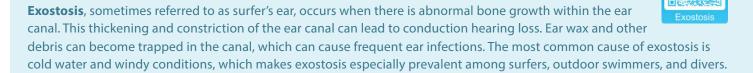




EXOSTOSIS



Exostoses frequently occur in both ears; however, they can grow at different rates. These growths do not resolve on their own; however, it often takes years before they are large enough to cause symptoms and require treatment.

DIAGNOSIS

Exostosis present as small bony lumps within the external ear canal. These lumps are very slow growing and typically take years to develop. They develop as thin layers of bone growth due to the stimulation of cold *water* or *air*.

SYMPTOMS

The normal ear canal is roughly the diameter of a pencil. Symptoms develop when the exostoses grow to the point that the diameter of the canal is substantially reduced. It is most commonly found in people who have a history of cold water exposure. People with no prior water history may also experience these round and bony overgrowths. Osteomas are similar to exostoses, but exist and grow as a single bony overgrowth. Early symptoms of exostosis typically include:

- Water becoming trapped in the ear when swimming
- Increase in ear infections
- Gradual decrease in hearing sensitivity

Some exostoses do not show symptoms but can grow large enough to cause hearing loss or recurrent infections.

TREATMENT

Individuals with small, asymptomatic exostoses typically do not require treatment. Individuals experiencing hearing loss, repeated infections, or pain should consult our ENT specialists regarding surgical removal.

- Medication:
 - **♦** Antibiotic ear drops
- Surgery: Recovery following surgery is usually very quick and typically does not involve time off of work if the surgery is done through the ear canal. Any discomfort can normally be controlled with mild pain medication or ear drops. The doctor may also prescribe antibiotic ear drops to prevent infection and to keep the medicated pack moist. Following surgery, the patient should avoid exposing the ear to cold water for two to six weeks to prevent infection and complications. Most patients experience favorable outcomes following surgery for exostoses. Continued exposure to cold water will stimulate the regrowth of the exostoses, which could require revision surgery, so patients should use ear plugs after surgery.

HOW TO PREVENT SURFER'S EAR?

The availability of better wet and dry suit protection allows individuals to swim and dive in much colder waters. This has

Pacific Neuroscience Institute | 310-829-8701 Playa Vista | 424-443-5530 Saint John's Medical Plaza | 310-829-7792 Torrance | 310-829-7792 **Brentwood** | 310-477-5558 11645 Wilshire Blvd. Suite 600 Los Angeles, CA 90025





EXOSTOSIS

led to an increase in the frequency and severity of surfer's ear. In fact, cold water surfers develop exostoses at a **600** percent higher rate than those who surf or swim in warm water.

If you participate in these activities, you can reduce your risk of developing exostoses by taking the following precautions:

- Use custom ear plugs and wear a swim cap or hood
- Avoid swimming, diving, or surfing in very cold and windy conditions
- Avoid getting in the water with an active ear infection
- Dry the ears before swimming
- Keep ears as dry as possible

A dry ear is unlikely to become infection, so it is important to keep the ear free from moisture. The safest way to dry your ears is with a hair dryer. Q-tip should not be used, because they may pack material deeper into the ear canal, remove protective earwax, and irritate the thin skin of the ear canal which can all lead to an infection.