

SUPPLEMENTARY MATERIALS

ISIC Database Details

The 13,000 images from the ISIC¹⁶ database have the following diagnostic categories:

- Actinic Keratosis (2)
- Angiofibroma (1)
- Angioma (13)
- Atypical melanocytic proliferation (13)
- Basal cell carcinoma (33)
- Dermatofibroma (7)
- Lentigo NOS (71)
- Lentigo Simplex (27)
- Lichenoid Keratosis (1)
- Melanoma (1019)
- Nevus (11861)
- Other (10)
- Scar (1)
- Seborrheic Keratosis (419)
- Solar Lentigo (57)
- Squamous Cell Carcinoma (5)
- Unknown (249)

Cases Descriptions and Their Dermoscopy and Hypodermoscopy Images

CASE	PT INITIALS	PATHOLOGY	LOCATION	AID Malignancy Risk Assessment
1	NA	Original mis	R Upper Arm	0.99
		Final mis	R Forearm	0.99
2	TD	Original imm 0.4mm Final imm 0.7 mm	Scalp	0.99
3	BH	Seborrheic keratosis	Right PS T4	0.75
4	SM	Original imm 1.79 mm Final imm 1.85 mm	L Scapula	1
5	LG	Final mis	R Lateral Heel	0.99
6	KG	Original imm Final imm 0.3 mm	vertex of the scalp	0.93
7	CW	Original mis Final: mis with focal imm	right cheek	0.69
8	JR	unequivocal diagnosis of mis	right upper temple, lateral eyebrow	0.99

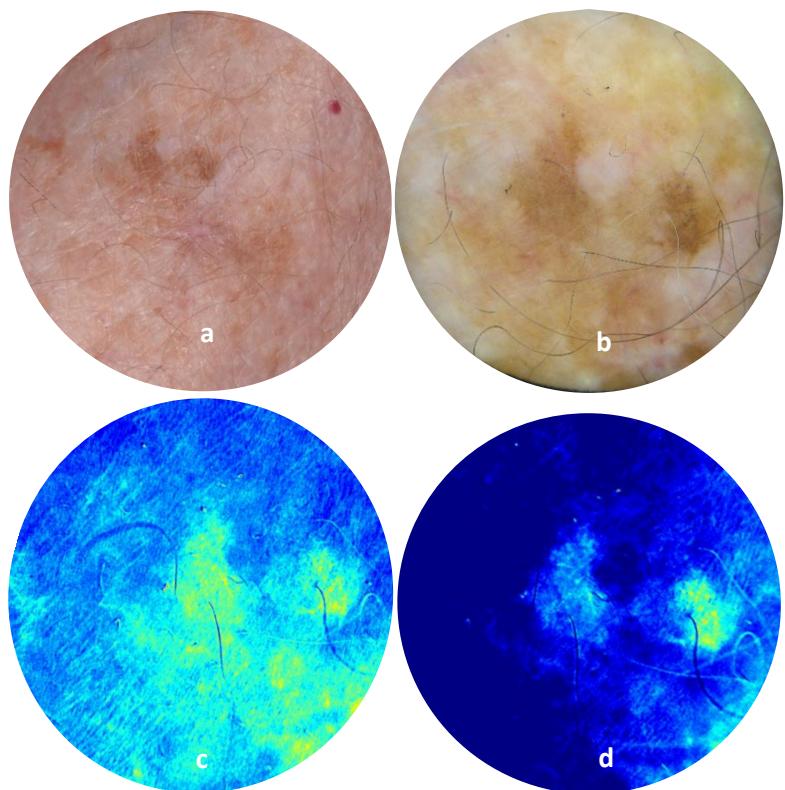


Figure 1. Case 1, right upper arm lesion diagnosed as melanoma in-situ (a) Clinical image, (b) Dermoscopy image, diffusion maps showing (b) sub-surface and (c) deep structures.

