ISIC Archive Data Record Description

Version: v.1.2

Updated: 10/26/18:

## Patient Variables

The variables presented in this section are used to help describe the individual whose lesion was contributed to the archive.

### Personal history of melanoma

**:ISIC variable: personal\_hx\_mm**

**Field Description:** This data item identifies whether the participant has a positive personal history for melanoma.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| personal\_hx\_mm | Personal history of melanoma | numeric | 1 | 1 | yes | no |
| 2 | no |
| 9 | unknown |

### Family History of Melanoma

**ISIC variable: family\_hx\_mm**

**Field Description:** This data item identifies whether the participant has a self reported family history of melanoma in a first degree relative defined as parent, sibling, or child.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| family\_hx\_mm | Family history of melanoma | numeric | 1 | 1 | yes | no |
| 2 | no |
| 9 | unknown |

### Number of nevi

**ISIC variable: num\_nevi**

Field Description:This data item is a contributors assessment of the number of total nevi on the participant's skin surface. This item is NOT the total number of nevi that the participant contributed to the ISIC archive.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| num\_neVI | Approximate number of nevi on body surface | num7eric | 1 | 1 | <50 | no |
| 2 | 51-100 |
| 3 | >100 |
| 9 | unknown |

### 

### Sex

**ISIC variable: sex**

Field Description: This data item identifies the sex of the participant.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| sex | Patient sex | numeric | 1 | 1 | male | no |
| 2 | female |
| 9 | unknown |

### Age

**ISIC variable: age**

**Field Description:** This data item represents the age of the participant at the time of imaging. If there are multiple images of the same study lesion within the dataset, the age will reflect the age at the first imaging time point. To estimate age at follow-up imaging time points use the imaging date to calculate age. The code is based on two digits and represents the participants age in actual years. Any age greater than 85 years of age will be coded as 85.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| age | Age at the first imaging | numeric | 2 | 0-85 | Age in years | yes |
| 99 | unknown age |

### Age **(Categorized)**

**ISIC variable: age\_categ**

**Field Description:** This data item represents the age of the participant at the time of imaging. If there are multiple images of the same study lesion within the dataset, the age will reflect the age at the first imaging time point. The code is based on two digits and represents five year age ranges.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| age\_categ | Age at the first imaging | numeric | 2 | 1 | <20 | yes |
| 2 | 20-24 |
| 3 | 25-29 |
| 4 | 30-34 |
| 5 | 35-39 |
| 6 | 40-44 |
| 7 | 45-49 |
| 8 | 50-54 |
| 9 | 55-59 |
| 10 | 60-64 |
| 11 | 65-69 |
| 12 | 70-74 |
| 13 | 75-79 |
| 14 | 80-84 |
| 15 | 85+ |
| 99 | unknown age |

### Race

**ISIC variable: race**

We are not aware of authoritative sources

**Field Description:** This data item represents the participant reported race. Hispanic ethnicity is stored as a separate variable.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| race | Patient race | numeric | 1 | 1 | White | no |
| 2 | Black |
| 3 | Asian |
| 4 | American Indian |
| 5 | Native Hawaiian |
| 6 | Other |
| 9 | unknown |

### Hispanic

**ISIC variable: hispanic**

**Field Description:** This data item represents the age of the participant at the time of imaging. This variable is separated out in the database since Hispanic-Latino ethnicity is not mutually exclusive for any of the categories of race.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| hispanic | Hispanic-Latino Ethnicity | numeric | 2 | 1 | non-Hispanic | no |
| 2 | Hispanic |
| 3 | unknown |
| 4 | other |

### Ethnicity

**ISIC variable: ethnicity**

**Field Description:** This data item represents the ethnicity

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| ethnicity | ethnic origin | text | 2 | n/a | free text | no |
|
|
|

### We are not aware of authoritative source for ethnicity or race, so at this time we allow for free text inclusion with consideration of ontologies from the CDC:

https://phinvads.cdc.gov/vads/ViewCodeSystem.action?id=2.16.840.1.113883.6.238#

### Or OMB:

https://www.census.gov/topics/population/race/about.html#:~:text=OMB%20requires%20five%20minimum%20categories,Hawaiian%20or%20Other%20Pacific%20Islander.

### 

### Fitzpatrick skin type

**ISIC variable: skin\_type**

Field Description:This data item represents the Fitzpatrick skin typing system, a numeric scale used to classify the typical response of a person's skin to incident ultraviolet (UV) radiation. This scale is used as a measure of potential damage that the sun can cause to an individual. the Fitzpatrick skin type scale which ranges from very fair (skin type I) to very dark (skin type VI).

Type I: Always burn and never tan in the sun

Type II: Almost always burn and rarely tan in the sun.

Type III: Sometimes burn and sometimes tan in the sun

Type IV: Tan easily and are less likely to burn

Type V: Tan easily and rarely burn

Type VI: Never burns, deeply pigmented

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| skin\_type | Fitzpatrick skin type | numeric | 1 | 1 | I | no |
| 2 | II |
| 3 | III |
| 4 | IV |
| 5 | V |
| 6 | VI |
| 9 | unknown |

### Atypical nevi

**ISIC variable: atypical\_nevi**

Field Description:This data item is used to quantify a person's risk for melanoma development. The presence of at least one atypical nevus is one of the strongest risk factors for melanoma. This data is based on

the clinical assessment of the data contributor.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| atypical\_nevi | Presence or absence of at least one atypical nevus on skin surface | Numeric | 1 | 1 | yes | no |
| 2 | no |
| 9 | unknown |

### Atypical nevi description

**ISIC variable: atypical\_nevi\_desc**

Field Description:This data item is used to quantify and modify a person's risk for melanoma development. The presence of at least one atypical nevus is one of the strongest risk factors for melanoma. This data is based on the clinical assessment of the data contributor. This variable modifies the ISIC variable *'atypical\_nevi'*

