

Supplementary Table 1. Association between malignant skin lesions and various HFUS features

HFUS feature	Benign lesions (n=793)	Malignant lesions (n=629)	P-value
Layer involvement			<0.001
One layer	710	353	
≥Two layers	83	276	
Growth pattern			<0.001
Nodular	657	169	
Crawling	85	246	
Irregular	51	214	
Surface			<0.001
Flat	424	234	
Convex	320	220	
Concave	4	16	
Irregular	45	159	
Bottom			<0.001
Convex	247	238	
Flat	525	189	
Irregular	21	202	
Margin			<0.001
Well-defined	596	294	
Ill-defined	197	335	
Stratum corneum			<0.001
Normal	642	236	
Abnormal keratosis	140	338	
Detachment of stratum corneum	11	55	
Echogenicity			<0.001
Hypoechoic	652	629	
Hyperechoic	64	0	
Isoechoic	56	0	
Anechoic	21	0	
Internal homogeneity			0.979
Homogeneous	268	213	
Heterogeneous	525	416	
Hyperechogenicity inside the lesion			<0.001
Absent	508	360	
Punctate	109	264	
Strip/Patchy	176	5	
Cystic composition			0.996
Absent	696	552	
Present	97	77	
Posterior acoustic feature			<0.001
Normal	289	382	
Attenuation	150	201	
Enhancement	354	46	
Color Doppler flow signals			<0.001
Absent	478	45	
Present	315	584	
Feeding arteries			<0.001
Absent	779	544	
Present	14	85	

Values are presented as number of lesions unless indicated otherwise.
HFUS, high frequency ultrasound.

Supplementary Table 2. Interobserver reproducibility of HFUS features

HFUS feature	Kappa value	95% CI	Lesions (n)
Layer involvement	0.797	0.628–0.965	200
Growth pattern	0.861	0.730–0.992	200
Surface	0.632	0.456–0.808	200
Bottom	0.775	0.622–0.928	200
Margin	0.755	0.572–0.935	200
Stratum corneum	0.858	0.723–0.993	200
Echogenicity	0.707	0.397–1.000	200
Internal homogeneity	0.780	0.600–0.962	200
Hyperechogenicity inside the lesion	0.795	0.630–0.960	200
Cystic composition	0.834	0.611–1.000	200
Posterior acoustic feature	0.662	0.490–0.834	200
Color Doppler flow signals	0.865	0.683–1.000	200
Feeding arteries	0.752	0.527–0.977	200

HFUS, high frequency ultrasound; CI, confidence interval.