

ISIC Archive Data Record Description

Version: v.2.0

Updated: 2024-10-11

Field name	isic_id
Field label	Unique image identifier
Primary source	ISIC generated from contributor specification
Field description	String that uniquely identifies an image in the ISIC Archive, which is generated once the image is published.
Field domain	usage-housekeeping
Data type	string
Values	regex: ISIC_[0-9]{7}
Unit	
Validation rules	
Mandatory for contribution	Not applicable
Exposed to anonymous users	Yes
Version	2.0
Comment	Example: ISIC_2989732

Field name	copyright_license
Field label	Creative Commons license subtype
Primary source	contributor specified
Field description	Specifies the types of usage that are allowed for a given image.

Field domain	usage-housekeeping
Data type	enumeration
Values	CC-0, CC-BY, CC-BY-NC
Unit	
Validation rules	
Mandatory for contribution	Yes
Exposed to anonymous users	Yes
Version	2.0
Comment	

Field name	attribution
Field label	Credited uploader of an image
Primary source	contributor specified
Field description	Text which must be reproduced by users of your images, to comply with Creative Commons Attribution requirements.
Field domain	usage-housekeeping
Data type	string
Values	
Unit	
Validation rules	
Mandatory for contribution	Yes
Exposed to anonymous users	Yes

Version	2.0
Comment	Example: Memorial Sloan Kettering Cancer Center

Field name	public
Field label	Visible to general users
Primary source	ISIC administrated
Field description	Designates whether the image is visible to the general public.
Field domain	usage-housekeeping
Data type	boolean
Values	
Unit	
Validation rules	
Mandatory for contribution	Not applicable
Exposed to anonymous users	Yes
Version	2.0
Comment	

Field name	filename
Field label	Uploaded filename
Primary source	contributor specified
Field description	Filename of an image uploaded by a contributor to a cohort.
Field domain	usage-housekeeping

Data type	string
Values	
Unit	
Validation rules	
Mandatory for contribution	Yes
Exposed to anonymous users	No
Version	2.0
Comment	No validation requirements for contributor-specified `filename`.

Field name	image_type
Field label	Image type
Primary source	contributor specified
Field description	Specifies the dermatologic image type.
Field domain	acquisition-technologic
Data type	enumeration
Values	dermoscopic, clinical: overview, clinical: close-up, TBP tile: overview, TBP tile: close-up, RCM: macroscopic, RCM: tile, RCM: mosaic
Unit	
Validation rules	
Mandatory for contribution	No

Exposed to anonymous users	Yes
Version	2.0
Comment	

Field name	dermoscopic_type
Field label	Dermoscopy type
Primary source	contributor specified
Field description	Specifies the modality of dermoscopic imaging utilized during image capture.
Field domain	acquisition-technologic
Data type	enumeration
Values	contact polarized, contact non-polarized, non-contact polarized
Unit	
Validation rules	field specific code: applies only when `image_type` is `dermoscopic`
Mandatory for contribution	No
Exposed to anonymous users	Yes
Version	2.0
Comment	

Field name	tbp_tile_type
Field label	Total Body Photography tile type

Primary source	contributor specified
Field description	Specifies the modality of total body imaging utilized during image capture.
Field domain	acquisition-technologic
Data type	enumeration
Values	3D: white, 3D: XP, 2D
Unit	
Validation rules	field specific code: applies only when `image_type` is `TBP tile: close-up` or `TBP tile: overview`
Mandatory for contribution	No
Exposed to anonymous users	Yes
Version	2.0
Comment	`white` and `XP` refer to white-light and cross-polarized lighting, respectively.

Field name	age_approx
Field label	Patient age
Primary source	ISIC generated from contributor specification
Field description	Displayed age of the imaged person at the time of photo capture, binned to 5-year intervals.
Field domain	patient-demographic
Data type	number
Values	
Unit	years

Validation rules	
Mandatory for contribution	Not applicable
Exposed to anonymous users	Yes
Version	2.0
Comment	Binned to 5-year intervals as a precaution against revealing PHI. Ages > 85 are rounded down to 85.

Field name	age
Field label	Contributor-defined patient age
Primary source	contributor specified
Field description	Age of the imaged person at the time of photo capture, provided by the image contributor.
Field domain	patient-dermographic
Data type	number
Values	
Unit	years
Validation rules	range: 0,150
Mandatory for contribution	No
Exposed to anonymous users	No
Version	2.0
Comment	

Field name	sex
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Field label	Sex
Primary source	contributor specified
Field description	Biologic sex of the imaged person.
Field domain	patient-demographic
Data type	enumeration
Values	male, female
Unit	
Validation rules	
Mandatory for contribution	No
Exposed to anonymous users	Yes
Version	2.0
Comment	

Field name	anatom_site_general
Field label	General anatomic location of the lesion
Primary source	contributor specified
Field description	This data item is used to identify the general anatomic location of the lesion on an individual's body.
Field domain	lesion-clinical
Data type	enumeration