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| atypical\_nevi\_desc | The risk of melanoma is related to the number of atypical nevi present. This variable helps quantify the risk of having dysplastic nevi. | Numeric | 1 | 1 | few | no |
| 2 | moderate |
| 3 | many |
| 9 | unknown |

Geographic Region

**ISIC variable: geo\_region**

Field Description: This data item is used to provide a broad geographic region from which the lesions were imaged. These region distinctions were adapted from the United Nations Geoscheme.

| Variable Name | Variable Description | Type | Length | Code | Values\* | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| geo\_region | Major geographic region from where the images were obtained | Numeric | 1 | 1 | Africa | Yes |
| 2 | North America |
| 3 | South America |
| 4 | Middle East |
| 5 | Northern Europe |
| 6 | Central Europe |
| 7 | Southern Europe |
| 8 | Eastern Europe |
| 9 | Oceana |
| 10 | Central Asia |
| 11 | Eastern Asia |
| 12 | South Asia |
| 13 | Southeastern Asia |

Africa: Morocco, Algeria, and Tunisia, as well as Libya and Egypt, Benin, Burkina Faso, the island nation of Cape Verde, Gambia, Ghana, Guinea, Guinea-Bissau, Ivory Coast, Liberia, Mali, Mauritania, Niger, Nigeria, Senegal, Sierra Leone, São Tomé and Príncipe and Togo Burundi, the Central African Republic, Chad, the Democratic Republic of the Congo, and Rwanda Tanzania, Kenya, Uganda, Djibouti, Eritrea, Ethiopia Somalia, Comoros, Mauritius and Seychelles Mozambique and Madagascar Malawi, Zambia and Zimbabwe

North America: Bermuda, Mexico, Canada, Greenland, and the United States of America.

South America: Argentina, Bolivia, Brazil, Chile, Colombia, Ecuador, Guyana, Paraguay, Peru, Suriname, Uruguay, and Venezuela, French Guiana, the Falkland Islands

Middle East: Bahrain, Iran, Iraq, Israel, Jordan, Kuwait, Lebanon, Oman, Qatar, Palestinian territories, Saudi Arabia, Syria, Turkey, UAE, and Yemen

Northern Europe: Iceland, the Republic of Ireland, the Isle of Man, the United Kingdom, the Faroe Islands, the Netherlands, northern Germany, Denmark, Norway, Sweden, Finland, Estonia, Latvia, Lithuania, Belarus and northwest Russia.

Central Europe: Austria, Belgium, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Hungary, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Slovakia, Slovenia, Spain, and Switzerland

Southern Europe: Spain, Portugal, Italy, Greece and Malta

Eastern Europe: Russia, Belarus, Ukraine, Moldova, Romania, Bulgaria, Serbia, Bosnia, Albania, Montenegro, Kosovo, Macedonia, Georgia, Armenia and Azerbaijan.

Oceana: Australia, Melanesia, Polynesia, and Micronesia, New Zealand and New Guinea

Central Asia: Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, Uzbekistan and Afghanistan

Eastern Asia: China, Mongolia, North Korea, South, Japan and Taiwan

South Asia: Bangladesh, Bhutan, Maldives, Nepal, India, Pakistan, and Sri Lanka

Southeast Asia: Vietnam, Laos, Cambodia, Thailand, Myanmar, Malaysia Indonesia, Singapore, Philippines, East Timor, Brunei, Christmas Island, Andaman and Nicobar Islands, and Cocos (Keeling) Islands.

## Lesion Characteristics

### Lesion ID

**ISIC variable: isic\_les\_id**

Field Description:This field is used by the ISIC Archive to uniquely identify a study lesion. The archive cannot guarantee that the all the lesion submissions for the same participant will have the same study id across study datasets.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| isic\_les\_id | ISIC lesion identification number | Text | # | n/a | n/a | yes |

### Dataset ID

**ISIC variable: dataset**

Field Description: This data item is used to track a lesion's provenance. The term dataset refers to the individual and/or group who contributed to the data. The dataset ID is a mandatory data variable and is provided by the ISIC Archive. Contributors can choose to have their contributions be submitted anonymously. These data will be kept with the lesion meta-data, but not made available and or searchable in all cases.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| dataset | ISIC lesion identification number | Text | # | n/a | n/a | yes |

### Contributor

**ISIC variable: contributor**

Field Description:This data item is used to track a lesion's provenance. Contributor refers to the individual and/or group who contributed to the data. The collection ID is a mandatory data variable and is provided by the ISIC archive. Contributors can choose to have their contributions to be submitted anonymously. These data will be kept with the lesion meta-data, but not made available and or searchable in all cases.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| contributor | ISIC lesion identification number | Text | # | n/a | n/a | yes |

### Anatomic Site

**ISIC variable: anatom\_site\_general**

Field Description:This data item is used to identify a lesion's general anatomic location.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| anatom\_site\_general | General anatomic location of the lesion | numeric | 2 | 01 | head /neck | no |
| 02 | upper extremity |
| 03 | lower extremity |
| 04 | anterior torso |
| 05 | posterior torso |
| 06 | palms/soles |
| 07 | lateral torso |
| 08 | oral/genital |
| 99 | unknown |

### Clinical Impression

**ISIC variable: clin\_impression**

Field Description:This data item is used to denote the clinical impression of the lesion.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| clin\_impression | Clinical impression of lesion | numeric | 2 | 01 |  | no |
| 02 |  |
| 03 |  |
| 04 |  |
| 05 |  |
| 06 |  |
| 07 |  |
| 08 |  |
| 09 |  |
| 99 | unknown |

### Benign or Malignant

**ISIC variable: benign\_malignant**

Field Description:This data item is used to denote the histopathologic diagnosis of the lesion if pathology performed, or benign nature of the lesion if serial dermoscopic assessments of the lesion indicated no change. The use of serial imaging to denote diagnosis is only applicable to benign diagnoses.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| benign\_malignant |  | Numeric | 1 | 1 | benign | yes |
| 2 | malignant |
| 4 | indeterminate |
| 5 | Indeterminate/benign |
| 6 | Indeterminate/malignant |
| 9 | unknown |

