

**Table 4 Ability of indices to diagnose iron deficiency anaemia in children with iron deficiency anaemia or alpha-thalassaemias, by descending Youden index**

Index and cut-off	Sensitivity (%)	Specificity (%)	LR (+ve test)	LR (-ve test)	% correctly classified	Youden index
Green-King index > 65	66.7	77.6	2.9	0.4	75.3	44.3
RDW > 14%	88.9	49.2	1.7	0.2	57.8	38.1
England-Fraser index > 0	94.4	32.8	1.4	0.1	45.8	27.2
RDW/RBC ratio > 3.3	61.1	65.7	1.7	0.6	64.7	26.8
Srivastava index > 4.4	47.6	76.2	1.9	0.7	69.7	23.8
RDW index > 220	33.3	68.6	1.0	0.9	61.2	1.9
Shine-Lal index < 1530	0.0	95.5	0.0	1.0	75.3	-4.5
Mentzer index > 13	27.8	43.9	0.5	1.6	40.5	-28.3
RBC > $5 \times 10^{12}/L$	33.3	20.6	0.4	3.2	23.4	-46.1

RBC = red blood cell count; RDW = red blood cell distribution width; LR = likelihood ratio.