Values	head/neck, upper extremity, lower extremity, anterior torso, lateral torso, posterior torso, palms/soles, oral/genital
Unit	
Validation rules	
Mandatory for contribution	No
Exposed to anonymous users	Yes
Version	2.0
Comment	

Field name	anatom_site_special
Field label	Anatomic site that does not fit the Anatomy Mapper schema
Primary source	contributor specified
Field description	This data element exists to specify the location of a lesion that would not have otherwise been specified according to the term `anatom_site`
Field domain	lesion-clinical
Data type	enumeration
Values	acral NOS, nail NOS, fingernail, toenail, acral palms or soles, oral or genital
Unit	

Validation rules	
Mandatory for contribution	No
Exposed to anonymous users	No
Version	2.0
Comment	May expand to include one or more of the following terms upon request by a contributor: milk-line, nail plate, periungual skin, hyponychium, nail apparatus, nail matrix, nail bed, nail folds, cuticle, mucosal NOS.

Field name	fitzpatrick_skin_type
Field label	Fitzpatrick skin type
Primary source	contributor specified
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 scale 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
Field domain	patient-demographic
Data type	enumeration
Values	I, II, III, IV, V, VI
Unit	
Validation rules	

Mandatory for contribution	No
Exposed to anonymous users	Yes
Version	2.0
Comment	

Field name	acquisition_day
Field label	Relative date of image capture
Primary source	contributor specified
Field description	Integer meant to indicate when the image was captured relative to other images of the same person.
Field domain	acquisition-housekeeping
Data type	integer
Values	
Unit	days
Validation rules	range: -10000, 10000
Mandatory for contribution	No
Exposed to anonymous users	Yes
Version	2.0
Comment	

Field name	personal_hx_mm
Field label	Personal history of melanoma
Primary source	contributor specified

Field description	This data item identifies whether the imaged person has a positive personal history for melanoma.
Field domain	patient-clinical_history
Data type	boolean
Values	
Unit	
Validation rules	
Mandatory for contribution	No
Exposed to anonymous users	Yes
Version	2.0
Comment	

Field name	family_hx_mm
Field label	Family history of melanoma
Primary source	contributor specified
Field description	This data item identifies whether the imaged person has a self reported family history of melanoma in a first degree relative defined as parent, sibling, or child.
Field domain	patient-clinical_history
Data type	boolean
Values	
Unit	
Validation rules	
Mandatory for contribution	No

Exposed to anonymous users	Yes
Version	2.0
Comment	

Field name	lesion_id
Field label	Lesion identifier index
Primary source	ISIC generated from contributor specification
Field description	String that associates the image to a lesion, which is generated once the image is published if contributor defines a `private_lesion_id`. Uniquely distinguishes the lesions within an upload cohort.
Field domain	lesion-housekeeping
Data type	string
Values	regex: IL_[0-9]{7}
Unit	
Validation rules	
Mandatory for contribution	Not applicable
Exposed to anonymous users	Yes
Version	2.0
Comment	Lesions may appear in multiple cohorts under different a `lesion_id`. Presence of this data element does not guarantee that other images are also associated to the lesion.

Field name	patient_id
Field label	Patient identifier index

Primary source	ISIC generated from contributor specification
Field description	String that associates the image to a person, which is generated once the image is published if contributor defines a `private_patient_id`. Uniquely distinguishes the persons within an upload cohort.
Field domain	patient-housekeeping
Data type	string
Values	regex: IP_[0-9]{7}
Unit	
Validation rules	
Mandatory for contribution	Not applicable
Exposed to anonymous users	Yes
Version	2.0
Comment	Patients may appear in multiple cohorts under different a `patient_id`. Presence of this data element does not guarantee that other images are also associated to the patient.

Field name	rcm_case_id
Field label	RCM case identifier index
Primary source	ISIC generated from contributor specification
Field description	String that associates the image to a RCM case/session, which is generated once the image is published if contributor defines a `private_rcm_case_id`. Uniquely distinguishes the RCM cases within an upload cohort and is necessary for registering images of a given RCM case through alignment metadata.
Field domain	rcm-housekeeping
Data type	string
Values	

Unit	
Validation rules	`image_type` must be one of either `RCM: macroscopic`, `RCM: tile`, or `RCM: mosaic`.
Mandatory for contribution	Not applicable
Exposed to anonymous users	No
Version	2.0
Comment	Relevant for aligning images attributed to an RCM case. RCM cases may appear in multiple cohorts under different a `rcm_case_id`. Presence of this data element does not guarantee that other images are also associated to the case.

