

blood, the right extending up to the middle of the manubrium sterni. There is considerable hypertrophy of the ventricular walls, the left measuring 2.5 cm. and the right 1 cm. in thickness. The myocardium is of normal colour and of firm consistence. The aortic, mitral and tricuspid valves measure 8 cm., 10 cm., and 11 cm., respectively. Their cusps are considerably sclerosed, and on the former two are a few small recent vegetations. The coronary arteries are normal.

The left shoulder joint contains a small amount of very slightly turbid fluid, but the synovial membranes appear normal.

*Bacteriological Report.*—Cultures made at autopsy from the heart's blood and the left shoulder joint, reveal the pneumococcus described below.

*Case IV.—Clinical Summary.*—Growing pains from 9 to 12 years of age. At 12 years of age had chorea. The present illness began with transient hemiplegia. 3rd day, probable broncho-pneumonia. 9th day, arthritis. Death occurred on the 10th day.

G. M. Female. Age 13. Service of Dr. Finley. Was admitted to the General Hospital, March 12, 1909, complaining of pain in the right side of chest, and cough.

*Personal History.*—She was born in Montreal and has always lived here. At 9 years of age she had measles, and for 3 years afterwards she had "growing pains," but never had a "sore throat" or swelling of the joints.

When 12 years of age she was 10 weeks in the Montreal General Hospital with chorea.

After leaving the hospital she was well for a few months, and then began to have pains in her legs and arms. She went to bed for two weeks, after which she felt better. Later on she was again in bed three weeks with pains in the arms and legs, and for several weeks before the present illness this pain was almost continuous. She perspired profusely at night, but does not think her joints were swollen, and she had no precordial pain.

The present illness began 5 days before admission, when the patient had a transient hemiplegia involving the left arm, the left leg and the right side of the face, lasting about one hour. During this time and the following day she had a severe headache.

Three days after the above onset, she began to have a dry harsh cough. She had a severe chill, lasting 10 minutes, followed by pain in her right side. She perspired profusely. The appetite, however, was good and the bowels regular.

*Present Condition.*—She is found to be a fairly well developed but