### Type of diagnosis

**ISIC variable: diagnosis\_confim\_type**

Field Description:This data item is used to indicate how the gold standard diagnosis was made. For any malignant lesion, histopathologic diagnosis is required. For benign lesions, histopathologic diagnosis, presence of serial imaging showing no clinical change, and expert consensus review by three reviewers indicating benign nature of the lesion.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| diagnosis\_confirm\_type | A variable that describes how the diagnosis was classified. | Numeric | 1 | 1 | histopathology | yes |
| 2 | serial imaging showing no change |
| 3 | single image expert consensus |
| 4 | confocal microscopy with consensus dermoscopy |
| 5 | unconfirmed diagnosis from contributor |
| 9 | unknown |

### Melanocytic non-melanocytic

**ISIC variable: melanocytic**

Field Description:The categorization of lesions as to whether they are mainly composed of melanocytes, the pigment-producing cells that constitutively colonize the epidermis. In this data set, we will categorize lesions as melanocytic based on clinical, dermoscopic or pathologic classification of the lesion.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| melanocytic | A classification of a lesion based on the presence of melanocytes | Numeric | 1 | 1 | yes | no |
| 2 | no |
| 9 | unknown |

### Lesion Diagnosis

**ISIC variable: diagnosis**

Field Description:This data item is used to denote the histopathologic diagnosis of the lesion if pathology performed, benign nature of the lesion if serial dermoscopic assessments of the lesion indicated no change, or consensus diagnosis of the lesion if 3 or more experts agree to the nature of the lesion. The use of serial imaging to denote diagnosis is only applicable to benign diagnoses.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| diagnosis | Lesion diagnosis | numeric | 3 | 01 | actinic keratosis | yes |
| 02 | adnexal tumor |
| 03 | AIMP |
| 04 | angiokeratoma |
| 05 | angioma |
| 06 | basal cell carcinoma |
| 07 | cafe-au-lait macule |
| 08 | dermatofibroma |
| 09 | ephelis |
| 10 | lentigo NOS |
| 11 | lentigo simplex |
| 12 | lichenoid keratosis |
| 13 | melanoma |
| 14 | melanoma metastasis |
| 15 | merkel cell carcinoma |
| 16 | mucosal melanosis |
| 17 | nevus |
| 18 | nevus spilus |
| 19 | seborrheic keratosis |
| 20 | solar lentigo |
| 21 | squamous cell carcinoma |
| 22 | clear cell acanthoma |
| 23 | atypical spitz tumor |
| 24 | acrochordon |
| 25 | angiofibroma or fibrous papule |
| 26 | neurofibroma |
| 27 | pyogenic granuloma |
| 28 | scar |
| 29 | sebaceous adenoma |
| 30 | sebaceous hyperplasia |
| 31 | verruca |
| 32 | atypical melanocytic proliferation |
| 33 | epidermal nevus |
| 34 | pigmented benign keratosis |
| 35 | vascular lesion |
| 998 | other |
| 999 | unknown |

### Nevus type

**ISIC variable: nevus\_type**

Field Description:This data item is used to sub-classify any lesion that was classified as a nevus.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| nevus\_type | What was the subclassification of the nevus | Numeric | 2 | 1 | blue | no |
| 2 | combined |
| 3 | nevus NOS |
| 4 | deep penetrating |
| 5 | halo |
| 6 | other |
| 7 | persistent/recurrent |
| 8 | pigmented spindle cell of reed |
| 9 | plexiform spindle cell |
| 10 | special site |
| 11 | spitz |
| 88 | not applicable |
| 99 | unknown |

### Combined nevus type

**ISIC variable: comb\_nevus\_type**

Field description: This data item is used to sub-classify any lesion that was classified as a combined nevus.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| comb\_nevus\_type | What was the subclassification of the combined nevus | Numeric | 1 | 1 | Blue and Nevus NOS | no |
| 2 | Dysplastic and Pigmented spindle cell of reed |
| 3 | Dysplastic and Spitz |
| 8 | n/a |
| 9 | unknown |

### Spitz type

**ISIC variable: spitz\_type**

Field description: This data item is used to sub-classify any lesion that was classified as a spitz nevus.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| spitz\_type | What was the subclassification of the spitz nevus | Numeric | 1 | 1 | Spitz, pigmented | no |
| 2 | Spitz , sclerosing |
| 8 | n/a |
| 9 | unknown |

### Dysplastic/atypical nevus histopathological features

**ISIC variable: nevus\_dysplastic\_feat**

Field description: This data item is used to identify nevi with histopathological features of a dysplastic or clark nevus.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| nevus\_dysplastic\_feat | Nevi with histopathological features of a dysplastic or clark nevus | Numeric | 1 | 1 | Dysplastic/Clark | no |
| 2 | Non-dysplastic |
| 8 | n/a |
| 9 | Unknown or blank |

### Congenital nevus histopathological features

ISIC variable: Nevus\_congenital\_features

Field description: This data item is used to identify nevi with histopathological congenital features.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| nevus\_congenital\_features | Nevi with histopathological congenital features | Numeric | 1 | 1 | yes | no |
| 2 | no |
| 8 | n/a |
| 9 | Unknown or blank |

### Recurrent nevus histopathological features

ISIC variable: Nevus\_recurrent\_features

Field description: This data item is used to identify nevi with histopathological recurrent features.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| nevus\_recurrent\_features | Nevi with histopathological recurrent features | Numeric | 1 | 1 | yes | no |
| 2 | no |
| 8 | n/a |
| 9 | Unknown or blank |

### Nevus\_growth\_pattern

**ISIC variable: nevus\_growth\_pattern**

Field Description:The categorization of the microanatomic growth pattern of nevi is based on the distribution and location of nevomelanocytic nests. These nest can be confined to the epidermis, dermis, or both.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| nevus\_growth\_pattern | Microanatomic growth pattern of the nevus | Numeric | 1 | 1 | junctional | no |
| 2 | compound |
| 3 | intradermal |
| 8 | n/a |
| 9 | Unknown or blank |