Field name	private_lesion_id
Field label	Contributor-defined lesion identifier index
Primary source	contributor specified
Field description	Contributor-provided string that associates the image to a distinct lesion within an upload cohort.
Field domain	lesion-housekeeping
Data type	string
Values	
Unit	
Validation rules	
Mandatory for contribution	No
Exposed to anonymous users	No
Version	2.0
Comment	

Field name	private_patient_id
Field label	Contributor-defined patient identifier index
Primary source	contributor specified
Field description	Contributor-provided string that associates the image to a distinct person within an upload cohort.
Field domain	patient-housekeeping
Data type	string
Values	
Unit	
Validation rules	
Mandatory for contribution	No
Exposed to anonymous users	No
Version	2.0
Comment	

Field name	private_rcm_case_id
Field label	Contributor-defined RCM case identifier index
Primary source	contributor specified
Field description	Contributor-provided string that associates RCM images to a distinct RCM session within an upload cohort.
Field domain	rcm-housekeeping
Data type	string

Values	
Unit	
Validation rules	
Mandatory for contribution	No
Exposed to anonymous users	No
Version	2.0
Comment	Relevant for aligning images attributed to an RCM case.

Field name	clin_size_long_diam_mm
Field label	Lesion longest diameter
Primary source	contributor specified
Field description	A number describing the longest diameter of the segmentation boundary of the lesion in millimeter. Method of estimation is not specified.
Field domain	lesion-clinical_morphology
Data type	number
Values	
Unit	mm
Validation rules	range: 0,inf
Mandatory for contribution	No
Exposed to anonymous users	Yes
Version	2.0
Comment	

Field name	diagnosis
Field label	Diagnosis
Primary source	contributor specified
Field description	Diagnosis provided by the contributor during image upload. If a lesion has been pathologically evaluated, the term is used to denote the diagnosis most consistent with the pathology report. Otherwise, it represents a clinical diagnosis.
Field domain	lesion-diagnostic
Data type	enumeration
Values	See appendix
Unit	
Validation rules	
Mandatory for contribution	No
Exposed to anonymous users	Yes
Version	2.0
Comment	https://onlinelibrary.wiley.com/doi/epdf/10.1111/jdv.20055

Field name	diagnosis_1
Field label	Diagnosis supercategory
Primary source	ISIC generated from contributor specification
Field description	Malignancy classification.
Field domain	lesion-diagnostic
Data type	enumeration

Values	benign, indeterminate, malignant
Unit	
Validation rules	
Mandatory for contribution	Not applicable
Exposed to anonymous users	Yes
Version	2.0
Comment	https://onlinelibrary.wiley.com/doi/epdf/10.1111/jdv.20055

Field name	diagnosis_2
Field label	Diagnosis category
Primary source	ISIC generated from contributor specification
Field description	Diagnosis category classification.
Field domain	lesion-diagnostic
Data type	enumeration
Values	See appendix
Unit	
Validation rules	
Mandatory for contribution	Not applicable
Exposed to anonymous users	Yes
Version	2.0
Comment	https://onlinelibrary.wiley.com/doi/epdf/10.1111/jdv.20055

Field name	diagnosis_3
Field label	Diagnosis term
Primary source	ISIC generated from contributor specification
Field description	Diagnosis term classification.
Field domain	lesion-diagnostic
Data type	enumeration
Values	See appendix
Unit	
Validation rules	
Mandatory for contribution	Not applicable
Exposed to anonymous users	Yes
Version	2.0
Comment	https://onlinelibrary.wiley.com/doi/epdf/10.1111/jdv.20055

Field name	diagnosis_4
Field label	Diagnosis subterm first order
Primary source	ISIC generated from contributor specification
Field description	Diagnosis subterm first order classification.
Field domain	lesion-diagnostic
Data type	enumeration
Values	See appendix

Unit	
Validation rules	
Mandatory for contribution	Not applicable
Exposed to anonymous users	Yes
Version	2.0
Comment	https://onlinelibrary.wiley.com/doi/epdf/10.1111/jdv.20055

Field name	diagnosis_5
Field label	Diagnosis subterm second order
Primary source	ISIC generated from contributor specification
Field description	Diagnosis subterm second order classification.
Field domain	lesion-diagnostic
Data type	enumeration
Values	See appendix
Unit	
Validation rules	
Mandatory for contribution	Not applicable
Exposed to anonymous users	Yes
Version	2.0
Comment	https://onlinelibrary.wiley.com/doi/epdf/10.1111/jdv.20055

Field name	concomitant_biopsy
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Field label	Image taken immediately prior to biopsy
Primary source	contributor specified
Field description	This data element indicates whether or not the image was captured at or just prior to the lesion being biopsied.
Field domain	lesion-diagnostic
Data type	boolean
Values	
Unit	
Validation rules	
Mandatory for contribution	No
Exposed to anonymous users	Yes
Version	2.0
Comment	Used in the process of generating aggregated fields.

