

ORIGINAL RESEARCH PAPER

Dental Science

ANIMATES AND INANIMATES RELATED TO ORAL MEDICINE

KEY WORDS: Clinical features, Disease, Histologic features , Radiographic features.

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ABSTRACT

Each disease will have its own course and presentation. It will leave an identity mark on history, clinical examination, radiographic examination and histopathological findings. It allows the doctor to diagnose and treat a condition based on its features. The people who described diseases used some terminologies which are useful for us to know a disease. These are known by some terminologies which are given below. It can be used for Aunt Minnie method also, that is using knowledge given by elders or others.

INTRODUCTION:-

Various disorders or lesions appearing in the oral cavity have been named according to their appearances. Sometimes these appearances resemble like certain animals or some objects. Hence

they are named accordingly. This article helps the students to memorise the various terminologies for different lesions based on their appearances.

APEEARANCE	DISORDERS
Giraffe's spots	Cafe au lait spots- These spots resemble coffee with milk or spots on giraffe, they are also called coast of maine spots in French. They are seen in conditions like 'Mc Cune Albright syndrome', neurofibromatosis'
Cheetah spots	Cafe au lait spots resembling cheetah spots. If the borders are irregular as in Mc Cune Albright syndrome, they are called coast of maine. If the borders are smooth as in other disorders like neurofibromatosis, Addison's disease, they are called coast of California ¹ .
Eagle's talon (claw)	Talon's cusp- its a type of dental anomaly where there is extra cusp on cingulum. It was first described by W.H. Mitchell ,B.S.Kimball Mellor and Louis W Ripa in 1982 as resembling eagle's claw. It occurs more in maxillary laterals (55%) followed by maxillary centrals (33%), lower incisors (6%) and maxillary canines (3%). Its also called interstitial cusp. Its a type of dens evaginatus. Its associated with Rubinstein Taybe syndrome and orofacial digital II syndrome. Problems include – Occlusal interferences, esthetics, caries. Treatment includes- regular follow up every six months, fluoride application, pit and fissure sealants, coronoplasty,Root canal treatment and extraction ^{2,3}
Butterfly shaped lesions	Malar rash seen in conditions like systemic Lupus Erythematosus, bloom syndrome, dermatomyositis and pellagra. The rash is seen on malar process that is cheeks and bridge of nose. It's also called as vespertilio rash as it resembles bat and its wings. Its exact etiology is unknown. It is thought to be vasculitis with photodermatitis due to ultraviolet light or exposure to sunlight. Characteristically nasolabial folds are spared ⁴
Butterfly shaped lesions	Angiofibromas on face in Tuberous sclerosis- fleshy, warty lesions on cheeks and nose in a butterfly fashion. They are also can be found on scalp, nails ,forehead. Old concept was, they were considered to be sebaceous adenomas. Now, they consider them as angiofibromas. They can be treated with topical sirolimus in white soft paraffin ⁵
Butterfly shaped lesions	Sublingual keratosis Or truely leukoplakia in floor of mouth and under tongue. It has high malignant potential due to thin mucosa and pooling of carcinogens in this site and stay in contact for long time. This site is also a hidden area preventing or delaying the detection. It has bilateral corrugated wrinkle surface texture resembling ebbing tide ⁶
Butterfly children	Skin in children affected by hereditary severe Epidermolysis bullosa is fragile as butterfly wings. These children are called butterfly children.
Crocodile tears	Crocodile tears or gusto lacrimation is a rare complication when there is pathology in and around optic ganglion and facial nerve that is Bells palsy. In some cases like trauma, gustatory fibers destined to supply salivary glands become secretory fibers to lacrimal glands resulting in homolateral tearing while the patient is eating. Removal of a part of lacrimal gland will be therapeutic based on Schirmer's test. ⁷