### Lentiginous growth pattern

**ISIC variable: Mel\_lent\_pat**

Field Description: This data item is used to identify melanocytic tumors with a lentiginous growth pattern.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| mel\_lent\_pat | Melanocytic tumors containing a lentiginous growth pattern component | Numeric | 1 | 1 | yes | no |
| 2 | no |
| 8 | n/a |
| 9 | Unknown or blank |

### Atypia

**ISIC variable: atypia**

Field Description:This data item is used to denote the level of hispopathologic atypia for nevi

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| atypia | The level of histopathologic atypia present in the nevus | Numeric | 1 | 1 | none | no |
| 2 | Mild or slight |
| 3 | Mild/moderate or slight/moderate |
| 4 | moderate |
| 5 | Moderate/severe |
| 6 | severe |
| 8 | n/a |
| 9 | unknown |

### Architectural disorder

**ISIC variable: arch\_dis**

Field Description: This data item is used to identify nevi with histopathological architectural disorder.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| arch\_dis | Nevi with architectural disorder | Numeric | 1 | 1 | yes | no |
| 2 | no |
| 8 | n/a |
| 9 | Unknown or blank |

### Inflammation

**ISIC variable: inflammation**

Field Description: This data item is used to identify skin lesions with histopathological inflammation.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| inflammation | Skin lesions with histopathological inflammation | Numeric | 1 | 1 | yes | no |
| 2 | no |
| 8 | n/a |
| 9 | Unknown or blank |

### Irritation

**ISIC variable: irritation**

Field Description: This data item is used to identify skin lesions with histopathological irritation.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| irritation | Skin lesions with histopathological irritation | Numeric | 1 | 1 | yes | no |
| 2 | no |
| 8 | n/a |
| 9 | Unknown or blank |

### Regression

**ISIC variable: regression**

Field Description: This data item is used to identify melanocytic lesions with histopathological features of regression.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| regression | Melanocytic lesions with histopathological features of regression | Numeric | 1 | 1 | yes | no |
| 2 | no |
| 8 | n/a |
| 9 | Unknown or blank |

### Dermal fibrosis

**ISIC variable: derm\_fib**

Field Description: This data item is used to identify skin lesions with histopathological features of dermal fibrosis.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| derm\_fib | Skin lesions with histopathological dermal fibrosis | Numeric | 1 | 1 | yes | no |
| 2 | no |
| 8 | n/a |
| 9 | Unknown or blank |

### Traumatized

**ISIC variable: traumatized**

Field Description: This data item is used to identify skin lesions with histopathological features of trauma.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| traumatized | Skin lesions with histopathological features of trauma | Numeric | 1 | 1 | yes | no |
| 2 | no |
| 8 | n/a |
| 9 | Unknown or blank |

### FISH probe for melanoma

**ISIC variable: fish**

Field Description: This data item is used to identify test results of the FISH probe for melanoma.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| fish | Test results of the FISH probe for melanoma | Numeric | 1 | 1 | positive | no |
| 2 | negative |
| 3 | Not performed |
| 8 | n/a |
| 9 | Unknown or blank |

### Pigmented

**ISIC variable: pigmented**

Field Description:This data item is used to denote whether there was histopathologic confirmation of pigmentation (e.g., presence of melanin or melanophages)

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| pigmented | Was there histopathologic confirmation of melanin pigment? | Numeric | 1 | 1 | yes | no |
| 2 | no |
| 8 | n/a |
| 9 | Unknown or absent |

### Basal cell carcinoma, nodular features

**ISIC variable: bcc\_nod**

Field Description:This data item is used to denote whether a basal cell carcinoma has histopathological features of the nodular subtype

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| bcc\_nod | Were there histopathological features of the nodular subtype? | Numeric | 1 | 1 | yes | no |
| 2 | no |
| 8 | n/a |
| 9 | Unknown or absent |

### Basal cell carcinoma, superficial features

**ISIC variable: bcc\_sup**

Field Description:This data item is used to denote whether a basal cell carcinoma has histopathological features of the superficial subtype

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| bcc\_sup | Were there histopathological features of the superficial subtype? | Numeric | 1 | 1 | yes | no |
| 2 | no |
| 8 | n/a |
| 9 | Unknown or absent |

### Basal cell carcinoma, micronodular features

**ISIC variable: bcc\_micro**

Field Description:This data item is used to denote whether a basal cell carcinoma has histopathological features of the superficial subtype

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| bcc\_micro | Were there histopathological features of the micronodular subtype? | Numeric | 1 | 1 | yes | no |
| 2 | no |
| 8 | n/a |
| 9 | Unknown or absent |

### Basal cell carcinoma, infiltrative features

**ISIC variable: bcc\_inf**

Field Description:This data item is used to denote whether a basal cell carcinoma has histopathological features of the infiltrative subtype

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| bcc\_inf | Were there histopathological features of the infiltrative subtype? | Numeric | 1 | 1 | yes | no |
| 2 | no |
| 8 | n/a |
| 9 | Unknown or absent |

### Basal cell carcinoma, pinkus features

**ISIC variable: bcc\_pinkus**

Field Description:This data item is used to denote whether a basal cell carcinoma has histopathological features of the pinkus subtype

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| bcc\_pinkus | Were there histopathological features of the pinkus subtype? | Numeric | 1 | 1 | yes | no |
| 2 | no |
| 8 | n/a |
| 9 | Unknown or absent |

### Basal cell carcinoma, infundibulocystic features

**ISIC variable: bcc\_infun**

Field Description:This data item is used to denote whether a basal cell carcinoma has histopathological features of the infundibulocystic subtype

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| bcc\_infun | Were there histopathological features of the infundibulocystic subtype? | Numeric | 1 | 1 | yes | no |
| 2 | no |
| 8 | n/a |
| 9 | Unknown or absent |

### Basal cell carcinoma, trichoblastic features

**ISIC variable: bcc\_tricho**

Field Description:This data item is used to denote whether a basal cell carcinoma has histopathological features of the trichoblastic subtype

