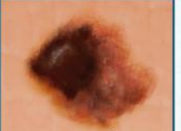


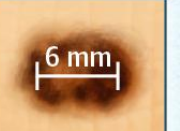

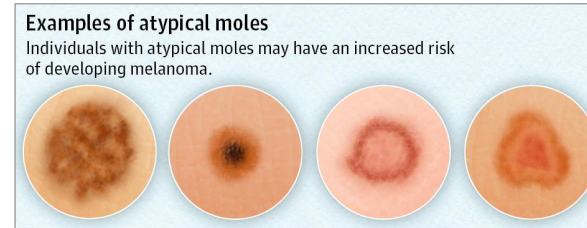


- Early-stage melanoma is almost **100%** curable
 - **Early diagnosis** is crucial for the treatment
 - Visual Dermoscopic examination >> naked eye examination
 - Quantitative criteria: “ABCD” rule
- Melanoma, developed from the pigment-producing cells, is a kind of **deadliest** skin cancer

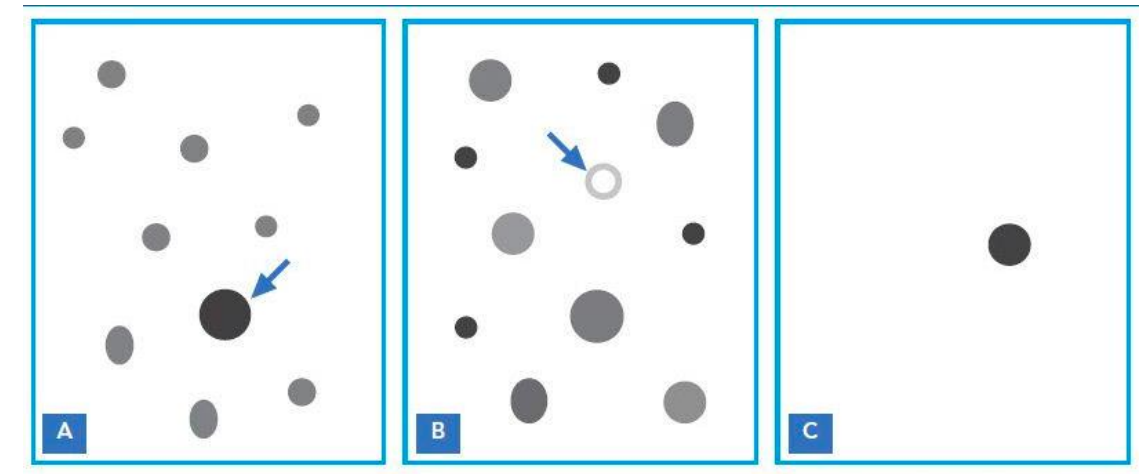
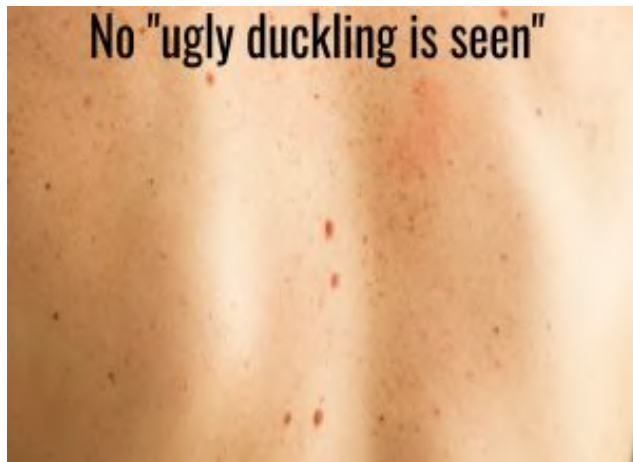
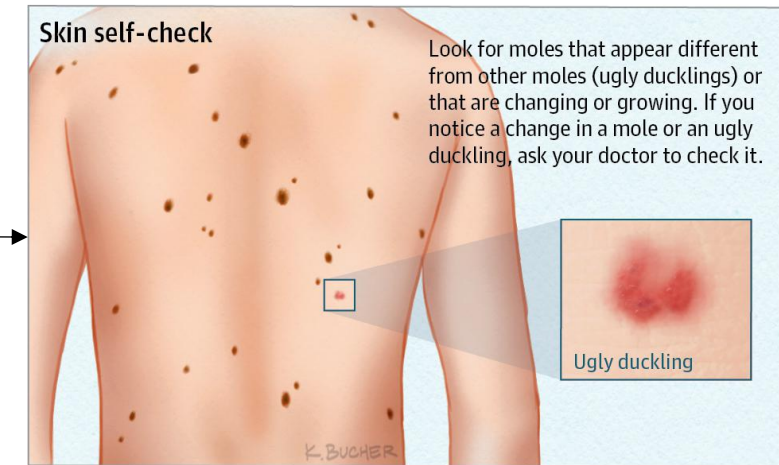
Ugly duckling sign of melanoma