50

Tongue –gustatory sweating	Gustatory sweating in 'Frey's Syndrome', which is also known as auricotemporal syndrome, Baillarger syndrome or Dupuy's syndrome and gustatory neuralgia. Its a autosomal dominant condition.
	Also it can occur as neurologic condition where there is damage to parotid gland due to any surgery or some disorder effecting parotid gland.
	This causes damage to auriculo temporal nerve which supplies the parotid gland. The damaged nerve fibers connect to the sweat glands found along the skin. Because of this, patient will experience sweating in front of the ear while eating and in response to gustatory stimulus ⁸ .
	Diagnosis can be made by clinical signs and symptoms and starch iodine test. lodine is applied to the face and starch is put on it. Blue colour is produced in presence of sweat. This condition is treated by botulinum toxin, deodorants, topical glycopyrrolate, scopolamine ointment (anticholinergic) and surgery ^{9,10}
Nipple	Papilloma is a exophytic growth which resembles nipple or fingers. Its caused due to human Papilloma virus 6 and 11.
	It is pedunculated or sessile .it can be confused to verruca vulgaris occurring Intraorally, condyloma acuminatun and focal epithelial hyperplasia.
	Conservative surgical excision is the treatment of choice with rare recurrence.
Pink colour -Pink's disease	It is also called as acrodynia. Acro means extremities, oovvn means pain. Its also called as hydrargyria, mercurialism, erythredema,erythredema polyneuropathy, Bilderbeck's, Selter's, Swift's and Swift-Feer disease. This is caused due to exposure to heavy metals like mercury in laxatives, antiseptics and drugs used for yellow fever, syphilis. It can affect children.
	The affected patients hands, feet and become dusky red giving the name pinks disease. There is hair plucking , photosensitivity, nervous irritability, neuropsychiatric symptoms and loss of teeth, hair.
	Treatment includes stopping of the causative agent, Ethylene diamine tetra acetic acid (EDTA) and dimercaptosuccinic acid (DMSA). ¹¹
Pink's tooth of mummeri	In Internal resorption of tooth, there is resorption of dentin and pulpal walls. Pulp fills up the resorbed areas and appears pink under enamel which gives the name pink tooth. Its exact etiology is unknown. Thought to be due to trauma, infection. Deciduous tooth resorption also causes pink tooth. It is treated by root canal treatment.(RCT)
Railway track	Tramline calcifications are seen in sturge weber syndrome and Basal cell nevus- bifid rib syndrome. There are parallel lines of calcifications in the cortex of brain resembling railway track in the radiographs. Terminology 'Tram line' calcification is also used to describe calcifications in cortex in renal cortical necrosis even though it is different from the former.
Wolf	Lupus in latin means wolf. It is used to describe destructive injuries caused by disease.
Lupus Vulgaris	Skin when affected by tuberculosis is called lupus vulgaris. There will be ulcers with undermined edges, granulomas with caseation necrosis, tuberculomas that are swellings, scrofula or cervical lymphadenopathy and collar stud abscess along the collar of the neck.
	The ulcer has undermined edges because of sub epidermal plexus involvement more than superficial tissue(burrowing nature).
	There might be associated pulmonary infection. Sometimes there might me allergic or ID reaction to mycobacterium tuberculosis which causes the disease.
	Treatment includes administration of antitubercular drugs, isoniazide, rifampicin, pyrazinamide, ethambutol and streptomycin for nine months or more. 12, 13.
Lupus erythematosus	Systemic lupus erythematosus(SLE) is also called lupus erythematosus. It mimics other diseases to a greater
	extent. Multisystem involvement occurs in SLE. Its an autoimmune disorder. It has malar rash. ACR SLE clasiification of SLE by SLICC in 2013 has given 11 criteria out of which 4 should be fulfilled or renal biopsy proven lupus nephritis with ANA or double stranded anti DNA antibodies should be positive.the 11 criteria include
	 Acute cutaneous lupus (e.g., malar rash or photosensitivity and other) Chronic cutaneous lupus (e.g., classic discoid lupus and other) Oral ulcers or nasal ulcers
	 Nonscarring alopecia Synovitis involving 2 or more joints, characterized by swelling or effusion OR tenderness in 2 or more joints and at least 30 minutes of morning stiffness Serositis
	 Serosius Renal Urine protein greater than or equal to 500 mg protein/24 hours OR red blood cell casts Neurologic disease (Seizures, psychosis, mononeuritis multiplex, myelitis, peripheral or cranial neuropathy, acute confused state). Hemolytic anemia
	10. Leukopenia (<4000/mm3 at least once) OR Lymphopenia (<1000/mm3 at least once) 11. Thrombocytopenia (<100,000/mm3) at least once

