

Datasheet for DermaCon-IN

This document outlines the schema for interpreting the CSV metadata file, detailing all fields, their descriptions, data types, and valid entries. It also includes comprehensive statistics such as fine-grained counts of specific fields. Furthermore, the document presents a hierarchical label mapping, organizing disease annotations from broader main classes to finer-grained subclasses and specific disease labels.

Table 1: Schema of the DermaCon-IN Dataset

Column Name	Type	Description	Allowed Values / Notes
Image_name	String	Unique filename or image identifier.	Image names with various conventions, e.g., IMG_0001.jpg
Subject_ID	String	Unique subject/patient identifier.	Example: SUB00001
Quality	String	Diagnostic image quality assessment.	“Yes, the quality is sufficient for diagnosis”, “No, the quality is insufficient for diagnosis”, “Image looks normal”
Sex	String	Biological sex of the subject.	“Male”, “Female”
Age	String	Age group of the subject in years.	“0 - 10”, “10 - 20”, ..., “80 - 100”
Gradability	String	Whether the image is gradable.	“Yes” or “No”
Fitzpatrick	String	Fitzpatrick Skin Type.	“FST 1” to “FST 6”; “N/A” for ungradable images
Monk_skin_tone	String	Monk Skin Tone scale value.	“MST 1” to “MST 10”; “N/A” for ungradable images
Body_part	String	Anatomical region captured in the image.	49 body parts, e.g., “Back”, “Scalp”, “Genital Area (Pubic Region)”
Descriptors	String	Descriptive visual/morphologic concepts associated with the lesion.	47 descriptors like “Abscess”, “Plaque”, “Vesicle”; multiple values separated by semicolons
Main_class	String	Broad etiological disease class (Rook’s taxonomy).	8 classes: “Infectious Disorders”, “Inflammatory Disorders”, etc.
Sub_class	String	Specific disease subtype within the main class.	19 sub-classes like “Hair Disorders”, “Fungal Infections”, “Keratinisation Disorders”
Disease_label	String	Disease label from dermatological ontology.	245 disease names covering common and rare conditions
Confidence	Int	Diagnostic confidence rating by annotator.	Integer from 1 (low) to 5 (high)

Table 2: Distribution of Demographic Metadata

Sex Distribution	
Value	Count
Male	3386
Female	2064

Confidence Score	
Score	Count
2	1
3	41
4	199
5	5209

Gradability	
Value	Count
Yes	5450
No	0

Age Group Distribution	
Age Range	Count
0–10	532
10–20	642
20–40	2131
40–60	1685
60–80	434
80–100	26

Fitzpatrick Type	
FST	Count
FST 3	1403
FST 4	2620
FST 5	1285
FST 6	136
N/A	6

Monk Skin Tone	
MST	Count
MST 4	152
MST 5	1272
MST 6	1961
MST 7	1684
MST 8	368
MST 9	7
N/A	6

Table 3: Distribution of Clinical Concept Annotations (Descriptor and Body Part)

Descriptor Counts		Body Part Counts	
Concept	Count	Concept	Count
Plaque	2316	Head Cheeks	799
Pigmented	1931	Trunk Abdomen	568
Erythema	1594	Lower Extremities Lower Legs	449
Scale	1466	Genital Area (Pubic Region)	384
Patch	1336	Lower Extremities Thighs (Femoral Region)	348
Papule	1055	Groin (Inguinal Region)	344
White (Hypopigmentation)	831	Lower Extremities Feet (Pedal Region)	338
Erosion	417	Upper Extremities Hands (Manus)	330
Crust	237	Back	316
Macule	223	Upper Extremities Forearms (Antebrachium)	271
Vesicle	219	Trunk Buttocks (Gluteal Region)	254
Pustule	189	Head Scalp	253
Nodule	188	Upper Extremities Hands (Manus) Fingers (Digits)	253
Comedo	174	Neck	243
Atrophy	167	Head Forehead	239
Hair Patch	140	Trunk Abdomen anterior	229
Scar	132	Head Nose	185
Fissure	131	Lower Extremities Lower Legs (Crural Region)	172
Exudate	125	Head Temples	169
Lichenification	121	Upper Extremities Upper Arms (Brachium)	168
Hyperkeratotic plaques	118	Lower Extremities Ankles (Tarsal Region)	159
Bulla	94	Trunk Chest (Thorax)	152
Excoriation	87	Head Chin	132
Xerosis	84	Head Lips	117
Abscess	73	Lower Extremities Feet (Pedal Region) Toes (Digits)	116
Edema	65	Lower Extremities Knees (Patellar Region)	110
Discolored Nail	53	Trunk Abdomen posterior	110
Warty	53	Lower Extremities Soles (Plantar Region)	95
Cyst	48	Palms	93
Wheal	43	Upper Extremities Elbows	91
Pedunculated	42	Armpits (Axillary Region)	85
Burrow	41	Head Ears	85
Ulcer	38	Upper Extremities Shoulders	72
Striae	28	Head Eye	61
Induration	24	LowerBack (Lumbus)	61
Purpura/Petechiae	21	Upper Extremities Wrists (Carpus)	40
Acuminate	18	Navel (Umbilicus)	38
Exophytic/Fungating	18	Trunk Back (Dorsum)	34
Telangiectasia	13	Back of the Knees (Popliteal Region)	31
Brown (Hyperpigmentation)	8	Calves (Sural Region)	26
Salmon	4	Trunk AbdomenNavel (Umbilicus)	22
Dilated Vein	3	Lower Extremities Toes (Digits)	19
Flat-topped	2	Breasts (Mammary Region)	17
Pitted Nail	2	Nails Fingernails	14
Yellow	2	Mucous Membranes Oral Cavity	10
Gray	1	Tongue	10
Poikiloderma	1	Lower Extremities Hips (Coxal Region)	8
		Perianal Area	7
		Nails Toenails	4