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| bcc\_tricho | Were there histopathological features of the trichoblastic subtype? | Numeric | 1 | 1 | yes | no |
| 2 | no |
| 8 | n/a |
| 9 | Unknown or absent |

### Basal cell carcinoma, morpheaform features

**ISIC variable: bcc\_mor**

Field Description:This data item is used to denote whether a basal cell carcinoma has histopathological features of the morpheaform subtype

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| bcc\_mor | Were there histopathological features of the morpheaform subtype? | Numeric | 1 | 1 | yes | no |
| 2 | no |
| 8 | n/a |
| 9 | Unknown or absent |

### Squamous cell carcinoma type

**ISIC variable: scc\_type**

Field Description:This data item is used to denote the subclassification of squamous cell carcinoma

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| scc\_type | What was the subclassification of squamous cell carcinoma? | Numeric | 1 | 1 | SCC in situ | no |
| 2 | SCC in situ bowenoid |
| 3 | SCC invasive |
| 4 | SCC keratoacanthomatous |
| 5 | SCC NOS |  |
| 8 | n/a |  |
| 9 | Unknown or absent |  |

### Melanoma type

**ISIC variable: mel\_class**

Field Description:This data item is used to denote the subclassification of malignant melanoma.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| mel\_class | What was the subclassification of malignant melanoma? | Numeric | 1 | 1 | Melanoma in situ | no |
| 2 | Invasive melanoma |
| 3 | Recurrent/persistent melanoma, in situ |
| 4 | Recurrent/persistent melanoma, invasive |
| 5 | Melanoma NOS |
| 8 | n/a |
| 9 | Unknown or absent |

### Melanoma growth phase

**ISIC variable: mel\_vert**

Field Description:This data item is used to denote the presence of vertical growth phase in invasive malignant melanoma.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| mel\_vert | Was vertical growth phase identified in invasive melanoma? | Numeric | 1 | 1 | No | no |
| 2 | Yes |
| 8 | n/a |
| 9 | Unknown or absent |

### Melanoma mitotic index

**ISIC variable: mel\_mit**

Field Description:This data item is used to denote the mitotic index of invasive malignant melanomas

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| mel\_mit | What was the mitotic index of invasive malignant melanomas? | Numeric | 1 | 1 | <1/mm2 (including 0/mm2) | no |
| 2 | 1/mm2 |
| 3 | 2/mm2 |
| 4 | 3/mm2 |
| 5 | 4/mm2 |
| 6 | ≥5/mm2 |
| 7 | ≥1/mm2 but otherwise not specified |
| 8 | n/a |
| 9 | Unknown or absent |

### Thickness

**ISIC variable: mel\_thick**

Field Description:This data item is used to describe the deepest depth of invasion of the melanoma. This measurement is presented in mm.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| mel\_thick | Thickness is the depth of invasion in millimeters. | Numeric | 3 | 000 | In-situ | no |
| 001 | 0.01 mm |
| ... |  |
| 010 | 0.10 mm |
| ... |  |
| 100 | 1.00 mm |
| ... |  |
| 099 | 0.99 mm |
| ... |  |
| 990 | 9.90 mm |
| 991 | ≥9.91 mm |
| 998 | n/a |
| 999 | unknown |

### Ulceration

**ISIC variable: ulcer**

Field Description:This data item is used to denote whether there was presence of histopathologic ulceration.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| ulcer | Was there histopathologic ulceration present | Numeric | 1 | 1 | yes | no |
| 2 | no |
| 8 | n/a |
| 9 | unknown |

### Clark level

**ISIC variable: mel\_clark**

Field Description:This data item is used to describe the stage of the melanoma and is a description of how widespread it is. These levels of disease are American Joint Commission on Cancer (AJCC) TNM system which classifies melanomas from stage 0 (in-situ) to stage IV (metastatic) disease.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| mel\_clark | Clark level | Numeric | 1 | 1 | I | no |
| 2 | II |
| 3 | III |
| 4 | IV |
| 8 | n/a |
| 9 | unknown |

### Histopathologic subtype

**ISIC variable: mel\_type**

Field Description:This data item is used to describe the histopathologic subtype of melanoma. Melanomas are typically divided into 5 main types, depending on their location, shape and whether they grow outward or downward into the dermis. Here, we will used 5 distinct types.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| mel\_type | Histologic subtype | Numeric | 1 | 1 | ssm | no |
| 2 | nodular |
| 3 | lmm |
| 4 | alm |
| 5 | nos |
| 6 | spindle cell features |
| 8 | n/a |
| 9 | unknown |

### Melanoma deep margin transected

**ISIC variable: mel\_deep\_margin**

Field Description:This data item is used to indicate if the deep margin was transected on the initial diagnostic biopsy, thereby possibly limiting a definitive interpretation of the prognostic markers.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| mel\_deep\_margin | Was the deep margin noted to be transected on the initial diagnostic biopsy? | Numeric | 1 | 1 | yes | no |
| 2 | no |
| 8 | n/a |
| 9 | unknown |

### Melanoma tumor-infiltrating lymphocytes

**ISIC variable: mel\_lymphocytes**

Field Description:This data item is used to indicate the degree of tumor-infiltrating lymphocytes in a malignant melanoma

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| mel\_lymphocytes | What is the degree of tumor-infiltrating lymphocytes in a malignant melanoma? | Numeric | 1 | 1 | absent | no |
| 2 | Non-brisk |
| 3 | brisk |
| 4 | Inflammation nos |
| 8 | n/a |
| 9 | unknown |

### Melanoma, lymphovascular invasion

**ISIC variable: mel\_lymphovascular**

Field Description:This data item is used to indicate the presence of lymphovascular invasion in a malignant melanoma

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| mel\_lymphovascular | Is lymphovascular invasion present in a malignant melanoma? | Numeric | 1 | 1 | yes | no |
| 2 | no |
| 8 | n/a |
| 9 | unknown |

