

# Stretching and strengthening exercises for the thumb

## Occupational Therapy

Information for Patients

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### Introduction

The best position for the thumb during activities involving a pinch grip is when it forms an "O" shape with the index finger. Try to keep a bend on both joints of the thumb. This reduces the stress on the joint at the base of the thumb.

Moving the thumb into this position or keeping this position when pinching can be difficult for certain conditions such as arthritis.

Your therapist will choose which exercises will help with this.

Some of these exercises help to increase the flexibility of the thumb and some to increase its stability and strength.

You may have mild discomfort but none of the exercises should increase your pain.



### Mobility exercises

It can be common for the middle joint to get stiff.

Support the thumb at the base below the middle joint.

Bend the middle joint and straighten (it is important not to over straighten).



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## Stretching exercises

The muscle between the gap between thumb and first finger (first web space) may get tight. Squeeze the first web space between the thumb and index finger to help relax the muscle.

Use your other hand to stretch out the base of your thumb. **Hold for 20 seconds**

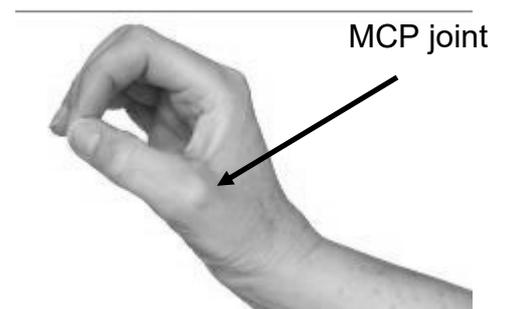


## Stability exercises

1. Use your other hand to support the affected thumb. Hold the thumb in an "O" shape with the thumb touching the index finger. Make sure to keep the MCP joint bent.

**Once you can manage to hold the position above you can move on to the next set of exercises:**

2. Move your thumb into the "O" shape without using the other hand to help. Touch each finger in turn, keeping the MCP joint bent.
3. Start to add a gentle pinch force. This should be pain free. If the thumb starts to "collapse" at the joints relax and repeat.



**Repeat ..... times every day**

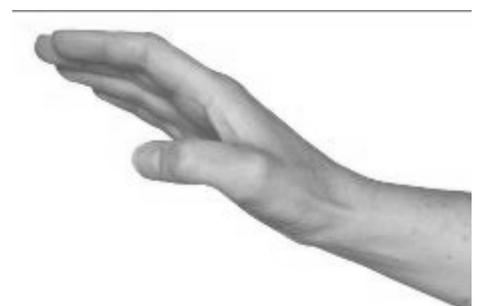
## Bending the end joint

Keep the middle joint still and bend and straighten the end joint.

Progress this by moving the thumb away to widen the web space and bend and straighten the end joint.

**Repeat ..... times every day**

This can be progressed by putting a rubber band below the end joint of the thumb to add resistance.



## Strengthening exercises

To strengthen the muscles that move the thumb away from the palm:

1. Place a rubber band between the ring and little finger.
2. Loop it around the hand and thumb below the middle joint of the thumb.
3. Move the thumb sideways away from the palm



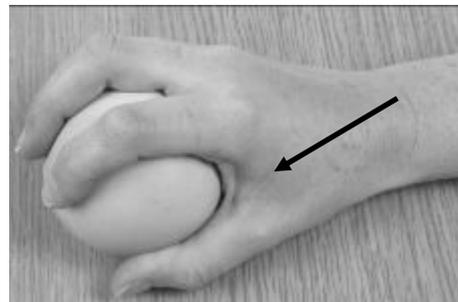
Repeat ..... times every day

## More strengthening exercises

The muscle that moves the index finger sideways is also involved in helping to keep the thumb stable for pinch activities.

With your hand supported trace the outline of a tennis ball with the index finger.

Once the muscle contracts **hold for 5 seconds.**



This muscle can be further strengthened by moving it against resistance. Try using a rubber band.

Repeat ..... times every day



**Contact details**

Occupational Therapist: \_\_\_\_\_

Contact Number: \_\_\_\_\_

**Make a note of any questions here:**


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Previous reference:

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