

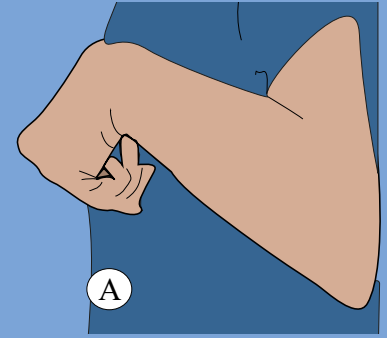


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BACKGROUND

Many patients who have experienced a stroke, overtime may get a variety of complications, such as spasticity, paralysis, pain, loss of sensation, decreased proprioception and oedema of the hand and arm. These complications can cause a reduction of mobility in the hand and eventually contractures may develop (A). Therefore, it is important to start with orthotic treatment, along with hand therapy at an early stage, before spasticity is established, and contractures occur.



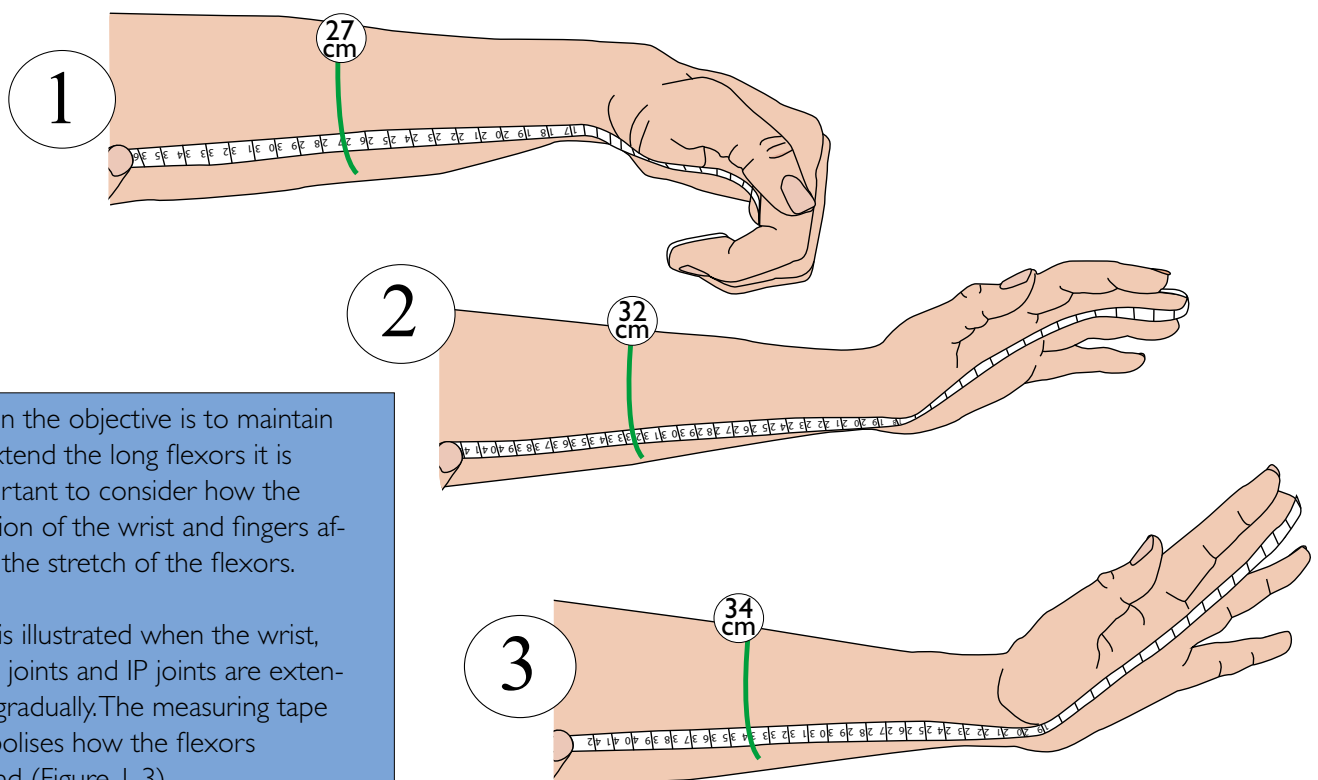
INTENDED USE

S.O.T is a resting splint designed for patients with spasticity or paresis of the hand and arm when the objective is to maintain or increase the mobility of the upper limb. The S.O.T is smooth, light weight and has an aluminium core that allows adjustment to the desired position. The aluminium core is embedded into polyethylene foam and covered with fabric. The brace is delivered in a resting