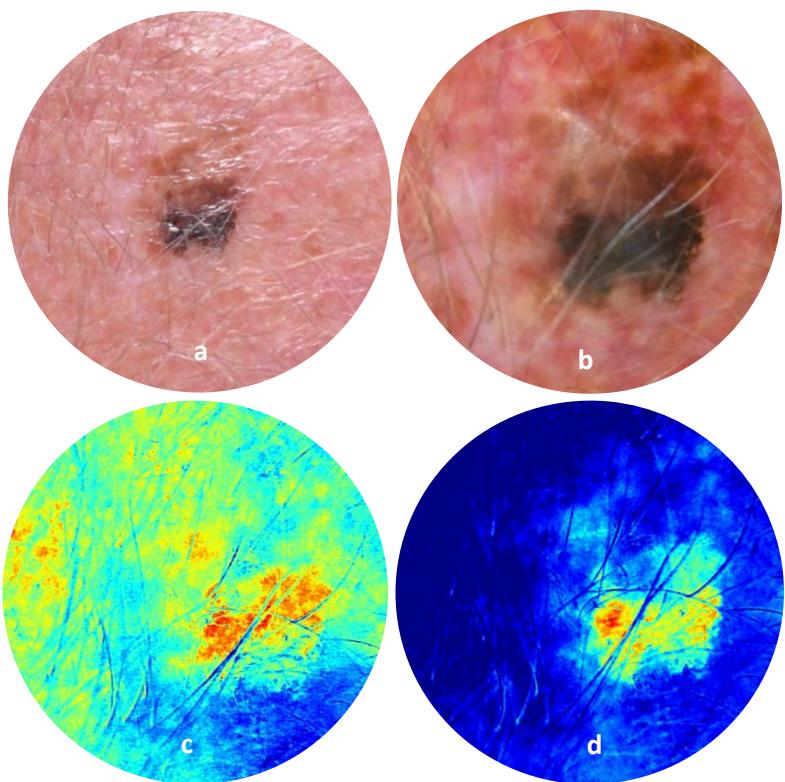


Figure 2. Case 2, Scalp lesion diagnosed as melanoma invasive malignant melenoma (a) Clinical image, (b) Dermoscopy image, diffusion maps showing (b) sub-surface and (c) deep structures.

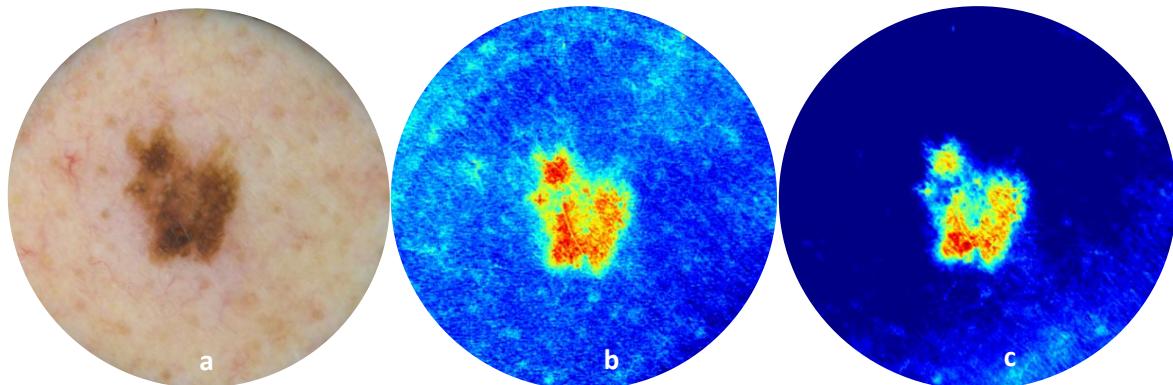


Figure 3. Case 3, lesion diagnosed as seborrheic keratosis (a) Dermoscopy image, diffusion maps showing (b) sub-surface and (c) deep structures.

