

Running and jogging - preventing injury

About one in every three recreational runners will have a running-related injury at some stage in their life. Roughly three out of every four running-related injuries occur in the lower leg. Common sites include the knee, ankle, shin and foot. Runners are also likely to experience back and groin injuries.

Running does have a risk of injury but if you follow some simple guidelines like warming up, wearing the right clothes and not pushing yourself too hard, most injuries can be prevented.

Common injuries

Common injuries include:

- **Blisters** – caused by the foot sliding or rubbing inside the shoe.
- **Shin pain** – pain and inflammation in the muscles and tendons that run the length of the shin.
- **Soft tissue injuries** – such as a pulled muscle or ligament sprain.
- **Skin injuries** – such as sunburn and bruises. Falling over while running or jogging can cause cuts and abrasions.

Risk factors

Some of the factors that can increase your risk of injury include:

- **Overtraining** – running beyond your current level of fitness can put muscles, tendons and ligaments under strain. Shin pain is a common overuse injury in runners.
- **Incorrect technique** – poor running style can increase the risk of injuries. For example, running flat-footed pulls on the shin muscles and may cause small tears.
- **Incorrect shoes** – the wrong type of shoe can increase the risk of various injuries including blisters and shin pain.
- **Incorrect clothing** – wearing the wrong clothes can contribute to overheating, sunburn or cold injuries.
- **Hard surfaces** – the impact of running on hard surfaces, such as bitumen, can cause injuries including shin pain and stress fractures.
- **Other environmental factors** – such as running surfaces that are too loose and unstable (for example, sand), polluted air, environmental obstacles such as low-hanging tree branches, or sunburn.

General health suggestions

Some tips to help prevent injuries include:

- Warm up before running. Include plenty of slow and sustained stretches. Make sure you thoroughly stretch the muscles in your thighs and calves.
- Cool down after running. Incorporate stretches into your cool-down routine.
- Drink plenty of water before, during and after your run.
- Don't push too hard beyond your current level of fitness. Plan to gradually increase how long and how often you run over a few months.
- Start slowly at a pace at which you can have a conversation without breathlessness.
- Avoid running during the hottest part of the day in summer. Plan to run during the morning or evening.
- Apply SPF 30+ sunscreen to all exposed areas of skin.

- Wear layers of clothing on your upper body to avoid overheating. Wear loose cotton clothing.
- Consider having regular professional massage to relax tight, sore muscles.
- Avoid running near roads. Inhaling vehicle exhaust fumes can cause a range of breathing-related (respiratory) problems.
- Run on a clear, smooth, even and reasonably soft surface. Avoid uneven surfaces, sand and concrete.
- Gradually introduce surface changes.

Don't wear regular sneakers when running. Professionally fitted shoes designed for running will support your feet and reduce your risk of injury. Take your old runners with you when purchasing new ones so the salesperson can identify where your shoes wear the most.

Safety tips

Suggestions include:

- Choose well-lit populated routes and avoid dangerous and isolated areas.
- Make sure that drivers can see you if you're running at night. For example, you could wear reflective materials.
- Run with a buddy. If you are running by yourself, tell someone your intended route and when you plan to return.
- Take your mobile phone with you in case of emergencies.
- Don't wear headphones. You need to hear the impending danger of a car horn or dog snarl.

What to do if you injure yourself

Suggestions include:

- Stop running. Trying to 'push through' the pain will only make the injury worse.
- See your doctor promptly for diagnosis and treatment.
- Treat soft tissue injuries such as ligament or muscle sprains with rest, icepacks, compression and elevation (raising the injured area above the level of your heart).
- Do not run again until the injury has completely healed. In the meantime, switch to a low impact form of exercise that doesn't aggravate the injury, such as swimming.
- Ask your doctor, physiotherapist or other health professional for medical advice before you start running again.
- Consider getting advice from an exercise physiologist. They can help you improve your running technique to reduce your risk of injury.

Where to get help

- Your doctor
- Always call triple zero for an ambulance in an emergency Tel. 000
- Sports physician
- Physiotherapist
- Australian Physiotherapy Association Tel. (03) 9092 0888
- Smartplay Tel. (03) 9674 8777
- Sports shoe store – to get an accurate fitting

Things to remember

- While injuries are common for runners, most can be prevented.
- Warm up before running, and incorporate plenty of slow and sustained stretches into your cool-down routine.
- If you injure yourself, ask your doctor, physiotherapist or other health professional for medical advice before returning to running.

This page has been produced in consultation with, and approved by:

Smartplay

Content on this website is provided for education and information purposes only. Information about a therapy, service, product or treatment does not imply endorsement and is not intended to replace advice from your doctor or other registered health professional. Content has been prepared for Victorian residents and wider Australian audiences, and was accurate at the time of publication. Readers should note that, over time, currency and completeness of the information may change. All users are urged to always seek advice from a registered health care professional for diagnosis and answers to their medical questions.

For the latest updates and more information, visit www.betterhealth.vic.gov.au

Copyright © 1999/2012 State of Victoria. Reproduced from the Better Health Channel (www.betterhealth.vic.gov.au) at no cost with permission of the Victorian Minister for Health. Unauthorised reproduction and other uses comprised in the copyright are prohibited without permission.