ABCDEs of melanoma
A melanoma may have more than one feature.

Asymmetry	Border	Color	Diameter	Evolving
				
Irregular shape	Irregular border	Multiple colors	>6 mm in diameter	Change in size, shape, or color



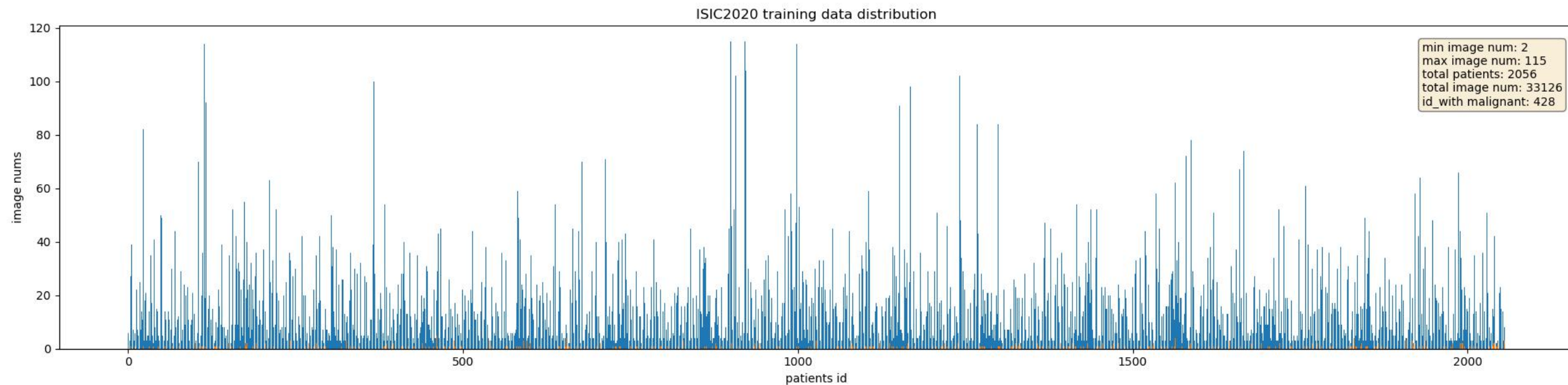
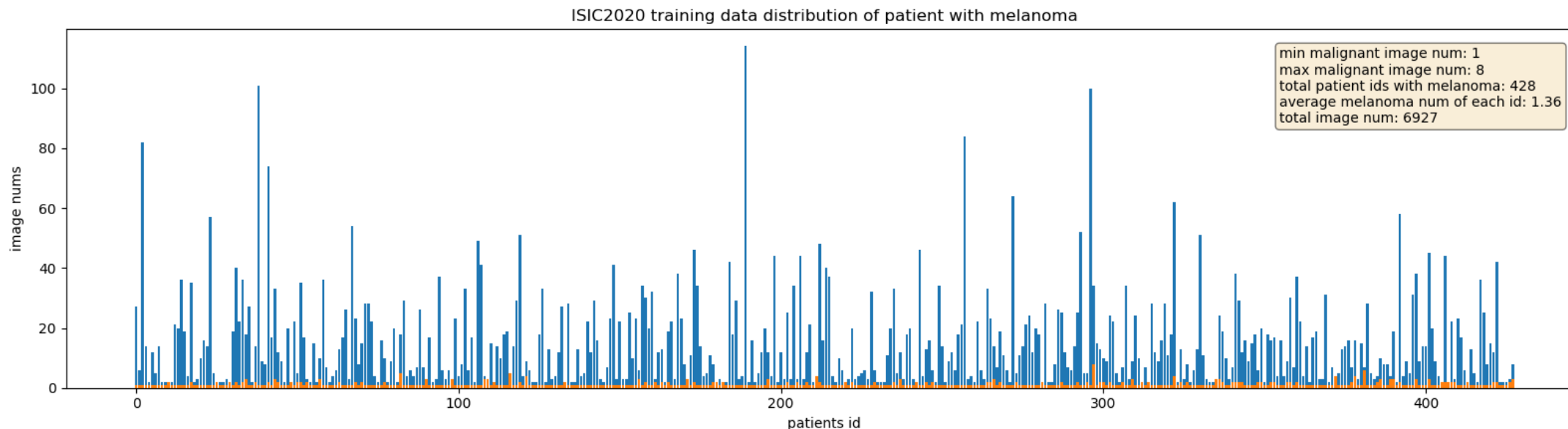
MMs **lack the ABCDE criteria**
MMs that are **smaller than 6 mm**