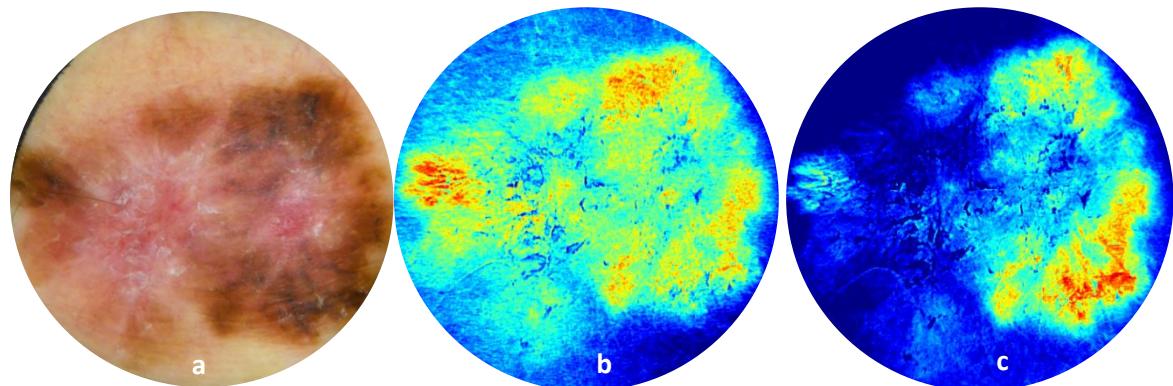


Figure 4. Case 4, lesion diagnosed as invasive malignant melanoma (a) Dermoscopy image, diffusion maps showing (b) sub-surface and (c) deep structures.

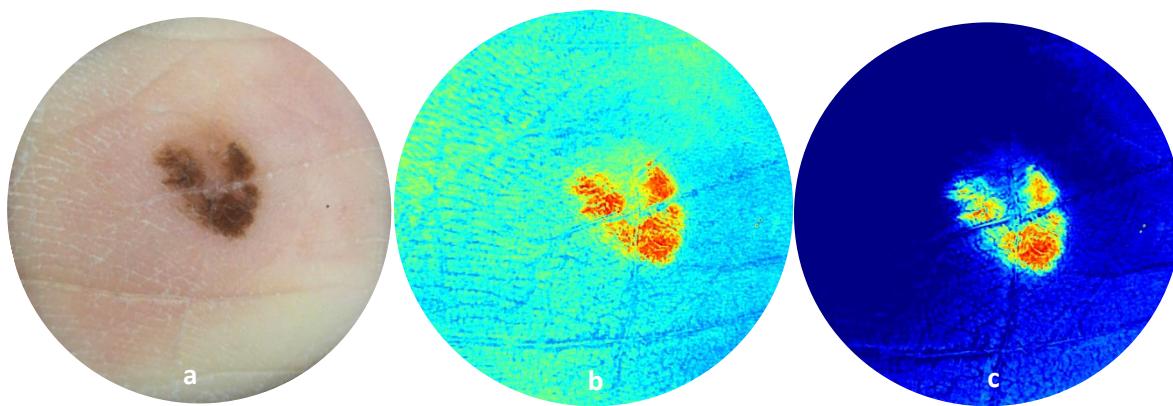


Figure 5. Case 5, Right heel lesion diagnosed as evolving melanoma in-situ (a) Dermoscopy image, diffusion maps showing (b) sub-surface and (c) deep structures.

