**Sheet :OM # 26 " Free market :p"**

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**Free Market " collection of multiple diseases that we may face during our career life" we need to know them and to search for more which we can't mention during this course"**

Always try to **RECOGNISE** what you see

And don’t forget never that we are treating **PATIENT WITH TEETH**

1. **Facial palsy** :

Sudden onset, idiopathic ,then we call it **Bells palsy**.

Other causes : - viral infection like Herpes Zoster

* Parotid tumor & trauma
* Brain tumor
* CVA
* Sarcoidosis
* Multiple sclerosis .

When the right side is affected : Pt then unable to open the right eye, nor smile , drooling of the saliva which cause bacterial or candidal infection to the lips.

1. **Pt on kidney dialysis :**

* They have earthy-colored, pale skin, anemia, jaundice "due to deficiency in the erythropoietin".
* AV fistula " which is pulsatile " trauma to the fistula cause hematoma and swelling of it , this hand should not be used to measure the B.P ,
* Pt take heparin ,
* and if they receive kidney transplant then they are immune compromised .

1. **Oral cancer** :

* Rapid weight loss which cause depression in the temporal area,
* anemia , loss of appetite & dry bleeding lips due to dehydration.

1. **Hyperthyroidism** :

* Exophthalmia ,
* increased the activity "pt work day and night without sleeping,

*Causes* : -Auto immune and thus associated with vitelligo " skin de pigmentation"

* Thyroid adenoma
* pituitary tumor
* infection" thyroiditis ".
* They loss the control some time manifested as hand trimmers.

1. **Hypothyroidism :**

* Weakness , very lazy pt
* loss of memory,
* macroglossia.

1. **Xerostomia** :

Dry mouth , tongue look as if it is fissured , matt surface

*Causes* : - aging " pt was 91 y/o " which cause hypo salivation ".

* anti HTN drugs
* DM
* Sarcoidosis
* hepatitis
* psychogenic.

In this case of 91 y/o female, the cause was also psychogenic because in this age they have what so called *attention seeking behavior* .

### [Sjogren's syndrome](https://www.google.jo/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&cad=rja&uact=8&ved=0ahUKEwidua7s4rbMAhVJcRQKHU17Cg4QFggaMAA&url=http%3A%2F%2Fwww.mayoclinic.org%2Fdiseases-conditions%2Fsjogrens-syndrome%2Fbasics%2Fdefinition%2Fcon-20020275&usg=AFQjCNE9wuZA-RgGxnXGFmsXEm-LmJSv2Q&sig2=rsFpDphHqDAlzZAuMPDi-g&bvm=bv.121070826,d.d24) cause Xerostomia ,some test can be performed but they are non specific for Sjogren's like Auto AB , SSA , SSB , ANA .

### BUT the most diagnostic criteria is the Minor Salivary Gland Biopsy, to see the lymphocytic infiltration .

1. **Pigmentation :**

* Tattoo pigmentation " in the past they used to do it by "مادة الكحل " , in these pt we need to be aware of the susceptibility of needle abuse and so infection with blood borne diseases .
* Smoking "+ hand pigmentation"
* Racial pigmentation
* Addison's disease :manifestation such as, pigmentation on the lateral border of the tongue , weakness , nausea , abdominal pain , hypotension ,and the pt was in her middle age .

1. **Submandibular enlargement :**

* We may think of salivary gland swelling : confirmed by intra oral swelling in addition to extra oral swelling .
* Lymph node : extra oral swelling only , we need to examine if it mobile or sessile , hard or rubbery :
* " Dr. mention two scenarios "

**1\***: old aged man with unilateral painless ,persistent chronic swelling, low grade , we look for any signs of fever or other lymph node enlargement like auxiliary . it was enlaged then the **Dx**: was lymphoma .

**2\***: old age female with unilateral painful swelling with fever , malaise ,weakness , infected tooth was removed , AB was given .

But no response { if it was cellulites then it should be indurated ,but it should resolve after short period of time }{ if it was abscess then it would be fluctuant}

In this case it was indurated but not responsive to AB .

When biopsy was taken ,it showed non-Hodgkin lymphoma.

#palpation of that area was confusing due to previous burn which make the area tense and scared .

1. **Cerebral palsy :**

Mal development of the brain affecting the cognition , movement and sensation.

These pt express their feeling through somatic expression ,which is meaningful things for them " protrude their tongue when they feel hungry" ,they also have increased activity and increase in muscle tone .

as an example they may have increase in the activity of the muscles of mastication which may lead to TMJ pain and teeth erosion , we can prevent this by constructing a night guard "made from elastic material to give cushion effect.

patients may have esophageal paralysis , then they are unable to eat , gastrictomy in these cases is indicated which is a fistula opened to the stomach to deliver the food , if the pt presented with dental infection , we extract all the teeth because they no longer use them in eating.

1. **Recurrent swelling of the upper lip :**

Causes : - angioedema : associated with skin rash , itching and swelling .

