



## **Cracked Teeth**

### **How Do We Get Them? How Do We Treat Them?**

When you bit down, you feel a sharp pain. It quickly disappears, and perhaps you ignore it. You avoid certain foods or chew only on one side of your mouth. Does this sound familiar? If so, you may have a cracked tooth.

#### **What Causes A Tooth To Crack?**

A tooth may crack due to a variety of factors:

- ❖ Chewing on hard objects or foods such as ice, nuts, hard candy or popcorn kernels
- ❖ An accident, such as a blow to the mouth
- ❖ Uneven chewing pressure
- ❖ Stress on a tooth or abnormal teeth grinding
- ❖ Loss of a significant portion of tooth structure through wear, large fillings or other restoration which may weaken the tooth structure
- ❖ Exposure of tooth enamel to temperature extremes, such as eating hot food and then drinking ice water
- ❖ Brittleness of teeth that have undergone endodontic (root canal) treatment.

#### **How Can You Tell If A Tooth Is Cracked?**

It could be difficult. You may not even be able to tell which tooth hurts or whether the pain is from an upper or lower tooth. A crack may appear as a hairline fracture, running vertically along the tooth. It often is invisible to the eye and may not show even on an X-ray.

You can help your dentist determine which tooth is causing the problem by noting when and where you have sensitivity to heat or cold and to sweet, sour or sticky food, as well as approximately where the pain is when you are chewing. The dentist may ask you to bite down on an instrument specifically designed to diagnose fractured teeth. This instrument allows your dentist to direct bite pressure to one specific area of a molar. While bringing down and releasing the bite pressure, you may experience some discomfort or pain sensation. This is due to the movement of the fractured tooth that irritates the nerves of the tooth. This pain response helps the dentist pinpoint the specific tooth and cusp that is fractured. Upon further examination, your dentist will recommend a course of treatment best suitable for you.

#### **Why Does A Cracked Tooth Hurt?**

A cracked tooth may hurt because the pressure of biting causes the crack to open. When you stop biting, the pressure is released and a sharp pain results as the crack quickly closes.

Even though the crack may be microscopic, when it opens, the pulp inside the tooth may become irritated. The pulp is a soft tissue that contains the tooth's nerves and blood vessels. If the crack irritates the pulp, the tooth may become sensitive to temperature extremes. If the pulp becomes damaged or diseased as a result of the crack, root canal treatment may be necessary to save the tooth.

#### **How Is A Cracked Tooth Treated?**

Tiny cracks are common and usually do not cause problems. Regular dental checkups are important. They allow your dentist to diagnose and treat problems in the early stage. If you continue to have pain, avoid chewing on that side of your mouth and call your dentist.

There are different types of fractures. Treatment will depend upon the type of fracture, the location of the fracture and the severity of the fracture. Depending on the size and location of the crack, treatment may vary from bonding to root canal treatment. A severely cracked tooth may need extraction. Alternative treatment may be recommended for minor fractures diagnosed in the early stages. Your dentist will determine the best treatment for you.