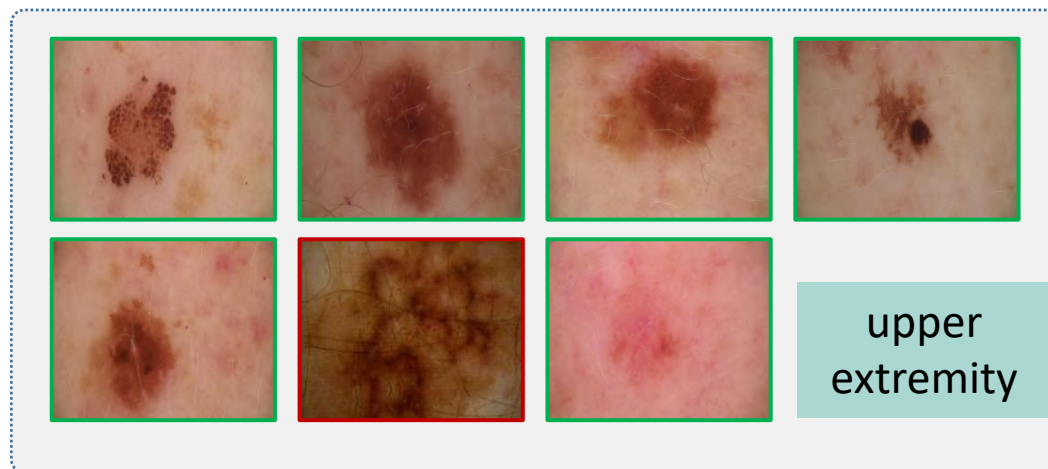
1998, Grob, et al

nevi in the same individual tend to resemble one another, and that MM often deviates from this nevus pattern.

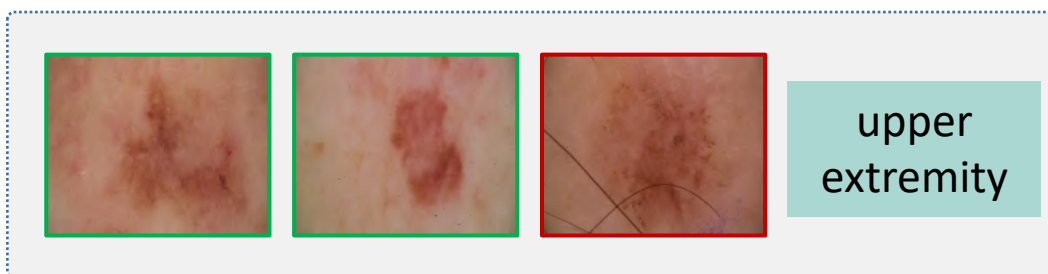
ISIC melanoma recognition challenge --- considering “contextual” images within the same patient to determine which images represent a melanoma.