Field name	diagnosis_confirm_type
Field label	Method of diagnosis classification
Primary source	contributor specified
Field description	This data item is used to indicate how the classification of diagnosis was made.
Field domain	lesion-diagnostic
Data type	enumeration
Values	histopathology, single contributor clinical assessment, serial imaging showing no change, single image expert consensus, confocal microscopy with consensus dermoscopy

Unit	
Validation rules	
Mandatory for contribution	No
Exposed to anonymous users	Yes
Version	2.0
Comment	

Field name	melanocytic
Field label	Melanocytic lesion categorization
Primary source	contributor specified
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.
Field domain	lesion-diagnostic
Data type	boolean
Values	
Unit	
Validation rules	
Mandatory for contribution	No
Exposed to anonymous users	Yes
Version	2.0
Comment	

Field name	mel_thick_mm
Field label	Melanoma thickness
Primary source	contributor specified
Field description	This item is used to describe the deepest depth of invasion of the melanoma, measured in millimeters.
Field domain	lesion-histologic
Data type	number
Values	
Unit	mm
Validation rules	range: 0,inf
Mandatory for contribution	No
Exposed to anonymous users	Yes
Version	2.0
Comment	

Field name	mel_mitotic_index
Field label	Mitotic index of melanoma
Primary source	contributor specified
Field description	This item is used to denote the mitotic index when `diagnosis` is `melanoma`
Field domain	lesion-histologic
Data type	enumeration

Values	0/mm ² , <1mm ² , 1/mm ² , 2/mm ² , 3/mm ² , 4/mm ² , >4/mm ²
Unit	ratio of number of cells that are undergoing mitosis to the total number fo cells in the population
Validation rules	
Mandatory for contribution	No
Exposed to anonymous users	Yes
Version	2.0
Comment	

Field name	mel_ulcer
Field label	Histopathologic ulceration
Primary source	contributor specified
Field description	This data item is used to denote whether there was presence of histopathologic ulceration.
Field domain	lesion-histologic
Data type	boolean
Values	
Unit	
Validation rules	
Mandatory for contribution	No
Exposed to anonymous users	Yes

Version	2.0
Comment	

Appendix

Meta-metadata template

Field name	Character sequence without special characters (except “_”) identifying the field
Field label	A human readable/interpretable short name
Primary source	The source of information. {contributor specified; ISIC administrated; ISIC generated from contributor specification; ISIC generated through aggregation
Field description	Blob of text defining the meaning, purpose, and provenance of the field.
Field domain	{string
Data type	{enumeration, string, number, Boolean, integer
Values	{dependent on the data type
Unit	Enumeration of units or empty
Validation rules	{field specific code; numerical bounds, regex, archive-generated
Mandatory for contribution	Indicates whether the element is necessary to publish an image. {true/false
Exposed to anonymous users	Indicates whether the element is accessible to users or if it exists only to serve an administrative purpose. {true/false
Version	Version of the metadata element. {float
Comment	{string

Valid `diagnosis` terms and tree structure

Diagnosis

```

|--Level 1
  |--Level 2
    |--Level 3
      |--Level 4
        |--Level 5

```

Diagnosis

```

|--Benign
  |--Benign - Other
  |--Benign adnexal epithelial proliferations - Apocrine or Eccrine
    |--Apocrine tubular adenoma
    |--Cylindroma
    |--Cystadenoma
    |--Fibroadenoma
    |--Hidradenoma papilliferum
    |--Hidradenoma, Apocrine
      °--Hidradenoma, Apocrine, Predominantly with clear cells
    |--Hidradenoma
      °--Hidradenoma, Poroid
    |--Mixed tumor
      |--Mixed tumor, Apocrine type
      °--Mixed tumor, Eccrine type
    |--Poroma
    |--Spiradenoma
    |--Supernumerary nipple
    |--Syringocystadenoma papilliferum
    |--Syringofibroadenoma
    °--Syringoma
  |--Benign adnexal epithelial proliferations - Follicular
    |--Folliculosebaceous cystic hamartoma
    |--Nevus comedonicus
    |--Panfolliculoma
    |--Pilar sheath acanthoma
    |--Pilomatricoma
    |--Proliferating tricholemmal tumor
    |--Trichoblastoma
    |--Trichoepithelioma
      °--Trichoepithelioma, Desmoplastic
    |--Trichofolliculoma
    |--Tricholemmoma
      °--Tricholemmoma, Desmoplastic
    |--Tumor of follicular infundibulum
      °--Warty dyskeratoma
  |--Benign adnexal epithelial proliferations - Sebaceous
    |--Fibrofolliculoma
    |--Fordyce spots
    |--Nevus sebaceus
    |--Sebaceoma

