MARRIAGE OF TWO COMPLETE ALBINOS WITH NORMALLY PIGMENTED OFFSPRING*

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ALBINISM is a hereditary defect in melanin anabolism whose simple recessive inheritance appears to be undisputed (Duke-Elder, 1950; Sorsby, 1950; Waardenburg, 1932), so that defective children could be confidently anticipated should two albinos marry. The percentage of albinos in Scotland is about one in 21,000 and they are still rarer in England (Pearson and others, 1911), so that there is considerably less than one in a million chance of two such albinos marrying and the oculist has rare occasion to consider such a veto. Indeed, the only case on record is one among the 675 pedigrees tabled by Pearson and others (1911), and concerns two Fijian Islanders, long since dead, grandparents of an albino (also dead), who were recalled by a chief with a long memory; only two partial albino marriages (in Sierra Leone and the Phillipines) are noted, and subsequent pedigrees examined show no further case.

Case Report

Mr. and Mrs. I., both albinos, met at a partially-sighted school, married, and had three children with normal pigmentation and dark irides. There are no known albinoid relations, as shown in the accompanying pedigree (Fig. 1).

![Pedigree diagram](http://bjo.bmj.com/)

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Mr. F. I., aged 34, generalized albinio, virtually complete, although hair slightly darker than his wife's, pink translucent irides, and albinotic fundi. Vision—Right 6/60 with +1.5 D.S., -3 D.C., 90°; Left 4/60 with +2 D.S., +3 D.C., 90°. Alternating 50° convergent squint with paresis of both external recti and marked rotatory nystagmus.


The first child died after a few hours but was certified by the doctor to be normally pigmented.

Fred I., aged 7, and Pamela I., aged 18 months, have normal pigmentation with dark brown irides (not translucent, as is said to occur in heterozygotes by Waardenburg), normally pigmented fundi, and negligible refractive errors. The boy has vision 6/6 in both eyes.

Fig. 2.—Four members of the I. family.

Although one case of apparent dominant inheritance among generalized albinos in a Negro family (Pipkin and Pipkin, 1942) and two doubtful cases (Pipkin and Pipkin, 1942; Waardenburg, 1932) are quoted, such open violation of the Mendelian laws on three occasions deserves comment and perhaps also congratulations. The parents and their two surviving children are shown in Fig. 2.

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REFERENCES


