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CHAPTER

It is important to keep records of each child's progress. Careful records help workers and parents to follow the change in the individual child, and to evaluate the effectiveness of advice, therapy, and aids.

We need a clear view of the progress of the whole child in all areas—physical, mental, and social. The Child Development Chart on pp. 292 and 293 will help us to do this for younger children. For children over 5, at the end of this chapter there is a simple chart (RECORD SHEET 5) for evaluating a child's increasing ability to do things.

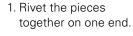
When the parents and child themselves regularly measure and record a child's progress, they become more aware of gradual improvements. But let them know that the child's progress may be very slow and it may take several weeks, or even months, before they notice any real improvement. Encourage them to be patient and to continue with the important exercises, aids, and activities.

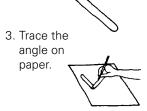
Unfortunately, the standard way of recording physical characteristics and contractures requires knowledge of angles, degrees, and symbols that many people do not understand. For evaluation to become a family tool, we need a way to measure, record, and interpret information that is as simple, clear, and enjoyable as possible. Here are some ideas.

MEASURING JOINT POSITIONS AND CONTRACTURES

You can make a simple measuring tool using 2 flat pieces of wood, plastic, or cardboard. (Tongue depressors work well.)

Other simple methods for recording joint positions are on p. 79.





2. Line them up exactly with the joint.

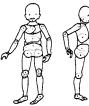
4. Do this again every 1 or 2 weeks to see if the joint is straightening with exercise.



March X April X May X June

The flexikin—an aid to measure and encourage progress

Flexikins are cardboard dolls with joints. Children with and without disabilities can make and play with them. They are so easy to use that even parents who cannot read can measure and record their children's contractures. Because the periodic measurements are recorded as a line of pictures, anyone can see the child's progress at a glance.



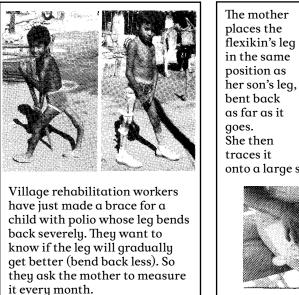
Flexikins—front and side view models

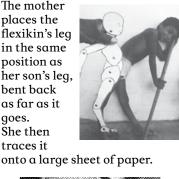
We have found that when families follow their child's progress using flexikins, both the child and parents are more likely to keep doing stretching exercises. As a result, many contractures can be partly or completely straightened in the home, and there is less need for casting and surgery.



Children making and playing with flexikins. In the PROJIMO village rehabilitation center, all the flexikins used are made by children with disabilities and the local school children.

Examples of how flexikins are used







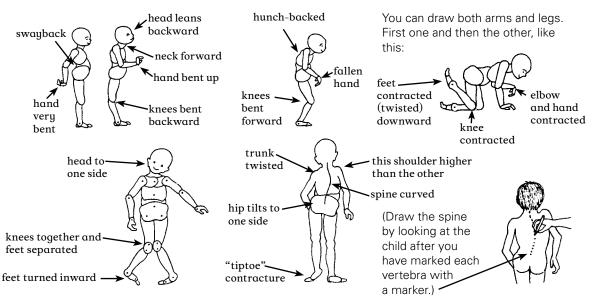
Each month she does the same and records the date. (In April her son did not use the brace for 2 weeks and she saw the knee was getting worse. This convinced both

mother and boy of the

importance of using

the brace.)

The flexikins can be used to record a wide variety of positions, deformities, contractures, and limitations in range of motion, mainly of the arms and legs but also of the neck, back, hips, and body:



In addition to using the small flexikins for record keeping, you can make large flexikins for group teaching. Or use them to keep body proportions correct when making drawings for instruction sheets.

Note: For recording contractures, we have found the side-view flexikin more useful than the front-view one. The side-view flexikin is also easier to make. It is probably the only one you will need for evaluating a child's progress.

piece of razor blade in the

Put this piece

behind this piece, and put this piece

behind this.

split end of a stick

How to make the flexikins

1. Trace the patterns of different pieces (pp. 47 and 48) onto very thick paper or thin, firm cardboard. Or use old X-ray film.

