

Superior Canal Dehiscence

Melissa Bloom PT DPT NCS and Sarah McDowell PT DPT NCS

Patient Fact Sheet

Produced by



A Special Interest Group of



Contact us:

ANPT

Phone: 952.646.2038

info@neuropt.org

www.neuropt.org

a component of



What is Superior Canal Dehiscence (SCD)?

SCD is a syndrome caused by an abnormal opening of the bone on top of the superior canal of the inner ear. The opening lets sound and pressure changes influence the inner ear. This means that you may have vertigo or imbalance around loud noises or when performing an activity that causes a pressure change inside of the ear. Other symptoms may include hearing your own body sounds such as hearing your heartbeat, loud foot-steps, or even movement of your eyes. The following activities may bring on symptoms: lifting (everyday items or weights), straining, bending over, popping ears, nose blowing, air travel, elevators, scuba diving, loud noises, coughing, and sneezing.

How is a Diagnosis Made?

Your ENT will take a history of your symptoms and then likely will complete a hearing test (audiogram). More specialized testing, called a VEMP, as well as tests that change the pressure in your ears may also be performed. You may be sent out for a CT scan to get an image of the ear.

What is the Treatment for SCD?

SCD will probably not heal by itself, so you will have two choices: surgery or avoid the activities that make you dizzy. Avoiding certain activities can be a good option, unless you are debilitated by your symptoms. In that case, surgical plugging of the canal may decrease or get rid of your symptoms. Medicine can reduce symptoms; however, this is usually not as helpful. Special ear plugs may also help with your symptoms. You should talk with your physician about medical and surgical options available to you.

How can Physical Therapy (PT) Help?

Since SCD is caused by a bone problem, PT cannot heal SCD, or stop the dizziness and vertigo. PT can improve your balance, unsteadiness, and difficulties with walking. A physical therapist can also advise you about ways to avoid activities that bring on your vertigo and dizziness. If you do have a canal plugging surgery, then PT may be useful to help address possible dizziness or imbalance following the surgery.

Reference

Chilvers G, McKay-Davies I. Recent advances in superior semicircular canal dehiscence syndrome. *J Laryngol Otol.* 2015 Mar; 129(3):217-25.