not know what causes cerebral palsy.
- Cerebral palsy is not caused by a curse or witchcraft.
- There is no medical cure for cerebral palsy.
 - It is more important to accept the condition and help your child live with it. Try to make your child as independent as possible.
- Cerebral palsy is not contagious.

Questions to ask:

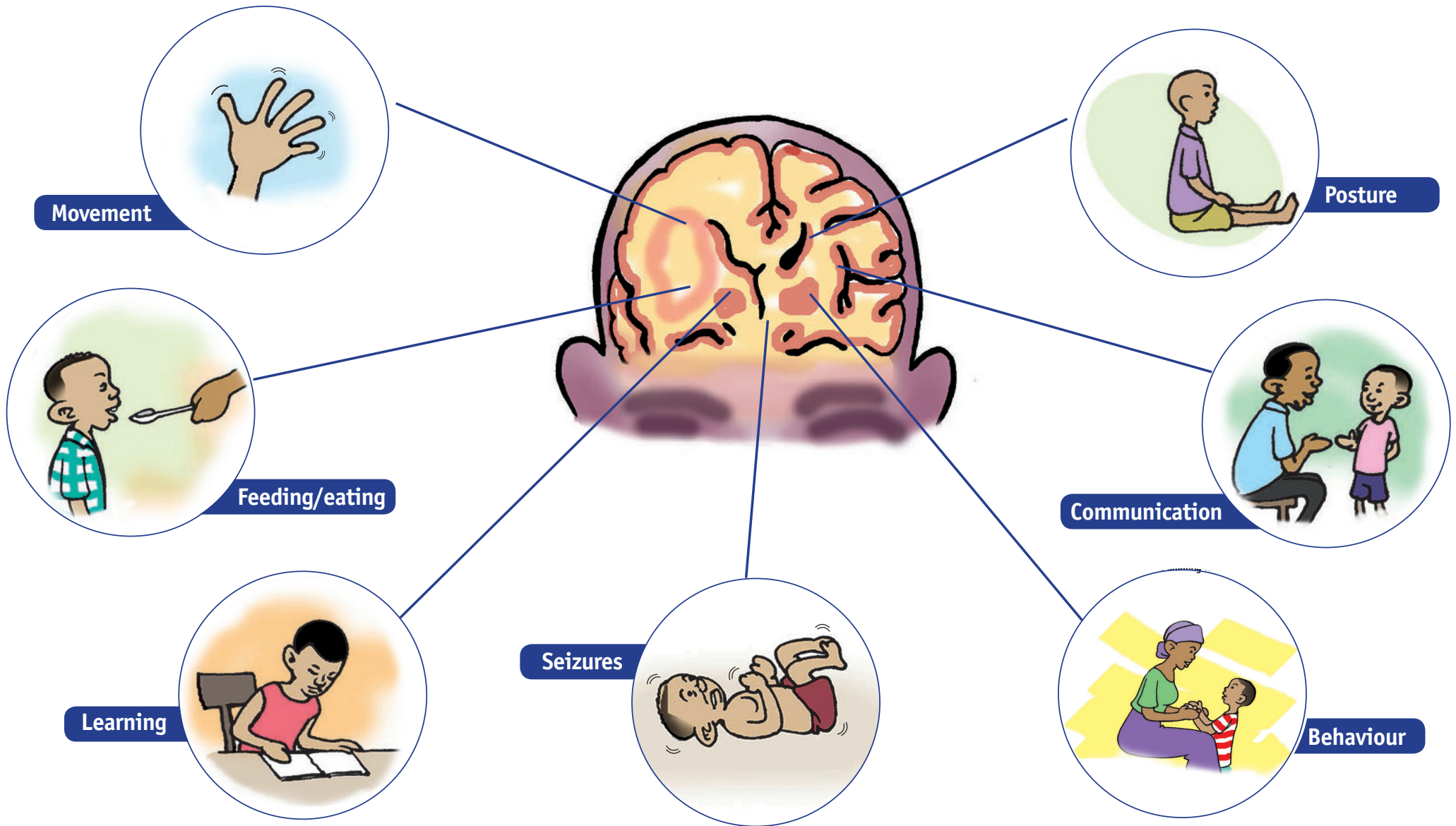
Why can respiratory problems occur in a child with cerebral palsy?

