



Proposal For

Elimination of Disability from Clubfoot in Children In association with Government health care system

What Is a Clubfoot?



Clubfoot is a birth defect that makes one or both of a baby's feet point down and turns inwards. Previously surgery used to be the main treatment for clubfoot, but orthopedic surgeons (doctors who focus on conditions of the bones, muscles, and joints) now prefer the Ponseti method. This is done in two phases:

- a. the casting phase which gradually moves the foot to the correct position
- b. the bracing phase, which makes sure it stays there

Casting by an orthopaedic surgeon who has been trained in the Ponseti method usually starts when a baby is a week or two old, and lasts for 5 to 7 weeks. When the foot is in its final, correct position, the baby is fitted with a brace.

What Is a Clubfoot Brace/ Foot Abduction Brace?

A clubfoot brace (often just called an **orthotic**) has two parts: a bar (usually metal) and special shoes (or boots) that are attached at each end. The bar is the same length as the distance between the baby's shoulders. The brace keeps the "fixed" clubfoot (or feet) in the corrected position so it doesn't twist back to where it was before the casting phase. Both feet are braced, even if the clubfoot is only on one side.

Why Is Bracing Important?

The casting phase is also called the "correction phase." When it's finished, a child's feet will look normal and be properly positioned. So it might seem like the most important part of the Ponseti method is done. But feet grow a lot and very quickly in the first years of life. Without the brace to keep a corrected clubfoot in the proper place, that rapid growth would send the foot back into the clubfoot position.

Therefore, the brace is **as important** as the series of casts. The brace keeps the corrected foot growing like it should. **If the brace isn't worn as directed, the clubfoot will return.** Then, the child has to start all over again, beginning with another casting phase.

About Steenbeek Foot Abduction Brace?

The braces that are used in CIIT clubfoot clinics are Steenbeek Foot Abduction Braces. Mr. Steenbeek himself visited CIIT production center from its initiation and trained technicians to produce the best quality braces. Over 70,000 children have used and are still using these braces in the process of their treatment.

For How Long is a Brace Worn?

The bracing phase will last 2 to 5 years. A child will wear the brace all the time (except during baths) for about 3 months, and then only during naps and at night after that.

Who makes these special shoes?



People with disabilities (PWDs) are trained and employed by CIIT to make Foot Abduction Braces in their workshop in Delhi. An average of 2500 braces are produced every month and these braces are distributed across all the 324 clubfoot clinics spread across all the 29 states in India. In every clinic , an average of 50-70 braces are stored always so that any child who require any size of brace is available. This help parents to complete their routine visit in one go.



Materials required and cost incurred in making these special shoes.

The materials which are used in making these Foot Abduction braces are listed below. On an average **2500 braces** are manufactured every month and the cost incurred for making one pair of special shoe/brace is **INR 430** and hence the total cost incurred every month is **2500*430= INR 1,075,000**.

S.No	ITEM	RATE
1	DIFFWRENT COLOUR BUFF LEATHER /SQ FT	80
2	SHEEP LEATHER /SQ FT	27
3	CANVAS CLOTH/METER	38
4	WHITE SOLE/SHEET 6MM	110
5	WHITE SOLE/SHEET 5MM	95
6	WHITE SOLE/SHEET 4MM	75
7	BLACK -SOLE /SHEET 6MM	130
8	BLACK -SOLE /SHEET 5MM	110
9	BLACK -SOLE /SHEET 4MM	95
10	PLY WOOD SHEET 6MM	1950



11	PLY WOOD SHEET 9MM	2350
12	ROD SIZES 4- 12	32
13	ROD SIZES 13 -24	37
14	PATTERN SHEET/sheet	120
15	SAND PAPER/meter	60
16	MARKING PENCEL/piece	3
17	MARKING PEN/piece	3
18	DANDRIDE/ 20 Lt drum	2460
19	REBATE - 3MM/kg	750
20	REBATE - 4MM/kg	750
21	WASHER - 3MM/kg	120
22	WASHER - 4MM/kg	90
23	LASE - 100"/PKT	150
24	LASE - 90"/PKT	140
25	LASE - 70"/PKT	130
	TOOLS	

Cost incurred in making one shoe/brace

S.No	ITEM	RATE
1	LEATHER UPPER (BUFF LEATHER-150, SHEEP LEATHER-100)	250
2	DANDRITE	30
3	PLYWOOD	40
4	ROD	50
5	DRILLING MACHINE/TOOLS	10
6	OTHER ITEMS (PEN, PENCIL, SHOE LACE, CANVAS CLOTH, REBATE, WASHER, PATTERN SHEET, SAND PAPER, THREAD, CURE STICKER, MAINTENANCE CHARGE)	50
7	TOTAL	430

Fund request:

Cost of manufacturing 1000 brace/special shoe	1000* 430= 430,000
Cost of materials needed for manufacturing brace/ month.	2500*430= 1,075,000

Picture Gallery



Foot Abduction Braces of different sizes worn by children under treatment



Foot Abduction Braces of different sizes prepared & stored in the production centre.





Steenbeek braces and braces fitted with universal bar



Picture of some materials required for making these shoes

Respectfully submitted by:
Dr. Santosh George, Director,
8800020500, direct.ciit@gmail.com