

# McKie *Splints*



**“Do More With McKie Splints”**

# McKie Splints

All our splints are made from 1.5 mm washable nylon-covered neoprene. The smooth side nylon is worn against the skin. The looped nylon fabric is the outer fabric and is receptive to Velcro™.

Available Colors: Navy, Royal Blue, Red, Pink, Tan, Black.

## McKie Thumb Splint



- This splint was designed to promote grasp development after neurological injury.
- Attachment of the Velcro™ over the thumb M-P blocks thumb flexion while it facilitates pincer grasp.
- Because the neoprene is thinner and coverage over the palm minimal, object manipulation and sensation development are unimpeded.
- For orthopedic injuries and arthritis, the splint provides mild support and protection to over-used and irritated thumb joints.
- Sizes available for NICU babies through large adult athletes.

## McKie Thumb Splint with Web Stay



- Features a wider web, plus a fabric-covered moldable plastic stay over the web.
- Recommended for moderate to severe spasticity.
- Sizes available for NICU babies through large adults.

## McKie Thumb Splint with Removable Dorsal Stay



- Sized for standard McKie thumb splint sizes.
- Longer thumb splint with removable, moldable 1/16" stay on thumb dorsum.
- Recommended for trigger thumb, thumb extensor weakness, excessive thumb MP flexion.

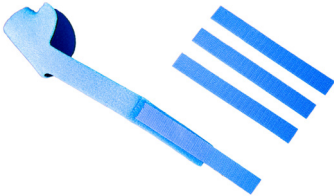
# McKie Splints

## Supinator Straps



- Lightweight powerful tool that promotes forearm supination/pronation.
- Wrapping options also assist wrist and elbow extension.
- Sized for babies to large adults.
- Custom sizing available.
- Trimable.
- Recommended for stroke, cerebral palsy, brachial plexus injury, arthrogyposis.

## Extra Hook Tape



- The Velcro™ Brand Hook 65 used with our products is a lower nap hook tape that does not distort neoprene the way standard hook tape does. However it is not widely available.
- Since Velcro™ Brand hook 65 tends to wear out before the neoprene, purchasing extra hook tape will extend the life of your splint.
- Available for all of our neoprene products.

## McKie Thumb Splint Sizing Kits



- Multiple sizing kit configurations available from neonatal to adult.
- All kits include splints, supinator strap, and a color sample swatch.

# McKie Splints

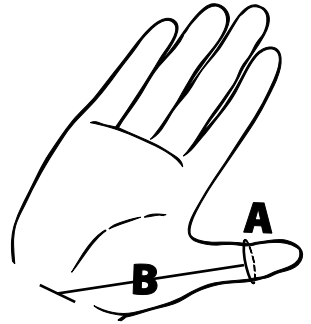
## Thumb Splint Sizing:

### 1. Measurement A

Using a millimeter tape, measure the circumference around the distal thumb joint.

### 2. Measurement B

Measure the distance on the palm from the distal thumb joint (not from the thumb tip) to the center of the wrist crease between hand and wrist.



### 3. Refer to Chart

On the appropriate chart, find the square where measurements A and B meet. The square should fall within a bold area corresponding to the correct size. (Ex: Measurement A = 5.1 cm and B = 6.0 cm, the size would be P5)

If your measurements are outside the sizes on the chart, you will need custom sizing. (see page 10)

### 4. Catalog numbers = Size + Hand + Color

When ordering, indicate the size, hand and color.

(Ex: Size = P5, Hand = Left, Color = Tan. Please write: P5-L Tan )

## Supinator Strap Sizing:

Supinator strap length is approximately 2-1/2 - 3-1/2 times the length of the forearm (depending on the forearm circumference).

Extra Small ( <i>infants</i> )	7/8 " X 15"	(SS-XSm)
Small ( <i>preschoolers</i> )	1" X 18"	(SS-Sm)
Medium ( <i>ages 7-12</i> )	1-1/2 " X 24"	(SS-Med)
Large ( <i>teens, adult</i> )	2" X 30"	(SS-Lg)

Supinator Straps may be shortened by customer.

Longer supinator straps are available as a custom option. (see page 8)