(Possible answer = posture)

Why do many children with cerebral palsy suffer from malnutrition?

(Possible answer = difficulties with feeding/eating)

About cerebral palsy



Early identification of cerebral palsy

Young babies may show some of these signs:

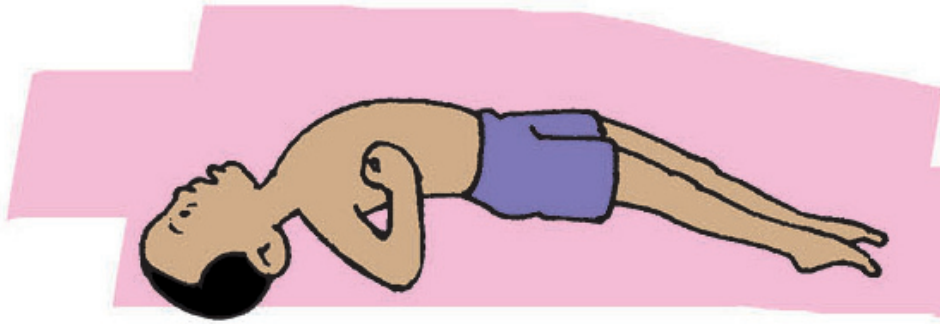
- Stiffness
 - In some positions, like lying on the back, it becomes difficult to bend the baby's body, to dress or cuddle him.
 - Your baby is difficult to handle in some positions, like lying on his back.
- Floppiness
 - Your baby's head flops and she cannot lift it. Her arms and legs hang down when she is held in the air. The baby moves too little.
- Slow development
 - Learning to lift his head and to sit takes longer than expected, and he may neglect some parts of the body.
- Poor feeding
 - Sucking and swallowing is poor. Your baby's tongue pushes the milk and food out. She has difficulty closing her mouth.
- Unusual behaviour
 - He may be a crying, irritable baby who sleeps badly. Or he may be a very quiet baby who sleeps too much.

Question to ask:

Have you seen any of these conditions before?

