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Responsible Investigators: Andrew H. Dowdy, M.D., Professor of Radiology and Chairman of the Department of Radiology, UCLA School of Medicine; Albert W. Bellamy, Ph.D., Professor of Bio-Physics UCLA School of Medicine; George C. Hall, M.D., Director, Tumor Control Center, Veterans Administration and Assistant Clinical Professor of Radiology UCLA School of Medicine; Harry S. Penn, M.D., Associate Clinical Professor Radiology UCLA School of Medicine.

University Department: Radiology
Financial Support 1954-55: Lederle Company \$30,000.00;
 V. A. \$10,000.00; Trattner Fund \$10,000.00.

Title of Project: The Clinical Sero-flocculation Reaction in Health and Disease.

The sero-flocculation reaction as developed by H. S. Penn, M.D., measures both qualitatively and quantitatively a difference in the sera from normal individuals as contrasted with the sera of individuals suffering from various diseases. Of the various chronic diseases which have been studied by our group, the reaction is more frequently and persistently positive and is found to a greater degree in the sera from patients with untreated invasive cancer than it is in the sera from patients with other diseases.

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Dowdy et al. ²

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A current study of benign and malignant gastric ulcers indicates 1) the sera from patients with benign gastric ulcers is usually negative at serum dilutions of 1:12; 2) the sera from patients with gastric cancer is usually positive at serum dilutions of 1:12 or higher; 3) on medical treatment as the benign ulcer heals, the reaction becomes negative. In patients with gastric cancer on medical treatment the reaction remains positive and the titre remains high or even increases. This study along with the study of other diseases will be continued.

Correlation studies on the sero-flocculation reaction are now underway in a number of other institutions throughout the country under the direction of Dr. John E. Dunn, Jr., Cancer Consultant, National Cancer Institute.

Publications:

Five papers are now in preparation for publication.