NAVICULAR (SCAPHOID) FRACTURE

What is a navicular or scaphoid fracture?

A navicular fracture is a break in one of the bones in your wrist. The wrist is made up of 8 bones between the forearm and hand. The navicular, or scaphoid, bone is near the thumb. Fractures to this bone sometimes have a healing problem because the bone does not have a good blood supply.

How does it occur?

A navicular fracture is caused by a fall onto your wrist or a direct blow to the bone.

What are the symptoms?

You may have pain, swelling, or tenderness in your wrist, usually just below the thumb.

How is it diagnosed?

Your healthcare provider will examine your wrist and review your symptoms. An X-ray may show a break in the navicular bone. Sometimes a fracture may not show up in the first X-ray and your provider may recommend a repeat X-ray in 1 to 2 weeks. Sometimes your provider may order a CAT scan or bone scan to confirm the fracture.

How is it treated?

You will need to wear an arm cast that includes your thumb. The cast may or may not extend above your elbow. You will wear the cast for up to 12 weeks or longer to be sure the bone heals.

In some cases healing does not occur and the pieces of bone do not grow back together. This may require surgery.

Sometimes the failure of the pieces of bone to grow back together leads to a problem called avascular necrosis. In avascular necrosis, part of the bone dies because it does not get enough blood. In these cases, an operation is necessary to remove part of the injured bone, insert grafted bone to help heal the fragment, or insert an artificial bone.

Your wrist may heal completely or you may have some permanent stiffness or loss of range of motion.

When can I return to my sport or activity?

The goal of rehabilitation is to return you to your sport or activity as soon as is safely possible. If you return too soon you may worsen your injury, which could lead to permanent damage. Everyone recovers

from injury at a different rate. Return to your sport or activity will be determined by how soon your wrist recovers, not by how many days or weeks it has been since your injury occurred.

You may return to your sport or activity when you have full range of motion in your wrist without pain. Your healthcare provider may allow you to return to competition with your wrist taped or in a brace. Your injured wrist, hand, and forearm need to have the same strength as the uninjured side. You must not have any pain when you do activities such as swinging a bat or a racket or tumbling in gymnastics.

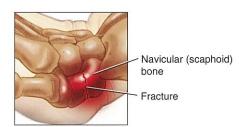
If you return to a sport or activity too soon after a navicular fracture there still could be problems with healing. It is very important to be sure that none of your activities cause wrist pain or tenderness.

How can I prevent a navicular fracture?

A navicular fracture usually occurs during an accident that is not preventable. When you do activities such as skating be sure to wear protective wrist guards.

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NAVICULAR (SCAPHOID) FRACTURE REHABILITATION EXERCISES

You may do the stretching exercises when your cast is removed. You may do the strengthening exercises when stretching is nearly painless.

Stretching exercises

1. WRIST RANGE OF MOTION

A. Flexion: Gently bend your wrist forward. Hold for 5 seconds. Do 3 sets of 10.

B. Extension: Gently bend your wrist backward. Hold this position 5 seconds. Do 3 sets of 10.

C. Side to side:
Gently move your
wrist from side to
side (a handshake motion).
Hold for 5 seconds at each
end. Do 3 sets of 10.

WRIST ACTIVE RANGE OF MOTION



2. WRIST STRETCH: With one hand, help to bend the opposite wrist down by pressing the back of your hand and holding it down for 15 to 30 seconds. Next, stretch the hand back by pressing the fingers in a backward direction and holding it for 15 to 30 seconds. Keep your elbow straight during this exercise. Do 3 sets on each hand.



WRIST STRETCH

3. WRIST FLEXION STRETCH: Stand with the back of your hands on a table, palms facing up, fingers pointing toward your body, and elbows straight. Lean away from the table. Hold this position for 15 to 30 seconds. Repeat 3 times.





4. WRIST EXTENSION STRETCH: Stand at a table with your palms down, fingers flat, and elbows straight. Lean your body weight forward. Hold this position for 15 seconds. Repeat 3 times.

WRIST EXTENSION STRETCH

Strengthening exercises

5. WRIST FLEXION: Hold a can or hammer handle in your hand with your palm facing up. Bend your wrist upward. Slowly lower the weight and return to the starting position.

Do 3 sets of 10.

WRIST FLEXION
Gradually in-

crease the weight of the can or weight you are holding.

6. WRIST EXTENSION: Hold a soup can or hammer handle in your hand with your palm facing down. Slowly bend your wrist upward. Slowly lower the weight down into the starting position.



Do 3 sets of 10. Gradually increase the weight of the object you are holding.

7. STRAIGHT FINGER FLEXION: Make a right angle with your knuckles and keep your fingers straight. Hold this position for 10 seconds. Repeat 5 times.



STRAIGHT FINGER FLEXION

8. FINGER EXTENSION: With your palm flat on a table and your fingers straight out, lift each finger straight up one at a time. Hold your finger up for 5 seconds

then and put it down. Continue until you have done all 5 fingers. Repeat 10 times.

FINGER EXTENSION

 FOREARM PRONATION AND SUPINATION: With your elbow bent 90°, turn your palm upward and hold for

5 seconds. Slowly turn your palm downward and hold for 5 seconds. Make sure you keep your elbow at your side and bent 90° throughout this exercise. Do 3 sets of 10.



FOREARM PRONATION AND SUPINATION

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10. FOREARM PRONATION AND SUPINATION STRENGTHEN-

ING: Hold a soup can or hammer handle in your hand and bend your elbow 90°. Slowly rotate your hand with your palm upward and then palm down. Do 3 sets of 10.



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