Early identification of cerebral palsy

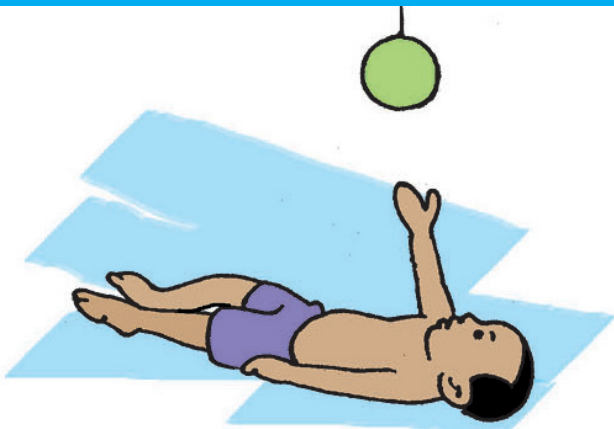
Stiffness



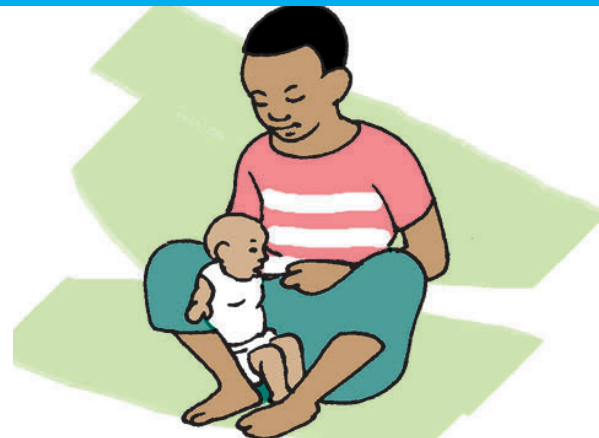
Floppiness



Slow development



Poor feeding



Early intervention

- Do not delay getting your child helped.
- Get care for your child as early as possible.
- Get your child assessed at a health centre.
- Ask about special places and community projects that help children with disabilities.
- Ask where to find people with special training in helping children with disabilities.
- Treatments happen in the home, not the hospital.
- Parents and caregivers can learn how to take care of children with cerebral palsy at home.

Question to ask:

Do you know special places in your district where children with disabilities can be helped (rehabilitation centres)?

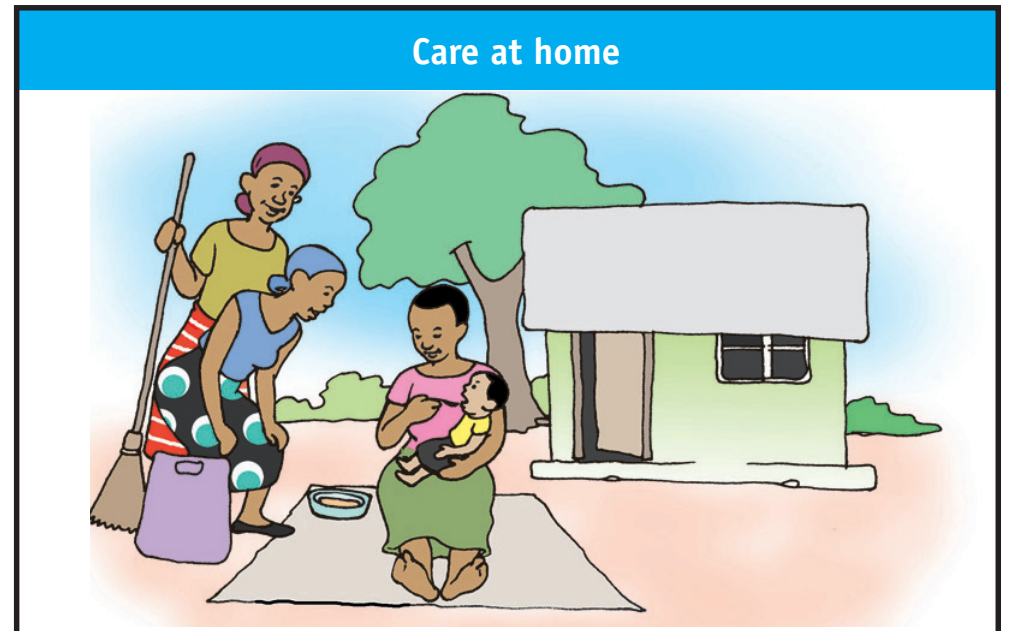
Do you know where people with special training for children with disabilities work (physiotherapists, occupational therapists, special teachers, language therapists)?

Early intervention

Rehabilitation therapist



Care at home



Communication

- Look, talk, touch, and sing to your child often.
- Tell your child what you are doing.
- Give your child choices:
 - Yes/no, gestures, point, use communication boards, smile.
- Use single words and simple gestures.
- Give time for your child to respond.
- Do not force a child to speak.

Question to ask:

What are different ways of communicating?

(Possible answers include: talking, touching, gestures, facial mimicking and body language.)

Communication



Feeding

- Positioning:
 - Hold your child in an upright position.
 - Turn your child's body towards you as far as possible.
 - Stabilise the child's head in a neutral position.
 - Support the jaw.
- Introduce food of different textures:
 - Children with swallowing difficulties may need thicker food.
 - Give small bites of food with a high nutritional value.
- Encourage your child to feed him/herself.

Question to ask:

Why do we sometimes use jaw control while feeding a child with cerebral palsy?

Can you list some examples of foods of different textures?