### Melanoma, perineural invasion

**ISIC variable: mel\_perineural**

Field Description:This data item is used to indicate the presence of perineural invasion in a malignant melanoma

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| mel\_perineural | Is perineural invasion present in a malignant melanoma? | Numeric | 1 | 1 | yes | no |
| 2 | no |
| 8 | n/a |
| 9 | unknown |

### Melanoma, microscopic satellitosis

**ISIC variable: mel\_micro\_sat**

Field Description:This data item is used to indicate the presence or absence of microscopic satellitosis in a malignant melanoma

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| mel\_micro\_sat | Is microscopic satellitosis present in a malignant melanoma? | Numeric | 1 | 1 | yes | no |
| 2 | no |
| 8 | n/a |
| 9 | unknown |

### Melanoma, solar elastosis

**ISIC variable: mel\_sol\_elast**

Field Description:This data item is used to indicate the presence and degree of solar elastosis in a malignant melanoma

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| mel\_sol\_elast | Is solar elastosis present in a malignant melanoma? | Numeric | 1 | 1 | Absent/nil | no |
| 2 | Mild/minimal |
| 3 | Moderate |
| 4 | Severe/marked |
| 5 | Present not otherwise quantified |
| 8 | n/a |
| 9 | unknown |

### Melanocytic tumor, associated with melanocytic nevus

**ISIC variable: mel\_assoc\_nev**

Field Description:This data item is used to indicate the presence of an associated melanocytic nevus with a melanocytic tumor (e.g., melanoma or atypical melanocytic proliferations)

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| mel\_assoc\_nev | Is an associated melanocytic nevus present with a melanocytic tumor? | Numeric | 1 | 1 | yes | no |
| 2 | no |
| 8 | n/a |
| 9 | unknown |

## Technological

These data elements relate to the technical aspects of the image that is being uploaded to the archive. These elements will be extracted from the Exif information embedded in the image.

### Image Type

**ISIC variable: image\_type**

Field Description:This data item is used to describe the type of image included in the archive.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| image\_type | Type of image | Numeric | 1 | 1 | Overview | yes |
| 2 | Clinical |
| 3 | Dermoscopic |
| 9 | unknown |

**ISIC variable: image\_type\_clin\_overview**

Field Description:This data item is used to describe the image as being a clinical overview image. These images are typically used to provide some anatomic spatial reference.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| image\_type\_overview | Type of image | Numeric | 1 | 1 | yes | yes |
| 2 | no |
| 8 | n/a |
| 9 | unknown |

**ISIC variable: image\_type\_clin\_closeup**

Field Description:This data item is used to describe the image as being a clinical clinical close-up image. In the archive, these images are typically used to provide a clinical image of the lesion that is going to subsequently imaged with dermoscopy.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| image\_type\_closeup | Type of image | Numeric | 1 | 1 | yes | yes |
| 2 | no |
| 8 | n/a |
| 9 | unknown |

**ISIC variable: image\_type\_confocal**

Field Description:This data item is used to describe the image as being a confocal image.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| image\_type\_confocal | Type of image | Numeric | 1 | 1 | yes | yes |
| 2 | no |
| 8 | n/a |
| 9 | unknown |

**ISIC variable: image\_type\_dermos**

Field Description:This data item is used to describe the type of image as being dermoscopic.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| image\_type\_dermos | Type of image | Numeric | 1 | 1 | yes | yes |
| 2 | no |
| 8 | n/a |
| 9 | unknown |

### Dermoscopy Type

**ISIC variable: dermos\_type**

Field Description:This data item is used to describe the type of dermoscopic imaging utilized for the image.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| dermos\_type | Type of dermoscopic image | Numeric | 1 | 1 | NPD | yes |
| 2 | PCD |
| 3 | PNCD |
| 4 | n/a |
| 9 | unknown |

### Dermoscopy Type

**ISIC variable: dermos\_device**

Field Description:This data item is used to describe the type of dermoscopic device used for the imaging.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| dermos\_device | Type of dermoscopic imaging device | Numeric | 1 | 1 | Epiflash | yes |
| 2 | Heine |
| 3 | DL-2 |
| 4 | DL-3 |
| 5 | Other |
| 9 | unknown |

Exif data

## Quality / Utilization

These data elements relate to the internal quality assurance (QA) of the study lesions. Data variables in this section are more likely to be used by ISIC administrators as a gauge of the quality of the submissions to the archive, the elapsed time of review in the QA process and the length of the review.

## Clinical Morphology

### Clincal Size - Longest Diameter

**ISIC variable: clin\_size\_long\_diam\_mm**

Field Description:This data item is used to describe the longest diameter of a lesion in mm. This data variable is collected from the clinical evaluation of the lesion.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| clin\_size\_long\_diam | The longest diameter of the lesion in mm | Numeric | 3 | 001 | 0.1 mm | no |
| ... |  |
| 010 | 1.0 mm |
| ... |  |
| 100 | 10.0 mm |
| ... |  |
| 900 | 90.0 mm |
| ... |  |
| 998 | n.a. |
| 999 | unknown |

### Clincal Color (Black)

**ISIC variable: clin\_color\_black**

Field Description:This data item is used to describe the presence of black color based on clinical image.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| clin\_color\_black | Clinical color (black) | numeric | 1 | 1 | Present | no |
| 2 | Absent |
| 9 | unknown |

### Clincal Color (Dark Brown)

**ISIC variable: clin\_color\_dkbr**

Field Description:This data item is used to describe the presence of dark brown color based on clinical image.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| clin\_color\_dkbr | Clinical color (dark brown) | numeric | 1 | 1 | Present | no |
| 2 | Absent |
| 9 | unknown |

### Clincal Color (Light Brown)

**ISIC variable: clin\_color\_ltbr**

Field Description:This data item is used to describe the presence of light brown color based on clinical image.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| clin\_color\_ltbr | Clinical color (light brown) | numeric | 1 | 1 | Present | no |
| 2 | Absent |
| 9 | unknown |