Table 4: Distribution of Disease Categories: Main Class and Sub Class

Main_class Distribution		Sub_class Distribution	
Main_class	Count	Sub_class	Count
Infectious Disorders	2227	Infectious skin conditions -Fungal	1513
Inflammatory Disorders	1592	Pigmentary Disorders	831
Pigmentary Disorders	831	Inflammatory skin diseases (Eczema and Dermatitis)	727
Skin Appendages Disorders	480	Inflammatory skin diseases (Other)	447
Other skin disorders	159	Inflammatory skin diseases (Psoriasis and Lichenoid disorders)	418
Keratanisation Disorders	72	Sebaceous Glands and Acneiform Disorders	352
Neoplasms and tumors	52	Infectious skin conditions -Parasitic	241
No Definite Diagnosis	37	Infectious skin conditions -Bacterial	176
		Other skin disorders	159
		Hair Disorders	128
		Infectious skin conditions -Viral	107
		Inflammatory skin diseases + Infectious skin conditions -Bacterial	104
		Keratanisation Disorders	72
		Neoplasms and tumors	52
		No Definite Diagnosis	37
		Infectious skin conditions -Parasitic + Infectious skin conditions -Bacterial	36
		Infectious skin conditions -Fungal + Infectious skin conditions -Bacterial	26
		Inflammatory skin diseases + Infectious skin conditions -Fungal	13
		Infectious skin conditions -Leprosy	11