```

- | | |--Sebaceous adenoma
- | | |--Sebaceous hyperplasia
- | | |°--Trichodiscoma
- | |--Benign epidermal proliferations
- | | |--Acantholytic acanthoma
- | | |--Clear cell acanthoma
- | | |--Epidermal nevus
- | | |--Epidermolytic acanthoma
- | | |--Large cell acanthoma
- | | |--Lichen planus like keratosis
- | | |--Melanoacanthoma
- | | |--Pigmented benign keratosis
- | | |--Porokeratosis
- | | |--Seborrheic keratosis
- | | |°--Seborrheic keratosis, Clonal
- | | |°--Solar lentigo
- | |--Benign melanocytic proliferations
- | | |--Nevus
- | | | |--Blue nevus
- | | | | |--Blue nevus, Cellular
- | | | | |--Blue nevus, Common
- | | | | |--Blue nevus, Epithelioid
- | | | | |--Blue nevus, Plaque type
- | | | | |°--Blue nevus, Sclerosing
- | | | |--Nevus, Acral
- | | | |--Nevus, Agminated
- | | | |--Nevus, Atypical, Dysplastic, or Clark
- | | | | |--Nevus, Atypical
- | | | | |--Nevus, Dysplastic
- | | | | |°--Nevus, Clark
- | | | |--Nevus, BAP-1 deficient
- | | | |--Nevus, Balloon cell
- | | | |--Nevus, Combined
- | | | |--Nevus, Congenital
- | | | | |--Nevus, Congenital, by history
- | | | | |--Nevus, Congenital, by histopathological pattern
- | | | | |°--Nevus, Congenital, by history and histopathological pattern
- | | | |--Nevus, Deep penetrating
- | | | |--Nevus, Halo
- | | | |--Nevus, Lentiginous
- | | | |--Nevus, Meyerson
- | | | |--Nevus, NOS, Compound
- | | | |--Nevus, NOS, Dermal
- | | | |--Nevus, NOS, Junctional
- | | | |--Nevus, Of special anatomic site
- | | | |--Nevus, Recurrent or persistent
- | | | |--Nevus, Reed
- | | | |--Nevus, Spilus
- | | | |°--Nevus, Spitz
- | |--Dermal melanocytosis
- | | |--Mongolian spot
- | | |--Nevus of Ito
- | | |°--Nevus of Ota

- | | |--Lentiginous melanocytic proliferation
- | | |--Lentigo simplex
- | | |--Pigmented epithelioid melanocytoma
- | | °--Proliferative nodule in congenital melanocytic nevi without atypia
- | |--Benign soft tissue proliferations - Adipocytic
- | | |--Angiolipoma
- | | |--Fibrolipoma
- | | |--Lipoma
- | | | |--Lipoma, Spindle cell
- | | | °--Lipoma, Pleomorphic
- | | °--Lipomatous nevus
- | |--Benign soft tissue proliferations - Cartilagenous and ossifying
- | | |--Accessory tragus
- | | |--Extraskeletal chondroma
- | | |--Osteoma cutis
- | | °--Subungual osteochondroma
- | |--Benign soft tissue proliferations - Fibro-histiocytic
- | | |--Angiofibroma
- | | | |--Angiofibroma, Facial
- | | | |--Angiofibroma, Penile
- | | | °--Angiofibroma, Periungual
- | | |--Dermatofibroma
- | | | |--Dermatofibroma, Aneurysmal
- | | | |--Dermatofibroma, Atypical
- | | | |--Dermatofibroma, Cellular
- | | | |--Dermatofibroma, Epithelioid
- | | | °--Dermatofibroma, Hemosiderotic
- | | |--Fibroepithelial polyp
- | | |--Fibroma
- | | | |--Fibroma, Pleomorphic
- | | | °--Fibroma, Sclerotic
- | | |--Giant cell tumor of the tendon sheath
- | | |--Juvenile xanthogranuloma
- | | |--Cutaneous Myxoma
- | | |--Non-Langerhans histiocytosis
- | | |--Reticulohistiocytosis
- | | |--Rosai-Dorfman disease
- | | °--Scar
- | | | |--Scar, Hypertrophic
- | | | °--Scar, Keloid
- | |--Benign soft tissue proliferations - Muscle tissue or myofibroblastic
- | | |--Angioleiomyoma
- | | |--Dartoid muscle leiomyoma
- | | |--Dermatomyofibroma
- | | |--Nodular Fasciitis
- | | |--Piloileiomyoma
- | | °--Smooth muscle hamartoma
- | |--Benign soft tissue proliferations - Myoepithelial
- | | °--Myoepithelioma
- | |--Benign soft tissue proliferations - Neural
- | | |--Granular cell tumor
- | | | |--Granular cell tumor, neural and s100 positive
- | | | °--Granular cell tumor, non-neural and s100 negative