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	Immunologic criteria 1. ANA level above laboratory reference range 2. Anti-dsDNA antibody level above laboratory reference range 3. Anti-Sm: presence of antibody to Sm nuclear antigen 4. Antiphospholipid antibody positivity 5. Low complement
	Low C3 Low C4
	Low CH50
	6. Direct Coombs' test in the absence of hemolytic anemia
	The management includes antimalarials, corticosterois, nonbiologic DMARDS like cyclophosphamide, methotrexate, azathioprin, mycophenolate mofetil, cyclosporine, NSAIDS like ibuprofen and biologic DMARDS that is disease modifying anti rheumatic drugs like monoclonal antibodies and IV immunoglobulin ¹⁴
Frog's belly	Mucocele of sublingual salivary gland occurring in the floor of the mouth resembling frog belly (Rana) 14 lt has tail appearance in MRI. 15,16
Velvet lesions	Erythroplakia, Acanthosis nigricans, Lingua villosa i.e., hairy tongue ^{17,18,19}
Screw driver shaped	Incisors in syphilis ²⁰
Cork screw shaped	Treponema pallidum, syphilis bacteria because of their appearance ²¹
Mulberry bush	Mulberry molars in syphilis because of their appearance ²² .
Stain	Mottled teeth in dental fluorosis ²³
Bird face	TMJ Ankylosis ²⁴
Bird face	Treacher Collin syndrome ²⁵ , Goldenhar syndrome ²⁶
Lines	Wickham's striae in lichen planus ²⁷
Tyndall effect	Pigmented lesions like hemangiomas reflect blue light and absorb other colours and appear blue. This effect is called tyndall effect. ²⁸
Spider	Spider- like naevi in liver cirrhosis that are telengectesia ²⁹
<u>'</u>	t Arachnodactyly (long limbs like spider) in Marfans syndrome. 30
Crow's feet	Wrinkles at lateral part of eye due to ageing. Treated by botulinum toxin or vertical myectomy. 31
Lipstick sign	Lips sticking to each other in xerostomia e.g., Sjogrens syndrome ³²
Tongue blade sign	Tongue blade sticking to oral mucosa in xerostomia ³²
Sun ray	Sunray appearance in sarcomas of bone like osteogenic sarcoma, chondrosarcoma, Ewings sarcoma ³³
Sunray fungus	Misnomer of actinomycosis bacteria ²⁴
Triangle	Codman's triangle is seen in radiographs of osteogenic sarcoma ³⁵
Triangle Cobblestone appearance	Codman's triangle is seen in radiographs of osteogenic sarcoma ³⁵ Mucosa in crohn's disease ³⁶
Cobblestone	
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52 www.worldwidejournals.com

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Jug handle view	Submentovertex view 56,57
Water's view	Paranasal sinus view ⁵⁶
Ground glass	Periapical lesions radiographic picture, Fibrous dysplasia radiographic picture 58
appearance	
Fingerprint	Periapical lesions radiographic picture, Fibrous dysplasia radiographic picture 59,60
appearance	40
Button Mouth, Fish mouth	Thin and pursed lips in Scleroderma 61.62
Sword / knife	Sabre like lesion in scleroderma in head and neck region. ⁶²
Claw like Hands	Scleroderma ⁶²
Sausage shaped	Inflamed fingers in psoriatic arthritis, Sialodochitis ,dilation of ductal system. 56
Crystal/crystalline arthritis	Crystals of uric acid in gout, gouty arthritis ⁶³
Crab like	Syndactyly in Lobster Claw syndrome ⁶⁴
Pouched cheeks, Bud like or hockey stick	Oral submucous fibrosis ⁶⁵
uvula	
Salmon spot, Oil spot	Nail psoriasis ⁶⁶
Salmon patch ,Angel's kiss	Nests of blood vessels in hemangioma or birthmarks (phakomatosis) 67
Eyes raised to heaven appearance	Angels of Renaissance art in Chinese paintings seen in cherubism patients ⁵⁶
Snail track ulcers	Mucous patches or ulcers with greyish pseudomembrane occurring in secondary syphilis coalesce to form snake like or snail track ulcers. ¹³
	TMJ ,Juvenile arthrosis of childhood or boerings arthrosis ⁵⁶
name) appearance	
Swan neck deformity	Rheumatoid arthritis 68
Cotton wool	Pagets disease, Diffuse sclerosing osteomyelitis ⁵⁶
appearance	
Soldier trench mouth	Necrotising ulcerative periodontitis(ANUG) ⁶⁹

CONCLUSION: -

It should be made interesting to write, read, know and practically in the patient to get maximum benefit to the patient and hence Doctor

RFFFRFNCFS.

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54