independent risk factor for development of stroke. Using a medical record linkage system to the Rochester

has evaluated surgery and anesthesia alone as a possible

Epidemiology Project, Wong et al. retrieved records of 1,455 people who had an incident (first-time) of isch-

emic stroke from 1960 to 1984. An equal number of age-and gender-matched controls were identified from the same database. With the additional usage of the Mayo Surgical Information Retrieval System, the team then identified all stroke cases in which surgery with either general anesthesia or central neuroaxis blockade had been performed within 1 yr before the stroke date. A conditional logistic regression model was used to estimate the odds of stroke after surgery and general anesthesia. The team identified 59 patients and 17 controls who underwent surgery within 30 days before their stroke or index date. After adjusting for previously iden-

The risk of perioperative ischemic stroke was increased even after general, non-high-risk surgeries. The mechanisms underlying this increased risk, of course, require further investigation.

tified risk factors (male gender, cigarette smoking, his-

tory of transient ischemic attacks, among others) the

team found that undergoing surgery 30 days before the

index date was an independent risk factor for stroke.

Limited to Perioperative Setting. Warner et al. (page 613)

Development of Ulnar Neuropathy Not

In an attempt to determine the underlying causes of ulnar neuropathy, Warner et al. previously described 7 of 1502 prospectively studied surgical patients who reported onset of symptoms 2-7 days after their procedures. In the current issue, the team describes two patients from a prospective study of ulnar neuropathy in patients admitted to the hospital for nonsurgical condi-

tions. Ulnar neuropathy was defined as current symptoms of paresthesia in the ulnar distribution, signs of abnormal two-point discrimination in the volar surface of the distal fifth digit, or weakness of the first dorsal interosseous and abductor digiti minimi muscles. Patients with current symptoms or preexisting ulnar neuropathy were excluded from the study. A specially trained research assistant performed a stan-

dardized daily baseline neurologic assessment of the upper extremities in all study participants while they were in the hospital. Those discharged before 7 days were interviewed by phone using a standardized guestionnaire. Two of the study's 986 patients had all lar neuropathy. Patient 1 was a 55-yr-old man with a 6-month history of recurrent disseminated aspergillosis

who was admitted for intravenous antifungal the appy,

who experienced intermittent tingling in the fourth and

fifth digits of his right hand on the third hospital da\. By

the fifth day, tingling had become constant and was

accompanied by a burning dysesthesia when his elbow

was flexed greater than 90°. His symptoms improved

gradually and completely resolved over the next 6

months. Patient 2 was a 67-yr-old man with severe gron-

chiectasis admitted for treatment of recurrent Ps@ido-

monas pneumonia with intravenous antibiotics and respiratory therapy, in whom developed tingling and aching in the fourth and fifth digits of his left hand on the fourth hospital day. By the sixth day, he also had semptoms in his right hand, which resolved within 2 weeks. Symptoms in his left hand, however, persisted for 8 months. The authors posit that factors common to medica and postoperative patients may contribute to the development of ulnar neuropathy. Specifically, male gendegand prolonged periods of bed rest in the supine postion seem to increase risk. When lying in a hospital bed, patients tend to bend their elbows and rest their lands

on the upper abdomen or chest, thus increasing pres-

sure on the ulnar nerve. Anatomic differences at the

elbow, i.e., larger tubercle of the coronoid process and

less fatty tissue over the medial aspect, may explain why

this condition is more likely to develop in men than in

women.

Gretchen Henkel