- | | |--Nerve sheath myxoma
- | | |--Neurofibroma
- | | |--Plexiform Neurofibroma
- | | |--Neuroma
 - | | | |--Neuroma, Palisaded and encapsulated
 - | | | °--Neuroma, Traumatic
- | | |--Perineurioma
 - | | | °--Schwannoma
- | |--Benign soft tissue proliferations - Vascular
 - | | |--Acquired elastotic hemangioma
 - | | |--Acroangiodermatitis of Mali
 - | | |--Angiokeratoma
 - | | |--Angiolymphoid hyperplasia with eosinophilia
 - | | |--Arterio-venous malformation
 - | | |--Capillary vascular malformation
 - | | |--Glomangiomyoma
 - | | |--Glomeruloid hemangioma
 - | | |--Glomus tumor
 - | | |--Hemangioma
 - | | | |--Hemangioma, Cherry
 - | | | |--Hemangioma, Hobnail
 - | | | |--Hemangioma, Infantile
 - | | | °--Hemangioma, Tufted
 - | | |--Lymphangioma
 - | | | |--Lymphangioma, superficial
 - | | | °--Lymphangioma, deep
 - | | |--Nevus anemicus
 - | | |--Noninvoluting congenital hemangioma
 - | | |--Other vascular or lymphatic malformation or hamartoma
 - | | |--Pyogenic granuloma
 - | | |--Rapidly involuting congenital hemangioma
 - | | |--Telangiectasia
 - | | |--Vascular spider
 - | | |--Venous lake
 - | | |--Venous malformation
 - | | | °--Verrucous hemangioma
- | |--Collision - Only benign proliferations
- | |--Cysts
 - | | |--Comedo
 - | | |--Digital mucous cyst
 - | | |--Dilated pore
 - | | |--Infundibular or epidermal cyst
 - | | |--Sebaceous cyst
 - | | | |--Infundibular, Sebaceous
 - | | | °--Epidermal, Sebaceous
 - | | |--Keratinous cyst
 - | | | |--Infundibular, Keratinous
 - | | | °--Epidermal, Keratinous
 - | | |--Milium
 - | | |--Steatocystoma
 - | | | °--Trichilemmal or isthmic-catagen or pilar cyst
 - | | | | |--Trichilemmal cyst
 - | | | | |--Isthmic-catagen cyst

- °--Pilar cyst
- Exogenous
 - !--Foreign body granuloma
- °--Tattoo
- Flat melanotic pigmentations - not melanocytic nevus
 - !--Cafe au lait macule or patch
 - !--Ephelis
 - !--Ink-spot lentigo
 - !--Lentigo NOS
 - °--Mucosal melanotic macule
- Hemorrhagic lesions
 - °--Hemorrhage
 - !--Dermal and subcutaneous hemorrhage
 - !--Mucosal hemorrhage
 - !--Subcorneal and intracorneal hemorrhage
 - °--Subungual hemorrhage
- Inflammatory or infectious diseases
 - !--Verruca
 - °--Moluscum
- Langerhans cell proliferations
 - !--Erdheim Chester disease
 - !--Indeterminate cell histiocytosis
 - !--Langerhans cell histiocytosis
 - !--Langerhans cell histiocytosis, Diffuse or multifocal
 - °--Langerhans cell histiocytosis, Solitary or unifocal
 - °--Mixed Langerhans cell histiocytosis and Erdheim Chester disease
- °--Mast cell proliferations
 - !--Maculopapular mastocytoma
 - !--Mastocytoma, Solitary or unifocal
 - °--Mastocytosis
 - °--Mastocytosis, Diffuse or multifocal
 - !--Telangiectasia macularis eruptiva perstans
 - °--Mastocytosis, Diffuse cutaneous
- Indeterminate
 - !--Indeterminate epidermal proliferations
 - !--Solar or actinic cheilitis
 - °--Solar or actinic keratosis
 - !--Actinic keratosis, Acantholytic
 - !--Actinic keratosis, Atrophic
 - !--Actinic keratosis, Bowenoid
 - !--Actinic keratosis, Hypertrophic
 - °--Actinic keratosis, Lichenoid
 - °--Indeterminate melanocytic proliferations
 - !--Atypical Spitz tumor
 - !--Atypical Spitz tumor, Compound
 - !--Atypical Spitz tumor, Dermal
 - °--Atypical Spitz tumor, Junctional
 - !--Atypical intraepithelial melanocytic proliferation
 - !--Atypical melanocytic neoplasm
 - !--Atypical pigmented spindle cell tumor
 - !--Atypical proliferative nodules in congenital melanocytic nevus
 - !--Melanocytic tumor of uncertain malignant potential
 - °--Superficial atypical melanocytic proliferation of uncertain significance