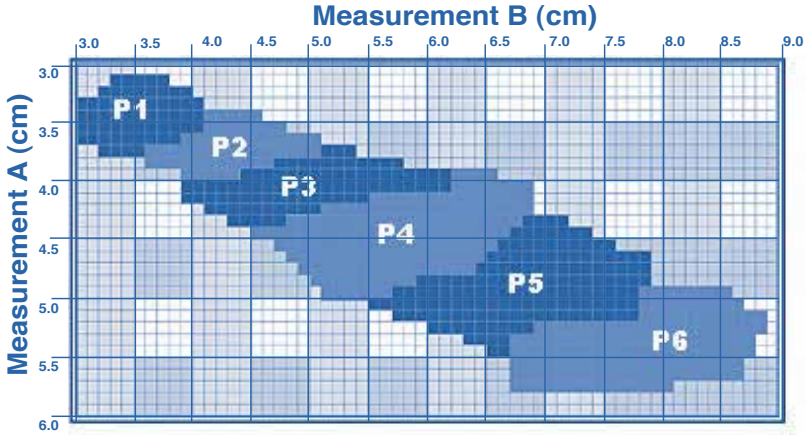
# Sizing Charts

## Neonatal Size Chart:

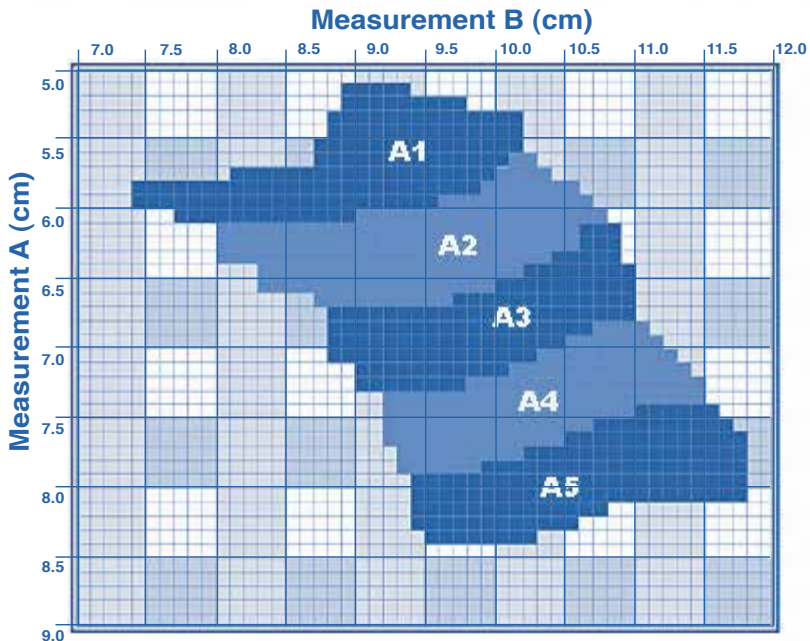
Sizes: N1	N2	N3
2.4 - 2.7 cm	2.7 - 3.0 cm	3.0 - 3.3 cm

(Use Measurement A only)

## Pediatric Size Chart



## Adult Size Chart





# McKie Splints

## Allyson Wrist-Hand Orthosis



- Dynamic, functional, comfortable.
- Places the hand in a neutral position while it promotes wrist extension and thumb opposition.
- The ulnar strapping diminishes ulnar deviation.
- Removable, moldable plastic wrist stay.
- Stay thicknesses in 1/16", 3/32" and 1/8".
- Custom-sized to the individual, from premature infants to large adults.
- Standard sizes available.

## Allyson Wrist-Hand Orthosis With Ulnar Stay



- Appropriate for individuals with persistent ulnar deviation.
- Functional, comfortable.
- Promotes wrist extension and thumb opposition while it blocks ulnar deviation.
- Removable, moldable plastic wrist stay.
- Stay thicknesses in 1/16", 3/32" and 1/8".
- Custom-sized to the individual from premature infants to large adults.

## Allyson Splint Utensil Holders

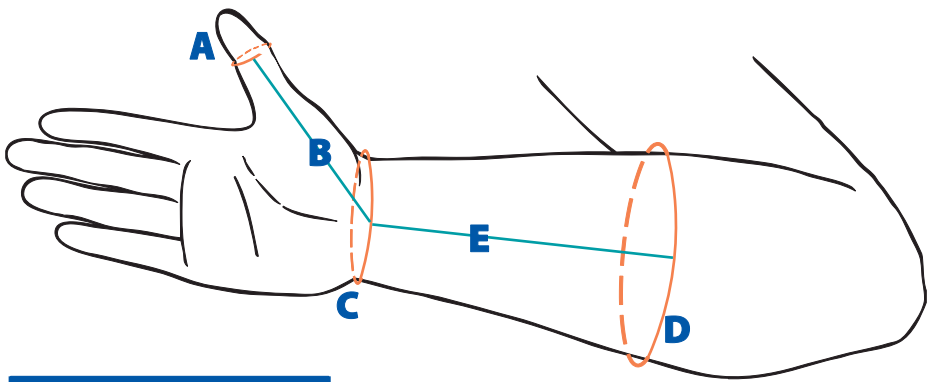


- Appropriate when sustained grasp is difficult.
- Attaches by Velcro™ to the palm of the Allyson Splint.
- Each package contains one small and one large utensil holder.

# The Allyson Splint

- 1) Record measurements in millimeters (mm).
- 2) Please include a photocopy, scan, or accurate line drawing of the palm of the hand with your order. If photocopying or photographing, please place a cm tape beside the hand to provide us with additional measurements for reference.
- 3) Indicate if you need other custom options such as a web stay.

