

TABLE 14.1. Statistics on sickle-cell genotypes in a Tanzanian population

Genotype	Hb ^A Hb ^A	Hb ^A Hb ^S	Hb ^S Hb ^S	Overall Mean	Variance
Frequency at birth	0.629	0.328	0.043		
Relative survival, G	0.837	1	0	0.855	$V_G = 0.0384$
	Hb ^A		Hb ^S		
Allele frequency	0.793		0.207		
Mean survival	0.871		0.793	0.855	
Average excess	0.016		-0.062	0	
Breeding value, A	0.887	0.809	0.731	0.854	$V_A = 0.0020$
Dominance deviation, D	-0.050	0.191	-0.731	0	$V_D = 0.0364$

Data from Allison A.C. 1956. *Ann. Hum. Genet.* **21**: 67; and Allison A.C. 1965. Population genetics of abnormal haemoglobins and glucose-6-phosphate dehydrogenase deficiency. In *Council for International Organizations for Medical Science Symposium on abnormal haemoglobins in Africa* (ed. J.H.P. Jonxis), pp. 365–391. Blackwell Scientific Publications, Oxford.