You can do this using carbon paper. (Make your own cardboard - carbon paper by completely blackening a sheet of paper with a soft-leaded pencil.) carbon paper -

Or you can glue a copy of the pattern sheet directly to the cardboard.

(If your program plans to make many flexikins, or have children make them, we suggest you have the patterns printed or photocopied directly on sheets of thin, firm cardboard.)

pattern

sheet

- 2. Cut out the pieces with strong scissors, shears, or a piece of razor blade.
- 3. Place the pieces together as shown in the drawings.

Make sure the pieces that overlap with dotted lines go behind those with complete lines.

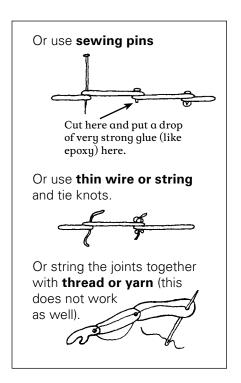
4. Fasten the pieces together at the black dots with metal or plastic rivets, sewing thread or yarn, or sewing pins.

Metal or plastic rivets usually work best.

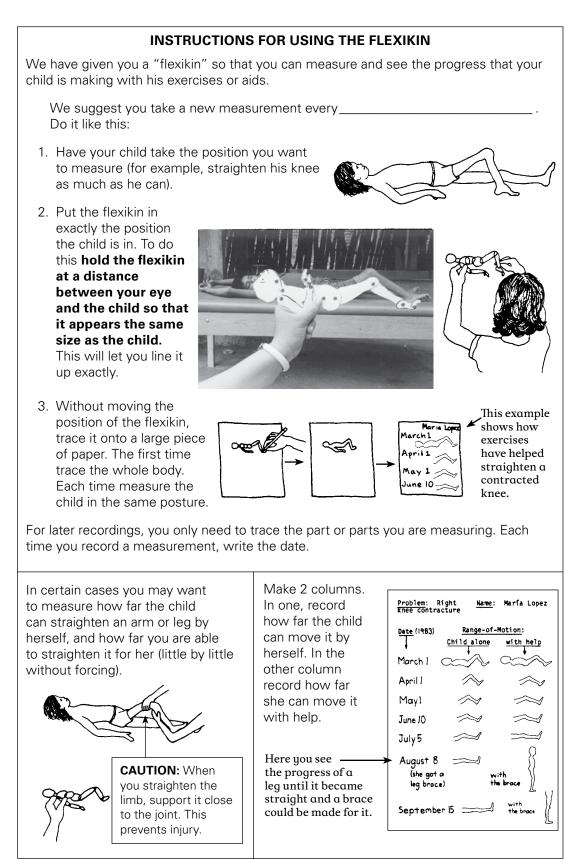
For metal rivets: Use the smallest metal rivets you can find. First punch a hole through each black dot. Put the rivets through and hammer them just enough so that the cardboard joints are tight enough to hold their position but can be moved without tearing.

For plastic rivets: Use small pieces of plastic cut from a plastic drinking straw, or a plastic knitting needle or crochet hook. A drinking straw will be easier to use, but make sure it is made from plastic and not paper. Put small pieces of the plastic into each hole you have punched. Then use a lighted candle to heat a knife or metal blade to press and melt the plastic so it will get soft, spread, and hold the