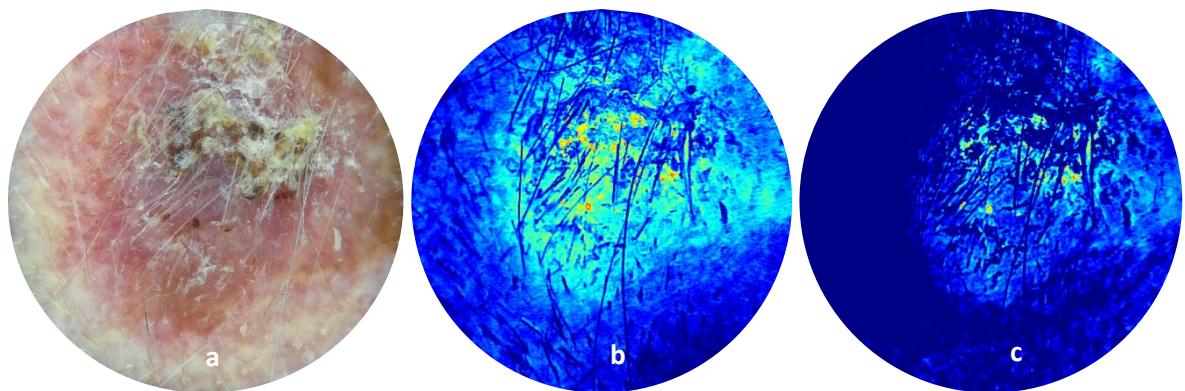


Figure 6. Case 6, Scalp lesion diagnosed as invasive malignant melanoma with prior debulking (a) Dermoscopy image, diffusion maps showing (b) sub-surface and (c) deep structures.

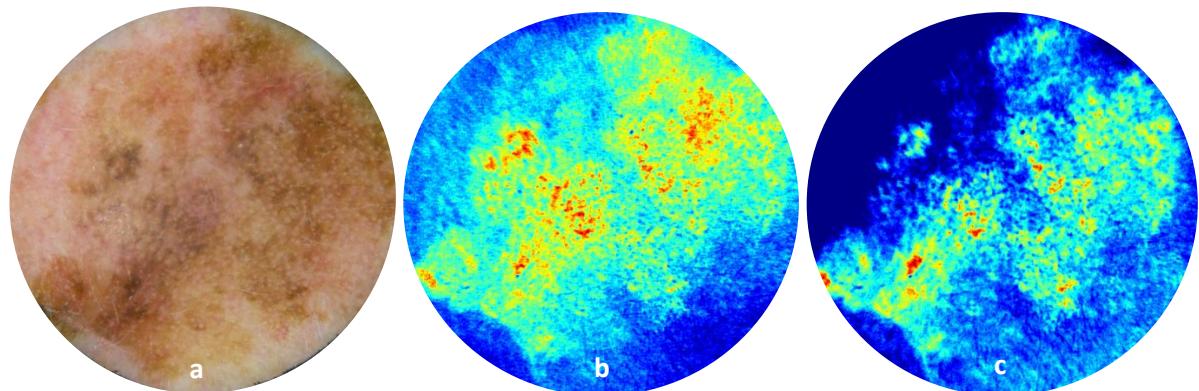


Figure 7. Case 7, Right cheek lesion diagnosed as melanoma in-situ (a) Dermoscopy image, diffusion maps showing (b) sub-surface and (c) deep structures.

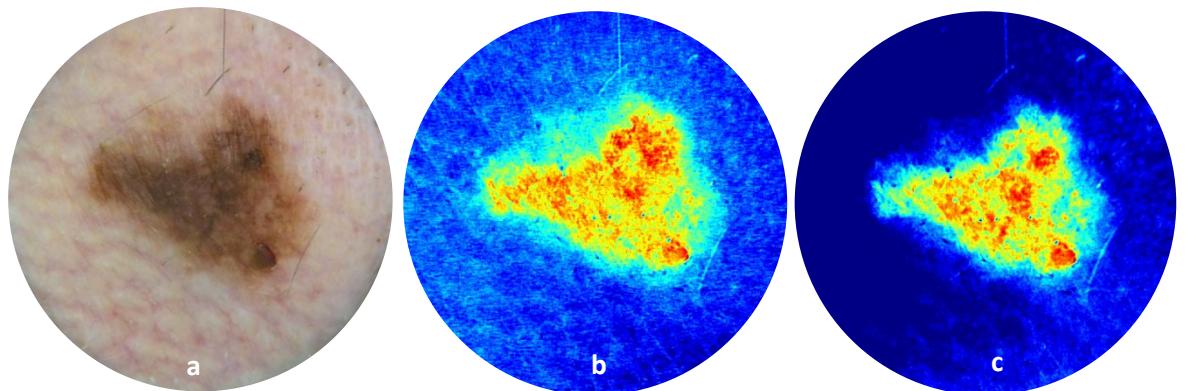


Figure 8. Case 8, Right temple lesion with unequivocal diagnosis of evolving melanoma in-situ (a) Dermoscopy image, diffusion maps showing (b) sub-surface and (c) deep structures.