### Clincal Color (Blue)

**ISIC variable: clin\_color\_blue**

Field Description:This data item is used to describe the presence of blue color based on clinical image.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| clin\_color\_blue | Clinical color (blue) | numeric | 1 | 1 | Present | no |
| 2 | Absent |
| 9 | unknown |

### Clincal Color (Red)

**ISIC variable: clin\_color\_red**

Field Description:This data item is used to describe the presence of red color based on clinical image.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| clin\_color\_red | Clinical color (red) | numeric | 1 | 1 | Present | no |
| 2 | Absent |
| 9 | unknown |

### Clincal Color (Pink)

**ISIC variable: clin\_color\_pink**

Field Description:This data item is used to describe the presence of pink color based on clinical image.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| clin\_color\_pink | Clinical color (pink) | numeric | 1 | 1 | Present | no |
| 2 | Absent |
| 9 | unknown |

### Clincal Color (White)

**ISIC variable: clin\_color\_white**

Field Description:This data item is used to describe the presence of white color based on clinical image.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| clin\_color\_white | Clinical color (white) | numeric | 1 | 1 | Present | no |
| 2 | Absent |
| 9 | unknown |

### Congenital Lesion

**ISIC variable: clin\_congen**

Field Description:This data item is used to describe the fact that the lesion is congenital (was present at birth)

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| clin\_congen | Congenital lesion | numeric | 1 | 1 | yes | no |
| 2 | no |
| 8 | n.a. |
| 9 | unknown |

### History of Change

**ISIC variable: clin\_change**

Field Description:This data item is used to describe the presence of any clinical change in the lesion to cause removal.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| clin\_change | Was there any clinical change noticed for the lesion | numeric | 1 | 1 | yes | no |
| 2 | no |
| 9 | unknown |

### History of Change- Source (person)

**ISIC variable: clin\_change\_who**

Field Description:This data item is used to describe the initial person to notice the change in the lesion.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| clin\_change\_who | Who was the person to identify change? | numeric | 1 | 1 | Self/patient | no |
| 2 | Photodocumentation |
| 8 | n.a. |
| 9 | unknown |

### History of Change- Source (photodocumentation)

**ISIC variable: clin\_change\_photo**

Field Description:This data item is used to describe the how was the initial person to notice the change in the lesion.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| clin\_change\_photo | Was photographically assisted follow-up the factor that resulted in the removal of the lesions. | numeric | 1 | 1 | Yes | no |
| 2 | no |
| 9 | unknown |

### Photodamage

**ISIC variable: clin\_photodam**

Field Description:This data item is used to describe the degree of photodamage of background skin.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| clin\_photodam | Who was the person to identify change? | numeric | 1 | 1 | none | no |
| 2 | mild |
| 3 | moderate |
| 4 | severe |
| 9 | unknown |

## Dermoscopic Characteristics

### Pigment Network

**ISIC variable: dermos\_net**

Field Description:Gridlike pattern consisting of interconnecting pigmented lines surrounding hypopigmented holes. A typical pigmented network has minimal variability in the color, thickness, and spacing of the lines; symmetrically distributed.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| dermos\_net | Is there discernible pigment network? | numeric | 1 | 1 | Yes-typical | no |
| 2 | Yes-atypical |
| 3 | Yes- typical & atypical |
| 4 | No |
| 8 | n.a. |
| 9 | unknown |

### Broadened Network

**ISIC variable: dermos\_broad\_net**

Field Description:A widened gridlike pattern consisting of interconnecting pigmented lines surrounding hypopigmented holes.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| dermos\_broad\_net | Was broadened network observed in the study lesion? | numeric | 1 | 1 | yes | no |
| 2 | no |
| 8 | n.a. |
| 9 | unknown |

### Delicate Network

**ISIC variable: dermos\_del\_net**

Field Description:A light brown, thingridlike pattern consisting of interconnecting pigmented lines surrounding hypopigmented holes.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| dermos\_del\_net | Was delicate network observed in the study lesion? | numeric | 1 | 1 | yes | no |
| 2 | no |
| 8 | n.a. |
| 9 | unknown |

### Negative Network

**ISIC variable: dermos\_neg\_net**

Field Description:Serpiginous interconnecting broadened hypopigmented lines that surround elongated and curvilinear globules.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| dermos\_neg\_net | Was negative network observed in the study lesion? | numeric | 1 | 1 | yes | no |
| 2 | no |
| 8 | n.a. |
| 9 | unknown |

### Shiny white structures

**ISIC variable: dermos\_shiny\_white**

Field Description:Short discrete white lines oriented parallel and orthogonal (perpendicular) to each other seen only under polarized dermoscopy

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| dermos\_shiny\_white | Were shiny white structures observed in the study lesion? | numeric | 1 | 1 | yes | no |
| 2 | no |
| 8 | n.a. |
| 9 | unknown |

### Dots

**ISIC variable: dermos\_dots**

Field Description:NEED DESC.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| dermos\_dots | Are there discernible dots in the lesion and what type of dots are they? | numeric | 1 | 1 | Yes-regular | no |
| 2 | Yes-irregular |
| 3 | Yes- regular & irregular |
| 4 | No |
| 8 | n.a. |
| 9 | unknown |

### Globules

**ISIC variable: dermos\_globules**

Field Description:NEED DESC.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| dermos\_globules | Are there discernible globules in the lesion and what type of globules are they? | numeric | 1 | 1 | Yes-regular | no |
| 2 | Yes-irregular |
| 3 | Yes- regular & irregular |
| 4 | No |
| 8 | n.a. |
| 9 | unknown |

### Globules- Cobblestone

**ISIC variable: dermos\_glob\_cobble**

Field Description:NEED DESC.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| dermos\_glob\_cobble | Were cobblestone globules observed in the study lesion? | numeric | 1 | 1 | yes | no |
| 2 | no |
| 8 | n.a. |
| 9 | unknown |

### Streaks

**ISIC variable: dermos\_streaks**

Field Description:NEED DESC.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| dermos\_streaks | Were streaks observed in the study lesion? | numeric | 1 | 1 | yes | no |
| 2 | no |
| 8 | n.a. |
| 9 | unknown |

### Starburst

**ISIC variable: dermos\_starburst**

Field Description:NEED DESC.