* Allergy : very difficult to know because the oral region exposed to a lot of allergen .
* Crohn's disease : + diarrhea ,abdominal pain , gingivitis , mucosal tags, ulcers and loss of apatite ! not sure! And it was in this case .. pt need to do CBC test to look for any signs of iron,B9,B12 deficiency .. & to be referred to GI specialist for endoscopy for the colon, sometimes it is difficult to do ,so we take biopsy from the mouth to ensure the diagnosis.

1. **Syndromes :**

* Treacher Collins syndrome : Ocular [hypertelorism](https://en.wikipedia.org/wiki/Hypertelorism) ,low set of ears, retruded mandible , blurred face !
* Down syndrome :macroglossia , fissured tongue , hypodontia ,early onset of hair loss ., reduced caries risk , can be Tx under LA and they are cooperative ,
* **MOPD "Microcephalic osteodysplastic primordial dwarfism**": sever type of **dwarfism** pt present with very small body ,brain aneurysm , defect heart valve ,

**{** in this case 23 y/o pt present with prosthetic heart valve , she is on warfarin.

**Dental management was difficult due to very small teeth ,they were unable to perform GA , they gave her pain killer and AB . }**

* + Mar fan syndrome: pt have long posture long hands, retinal problem ,cardiac valves issues.

1. **\*\* Herpes zoster** : infection limited to the distribution of the affected nerve " trigeminal " or mental ", painful , and if not treated it cause neuralgia , or facial palsy.

* Ramsy hunt syndrome : facial palsy occurs after herpes zoster infection.

1. **Psoriasis :**

white scales , in young pt , oral manifestation include geographic and fissured tongue .

1. **Polycythemia Vera :**

increase in the RBC count, pt present with reddish skin face,

* like in who lives in high places due to low Oxygen concentration.
* in heavy smoker .
* OR in bone marrow tumor which treated by chemotherapy .

1. [**Oromandibular dyskinesia**](https://www.google.jo/search?hl=ar&biw=1024&bih=630&site=webhp&q=14-+15-%09oromandibular+dyskinesia&spell=1&sa=X&ved=0ahUKEwif0s3d7bbMAhVFbhQKHYpwDCIQvwUIFygA) **:**

involuntary movement of the facial muscle due to increase of the nerve activity . it can cause fatigue and it has a psychological effect .

treated with Parkinson's drugs but not very effective, or by ortho-appliances to control this movement .

1. **Diabetes :**

Periodontitis+ Diabetic foot infection 'which affect the ability of the pt to access to clinic, resulting in ignorance of the oral health.

1. **Pts on cortisone** :

Pts presented with Moon face + central obesity.

1. **SLE :systemic lupus erythromatosis**

Butterfly skin redness.

1. **Gingival enlargement :**

Causes: drugs , infection , inherited "fibromatosis" .

1. **RA :Rheumatoid arthritis**

Systemic autoimmune Ds , swelling of the small joint , may affect the TMJ , drugs which they take may affect the dental procedures , deformity in the hands " affecting the oral care ability & thus increase the caries risk and gingivitis ' we can help them by making modified tooth brush' "

1. **Neurofibromatosis :**

Nodules on the lateral border of the tongue + on the hands and legs + coffee like pigmentation .

and tongue biopsy is needed to confirm the diagnosis.

It is inherited Ds , we may see it in infants as multiple nodules in the mouth ,they born with them.

1. **Myasthenia graves :**

Abnormal neuromuscular junction , causing muscle fatigue , if happen in the respiratory muscle it may cause respiratory muscle failure and death.

1. **Angular chelitis :**

+ smooth shiny tongue .. if in young pt = anemia

.. if post menopausal = think of mal absorption or peptic ulcer.

1. **Pt on chemotherapy:**

They loss their hair and even the eye brows .

1. **Ventricular shunt :**

Tube extended from the brain to the bladder ,implanted under the skin , we need to give the pt prophylactic AB to prevent infection from dental therapy .

1. **Thalasemia :**

Bone marrow hyperplasia causing Prominent premaxilla" squirrel like appearance", abnormal trapicular pattern when seen on RG.

1. **Amoxicillin sensitivity test** :

Subcutaneous injection of AMX then waiting 30 min for any signs of swelling or itching , this test is done for pt who need IV AMX AB therapy and they not sure if they have allergy ." pt came with facial swelling and fever ,malaise difficulty in swallowing "

1. **Autism :**

Pt have repetitive behavior , we may help them by learning them how to brush .

1. **Finger clubbing** ;

Sign for liver Ds or respiratory Ds.

1. **Amyloidosis :**

Either primary " increase the production of amyloid protein in the plasma cell" OR secondary " secondary to systemic or chronic Ds like gout, RA."

May appear as macroglossia if affect the tongue .. Tx is by surgical reduction taking in consideration the limited healing ability of the tongue " AND it may be severe enough to cause social problem to the pt , difficulty in intubation for the physician .

1. **Hypoglycemic coma :**

Most often occur in pt with diabetes after extraction , usually it is immediately resolved after sugar supply , but it may be sever and persist for 6 hour or even more .

1. **Alzhaimer :**

Dementia , they start to forget the recent event then the past event . this may affect our approach by ignorance of oral health , and the drugs they take.

1. **Acromegally** : increase in GH level.

Prognathic mandible , thick skin , enlarged nose , widening in the fingers .

**THE END :'(**