

typhoid serum, the reaction being as a rule well marked within 15 minutes. With non-typhoid bleeding serum solutions, the same test cultures give no reaction even after 24 or 48 hours contact. Intra-peritoneal injection of 1 c. c. of such living bouillon culture produces in guinea pigs a marked blood reaction and immunity without much disturbance of health. We find that the best results in cases of dried blood are obtained with cultures where the motion as seen under the microscope is of a rapid gliding character, but free from darting movements. If the movement is sluggish owing to too great attenuation of the culture, a few daily transplantations at body temperature will make it more active. Exact estimation of the degree of dilution has not been found necessary for ordinary diagnostic work when attenuated cultures are used. A very faint tint in the drop examined usually indicates sufficient strength. The solution should not be thick and viscid.

All the results which I have reported (*N. Y. Medical Journal*, Oct. 31, 1896, and *British Medical Journal*, Dec. 5, 1896) were obtained with attenuated cultures. A report giving some additional technical details has been prepared, and can be sent to any who desire further information.

I remain, yours respectfully,

WYATT JOHNSTON,

*Bacteriologist to the Board of Health Province Quebec.*

**ASSOCIATED PHYSICIANS AND SURGEONS OF  
SANTA CLARA VALLEY.**

San José, Cal., Dec. 18th, 1896.

Dear Sir,

We ask you to give publicity to this letter and accompanying resolutions, to the end that in all communities afflicted with the pestiferous practice of lodge doctoring, physicians may be encouraged to assert their independence through organization.

Here, in Santa Clara County, Cal., containing 70,000 population, all the physicians of the County, numbering 124, have entered the compact that has ridden us of a slavish evil, and wrought independence and freedom for the practitioners of medicine. Investigation shows that medical compensation for lodge work averages about 15 cents on the dollar.