Starburst pattern is formed when peripheral globules radiate out from the rim of the lesion.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| dermos\_starburst | Were streaks observed in the study lesion? | numeric | 1 | 1 | yes | no |
| 2 | no |
| 8 | n.a. |
| 9 | unknown |

### Blotch

**ISIC variable: dermos\_blotch**

Field Description:NEED DESC.

Regular means that only one blotch was observed, while irregular denotes more than one, or if the blotch is off center.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| dermos\_blotch | Are there discernible globules in the lesion and what type of globules are they? | numeric | 1 | 1 | yes-regular | no |
| 2 | yes-irregular |
| 4 | no |
| 8 | n.a. |
| 9 | unknown |

### Tan peripheral structureless areas

**ISIC variable: dermos\_tan\_areas**

Field Description:NEED DESC.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| dermos\_tan\_areas | Were Tan peripheral structureless areas observed in the study lesion? | numeric | 1 | 1 | yes | no |
| 2 | no |
| 8 | n.a. |
| 9 | unknown |

### Homogeneous pigmentation

**ISIC variable: dermos\_homogen**

Field Description:NEED DESC.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| dermos\_homogen | Was homogeneous tan pigmentation observed throughout the study lesion? | numeric | 1 | 1 | yes | no |
| 2 | no |
| 8 | n.a. |
| 9 | unknown |

### Regression structures

**ISIC variable: dermos\_regression**

Field Description:NEED DESC.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| dermos\_regression | Were regression structures observed in the study lesion? | numeric | 1 | 1 | yes | no |
| 2 | no |
| 8 | n.a. |
| 9 | unknown |

### Blue-white veil

**ISIC variable: dermos\_bw\_veil**

Field Description:NEED DESC.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| dermos\_bw\_veil | Were regression structures observed in the study lesion? | numeric | 1 | 1 | yes | no |
| 2 | no |
| 8 | n.a. |
| 9 | unknown |

### Comma vessels

**ISIC variable: dermos\_ves\_comma**

Field Description:NEED DESC.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| dermos\_ves\_comma | Were comma vessels observed in the study lesion? | numeric | 1 | 1 | yes | no |
| 2 | no |
| 8 | n.a. |
| 9 | unknown |

### Milky red globules

**ISIC variable: dermos\_ves\_milky\_globs**

Field Description:NEED DESC.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| dermos\_ves\_milky\_globs | Were milky-red globules observed in the study lesion? | numeric | 1 | 1 | yes | no |
| 2 | no |
| 8 | n.a. |
| 9 | unknown |

### Milky red areas

**ISIC variable: dermos\_ves\_milky\_areas**

Field Description:NEED DESC.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| dermos\_ves\_milky\_areas | Were milky-red areas observed in the study lesion? | numeric | 1 | 1 | yes | no |
| 2 | no |
| 8 | n.a. |
| 9 | unknown |

### Dotted vessels

**ISIC variable: dermos\_ves\_dots**

Field Description:NEED DESC.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| dermos\_ves\_dots | Were dotted vessels observed in the study lesion? | numeric | 1 | 1 | yes | no |
| 2 | no |
| 8 | n.a. |
| 9 | unknown |

### Arborizing vessels

**ISIC variable: dermos\_ves\_arbor**

Field Description:NEED DESC.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| dermos\_ves\_arbor | Were arborizing vessels observed in the study lesion? | numeric | 1 | 1 | yes | no |
| 2 | no |
| 8 | n.a. |
| 9 | unknown |

### Linear irregular or serpentine vessels

**ISIC variable: dermos\_ves\_serp**

Field Description:NEED DESC.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| dermos\_ves\_serp | Were linear irregular or serpentine vessels observed in the study lesion? | numeric | 1 | 1 | yes | no |
| 2 | no |
| 8 | n.a. |
| 9 | unknown |

### Short fine vessels

**ISIC variable: dermos\_ves\_short**

Field Description:NEED DESC.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| dermos\_ves\_short | Were short fine vessels observed in the study lesion? | numeric | 1 | 1 | yes | no |
| 2 | no |
| 8 | n.a. |
| 9 | unknown |

### Glomerular vessels

**ISIC variable: dermos\_ves\_glom**

Field Description:NEED DESC.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| dermos\_ves\_glom | Were glomerular vessels observed in the study lesion? | numeric | 1 | 1 | yes | no |
| 2 | no |
| 8 | n.a. |
| 9 | unknown |

### Hairpin vessels

**ISIC variable: dermos\_ves\_hairpin**

Field Description:NEED DESC.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| dermos\_ves\_hairpin | Were Gvessels observed in the study lesion? | numeric | 1 | 1 | yes | no |
| 2 | no |
| 8 | n.a. |
| 9 | unknown |

### Corkscrew vessels

**ISIC variable: dermos\_ves\_cork**

Field Description:NEED DESC.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| dermos\_ves\_cork | Were corskscrew vessels observed in the study lesion? | numeric | 1 | 1 | yes | no |
| 2 | no |
| 8 | n.a. |
| 9 | unknown |

### Ulcerations / Erosions

**ISIC variable: dermos\_ulcerations**

Field Description:NEED DESC.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| dermos\_ulcerations | Were ulcerations observed in the study lesion? | numeric | 1 | 1 | yes | no |
| 2 | no |
| 8 | n.a. |
| 9 | unknown |

### Pattern symmetry

**ISIC variable: dermos\_patt\_symm**

Field Description:NEED DESC.

| Variable Name | Variable Description | Type | Length | Code | Values | Mandatory for inclusion |
| --- | --- | --- | --- | --- | --- | --- |
| dermos\_patt\_symm | Was there symmetry in two axes, one axis, or no symmetry at all. | numeric | 1 | 1 | 2 axes | no |
| 2 | 1 axis |
| 3 | No symmetry |
| 8 | n.a. |
| 9 | unknown |