Feeding

No



Yes



A



B



C



Positioning

- Carrying your child
 - Carry her in an upright position.
 - Bend his hips and knees.
- Helping your child to lie down
 - **On her stomach:**
 - Place a roll, wedge or cushion under your child.
 - **On his side:**
 - Keep both arms forward.
 - Bend one hip and knee.
- Sitting
 - **Using a special chair:**
 - Keep your child's feet flat on the floor.
 - Keep the bottom level against the back of the chair.

Question to ask:

Why is positioning important for children with cerebral palsy?

(Possible answers include: avoiding contractures, supports activities, communication and feeding.)

Carrying your child

Positioning



Lying



Lying



Sitting in a chair



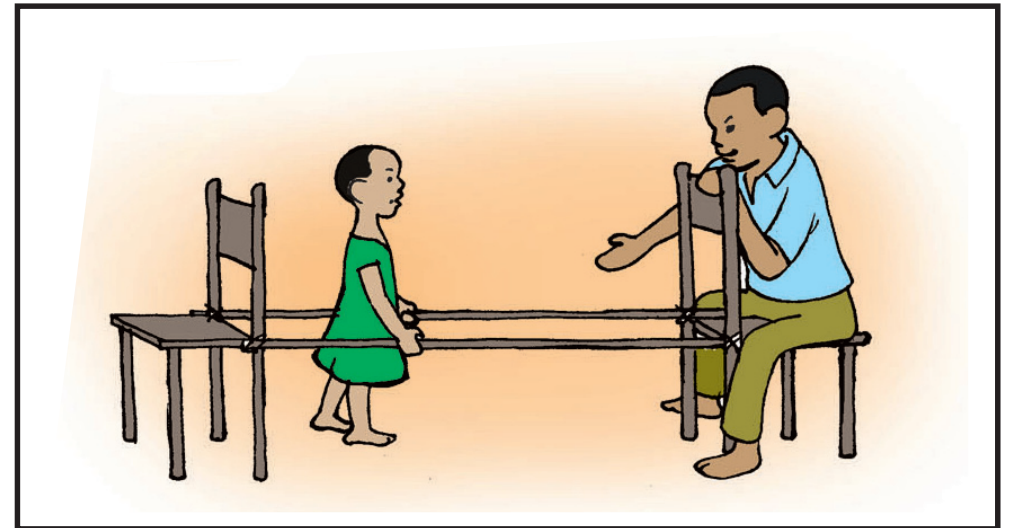
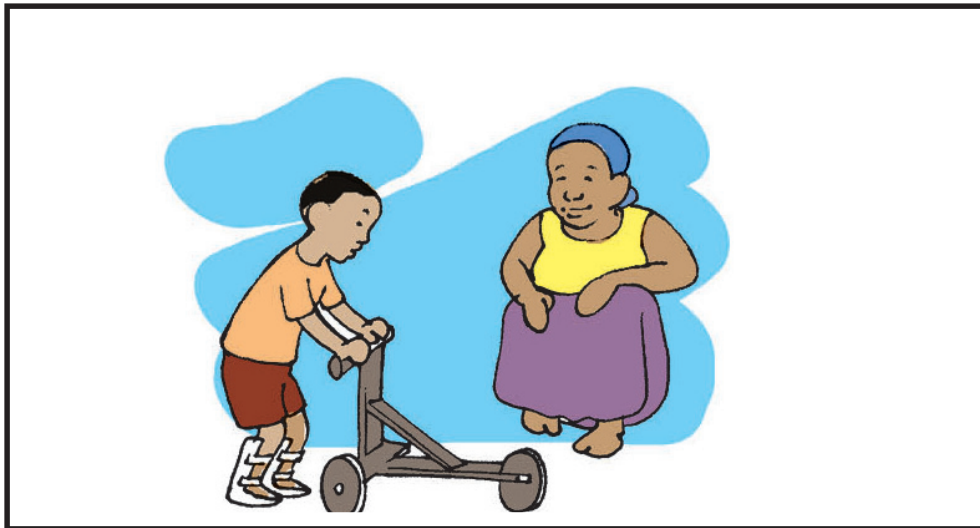
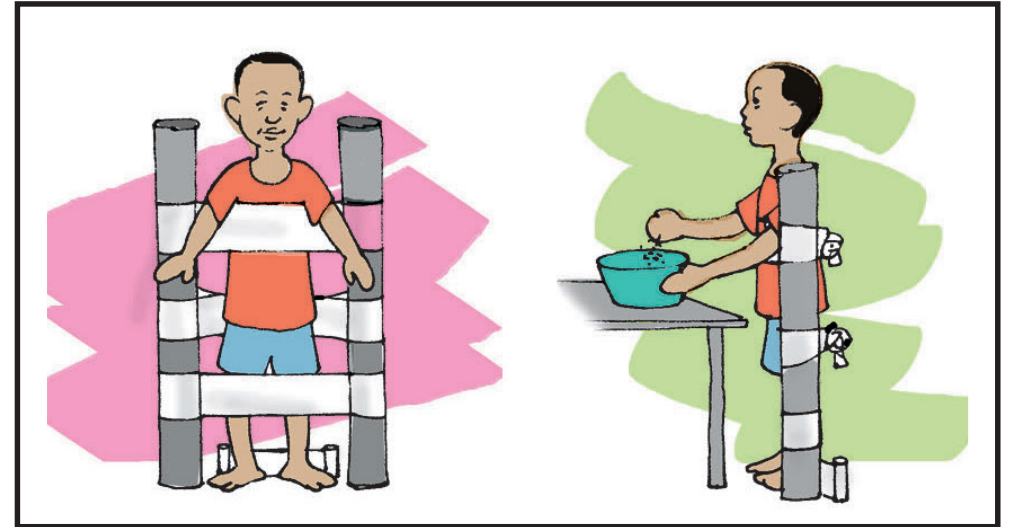
Standing and walking

