Glossopharyngeal neuralgia resembles trigeminal neuralgia in many respects but is much less common. Sometimes it involves portions of the tenth (vagus) nerve. The pain is intense and paroxysmal; it originates on one side of the throat, approximately in the tonsillar fossa. In some cases, the pain is localized in the ear or may radiate from the throat to the ear because of involvement of the tympanic branch of the glossopharyngeal nerve. Spasms of pain may be initiated by swallowing or coughing. There is no demonstrable motor or sensory deficit. Cardiac symptoms—bradycardia or asystole, hypotension, and fainting—have been reported. Glossopharyngeal neuralgia can result from vascular compression, MS, or tumors, but many cases are idiopathic. Medical therapy is similar to that for trigeminal neuralgia, and carbamazepine is generally the first choice. If drug therapy is unsuccessful, surgical procedures—including microvascular decompression if vascular compression is evident—or rhizotomy of glossopharyngeal and vagal fibers in the jugular bulb is frequently successful.