Table 5: Distribution of Disease Labels

Disease Label	Count	Disease Label	Count	Disease Label	Count	Disease Label	Count
Vitiligo	601	Chickenpox exanthem	13	Granuloma pyogenic	4	Balanitis	1
Tinea Cruris	545	Scar Condition	13	Herpes genitalis	4	Becker nevus	1
Tinea Corporis	323	Discoid Lupus Erythematosus	12	Kumkum Dermatitis	4	Bowen's Metastasis	1
Scabies	183	Ear Eczema	12	Lichenoid eruption	4	Bullous Fixed Drug Eruption	1
Acne	181	Epidermolysis Bullosa Simplex	12	Lupus vulgaris	4	Cellulitis	1
Psoriasis	159	Hemangioma	12	Mycosis fungoides	4	Chronic eczema with secondary infection	1
Eczema	156	Hypertrophic Scar / Keloid	12	Phimosis	4	Chronic eczema with secondary infection	1
Contact Dermatitis	141	Sebacous Cyst	12	Sun damaged skin	4	Cutaneous Anthrax	1
Tinea Faciei	137	Vasculitis	12	Sunburn	4	Cutaneous larva migrans	1
Steroid Modified Tinea	114	Verruca Vulgaris	12	Ulcer	4	Cyst	1
Candidal Intertrigo	112	Hansen's disease	11	Urticarial vasculitis	4	Dermatofibroma	1
Alopecia Areata	83	Milia	11	Acne Keloidalis	3	Eczematized Tinea	1
Melasma	80	Basal Cell Carcinoma	10	Bullous Pemphigoid	3	Erythrasma	1
Tinea Versicolor	78	Epidermal nevus	10	Cutaneous sarcoidosis	3	Guttated Lichen Planus	1
Acne Conglobata	76	Hypertrophic Lichen Planus	10	Demodicosis	3	Haemorrhoids	1
Infected Eczema	73	Keratoderma	10	Drug Rash	3	Hyper Hydrosis	1
Topical Steroid Damaged Face	64	Post-Inflammatory hypopigmentation	10	Dry Discoid Eczema	3	Hyperpigmentation disorder	1
Seborrheic Dermatitis	60	Pustular Scabies	10	Erythema Annulare Centrifugum	3	Infected Nodule	1
Lichen Planus	57	Sweat Dermatitis	10	Facial hypermelanosis	3	Infection of toe web	1
Photodermatitis	55	Diabetic Ulcer	9	Herpes Labialis	3	Inflammatory Linear	1
Post-Inflammatory hyperpigmentation	54	Disseminated Eczema	9	Keratolysis Exfoliativa	3	Verrucous Epidermal Nevus	1
Scrotal Dermatitis	54	Fissure Foot	9	Lichen striatus	3	Inverse psoriasis	1
Urticaria	52	Idiopathic Guttate Hypomelanosis	9	Maduromycosis	3	Keratoacanthoma	1
Pruritic Urticarial Papules	48	Keratosis pilaris	9	Mucosal Ulcer or Cyst	3	Keratoderma with Secondary Infection	1
Xerosis	48	Pityriasis rosea	9	Palmar psoriasis	3	Kerion	1
Pyoderma	45	Chromoblastomycosis	8	Paronychia	3	Kyrle's Disease	1
Onychomycosis	44	Chronic Bullous Disease of Childhood	8	Reticulate acropigmentation of Dohi	3	Lichen simplex	1
Candidal Balanoposthitis	42	Pityriasis lichenoides chronica	8	Rosacea	3	Miliaria	1
Palmoplantar Keratoderma	41	Port wine stain	8	Seborrheic Melanosis	3	Mongolian spot	1
Pemphigus vulgaris	39	Psoriasis Vulgaris	8	Skin ulcer	3	Morphea	1
Insect Bite Reaction	37	Steroid Induced Facies	8	Syphilis	3	Mucus Cyst	1
No Definite Diagnosis	37	Acanthosis nigricans	7	Tinea Infected with secondary bacterial Infection	3	Myxoid Cyst	1
Truncal Acne	35	Cherry Angioma	7	Varicose vein	3	Nevus sebaceous	1
Nodular Scabies	34	Dryness (xerosis)	7	Anetoderma	2	Nodular vasculitis	1
Prurigo nodularis	34	Epidermolysis Bullosa	7	Angioedema	2	Nutritional Dermatitis	1
Chronic plaque psoriasis	33	Folliculitis Decalvans	7	Congenital Disease	2	Ochronosis	1
Herpes Zoster	33	Myctoma	7	Contact Dermatitis with secondary infection	2	Pemphigus foliaceus	1
Polymorphous Light Eruption	33	Paederus dermatitis	7	Contact purpura	2	Perioral dermatitis	1
Allergic Contact Dermatitis	32	Pellagra dermatitis	7	Corn	2	Pigmented purpuric eruption	1
Furuncle	32	Pruritic dermatitis	7	Crusted eczematous dermatitis	2	Pseudo lymphoma	1
Scabies Infected	32	Scleroderma	7	Ecchymosis	2	Pseudoepitheliomatous keratotic & micaceous balanitis	1
Tinea Capitis	32	Seborrheic Keratosis	7	Epidermodysplasia Verruciformis	2	Pseudofolliculitis barbae	1
Atopic Dermatitis	30	Striae	7	Erythema multiforme	2	Pseudolymphoma	1
Lichen Simplex Chronicus	29	Xerosis vulgaris	7	Foot ulcer	2	Purpuric Dermatoses	1
Pityriasis Alba	27	Cutaneous amyloidosis	6	Geographic Tongue	2	Pustular psoriasis	1
Wart	27	Diaper Dermatitis	6	Granuloma annulare	2	SLE - Systemic lupus erythematosus-related syndrome	1
Androgenic Alopecia	26	Infected Keratoderma	6	Itchy skin eruption	2	Steatocystoma Multitplex	1
Candidal Vulvovaginitis	24	Lichen sclerosus	6	Lichen spinulosus	2	Syringoma	1
Impetigo	24	Viral exanthem	6	Linear Lichen Planus	2	Tick bite	1
Folliculitis	23	Darier's disease	5	Melanoma	2	Trophic Ulcer	1
Guttate Psoriasis	22	Drug eruption	5	Nail dystrophy	2	White piedra	1
Tinea	22	Infected Tinea	5	Necrotizing Fasciitis	2	Xanthelasma Palpebrarum	1
Acrochordon	21	Keloid Milium	5	Neurofibroma	2	Xanthoma	1
Keloid	21	Lichen planopilaris	5	Nevus anemicus	2		
Lichen Planus pigmentosus	21	Lipoma	5	Nevus Depigmentosus	2		
Acne Scars	20	Oral Candidiasis	5	Ophiasis	2		
Cheilitis	20	Phrynoderma	5	Pseudomonas	2		
Dermatosis Papulosa Nigra	17	Prurigo	5	Pyoderma gangrenosum	2		
Nevocytic nevus	17	Squamous Cell Carcinoma	5	Staphylococcal Scalded Skin Syndrome	2		
Tinea Manuum	17	Trichoepithelioma	5	Zoon's Balanitis	2		
Traction alopecia	17	Varicella Zoster	5				
Actinic Dermatitis	16	Ecthyma	4				
Tinea pedis	16						
Chronic actinic dermatitis	15						
Textile Dermatitis	15						
Burn of skin	14						
Fixed Drug Eruption	14						
Hidradenitis	14						
Lichen nitidus	14						
Molluscum Contagiosum	14						
Phytophotodermatitis	14						
Prurigo Simplex	14						