- Children need to hold onto something to stand and walk.
- Let them stand holding on to furniture.
- Make simple parallel bars to teach them to walk.
- After your child can pull to stand with help, teach him to do it alone.
- It may be easier for your child to stand from a chair, rather than from the floor.
- Help her to learn the correct movements.
- To take a step, she needs to put her weight on one foot while she lifts the other.
- Many children will take a long time to learn to walk alone. They may need the help of braces or equipment.

Question to ask:

Find more ways on how to support standing and walking.

Standing and walking



Daily living activities

- Stimulate your child to do the activity by herself
- Eating and drinking:
 - Let your child try to feed himself.
 - She should sit in a good position alone in a chair or stool.
 - He may need to use a spoon with a thick handle to make it easier to hold.
- Using the toilet:
 - When going to the toilet, encourage your child to help as much as possible during undressing and dressing.
 - Make something, like a bar, for the child to hold onto.
 - Use a box or special chair for her to sit on.

Question to ask:

How you can make the handle of a spoon thicker so it is easier for your child to hold?

(Possible answer = wrap material around it)

Are there any other ways, other than the examples shown in the picture, to support a child with cerebral palsy when using the toilet?

Daily living activities

Eating and drinking



Going to the toilet



Dressing and washing

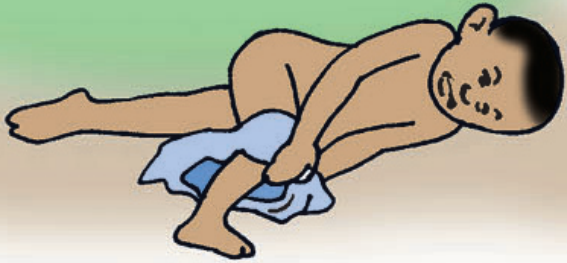
- Stimulate your child to do the activity by herself
- Dressing:
 - A child can learn to dress lying on his side.
 - Sitting in a corner against the wall can help with balance.
 - Allow your child to hold onto things if needed.
- Washing:
 - Encourage your child to wash himself.
 - When the child learns to wash himself, he may need to hold onto things for support.

