repeated daily to detect progression of involvement. This test may have to be disease

### Prognosis

"When can I expect recovery to begin" can physician. may become clear and the second question. the most likely cause of facial nerve disorder be answered. This will be discussed by your After the evaluation has been completed,

### Treatment

spontaneously. Occasionally, however, recovery is often of value. to maintain muscle tone during nerve treatment may be necessary. Physical therapy medical physical therapy or surgical specific treatment. Many will recover Not all facial nerve problems require

be protected from this complication. paralysis is an ulcer of the cornea (the clear develop as a result of total facial nerve important that the eye on the involved side covering) of the eye. Therefore, it is most The most serious complication that may

Facial Nerve Problems

is not injured. should use the back of your finger rather than effective way of keeping the eye moist. You the tip in doing this, to insure that your eye Closing the eye with the finger is an

dust becoming lodged in the eye. outside. This will help to prevent particles of Glasses should be worn whenever you are

in the affected eye every hour while you are as often as necessary to keep your eye moist use artificial tears. The drops should be used awake, and placing ointment in your eye at This may require placing one or two drops bedtime. If the eye is dry, you may be advised to

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# FACIAL NERVE PROBLEMS

Twitching, weakness or paralysis of the face is a symptom of some disorder involving the faci I nerve. It is not a disease in itself. The disorder may be caused by many different diseases, including infection, injury or treatment.

### Function of the Facial Nerve

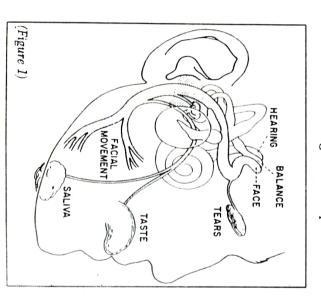
disrupted. A disorder of the facial nerve may when the fibers of the facial nerve are transmits taste fibers from the front of the appear as spasms or twitching of the face abnormal movements of the facial muscles or in disturbance of taste. the face, in dryness of the eye or the mouth, result in twitching, weakness, or paralysis of is so complex many symptoms may occur tongue. Since the function of the facial nerve bone in the middle ear (the stapes), and the saliva glands, to the muscle of a small carries nerve impulses to the tear glands, to impulses to the muscles of the face, but also The facial nerve not only carries nerve noted. If these nerve fibers are irritated then nerve are interrupted, facial weakness is individual nerve fibers that make up the facial expression". When half or more of the frown, hence the name, "the nerve of facial this nerve allows us to laugh, cry, smile or to a specific facial muscle. Acting as a unit, fibers. Each fiber carries electrical impulses cable and contains 7000 individual nerve The facial nerve resembles a telephone

An otolaryngology-head and neck surgeon is called upon to manage facial nerve problems because of the close association of this nerve with the ear structures (Figure 1). After leaving the brain the facial nerve enters the temporal bone (ear bone) through a small bony tube (the internal auditory canal) in very close association with the hearing and balance

> nerves. Along its inch-and a half course through a small bony canal in the temporal bone the facial nerve winds around the three middle ear bones, in back of the eardrum and then through the mastoid (the bony area behind the part of the ear which is visible). After the facial nerve leaves the mastoid it divides again into many branches which supply the various facial muscles. The facial nerve gives off many branches as it courses through the temporal bone : to the tear gland, to the stapes muscle, to the tongue, and, to the saliva glands. (See figure below.) **Diagnosis, Prognosis and Treatment of**

## Facial Nerve Disorders

The three questions most often asked by the patient with a problem in facial nerve function are : (1) What is the cause ? (Diagnosis), (2) When can I expect recovery ? (Prognosis), and (3) What can be done to bring about recovery at the earliest possible moment ? (Treatment). In order to answer these three questions the otolaryngologyhead and neck surgeon must perform an



extensive evaluation of each patient to determine the cause of the disorder and to attempt to localize the area of the facial nerve which is involved as well so that the best treatment can be prescribed.

### Diagnosis

The most common cause of facial weakness which comes on suddenly is referred to as "Bell's plasy". This disorder is thought to be due to the body's response to a particular virus: in reaction to the virus the facial nerve within the ear bone swells and this pressure on the nerve in the bony canal damages it. In order to be sure that this is the cause of the facial weakness, and that it is not due to some rare cause or other disease, a special set of questions will be asked. The patient will be examined and a series of tests may be performed. The most common tests are :

*Hearing Test* : Tests of hearing are done to determine if the damage to the nerve has involved the delicate hearing mechanism. *Balance Test* : Balance tests may be needed to determine if the balance nerve is involved. *Tear Test* : A test of the eye's ability to produce tears may help the physician to determine the location and severity of facial nerve disease.

*Taste Test :* A test of taste may be beneficial in localizing the area of the facial nerve which is affected.

Salivation Test : A test to measure the flow of saliva may be administered; this test may help to predict the location and severity of facial nerve involvement.

X-rays: X-rays may be obtained to determine if there is infection, tumor, bone fracture or other abnormality in the area where the facial nerve lies.

*Electrical Test* : The facial nerve is stimulated in some cases to determine the severity of