simple, and accurate method for indicating hormonal changes during pregnancy and the postpartum period. However, the cause and effect relations between LAPA and sex hormones are not known. An elevated LAPA index was considered a better test for pregnancy than the Rana pipiens or the human chorionic gonadotrophin tests.

Several hypotheses on regulatory mechanisms of LAPA were presented. The gene-dosage hypothesis would account for the abnormalities resulting in trisomy-21 in children and in strains of cultured leukocytes from patients with trisomy-21. Other suggestions on the mechanism of LAPA control included the possibilities of a complex interaction of physiological and genetic determinants, hormonal action on granules of neutrophils, the presence of several types of granulocytes in blood, and a shorter half-life of neutrophils in Down's syndrome.

Leukocyte glucose-6-phosphate dehydrogenase (G6PD), which is sex-linked in man and other animals, is also elevated in Down's syndrome. Three lines of evidence indicate that genetic control of G6PD is the same in leukocytes as erythrocytes.

A monograph containing the 30 papers will be published by the New York Academy of Sciences, the sponsor of this conference.

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**Forthcoming Events**

**March**


10-11. National Conf. on Rural Health, Charlotte, N.C. (B. L. Bible, Secretary, American Medical Assoc., 535 N. Dearborn St., Chicago, Ill. 60610)


12. Mental Depression, symp., Washington, D.C. (Dr. Z. M. Lebovson, 2431 K St., NW, Suite 215, Washington, D.C. 20037)

13-14. Astronautics, symp., Ottawa, Ont., Canada. (The Secretary, Canadian Aeronautics and Space Inst., 77 Metcalfe St., Ottawa 4, Ont.)


