## MEHORANDUM

203

Mr. Roonsun

SUBJECT: Material for "Gousson Health"

PROMS

Dr. Hinton

DATES

Hovember 19, 1953

Enclosed places find the information which I understand is intended for publication in "Common Health." After you have read it I shall be happy to charify any points which are not clear or otherwise change it to make it more muitable for publication.

The Wassermann Laboratory was first established as an activity of the Department of Neuro-Pathology at the Harvard Medical School under the direction of Dr. Elmer E. Scuthard, who as Pathologist of the Massachusetts Department of Mental Diseases, saw the need for Massarmann tests as an aid in the diagnosis of mental diseases. In 1915 Dr. Allen J. Melaughlin, Massachusetts' first Commissioner of Public Health, realized the important role that syphilis played in the health of the citizens of the Commencealth and sponsored logislation whereby tests for this disease were made available to all citizens of the State without charge.

Dr. McLauchlin selected Dr. William A. Hinton to direct the Laboratory on a half-time basis. Dr. Winton was particularly well fitted for this position as he had been togething the Vessersonn technique in the Decertment of Neuro-Pathology at Harvard Medical School since 1912. He also had been trained in the clinical aspects of the disease under Doctors Abner Post, G. Morton Smith, and Dr. E. Laurence Chiver, all members of the medical staff of the Massachusetts Conoral Hospital and each was a leading American sychilologist of that time. He was also trained under Dr. J. Homer Wright, Director of the Pathological Laboratory at Massachusetts Conoral Hospital on the pathological aspects of the disease. During the three years spent at the Massachusette Coneral Hospital he was asked to perform autopsies on all persons, adults and infants, known to have or suspected of having syphilis; moreover, he participated in research on cultivation of Traponema pullidum and its offects on rabbits inculated with this parasite. This training had created in him an interest in every aspect of syphilis and in the individual syphilitie. This last interest, but by no namer of means the least important interest, grow out of the aid rendered by the Secial Sarvice personnel of the Syphilis Department. His special luterest, however, was in the laboratory aspects of the disease.

After his appointment as Head of the Laboratory Department of the Boston Dispensary he had abundant apportunity to study both generative and symills since the Boston Dispensary had one of the largest veneral disease elimies in New England. Also, for a number of years he directed the netivities of the Wassermann Laboratory of the Boter Bent Brigham Hospital where he was able to observe both in-patients and out-patients and correlate the results of serologic tests with the clinical manifestations and the treatment of patients infected with syphilis. This was done largely during weekly conferences with the medical residents (assigned to the syphilis clinic) on cases which had been unusually well studied both by clinical examination and laboratory tests. This was regarded as experience probably unsucelled in America.

From the very beginning experimental work on the serology of syphilis was almost continuously a part of the activities of the laboratory. In 1919 an intractate evaluation of laboratories was started and a paper was published on a "Standardized Massermann Technique" for State Approved Massermann Laboratories: so far as known the first expended evaluation program carried on in this country. As a result of researches carried on in the Massermann Laboratory "A Clycorel Chelesterel Agglutination Test" was devised in 1927. It was entensively used by the late Dr. Tracy Mallery of the Massachusetts Coneral Maspital who suggested that it be called the Minten test and that it be adopted officially by the Massachusetts Coneral Mespital. It was later medified and adopted by the Massachusetts Department of Public Mealth on April 1, 1934. Since 1936 evaluations of serologic tests for syphilis have been conducted by the United States Public Mealth Service, and the results show that the Minten test with one exception has been pore sensitive and just as specific as any of the se-called "approved" tests used in this country.

Inastuch as there was a great need for collecting small amounts of blood from babies, Dr. John A.V. Davies of the Children's Hospital worked at the laboratory and devised the Davies-Hinton micro test. It is now used by all of the large pediatric clinics in the State. The Davies-Hinton test for spinal fluids was also devised in this laboratory and is now the routine procedure.

An intergration of the knowledge gained by many years of study of syphilis as a clinical entity, as a pathological entity, and as a comind disease resulted in the publication in 1936 of a book "Syphilis and its Treatment."

There has always been considerable controversy as to the purposes of serologic tests for syphilis. Experience has shown that they serve best as an aid in the detection of this disease, but should not be used as a reliable sign in determining whether or not a patient is infectious. And now important our opinion has been that serologic tests for syphilis whether qualitative or quantitative are no reliable aid in determining the effect of treatment. There is a growing number of physicians who now share this opinion which is illustrated by the fact that they believe the duration of the infection, the nature and site of the lesion or lesions, and the kind and amount of treatment are the really important factors. These physicians do not hesitate to stop treatment even though the blood test has remained positive, nor do they always regard a patient is cured even if his blood has become negative.

Even the beginning the tests have always been reported as positive, doubtful, and negative, a method recommended by the United States Public Health Sorvice, although many thought the degree of positivity should be reported. Experience had shown that the titer would be of little value and could cause a great deal of confusion so the original rethod of reporting was never changed. A strongly positive, a moderately positive, nor a wealdy positive are not reliable oritoria for judging the severity of the disease nor for that matter any other characteristic of the disease.

In 1915 when the laboratory started about 100 tests were performed daily. Now approximately 2,000 specimens of blood and spinal fluid are tested each day. Total protein and globulin tests are also performed on specimens of spinal fluid. Since 1916 examination of animal heads for rabies, complement fixation tests for glandars and agglutination tests for Dang's disease were performed in this laboratory for the Division of Livestock Disease Control. However, the serologic tests for syphilis comprise 93% of the activities.

When promortal and present laws together with regulations pertaining to blood donors were passed it was necessary to evaluate the performance of laboratories wishing to be approved to do serologic tests for syphilis. In the beginning less than 10 laboratories were evaluated, but now this program has expended so that 117 laboratories are participating.

Teaching has always been an important function of the Laboratory, particularly since its director was also Professor of Clinical Eactoriology and Immunology at the Harvard Medical School, taught in the Marvard School of Public Health, Simmons College, and Tufts College Medical and Dental School.

Dr. Hinton, who has directed this Laboratory under State auspices since July, 1915, will retire on Docamber 31, 1953 efter 382 years of service.