Question to ask:

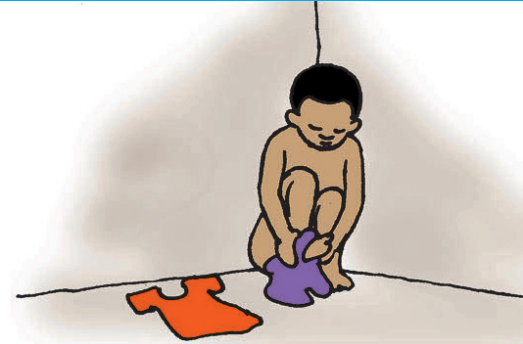
What other positions for dressing and washing will help your child be as independent as possible?

Dressing and washing

Dressing



Dressing



Dressing



Washing



Play

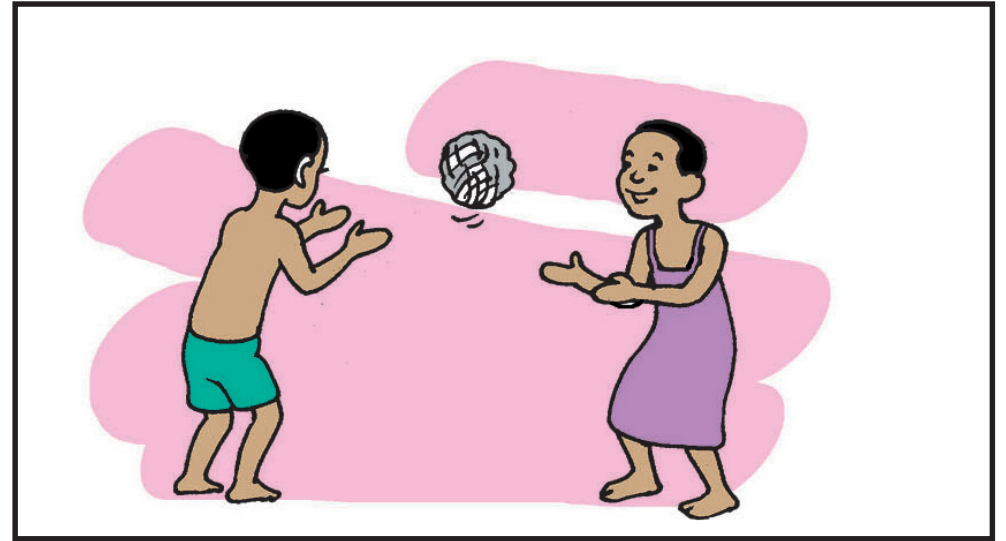
- Play helps your child develop properly.
- Encourage your child to move both her arms together and separately.
- Work on holding toys and releasing them.
- Encourage your child to play in different positions.
- Encourage other children to play with your child.

Question to ask:

In what other positions can you encourage your child to play?

(Possible answers include: sitting, kneeling, or /standing.)

Play



Seizures

- Learn to recognise possible ‘warning signs’ that a seizure will begin. These warning signs can include a change in your child’s mood, your child being suddenly afraid or suddenly crying.
- During a seizure, protect the child but do not force movements.
 - If needed, lie your child on their side.
 - Do not put anything in the child’s mouth.
 - Turn the child’s head to one side.
- Go to the clinic for medication and follow-up with the doctor about medications.
- A child with seizures does not have an evil spirit or a curse.

Question to ask:

A child who has had a seizure must be seen by a medical doctor. Do you know why?

Seizures



Your child's behaviour

- Your child needs love and attention. A child who feels loved will behave better.
- Make your instructions clear. Don't give too many instructions.
- Stick to the rules. Be consistent.
- Reinforce the behaviour you want. You do this by:
 - Giving a reward after the desired behaviour. This could be a kiss or a snack.
 - Praise the behaviour, not the person.
- Ignore behaviour you do not like.
- Physical punishment does not teach good or correct behaviour.
- Do not spank or beat your child.
- For behaviour you cannot ignore, try "time out". This means taking the child to a safe place where you can see him but away from where the fun/activity is happening.

