

**Supplementary Table III.** Hb phenotype detection analysis- data per testing centre

Centre	Hb	Sensitivity		Specificity		PPV		NPV	
		TP/ (TP+ FN)	%	TN/ (FP+ TN)	%	TP/ (TP+ FP)	%	TN/ (TN+FN)	%
I	AA	260/260	100	41/41	100	260/260	100	41/41	100
	AS	38/38	100	263/263	100	38/38	100	263/263	100
	SS	3/3	100	298/298	100	3/3	100	298/298	100
II	AA	292/292	100	25/26	96.1	292/293	99.7	25/25	100
	AS	24/25	96	293/293	100	24/24	100	293/294	99.7
	SS	1/1	100	317/317	100	1/1	100	317/317	100
III	AA	317/317	100	28/28	100	317/317	100	28/28	100
	AS	26/26	100	319/319	100	26/26	100	319/319	100
	SS	2/2	100	343/343	100	2/2	100	343/343	100
IV	AA	207/209	99	37/42	88	207/212	97.6	37/39	94.9
	AS	35/40	87.5	209/211	99	35/37	64.6	209/214	97.7
	SS	2/2	100	249/249	100	2/2	100	249/249	100
V	AA	248/248	100	52/52	100	248/248	100	52/52	100
	AS	47/47	100	253/253	100	47/47	100	253/253	100
	SS	5/5	100	295/295	100	5/5	100	295/295	100
VI	AA	184/184	100	23/26	88.5	184/187	98.4	23/23	100
	AS	22/24	91.7	185/185	100	22/22	100	185/187	98.9
	SS	1/2	50	208/208	100	1/1	100	208/209	99.5