position, this position offers relaxation to the hand and may also give pain relief to the patient, it also provides a good biomechanical position that may reduce the risk of flexor shortening at the wrist and fingers. Patients suffering with rheumatoid pain may benefit from S.O.T, as it prevents the hand from falling into unfavourable painful positions. The orthosis can be readjusted into a POSI or Intrinsic-Plus Position.

The main indications for S.O.T in a resting position are, stroke, CP, rheumatoid arthritis, radialis paresis, muscular dystrophy, oedema, and plexus injury.

MAINTAINED OR INCREASED ELONGATION OF LONG FLEXORS

- At contractures and deformities

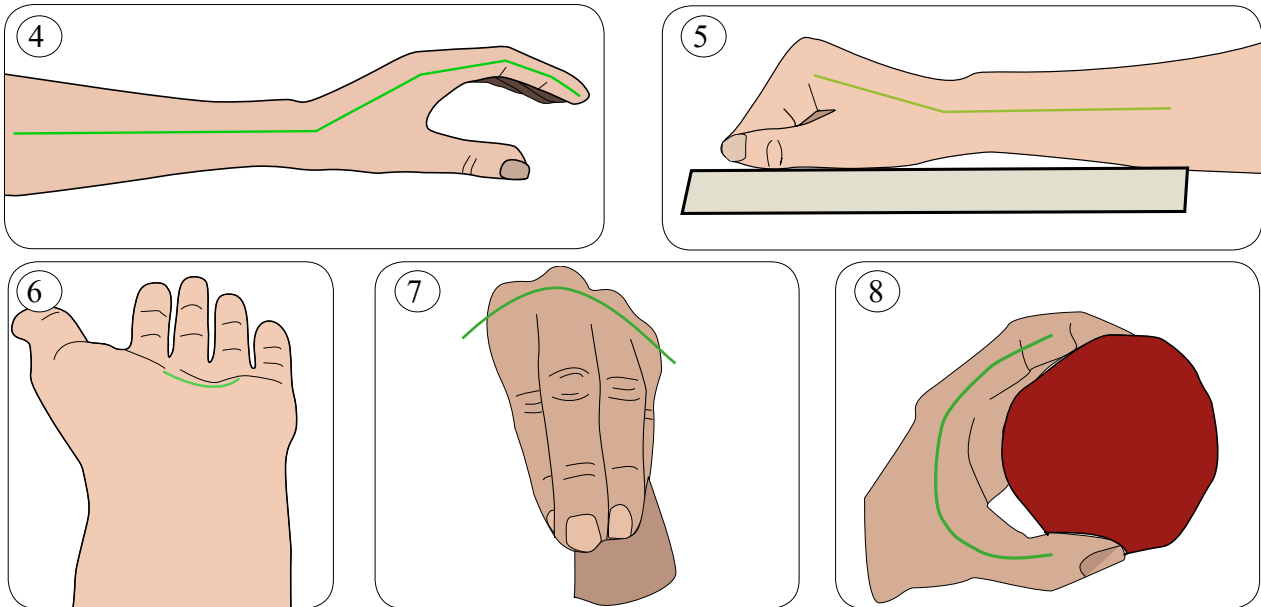


When the objective is to maintain or extend the long flexors it is important to consider how the position of the wrist and fingers affects the stretch of the flexors.

This is illustrated when the wrist, MCP joints and IP joints are extended gradually. The measuring tape symbolises how the flexors extend (Figure 1-3).