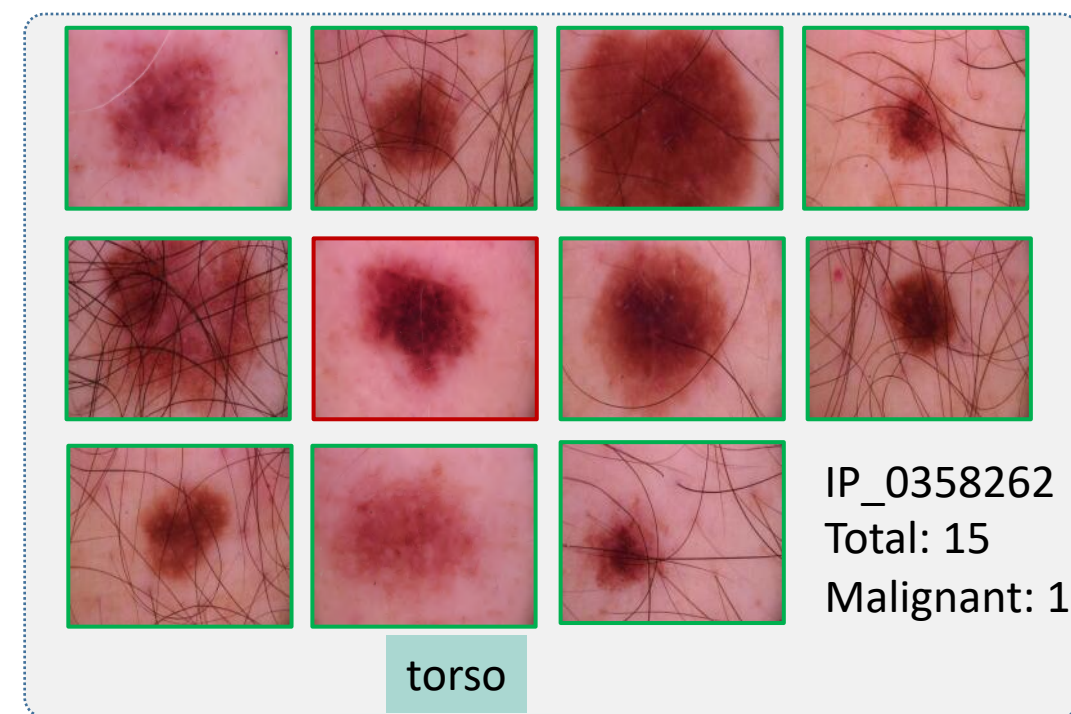
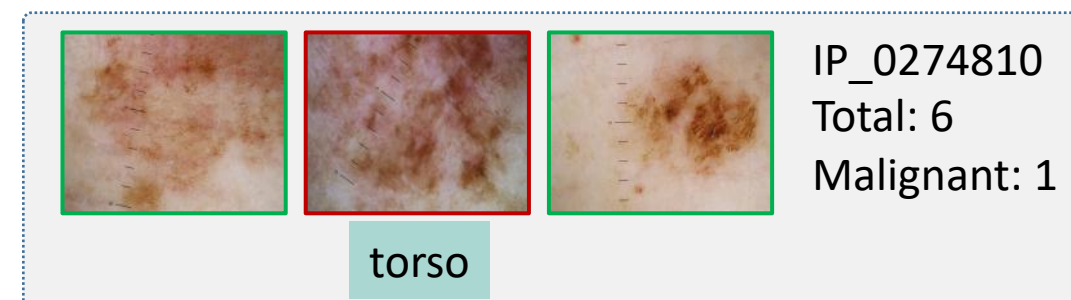
IP_0038545
Total: 28
Malignant: 1

