

# Boards' Fodder: Histologic Bodies

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This is the fourth installment in an ongoing series designed to bring to light “askable factoids” for the dermatology boards and mock boards. This installment focuses on important (or frequently asked) histologic bodies. Again, by no means is the list exhaustive, but . . .enjoy!

BODY	DESCRIPTION	ENTITY OR ENTITIES
Antoni A tissue	Cellular areas with Verocay bodies	Schwannoma
Antoni B tissue	Loose stromal area with relative paucity of cells	Schwannoma
Arao-Perkins Bodies	Elastin bodies seen within “streamers” beneath vellus follicles	Androgenic alopecia
Asteroid Bodies	Stellate collections of eosinophilic spicules and giant cells	Sarcoidosis, Botryomycosis, Sporotrichosis, Actinomycosis, other
Banana Bodies	1) Found in Schwann Cells on EM 2) Crescentic Banana-shaped pigmented bodies in the upper dermis	1) Farber's Disease 2) Ochronosis
Birbeck Granules	Racquet-shaped bodies seen on EM	Langerhans Cells
Caterpillar Bodies	Eosinophilic wavy collection in basal layer of epidermis, found on roof of blister	Porphyria Cutanea Tarda, pseudoporphyria, and erythropoietic protoporphyria
Cholesterol Clefts	Needle-like crystals in fat cells	Sclerema neonatorum and Subcutaneous fat necrosis of the newborn
Cigar Bodies	Budding cigar-shaped PAS+ yeast (rarely seen)	Sporotrichosis
Civatte/Colloid Bodies	Apoptotic keratinocytes which may be found in epidermis or extruded into papillary dermis	Interface Dermatitis
Comma-shaped Bodies	Cytoplasmic bodies seen on EM	Benign Cephalic Histiocytosis
Conchoidal Bodies (Schaumann Bodies)	Shell-like calcium complexes within giant cells	Sarcoidosis and other granulomatous diseases
Corps Grains	dyskeratotic keratinocytes with elongated nuclei seen in the granular zone	Darier's, Grover's, Warty Dyskeratoma, (Hailey-Hailey)
Corps Ronds	dyskeratotic keratinocytes with perinuclear halo and surrounding basophilic dyskeratotic material	Darier's, Grover's, Warty Dyskeratoma, (Hailey-Hailey)
Cowdry Type A & B Inclusion Bodies	Type A- intranuclear eosinophilic, amorphous bodies surrounded by a clear halo Type B- in neuronal cells	A-HSV, CMV, and VZVB- Polio
Donovan Bodies	Intrahistiocyte inclusions comprised of organisms which stain positively with Warthin-Starry stain or Giemsa	Granuloma Inguinale
Dutcher Bodies	Intranuclear inclusions of immunoglobulins	Plasmacytoid Proliferations (e.g. Multiple Myeloma)
Farber Bodies	Curvilinear bodies seen in the cytoplasm of fibroblasts and endothelial cells on EM	Farber's Disease
Flame Figures	Dermal eosinophils and eosinophilic granules surrounding central masses of brightly pink amorphous collagen	Well's syndrome, Arthropod bites, other
Floret Cells	Multinucleated giant cells with radially arranged nuclei	Pleomorphic Lipoma
Flower Bodies/Cells	Atypical CD4+ T-cells	HTLV-1 and ATL
Giant Liposomes in Neutrophils	Large liposomal granules	Chédiak-Higashi
Globi	Collections of AFB seen in foamy macrophages with Fite stain	Lepromatous Leprosy
Henderson-Patterson Bodies	Cytoplasmic eosinophilic inclusions in keratinocytes	Molluscum Contagiosum
Kamino Bodies	Eosinophilic bodies composed of BMZ material	Spitz Nevus
Lamellar/Odland Bodies	Free fatty acid, ceramide, and cholesterol containing vacuoles released from the golgi in the stratum granulosum seen on EM	Normal Skin, absent in Harlequin Fetus
Lipofuscin Granules	Yellow-brown granules in macrophages	Amiodarone hyperpigmentation
Macromelanosomes	Large melanosomes	Café au lait macules, Neurofibromatosis (in CALs), Chédiak-Higashi
Max-Joseph Space	Artifactual separation between dermis and epidermis	Interface dermatitis, especially LP

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BODY	DESCRIPTION	ENTITY OR ENTITIES
Medlar/Sclerotic Bodies	Large (5-12µm), round, thick walled brown cells seen in and out of giant cells	Chromomycosis
Michaelis-Gutman Bodies	Calcified lamellar eosinophilic bodies in foamy "von Hansemann" macrophages	Malakoplakia
Mikulicz Cell	Foamy macrophage containing bacteria	Rhinoscleroma
Morulae	Leukocyte intracytoplasmic inclusions	Ehrlichiosis
Mulberry Bodies	Thick-walled spherical body containing organisms	Protothecosis
Negri Bodies	Eosinophilic bodies within large neurons	Rabies
Onion Skinning	Hyaline material surrounding blood vessels	Lipoid Proteinosis
Pautrier Microabscess	Discrete clusters of lymphocytes within epidermis	Cutaneous T-Cell Lymphoma
Psammoma Bodies	Concentrically laminated calcified basophilic bodies	Cutaneous Meningioma, Ovarian and Thyroid neoplasms
Pustulo-ovoid Bodies	Round cytoplasmic eosinophilic inclusions	Granular Cell Tumors
Verocay Bodies	Palisading nuclei arranged in rows with peripheral eosinophilic cytoplasm	Schwannoma
Weibel-Palade Bodies	Organelles seen on EM	Normal Endothelial Cells
Zebra Bodies	Vacuoles with transverse membranes in endothelial cells on EM	Farber's Disease and other ganglioside storage diseases