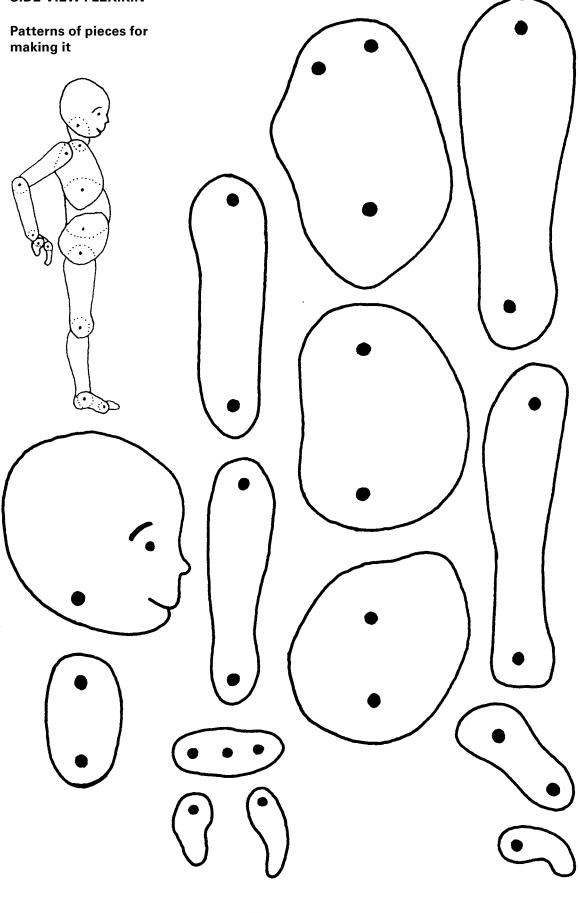
cardboard pieces together. Do not melt it too much or the 2 pieces of cardboard will stick together and you will not be able to move the flexikin 'joint.'



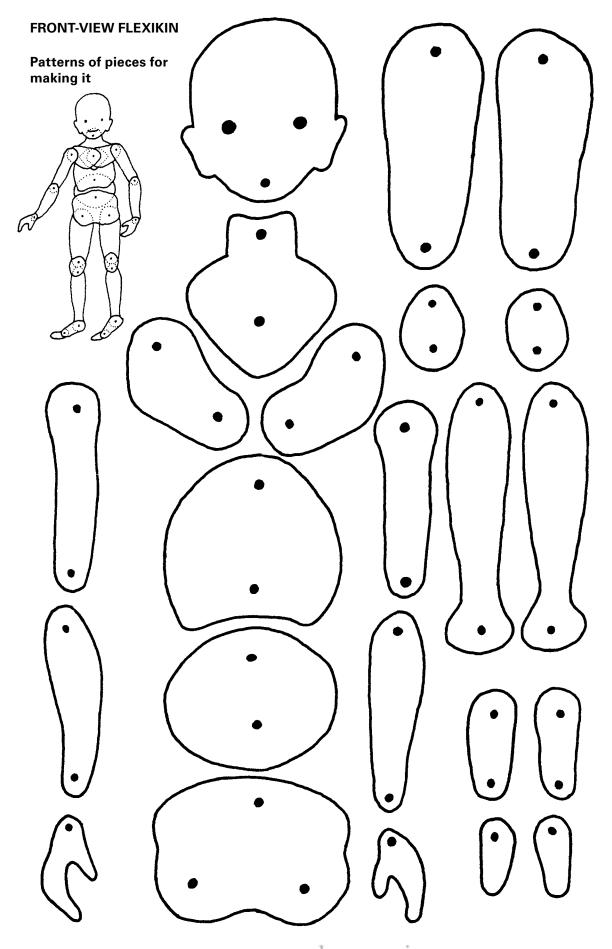
You can copy this sheet, or one like it, and give it to parents together with a flexikin. Be sure that you also **show them** how to use it and then **watch them use it**.



SIDE-VIEW FLEXIKIN



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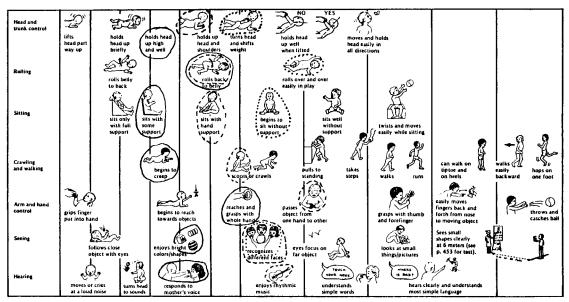
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EVALUATING THE PROGRESS OF THE WHOLE CHILD

A simple way for rehabilitation workers and parents to evaluate how a child is progressing as a whole is to keep a record of her ability to do different things. Each month, or during each visit to the community rehabilitation center, the child's different abilities are reviewed, tested, or observed. Any changes are recorded.

