Most minor strains and sprains can be treated at home, but severe sprains and fractures need professional care. Apply home treatment while you wait to see your medical professional.

You may have a severe sprain or a broken bone if:
- The injured area is visibly swollen.
- The injured area is twisted or bent out of shape or a bone is poking through the skin.
- The injured area is black and blue.
- The pain from the injury prevents normal use of the limb, such as walking.

**Prevention**
- Try to keep your hands empty when climbing or descending stairs. Having your hands full makes it hard to react quickly and catch yourself in the event of a fall.
- Make sure that you can always see where you are walking. Turn on the lights and clear the walkway of objects, such as boxes or furniture.
- To avoid falling, use a stepstool when reaching for high objects. Do not stand on chairs or other objects.
- Ask for help with carrying heavy or awkward objects.

**Home treatment for pain and swelling**

If the injury is to a muscle, ligament, tendon, or bone, treatment is a two-part process:
1. **RICE** (rest, ice, compression, elevation) to treat the acute pain or injury
2. **MSA** (movement, strength, alternate activity) to help the injury heal completely and to prevent further problems.

Begin the **RICE** process immediately for most injuries. If you suspect a fracture, splint the affected limb to prevent further injury.

If the injury is to a finger or part of the hand, remove all rings immediately.

**R - Rest**
- Do not put weight on the injured joint for at least 24 to 48 hours.
- Use crutches to support a badly sprained knee or ankle.
- Rest a sprained finger or toe by taping it to a healthy finger or toe next to it.

Injured muscle, ligament, or tendon tissue needs time and rest to heal. Stress fractures need rest for two to four months.

**I - Ice**
- Cold will reduce pain and swelling and promote healing. Although heat feels nice, it may do more harm than good, since it can increase swelling after an injury.
Apply cold packs immediately to prevent or minimize swelling. You can also put ice cubes in a plastic bag and wrap it with a thin towel before applying to your injury. For difficult-to-reach injuries, a cold pack works best.

C - Compression
Wrap the injury with an elastic (Ace) bandage or compression sleeve to immobilize and compress the sprain. Don’t wrap it too tightly because this can cause more swelling. Loosen the bandage if it gets too tight. A tightly wrapped sprain may fool you into thinking you can keep using the joint. With or without a wrap, the joint needs total rest for one to two days.

E - Elevation
Elevate the injured area on pillows while you apply ice and anytime you are sitting or lying down. Try to keep the injury at or above the level of your heart to minimize swelling.

• Aspirin, ibuprofen, naproxen, or Orudis may help ease inflammation and pain. Do not use drugs to mask the pain while you continue to use the injured joint. Do not give aspirin to children or teens under age 20. Review aspirin guidelines.
• The use of heat (hot water bottle, warm towel, heating pad) after 48 hours of cold treatments is controversial. Some experts think heat will increase swelling; others think it may speed healing. If you use heat, do not apply anything that is uncomfortably warm.

Begin the MSA process as soon as the initial pain and swelling have subsided. This may be in two days or up to a week or longer, depending on the location and severity of the injury. Once pain and swelling subside, you can slowly resume sports and activities. Any increased pain may be a sign that you need to rest a while longer.

M - Movement
After one to two days of rest, begin moving the joint. Move your joint gently through its full range of motion. If an activity causes pain, stop and give the joint more rest. Gentle stretching will prevent scar tissue (formed as the injury heals) from limiting movement later.

S - Strength
Once the swelling is gone and range of motion is restored, begin gradual efforts to strengthen the injured area. This may require specific exercises.

A - Alternate activities
After the first few days, but while the injured part is still healing, you can begin to phase in regular exercise that does not place strain on the injured part.

Call Kaiser Permanente if . .
• A bone is poking through the skin, or if a limb below the injury is white, cold, or numb.
• You suspect a severe sprain or fracture. After you have stopped weight-bearing activities, splinted the injury, and applied ice, a short delay in receiving professional care will not affect the outcome.
• A sprained joint is very unstable, won’t support your weight, or wobbles from side to side.
• You cannot bear weight on a sprained ankle after 24 hours, or if it hurts to bear weight after three days.
• Pain is still severe after two days of home treatment.
• A sprain does not improve after four days of home treatment.

Other resources
• Connect to our Web site at kp.org to access health and drug encyclopedias, interactive programs, health classes, and much more.
• Contact your Kaiser Permanente Health Education Center or Department for health information, programs, and other resources.

This information is not intended to diagnose health problems or to take the place of medical advice or care you receive from your physician or other health care professional. If you have persistent health problems, or if you have additional questions, please consult with your doctor. If you have questions or need more information about your medication, please speak to your pharmacist. Kaiser Permanente does not endorse the medications or products mentioned. Any trade names listed are for easy identification only.

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