Table 6: Hierarchical label mapping: Main Class → Sub Class → Disease Label

Main Class	Subclass	Disease Labels
Infectious Disorders	Infectious skin conditions -Bacterial	Cellulitis, Cutaneous Anthrax, Diabetic Ulcer, Ecthyma, Erythrasma, Folliculitis, Folliculitis Decalvans, Foot ulcer, Furuncle, Impetigo, Infected Eczema, Lupus vulgaris, Necrotizing Fasciitis, Pseudofolliculitis barbae, Pseudomonas, Pyoderma, Pyoderma gangrenosum, Scabies Infected, Skin ulcer, Staphylococcal Scalded Skin Syndrome, Syphilis, Ulcer
	Infectious skin conditions -Fungal	Candidal Balanoposthitis, Candidal Intertrigo, Candidal Vulvovaginitis, Infected Tinea, Infection of toe web, Kerion, Onychomycosis, Oral Candidiasis, Paronychia, Steroid Modified Tinea, Tinea, Tinea Capitis, Tinea Corporis, Tinea Cruris, Tinea Faciei, Tinea Infected with secondary bacterial Infection, Tinea Manuum, Tinea Versicolor, White piedra ,Tinea pedis
	Infectious skin conditions -Fungal + Infectious skin conditions -Bacterial	Chromoblastomycosis, Infected Tinea, Maduromycosis, Mycetoma, Mycosis fungoides, Pyoderma, Tinea Cruris, Tinea Infected with secondary bacterial Infection
	Infectious skin conditions -Leprosy	Hansen's disease
	Infectious skin conditions -Parasitic	Cutaneous larva migrans, Demodicosis, Molluscum Contagiosum, Nodular Scabies, Nodular vasculitis, Pustular Scabies, Scabies, Scabies Infected, Tick bite
	Infectious skin conditions -Parasitic + Infectious skin conditions -Bacterial	Molluscum Contagiosum, Pustular Scabies, Scabies Infected
	Infectious skin conditions -Viral	Chickenpox exanthem, Corn, Epidermodysplasia Verruciformis, Herpes Labialis, Herpes Zoster, Herpes genitalis, Varicella Zoster, Verruca Vulgaris, Viral exanthem, Wart
Inflammatory Disorders	Inflammatory skin diseases + Infectious skin conditions -Bacterial	Chronic eczema with secondary infection, Contact Dermatitis with secondary infection, Cutaneous sarcoidosis, Hidradenitis, Infected Eczema, Infected Keratoderma, Infected Nodule, Keratoderma, Lichen Simplex Chronicus, Pseudomonas, Pustular psoriasis, Pyoderma gangrenosum
	Inflammatory skin diseases + Infectious skin conditions -Fungal	Lichen Simplex Chronicus, Palmoplantar Keratoderma, Steroid Modified Tinea, Tinea Corporis, Tinea Faciei
	Inflammatory skin diseases (Eczema and Dermatitis)	Actinic Dermatitis, Allergic Contact Dermatitis, Atopic Dermatitis, Balanitis, Chronic actinic dermatitis, Contact Dermatitis, Crusted eczematous dermatitis, Diaper Dermatitis, Disseminated Eczema, Dry Discoid Eczema, Ear Eczema, Eczema, Eczematized Tinea, Kumkum Dermatitis, Nutritional Dermatitis, Paederus dermatitis, Pellagra dermatitis, Perioral dermatitis, Photodermatitis, Phytophotodermatitis, Pruritic dermatitis, Purpuric Dermatoses, Scrotal Dermatitis, Seborrheic Dermatitis, Sweat Dermatitis, Textile Dermatitis, Topical Steroid Damaged Face