For children under 5 years old, one way of evaluating a child's development is to use the RECORD SHEET 6 (p. 292). This chart shows the developmental levels ('milestones') for different skills and activities. The first time the child is evaluated, circle the drawing that shows what the child can do in each area.

Each time the child is evaluated, on the same sheet, again circle the appropriate drawing, **but use a different color** (or a dotted, dashed, or zigzag line). This way, you can see where the child is moving ahead well and where he is behind.



For evaluating the progress of children over age 5, the charts on the next page may help. Two different approaches are used. Chart A is more **objective** (requires less personal judgment or opinion) but does not allow for small improvements. Chart B is more **subjective** (is based more on personal judgments). It considers **quality** of improvement, not just quantity. You can try both and see which you think gives truer, more useful results.

To use Chart A: For each skill, circle whether the child can do it "without help," "with a little help," or "with lots of help." Add all the numbers you circle. Compare the scores of the first and second visits. For example:

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To use Chart B: In each area, on the second visit, circle whether the child is doing a lot better, a little better, or the same. Add it all up. The higher the score, the more the child has improved.

NOTE: We question whether the use of numbers may not be misleading. But we think the questions themselves may be a useful guideline. None of these evaluation forms will show all areas of change or improvement. They are not substitutes for **detailed notes**, **drawings**, and a **good memory**!

EVALUATION OF PROGRESS-CHILD OVER AGE 5

RECORD SHEET 5

Name	Age	Disability

CHART A	First visit (date)			Second visit (date		
Daily activities	without help	little help	lots of help	without help	little help	lots of help
Feeding	·	- 1-	- 1-	- 1-	- 1-	- 1-
1. How does the child eat?	. 4	2	0	4	2	0
2. How does the child drink?	. 4	2	0	4	2	0
Dressing and washing						
3. Does child wash face and body?		2	0	4	2	0
4. Does child dress?		2	0	4	2	0
5. Does child put on orthopedic equipment?	. 4	2	0	4	2	0
Bowel and bladder care and control				I		
6. Does child stay clean (bowel control)?		2	0	4	2	0
7. Does child clean herself after shitting?	. 4	2	0	4	2	0
8. Does child stay dry during the day?	. 4	2	0	4	2	0
9. Does child stay dry at night?	. 4	2	0	4	2	0
Mobility/transfers				1		
10. Does child move from chair to bed and back?	. 4	2	0	4	2	0
11. Does child move from floor to bed and back?	. 4	2	0	4	2	0
Movement				I		
12. Walks on flat surface?	. 4	2	0	4	2	0
13. Walks on uneven surface?	. 4	2	0	4	2	0
14. Climbs up and down stairs?		2	0	4	2	0
15. Uses a wheelboard or wheelchair?	. 4	2	0	4	2	0
16. Does child crawl?	. 4	2	0	4	2	0
Social activities/communication				I		
17. Does child help with housework or farm work?	. 4	2	0	4	2	0
18. Does child play with other children?	. 4	2	0	4	2	0
19. Does child go to school?	. 4	2	0	. 4	2	0
20. Does child speak?		2	0	4	2	0
21. Does child communicate with signs or gestures?.	. 4	2	0	4	2	0

Total			Total				
CHART B	First visit	Second visit					
Quality of activities	make notes for comparison here	much better	a little better	same	worse		
Does child move about better?		4	2	0	-4		
Does he sit in a better position?	4	2	0	-4			
Does he walk better (straighter, with less limp, or with less support)?			2	0	-4		
Does he walk farther, faster, or easier?		4	2	0	-4		
Are his joints straighter (less contractures)?		4	2	0	-4		
hip?		4	2	0	-4		
knee?		4	2	0	-4		
ankle?		4	2	0	-4		
Can the child do things he could not do before?		4	2	0	-4		
feeding?		4	2	0	-4		
bathing?		4	2	0	-4		
dressing?		4	2	0	-4		
toileting?		4	2	0	-4		
Does he play with things better?		4	2	0	-4		
Does he speak or communicate better?		4	2	0	-4		
Does he get along with other children better?		4	2	0	-4		
Does he seem happier or more self-confident?	'	4	2	0	-4		
Has he improved or got worse in other ways? In what ways?		4	2	0	-4		
		Total					

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