- °--Malignant
 - !--Collision - At least one malignant proliferation
 - !--Lymphocytic proliferations - B-Cell
 - ! !--EBV positive mucocutaneous ulcer
 - ! !--Intravascular large B-cell lymphoma
 - ! !--Lymphocytic proliferation, B-Cell, other
 - ! !--Primary cutaneous follicle center lymphoma
 - ! !--Primary cutaneous large B-Cell lymphoma
 - ! °--Primary cutaneous marginal zone lymphoma
 - !--Lymphocytic proliferations - T-Cell/NK
 - ! !--Adult T-cell leukemia or lymphoma
 - ! !--Chronic active EBV infection
 - ! !--Extranodal T-cell/NK lymphoma
 - ! ! °--Extranodal T-cell/NK lymphoma, Nasal type
 - ! !--Lymphocytic proliferation, T-Cell/NK
 - ! !--Mycosis fungoides
 - ! ! !--Mycosis fungoides, Folliculotropic
 - ! ! !--Mycosis fungoides, Granulomatous slack skin
 - ! ! !--Mycosis fungoides, Pagetoid reticulosis
 - ! ! °--Mycosis fungoides, With large cell transformation
 - ! !--Primary cutaneous CD30+ lymphoproliferative disease
 - ! ! !--Cutaneous anaplastic large cell lymphoma
 - ! ! °--Lymphomatoid papulosis
 - ! !--Primary cutaneous CD4+ small or medium T-cell lymphoproliferative disorder
 - ! !--Primary cutaneous peripheral T-cell lymphoma
 - ! ! °--Primary cutaneous peripheral T-cell lymphoma, Rare subtype
 - ! !--Sezary syndrome
 - ! ! °--Subcutaneous panniculitis-like T-cell lymphoma
 - !--Malignant adnexal epithelial proliferations - Apocrine or Eccrine
 - ! !--Adenoid cystic carcinoma
 - ! !--Adnexal adenocarcinoma arising in association with spiradenoma, cylindroma, or spiradenocylindroma
 - ! !--Apocrine carcinoma
 - ! !--Digital papillary carcinoma
 - ! !--Hidradenocarcinoma
 - ! !--Malignant mixed tumor
 - ! !--Microcystic adnexal carcinoma
 - ! !--Mucinous carcinoma
 - ! !--Paget disease
 - ! ! !--Paget disease, Extra-mammary
 - ! ! °--Paget disease, Mammary
 - ! !--Porocarcinoma
 - ! ! °--Tubular carcinoma
 - !--Malignant adnexal epithelial proliferations - Follicular
 - ! !--Basal cell carcinoma
 - ! ! !--Basal cell carcinoma with adnexal differentiation
 - ! ! !--Basal cell carcinoma with sarcomatoid differentiation
 - ! ! !--Basal cell carcinoma, Combined subtypes
 - ! ! !--Basal cell carcinoma, Fibroepithelial
 - ! ! !--Basal cell carcinoma, Infiltrating
 - ! ! !--Basal cell carcinoma, Micronodular
 - ! ! !--Basal cell carcinoma, Nodular
 - ! ! !--Basal cell carcinoma, Sclerosing or morpheaform
 - ! ! ! °--Basal cell carcinoma, Superficial

- | |--Baso-squamous carcinoma
- | |--Matrical or pilomatrical carcinoma
- | °--Proliferating trichilemmal carcinoma
- |--Malignant adnexal epithelial proliferations - Sebaceous
 - | °--Sebaceous carcinoma
- |--Malignant epidermal proliferations
 - | |--Bowenoid papulosis
 - | |--Keratoacanthoma
 - | |--Squamous cell carcinoma in situ
 - | | °--Squamous cell carcinoma in situ, Bowens disease
 - | |--Squamous cell carcinoma, Invasive
 - | | |--Squamous cell carcinoma, Invasive, Acantholytic
 - | | | |--Squamous cell carcinoma, Invasive, Acantholytic, well differentiated
 - | | | |--Squamous cell carcinoma, Invasive, Acantholytic, moderately differentiated
 - | | | °--Squamous cell carcinoma, Invasive, Acantholytic, poorly differentiated
 - | | |--Squamous cell carcinoma, Invasive, Adeno-squamous
 - | | | |--Squamous cell carcinoma, Invasive, Adeno-squamous, well differentiated
 - | | | |--Squamous cell carcinoma, Invasive, Adeno-squamous, moderately differentiated
 - | | | °--Squamous cell carcinoma, Invasive, Adeno-squamous, poorly differentiated
 - | | |--Squamous cell carcinoma, Invasive, Clear cell
 - | | | |--Squamous cell carcinoma, Invasive, Clear cell, well differentiated
 - | | | |--Squamous cell carcinoma, Invasive, Clear cell, moderately differentiated
 - | | | °--Squamous cell carcinoma, Invasive, Clear cell, poorly differentiated
 - | | |--Squamous cell carcinoma, Invasive, Keratoacanthoma-type
 - | | | |--Squamous cell carcinoma, Invasive, Keratoacanthoma-type, well differentiated
 - | | | |--Squamous cell carcinoma, Invasive, Keratoacanthoma-type, moderately differentiated
 - | | | °--Squamous cell carcinoma, Invasive, Keratoacanthoma-type, poorly differentiated
 - | | |--Squamous cell carcinoma, Invasive, Sarcomatoid
 - | | | |--Squamous cell carcinoma, Invasive, Sarcomatoid, well differentiated
 - | | | |--Squamous cell carcinoma, Invasive, Sarcomatoid, moderately differentiated
 - | | | °--Squamous cell carcinoma, Invasive, Sarcomatoid, poorly differentiated
 - | | |--Squamous cell carcinoma, Invasive, Spindle cell
 - | | | |--Squamous cell carcinoma, Invasive, Spindle cell, well differentiated
 - | | | |--Squamous cell carcinoma, Invasive, Spindle cell, moderately differentiated
 - | | | °--Squamous cell carcinoma, Invasive, Spindle cell, poorly differentiated
 - | | |--Squamous cell carcinoma, Invasive, Verrucous
 - | | | |--Squamous cell carcinoma, Invasive, Verrucous, well differentiated
 - | | | |--Squamous cell carcinoma, Invasive, Verrucous, moderately differentiated
 - | | | °--Squamous cell carcinoma, Invasive, Verrucous, poorly differentiated
 - | | |--Squamous cell carcinoma, Invasive, NOS, well differentiated
 - | | |--Squamous cell carcinoma, Invasive, NOS, moderately differentiated
 - | | | °--Squamous cell carcinoma, Invasive, NOS, poorly differentiated
 - | |--Squamous cell carcinoma, NOS
 - | | °--Verrucous carcinoma
 - | | | |--Verrucous carcinoma, Carcinoma cuniculatum type
 - | | | |--Verrucous carcinoma, Giant condyloma type
 - | | | °--Verrucous carcinoma, Oral florid papillomatosis type
- |--Malignant melanocytic proliferations (Melanoma)
 - | |--Melanoma Invasive
 - | | |--Melanoma Invasive, Acral or Acral-lentiginous
 - | | |--Melanoma Invasive, Arising in a congenital nevus
 - | | |--Melanoma Invasive, Associated with a nevus
 - | | |--Melanoma Invasive, Blue nevus-like