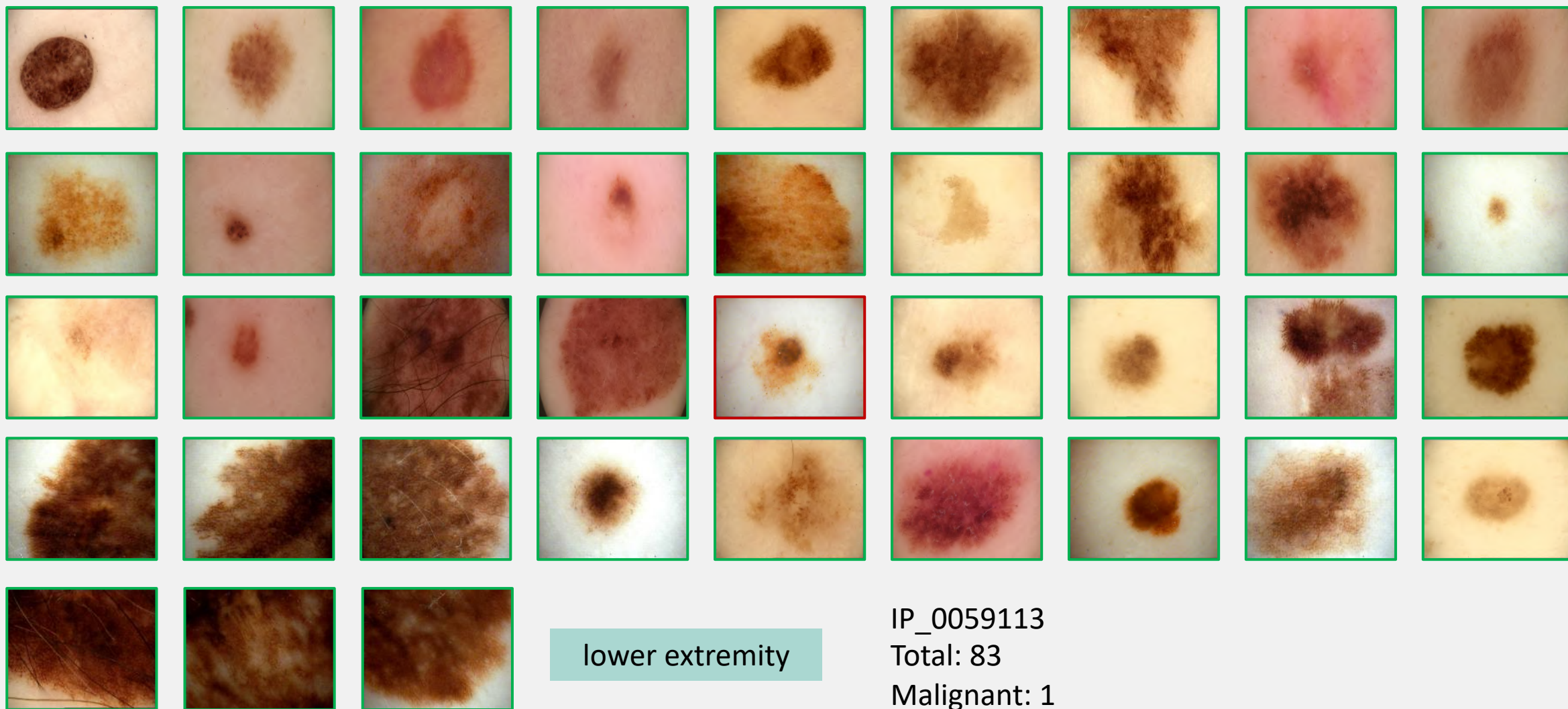


IP_0059113
Total: 7
Malignant: 1



IP_0135517
Total: 15
Malignant: 1





lower extremity

IP_0059113
Total: 83
Malignant: 1

The 'Ugly Duckling' Sign: Identification of the Common Characteristics of Nevi in an Individual as a Basis for Melanoma Screening , *Archives of dermatology*, 1998

Ugly Duckling Sign as a Major Factor of Efficiency in Melanoma Detection, *JAMA Dermatol*, 2017

The role of the ugly duckling sign in patient education, *Journal of the American Academy of Dermatology*, 2017