Discussion topic:

Let's discuss the effects that physical punishment could have on a child.

Your child's behaviour

Ignore behaviour you do not like



Praise good behaviour



Do not beat your child



Helping parents to cope

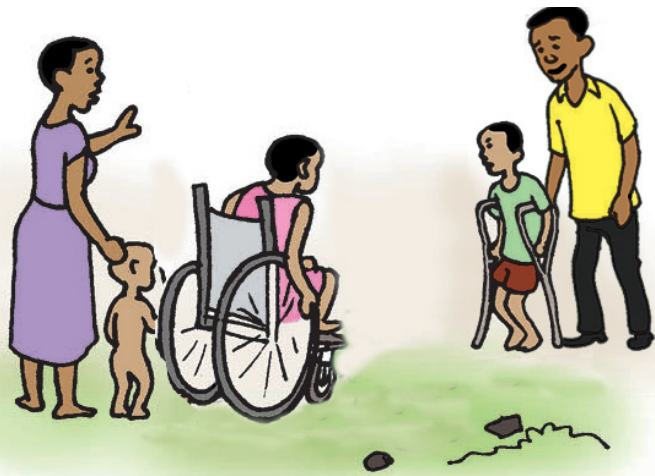
- Take time for yourself.
- Ask a trusted family member or friend to look after your child sometimes.
- Do not hide your child. Take her outside.
- Look for parents with children similar to yours.
- Seek professional help.
- Teach other children to play and care for your child.

Question to ask:

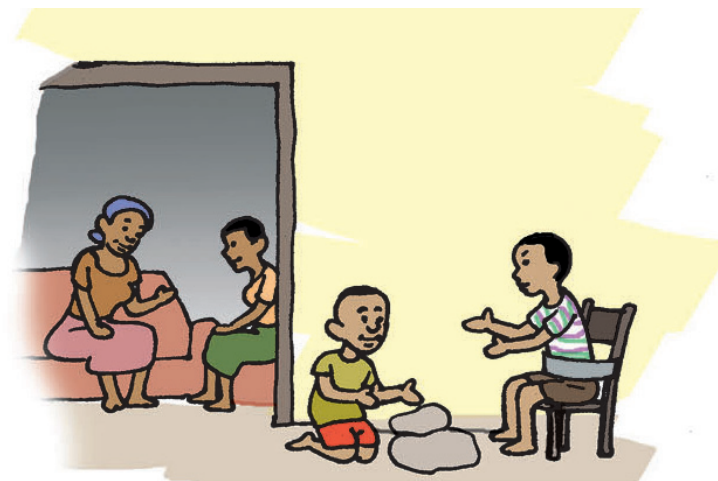
What challenges do you think parents of children with cerebral palsy face in particular?