- | | | |--Melanoma Invasive, resembling blue nevus
- | | | °--Melanoma Invasive, originating from blue nevus
- | | | |--Melanoma Invasive, Desmoplastic
- | | | |--Melanoma Invasive, Heavily pigmented
- | | | °--Melanoma Invasive, Heavily pigmented, resembling epithelioid blue nevus or melanoma developing in animal
- | | | |--Melanoma Invasive, Mucosal
- | | | |--Melanoma Invasive, Neurotropic
- | | | |--Melanoma Invasive, Nevoid
- | | | |--Melanoma Invasive, Nodular
- | | | |--Melanoma Invasive, On chronically sun-exposed skin or lentigo maligna melanoma
- | | | |--Melanoma Invasive, Pigmented spindle cell nevus like
- | | | |--Melanoma Invasive, Recurrent or persistent
- | | | |--Melanoma Invasive, Spitzoid
- | | | °--Melanoma Invasive, Superficial spreading
- | |--Melanoma in situ
- | | |--Melanoma in situ, Acral or acral-lentiginous
- | | |--Melanoma in situ, Lentigo maligna type
- | | |--Melanoma in situ, Mucosal
- | | |--Melanoma in situ, Recurrent or persistent
- | | |--Melanoma in situ, Superficial spreading
- | | °--Melanoma in situ, associated with a nevus
- | |--Melanoma metastasis
- | °--Melanoma, NOS
- |--Malignant soft tissue proliferations - Adipocytic
- | °--Liposarcoma
- | | |--Liposarcoma, Undifferentiated
- | | °--Liposarcoma, Well differentiated
- |--Malignant soft tissue proliferations - Cartilagenous and ossifying
- | °--Extraskeletal osteosarcoma
- |--Malignant soft tissue proliferations - Fibro-histiocytic
- | | |--Atypical fibroxanthoma
- | | |--Dermatofibrosarcoma protuberans
- | | |--Epithelioid sarcoma
- | | |--Fibrosarcoma
- | | °--Pleomorphic undifferentiated sarcoma
- |--Malignant soft tissue proliferations - Muscle tissue or myofibroblastic
- | | |--Atypical intradermal smooth muscle tumor
- | | |--Leiomyosarcoma, Cutaneous
- | | °--Rhabdomyosarcoma, Cutaneous
- |--Malignant soft tissue proliferations - Myoepithelial
- | °--Myoepithelial sarcoma
- |--Malignant soft tissue proliferations - Neural
- | | |--Malignant granular cell tumor
- | | °--Malignant peripheral nerve sheath tumor
- |--Malignant soft tissue proliferations - Unknown or other histiogenesis
- | °--Ewing sarcoma, Primary cutaneous
- |--Malignant soft tissue proliferations - Vascular
- | | |--Angiosarcoma cutaneous
- | | | |--Angiosarcoma cutaneous, Epithelioid
- | | | |--Angiosarcoma cutaneous, Face and scalp of elderly patients
- | | | |--Angiosarcoma cutaneous, Post-irradiation
- | | | °--Angiosarcoma cutaneous, With associated lymphedema
- | | |--Hemangioendothelioma

- | | °--Hemangioendothelioma, Kaposiform
- | |!--Kaposi sarcoma
- | | °--Malignant glomus tumor
- |!--Merkel cell proliferation
- | | °--Merkel cell carcinoma
- °--Skin metastasis of internal solid cancer - non-hematological