# **Correcting Club Feet**

NOTE: In Chapter 11 we discussed club feet. We suggest you read pages 114 and 116 before trying to correct a club foot.

The younger a child is when you begin, the more easily and quickly her foot can be straightened. **For best results, begin 2 days after the baby is born.** If the child is over 1 year old, usually a good correction is only possible with surgery. Ways to predict how easy or difficult correction may be for a particular child are listed on p. 116.



club foot

### Method 1: STRAPPING

This method works well in a baby with mild to moderate clubbing, especially when the foot can be put into a nearly normal position. The method is easier and cheaper than casting, and sometimes gives better results. You will need:

- tincture of benzoin (to paint on the skin to help the adhesive felt stick firmly. Zinc oxide in the tincture will help protect the skin.)
- cotton wool

- adhesive surgical felt (padding) 8 mm. thick and at least 2.5 cm (1 inch) wide
- adhesive tape (sticking plaster) or zinc oxide strapping 2.5 cm. wide







3. With the knee bent as far as possible, stick strips of felt around the foot and over the knee and leg as shown.





FRONT VIEW

SIDE VIEW

4. Stretch adhesive tape over the felt. Start on the outer side of the foot, go around the foot, up over the knee, and down the other side. Use the tape to pull the foot into a

better position.





5. Put a second piece of tape around the leg twice here to hold the first tape.

**CAUTION:** 10 minutes after putting on the tape, check to see if any part of the foot has turned dark. It so, look for the trouble spot and try to adjust the strapping. If it stays dark, take everything off and start again.

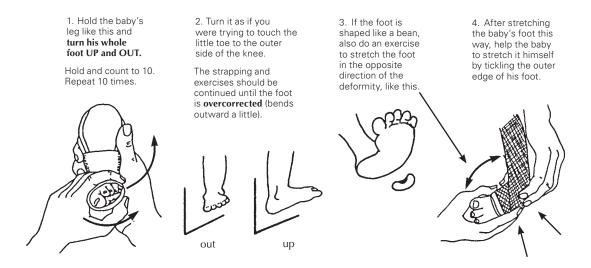


Every 2 or 3 days, tighten the correction by stretching new tape over the old, in the same way. On the 7th day, remove everything and leave the leg free until the next day. On the 8th day, apply new felt and tape.

(Continued on next page.)

## Exercises during strapping

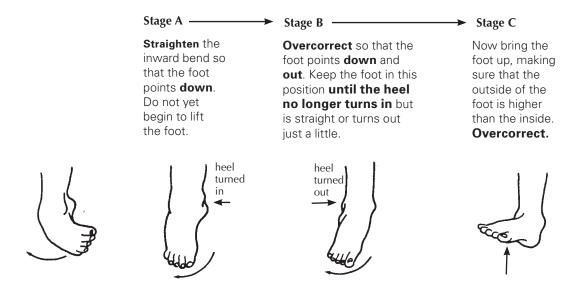
While the baby's foot is strapped, someone in the family should do stretching exercises on his foot every time he is fed or changed (at least 8 times a day).



If the foot is not straightened completely within about 3 months of strapping and exercises, surgery is probably needed.

#### Method 2: PLASTER CASTS

This method uses a casting technique similar to the one for correcting contractures (see Chapter 59). A club foot is gradually straightened in 3 stages:



#### Stage A

1. In a young baby it is often necessary to cast the whole leg with the knee bent to keep the cast from slipping down. First, wrap cotton padding evenly around the whole leg.



5. To keep edges

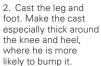
bend them

out with

pliers.

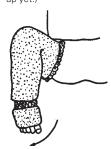
of cast from hurting the skin,

2. foc esp the wh like





4. Gently and slowly begin to stretch the foot OUT and DOWN. (Do not try to bring it up yet.)

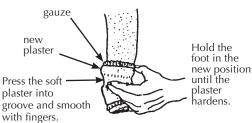


Put extra thick padding over bony spots (see p. 560).

Put bits of cotton between the toes. (Take them out after the foot has been cast.)



6. Put a ring of cotton or soft gauze over the foot and cover with new plaster bandage.



7. Once or twice a week take off the outer ring of plaster, bend the foot down and out a little more, and cover with a new ring of plaster.

**BACK VIEW** 



**BEFORE** 

Repeat Step 7 until the foot bends outward a little. This usually takes several weeks.

#### Stage B

1. Remove the whole cast and check the position of the heel.



Often the heel still bends in even after the bend of the foot has been corrected.



2. If so, keep casting the foot in a **down** and **out** position until the heel is straighter.





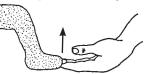
### Stage C

1. After the sideways twist of the foot and heel is corrected, begin to raise the foot, using casts.





2. As you wrap the foot with plaster bandage, hold it in a raised position with 2 fingers.



4. Keep raising the foot little by little using the same casting method as before.



Bend up cast edges with pliers.

3. Hold the foot up as the plaster dries.



(CAUTION: Be very careful cast does not pinch or dig into skin here.)



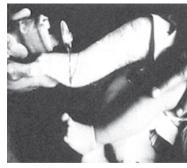
As you hold the foot, keep it turned outward so that the little toe is always higher than the big toe.

5. Raise the foot a little in this way once or twice a week until it is as high as this, or until it stops raising for 3 or 4 cast changes.





This child was born with a club foot. Village *rehabilitation* workers used a series of casts to straighten it. First they corrected the inner bend of the foot.







Then they gradually lifted her foot by cutting out rings on the cast, closing the space, and holding it closed with a new strip of plaster. (See p. 567.)



After 4 months of casting, the foot was in a good position.

#### **IMPORTANT**

After a club foot has been corrected, great care is needed to prevent it from coming back.

Both exercises and braces are essential. After strapping or casts have been removed, continue the recommended stretching exercises twice a day (see p. 115). Braces for use after correcting club feet are on p. 116.

Many children need to wear braces until they stop growing (age 13 to 18). If the problem keeps returning, surgery is probably needed.



This child who had club feet needs to use braces day and night, at least until he begins to walk, and still at night after that.

Check his feet regularly, for years, for any sign that the foot is beginning to turn in again. Improved bracing may be required.