
BRIEF NOTE

Hemoglobin J in a Healthy Hawaiian-Chinese-Caucasian Male

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HEMOGLOBIN J has been reported in Negroes,¹ Algerians,² Indonesians,^{3,4} a Gujerati Indian,⁵ a French-Canadian,⁶ Lohana Indians,⁷ Chinese in Singapore,⁸ and in an American Caucasian-Negro.⁹ In this report the occurrence of hemoglobin J in a healthy 27 year old Hawaiian-Chinese-Caucasian male is briefly presented.

CASE REPORT

In a recent paper electrophoretic survey of hemoglobin types of 3000 healthy blood donors conducted in Hawaii, one specimen exhibited a pathologic component migrating faster than normal hemoglobin. Comparison of this specimen with known hemoglobin J⁹ revealed the abnormal hemoglobin to have identical mobility with hemoglobin J in alkaline and acid pH buffers (figs. 1 and 2). In Amberlite IRC-50 chromatography, no separation

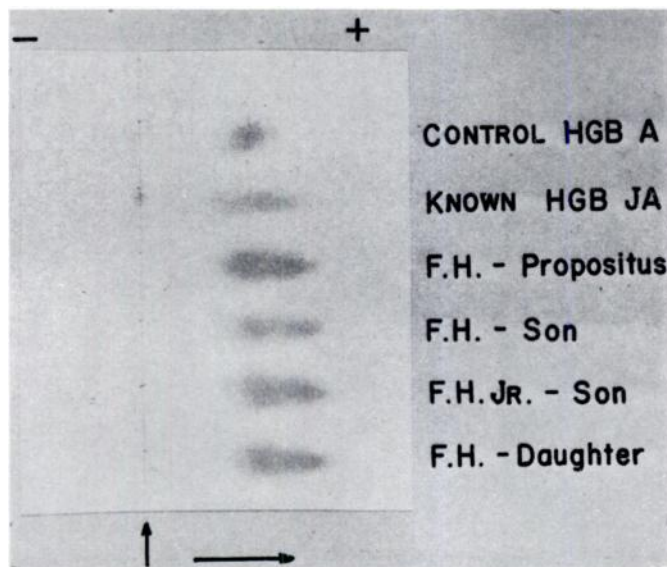


Fig. 1.—Paper electrophoretic pattern of hemoglobin from the propositus, 3 affected offspring, known hemoglobin J, and a normal person. Barbitol buffer (Veronal), pH 8.8, 0.06 ionic concentration.

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42 per cent of the total hemoglobin in the propositus and from 30 to 35 per cent of the total hemoglobin in the offsprings. Fetal hemoglobin was less than 1 per cent in the propositus and offsprings (alkali denaturation method). The red cell survival time of the propositus as determined by following the survival time of his erythrocytes tagged with radioactive chromium in a healthy recipient (M. T. Y.) was normal (half-life, 33 days).

SUMMARY

Hemoglobin J is reported in a 27 year old healthy adult Hawaiian-Chinese-Caucasian male and 3 of his offspring. All were healthy and displayed no hematologic disturbances except for the youngest offspring, who exhibited mild nutritional iron deficiency anemia.

SUMMARIO IN INTERLINGUA

Es reportate le constatacion de hemoglobina J in un masculo normal de 27 annos de etate de racia hawaian-chinese-caucasian e 3 de su prole. Omnes esseva in bon stato de sanitate e revelava nulle disturbation hematologic. excepte le plus juvene qui exhibiva leve grados de anemia a deficientia de ferro nutritional.

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