RESTING POSITION SUPPORT FOR THE MCP- AND CMC- JOINTS IN THE THUMB

- S.O.T Resting splint is supplied in a resting position. Figure 4 and 5 are a guide of how the wrist (4) and the fingers (5) generally should be positioned. An individual assessment of the patient should always be done before fitting.
- S.O.T Resting splint supports the arches of the hand (picture 6 -8) and the position of the thumb. The orthosis anatomic configuration supports the important thenar muscles, and the CMC and MCP joint. This is particularly important for the intended patient groups as the thumb tends to adduct at the CMC joint and hyperextend at the MCP joint.
- S.O.T Resting splint increases the conditions for an effective grip (Figure 8).



PREVENTS OR REDUCES THE RISK OF OEDEMA

Instead of conventional straps over the fingers, hand and arm (that can cause oedema) the S.O.T Resting Splint has a soft elasticated cover, which keeps the hand and arm in place. The pressure-distribution cover, in combination with an optimal position of the wrist and hand reduces the risk of oedema as it facilitates venous return. The material's smooth outer surface, and it's low profile allow the orthosis to fit under clothing (9). To provide firmer pressure over the wrist (for spasticity), the cover can be supplemented with the non-elastic wrist strap (10).



Using S.O.Ts wedges, the degree of stretching is changed during treatment to achieve gradual change.

BETTER POSITION OF THE FINGERS

S.O.T finger divider prevents skin irritations between the fingers. It also prevents ulnar/radial deviation at the fingers and contributes to a better position (Figure 11).

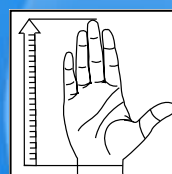
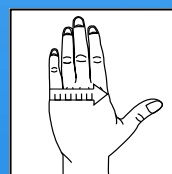


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Childrens
sizes

Item no. Left	Item no. Right	Description	Side	Size	MCP Width	Wrist to finger top
28710 1008	28710 2008	S.O.T Resting splint	L/R	XXX-Small	5,5 cm	≤12 cm
28710 1009	28710 2009	S.O.T Resting splint	L/R	XX-Small	≤ 6,5 cm	≤ 14 cm
28710 1010	28710 2010	S.O.T Resting splint	L/R	X-Small	≤7,5 cm	≤ 16 cm
28710 1011	28710 2011	S.O.T Resting splint	L/R	Small	≤7,5 cm	≤ 18,5 cm
28710 1012	28710 2012	S.O.T Resting splint	L/R	Medium	≤ 8,5 cm	≤ 20 cm
28710 1013	28710 2013	S.O.T Resting splint	L/R	Large	≤ 9 cm	≤ 21 cm
28711 0009		MCP wedge	Bilat.	XX-Small	Width 65 mm	Height 10 mm
28711 0011		MCP wedge	Bilat.	Small	Width 75 mm	Height 15 mm
28711 0013		MCP wedge	Bilat.	Large	Width 90 mm	Height 20 mm
28712 0003		Finger divider	Bilat.	Paediatric		
28712 0005		Finger divider	Bilat.	Medium		
28712 0007		Finger divider	Bilat.	Large		
28713 0009		Extra strap	Bilat.	XXXXS-XS		
28713 0012		Extra strap	Bilat.	Small-Large		
28714 1008	28714 2008	Additional cover	L/R	XXX-Small		
28714 1009	28714 2009	Additional cover	L/R	XX-Small		
28714 1010	28714 2010	Additional cover	L/R	X-Small		
28714 1011	28714 2011	Additional cover	L/R	Small		
28714 1012	28714 2012	Additional cover	L/R	Medium		
28714 1013	28714 2013	Additional cover	L/R	Large		



Item no.	Description	XXXXS	XXS	XS	S	M	L
28710	S.O.T Resting splint	X	X	X	X	X	X
28714	Additional cover	X	X	X	X	X	X
28712	Finger divider	Paediatric		Medium		Medium/Large	
28711	MCP wedge	XX-Small		Small		Small/Large	
28713	Extra strap	XXXXS-XS			Small-Large		

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