Helping parents to cope

Look for other families in a similar situation



Teach other children to play with your child



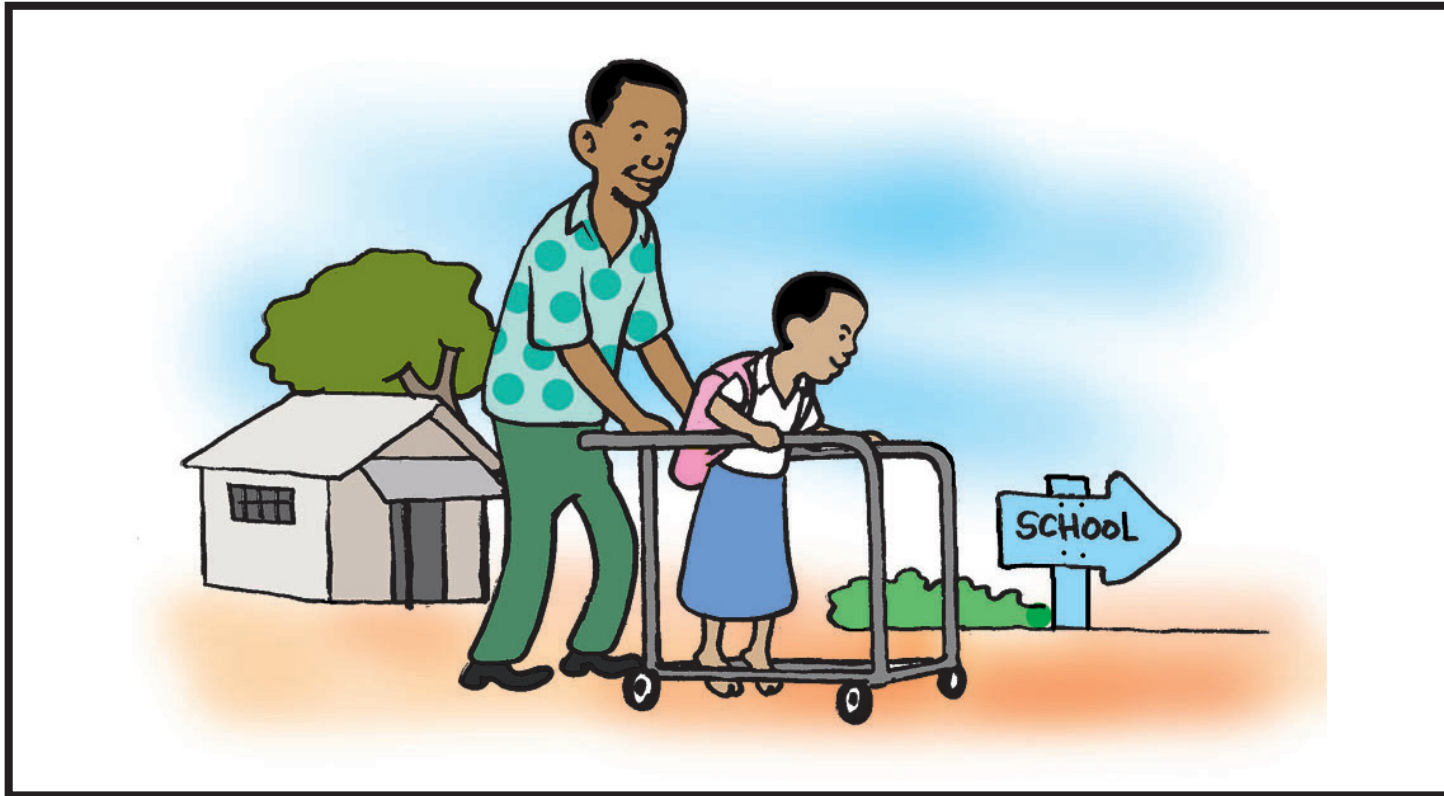
Going to school

- Children should go to school.
- Talk to your child about what to expect at school.
- Talk to your teacher, your community-based worker, and community leaders so they can help you.
- Ask the teacher to:
 - Seat your child at the front of the class where the teacher can supervise.
 - Encourage other children to assist your child at school.
 - Protect your child from bullying.
- Advise the school on toilet training and other activities with your child.

Question to ask:

Do you feel that it is possible for your child to go to school?

Going to school



Social and community activities

- Let your child participate in community activities the same as any child.
- Take your child to social and religious gatherings.
- Let your child play with other children.
- Let your child help in the household.
- Show your community that your child is special and loved.

Question to ask:

How can parents help their child play with other children?

Social and community activities



HOW YOU CAN HELP YOUR CHILD WITH CEREBRAL PALSY

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This manual was produced in Tanzania by CCBRT and CBM with EU/CBM funding as a component of its joint programme with APDK, Kenya. This programme aims to reduce the prevalence of disabilities and mitigate the effects of impairments through improved maternal and newborn care and greater community awareness.



Changing Lives, Changing Communities



Empowering persons with different abilities



together we can do more

