

Supplementary Table 1: Diagnosis by different assessment methods and histopathology.

Assessment method	Diagnosis	Histopathological diagnosis		Total
		BN	Non-BN	
Dermoscopy	BN	32	3	35
	Non-BN	8	19	27
RCM	BN	24	4	28
	Non-BN	16	18	34
Dermoscopy+RCM	BN	38	2	40
	Non-BN	2	20	22
Total		40	22	62

BN: Blue nevus; RCM: Reflectance confocal microscopy.

Supplementary Table 2: Evaluation indexes for diagnosibility of different methods.

Assessment method	Sensitivity (%)	Specificity (%)	FPR (%)	FNR (%)	PPV (%)	NPV (%)	Kappa value	Youden index (%)	AUC*
Dermoscopy	80.0	86.4	20.0	13.6	91.4	70.4	0.631	66.4	0.832
RCM	60.0	81.8	40.0	18.2	85.7	55.9	0.372	41.8	0.709
Dermoscopy+RCM	95.0	90.9	5.0	9.1	95.0	90.9	0.822	85.9	0.930

* Comparative results of three AUCs: Dermoscopy vs. RCM, $P=0.0018$; Dermoscopy vs. Both, $P=0.0075$; RCM vs. Both, $P<0.001$. RCM: Reflectance confocal microscopy; FPR: False positive rate; FNR: False-negative rate; PPV: Positive predictive value; NPV: Negative predictive value; AUC: Area under the curves.

Supplementary Table 3: Percentages of malignancy and suggested biopsy of BN by different assessment methods, n (%).

Evaluation Index			Dermoscopy	RCM	RCM+dermoscopy	P
Percentage of malignancy	Benign		31 (77.5)	39 (97.5)	39 (97.5)	0.002
	malignant		9 (22.5)	1 (2.5)	1 (2.5)	
Percentage of suggested biopsy	Yes		15 (37.5)	9 (22.5)	2 (5)	0.001
	No		25 (62.5)	31 (77.5)	38 (95)	

BN: Blue nevus; RCM: Reflectance confocal microscopy.