## Allyson Splint Sizing



Measurements	
LEFT	RIGHT

- A** Circumference of the distal thumb joint.
- B** Distal thumb crease to center of wrist crease.
- C** Circumference of wrist.
- D** Circumference of forearm at proximal end of the splint.
- E** Desired length of the forearm component of the splint.

# McKie Splints

## What Diagnoses May Benefit From This Thumb Splint?



- Cerebral Palsy
- Arthritis or Injury to the thumb
- Arthrogyrosis
- Sensory Defensiveness
- Stroke, MS or other Neurological Disease
- Weakness of the limb or hand

## How it Works: Neurological/ Development Deficits

- The thumb is drawn into opposition. The splint pulls in the same direction as muscle attached to the thumb.
- Because active, opposed grasp is supported, the potential for acquisition of abnormal, compensatory grasps patterns is diminished.
- Our neoprene is only 1.5 mm thick, and coverage of the palm is minimal, so adequate space is left in the hand to grasp and manipulate objects.
- Normal hand use and development is thus not thwarted by the splint itself.
- For weakness and hypermobility at the MCP joint, strap placement at the head of the metacarpal will block hyper-extension .



## How It Works: Arthritis/Injury

- The splint provides light compression.
- It cushions the thenar eminence and reduces joint play.
- At the CMC joint, the splint strap can be attached to provide a lift to the thumb metacarpal and increase joint space.
- For weakness and hypermobility at the MCP joint, strap placement at the head of the metacarpal will block hyper-extension.



## Supinator Straps: Who Can Benefit?

- Adults with Stroke or Neurological Injury
- Children with Cerebral Palsy who have impaired reach and weight bearing of the upper limb
- Children and Adults with Brachial Plexus Injury
- Children and Adults with Arthrogryposis

# Customization Options

## 1. Widened Webspace:

The webspace of the splint is widened by 5 mm for sizes P1 and P2. The webspace width increases incrementally with each size so that P6 is 10 mm wider and A3 is 15 mm wider than the standard webspace. If an even wider webspace is needed, specify in millimeters.

- Combined with the option of a lengthened strap allows hook tape to be pulled through the webspace providing added stability to the thumb splint without adding plastic.
- Provides sufficient coverage at the web to allow the splint strap and/or hook tape to be pulled through the webspace.

(May be useful to combine with a lengthened strap).

## 2. Plastic Stay at Webspace:

- Maintains abduction of the thumb.
- Features a widened web plus a fabric-covered, moldable plastic stay over the webspace
- May be added to adult and neonatal thumb splints as well as dorsal stay splints and all Allyson splints.

## 3. Shorten / Lengthen Thumb of Splint:

- Distal end of thumb is shortened to your specifications.
- A sizing kit is needed to select this option.
- Because our products are sewn rather than glued, cutting across the web seam requires re-sewing immediately to prevent unraveling.

## 4. Decorate Splint:

- Dimensional fabric paints are used to “decorate” the splint.
- Available in pediatric sizes P4 and above, including adult sizes.

# Customization Options

## 5. Lengthen Strap of Thumb Splint:

- Valuable customization if user has a wider wrist.
- Useful for extending the strap through the webspace to create additional stiffness at the web.
- We lengthen the splint strap by 1" neonatal sizes, 1-1/4" for pediatric sizes and 1-1/2" for adult sizes.
- If you need even more length, please specify.

## 6. Lengthen Hook Tape of the Thumb Splint Strap:

- Useful for extending the strap through the webspace to create additional stiffness at the web.
- The hook tape is lengthened by 1" neonatal sizes, 1-1/4" for pediatric sizes and 1-1/2" for adult sizes.
- If you need even more length, please specify.

## 7. Custom-Sized Thumb Splint:

- If the A and B measurements do not fall within the darkened section of the sizing chart, use this option.
- Provide measurement A and B as illustrated on page 3.
- If hand is unusual, please send us an image of the hand.
- Add useful descriptors such as "P4-L with P5 thumb", or "atrophy of thenar eminence" to help us create exactly what you need.

## 8. Lengthen Supinator Strap:

- The strap is lengthened by increments of 6 inches.
- Use this option if the arm is wider or longer than usual or if you wish to wrap beyond the elbow.

# Contact

## *Information*

McKie Splints, LLC  
PO Box 242  
Duluth, MN 55801-0242

Phone: +1-218-720-2844

Fax: +1-218-727-4999

Toll Free within U.S. & Canada:  
1-888-4SPLINT

Email: [info@mckiesplints.com](mailto:info@mckiesplints.com)

Monday - Thursday 8am - 4pm  
Friday 8am - noon  
Central Time

[www.mckiesplints.com](http://www.mckiesplints.com)