

**S1 Table: Coefficient estimates from multivariate logistic (single visit at the time of HbF measurement) and GEE (multiple visits) regression models of malaria in relation to SCD status, HbF level and age for individuals aged  $\geq 5$  years**

Variable	Single visit			Multiple visits		
	OR	95% CI	P-value	OR	95% CI	P-value
<b>HbAA</b>	1			1		
<b>HbAS</b>	0.08	0.01, 0.55	0.011	0.05	0.01, 0.25	<0.001
<b>HbSS</b>	0.01	0.00, 0.07	<0.001	0.05	0.02, 0.13	<0.001
<b>HbF<sup>§</sup></b>	0.36	0.11, 1.18	0.091	0.38	0.14, 1.04	0.061
<b>HbAS*HbF<sup>§</sup></b>	3.32	0.86, 12.79	0.081	3.33	1.19, 9.31	0.022
<b>HbSS*HbF<sup>§</sup></b>	5.53	1.54, 19.83	0.009	3.16	1.13, 8.9	0.029
<b>Age<sup>§</sup></b>	0.59	0.38, 0.94	0.027	0.75	0.61, 0.92	0.005

<sup>§</sup>Transformed by square root