	Inflammatory skin diseases (Other)	Angioedema, Bullous Fixed Drug Eruption, Bullous Pemphigoid, Chronic Bullous Disease of Childhood, Contact purpura, Discoid Lupus Erythematosus, Drug Rash, Drug eruption, Dryness (xerosis), Ecchymosis, Epidermolysis Bullosa, Epidermolysis Bullosa Simplex, Erythema Annulare Centrifugum, Erythema multiforme, Fissure Foot, Fixed Drug Eruption, Granuloma annulare, Insect Bite Reaction, Kyrle's Disease, Pemphigus foliaceus, Pemphigus vulgaris, Pigmented purpuric eruption, Polymorphous Light Eruption, Prurigo, Prurigo Simplex, Prurigo nodularis, Pruritic Urticarial Papules, Pseudo lymphoma, SLE - Systemic lupus erythematosus-related syndrome, Scleroderma, Seborrheic Melanosis, Steroid Induced Facies, Sun damaged skin, Urticaria, Urticarial vasculitis, Vasculitis, Xerosis vulgaris, Itchy skin eruption, Zoon's Balanitis
	Inflammatory skin diseases (Psoriasis and Lichenoid disorders)	Chronic plaque psoriasis, Guttate Psoriasis, Guttate Lichen Planus, Hypertrophic Lichen Planus, Inverse psoriasis, Lichen Planus, Lichen Simplex Chronicus, Lichen nitidus, Lichen planopilaris, Lichen sclerosus, Lichen simplex, Lichen spinulosus, Lichen striatus, Lichenoid eruption, Linear Lichen Planus, Palmar psoriasis, Pityriasis Alba, Pityriasis lichenoides chronica, Pityriasis rosea, Psoriasis Vulgaris, Lichen Planus pigmentosus, Psoriasis
Keratanisation Disorders	Keratanisation Disorders	Darier's disease, Keratoderma, Keratoderma with Secondary Infection, Keratolysis Exfoliativa, Keratosis pilaris, Palmoplantar Keratoderma, Pseudoepitheliomatous keratotic & micaceous balanitis, Seborrheic Keratosis
Neoplasms And Tumors	Neoplasms and tumors	Basal Cell Carcinoma, Bowen's Metastasis, Cutaneous amyloidosis, Dermatitis Papulosa Nigra, Keratoacanthoma, Lipoma, Melanoma, Neurofibroma, Squamous Cell Carcinoma, Trichoepithelioma
Other Skin Disorders	Other skin disorders	Anetoderma, Burn of skin, Cheilitis, Congenital Disease, Cyst, Dermatofibroma, Geographic Tongue, Granuloma pyogenic, Haemorrhoids, Hyper Hydrosis, Hypertrophic Scar / Keloid, Keloid, Keloid Miliun, Lipoma, Milia, Morphea, Mucosal Ulcer or Cyst, Mucus Cyst, Nail dystrophy, Phimosis, Phrynoderma, Pseudolymphoma, Scar Condition, Striae, Sunburn, Trophic Ulcer, Varicose vein, Xanthelasma Palpebrarum, Xanthoma, Reticulate acropigmentation of Dohi, Xerosis
Pigmentary Disorders	Pigmentary Disorders	Acanthosis nigricans, Becker nevus, Cherry Angioma, Epidermal nevus, Facial hypermelanosis, Hemangioma, Hyperpigmentation disorder, Idiopathic Guttate Hypomelanosis, Inflammatory Linear Verrucous Epidermal Nevus, Melasma, Mongolian spot, Nevocytic nevus, Nevus Depigmentosis, Nevus anemicus, Nevus sebaceous, Ochronosis, Port wine stain, Post-Inflammatory hyperpigmentation, Post-Inflammatory hypopigmentation, Vitiligo
Skin Appendages Disorders	Sebaceous Glands and Acneiform Disorders Hair Disorders	Acne, Acne Conglobata, Acne Keloidalis, Acne Scars, Acrochordon, Miliaria, Myxoid Cyst, Rosacea, Steatocystoma Multiplex, Syringoma, Truncal Acne, Sebaceous Cyst Alopecia Areata, Androgenic Alopecia, Ophiasis, Traction alopecia
No Definite Diagnosis	No Definite Diagnosis	No Definite Diagnosis