In The Name of



(A PROJECT OF NEW LIFE COLLEGE OF NURSING KARACHI)

Unit-3-B Assessment of the Skin, Head, and Neck, including Regional Lymphatics

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> Acknowledge; Sir, Hakim Shah Director, DUHS ION

Objectives.

- By the end of the unit, the learner will be able to:
- Review the anatomy & physiology of Integumentary system.
- Describe the component of health history that should be elicited during the assessment of skin, head and neck.
- Describe specific assessments to be made during the physical examination of the above systems.
- Apply braden scale to assess the bed sores of patient
- Documents findings.
- Describe age related changes in the above systems and differences in assessments findings.

Equipment

- Examination light
- Penlight
- Mirror for client's self-examination of skin
- Magnifying glass
- Centimeter ruler
- Gloves
- Wood's light
- Examination gown or drape

Physical Assessment

- When preparing to examine the skin remember these key points:
- Examination of Skin:
 - > Color
 - Vascularity
 - Texture: Roughness Eczema, Dermatitis.
 - Mobility: Decreased in case of edema, Obesity.
 - Turgor: Decreased due to dehydration.
 - Moisture:
 - Moisture: Dryness (hypothyroidism).
 - Sweating (hyperthyroidism).
 - Oily(acne).
 - Skin Lesions

A. Color

1.Brown(deposition of melanin)

Genitical(it is generalized)

Sunlight(expo sed areas)

Pregnancy(face, nipples, areola,

Addison disease(exposed areas, pressure points, genitalia)

2.Blue (cyanosis)

- Peripheral: anxiety and cold: observed in extremities and Nail
- Central: lung and heart diseases (nails, lips, mucus membrane.





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3.Red colour

 Increased visibility of oxyheamoglobin because of dilation of superficial blood vessels e.g. Fever, blushing and local inflammation.



3.Reddish blue

 Combination of increased in level of hemoglobin & reduced in hemoglobin & capillary stasis e.g. Polycythemia, observed on hands, feet, conjunctiva, mouth face etc



4.Yellow

- Jundice: increased level of bilirubin; first in sclera then mucus membrane & skin
- Carotenemia: increased level of carotenoids due to maxidema, hypopitutrism and diabetes observed on palm, sole and face does not involve sclera and mucus membrane





Decreased Colour

- Congenital (Albinism): Inability to form melanin it is generalized.
- Acquired (vitiligo): patchy symmetrical often involved exposed area.
- Anemia: decreased level of hemoglobin evident in conjunctiva.







Vascularity

An evidence of bleeding and bruising

- Petechia: pin point hemorrhage beneath the skin usually 1-3mm round and flat this suggest increased bleeding tendency.
- Echymosis: purple, purplish blue and some time brown, larger then Petechia secondary to trauma and bleeding disorder.





Examination of Skin.

- Lesions:
- Location/ Distribution.
- Configuration.
- Morphology:
- Primary
- Secondary
- Vascular
- Pururic

Examination of Head.

SCALP:

- Scaliness
- Lumps
- Lesions.

SKULL:

- Size
- Contours
- Deformities
- Lumps
- Tenderness
- Unusual Movement.

Examination Of Mouth

Examination of mouth include Examination of:

- Lips
- Gums
- Teeth
- Tongue
- Palate
- Orophayrnx
- Mucus membrane
- Breath/smell

Examination of lips

- Colour: Blue in Cyanosis pale in anemia, normal lips are smooth and pink.
- Any congenital abnormality i.e. Cleft lip





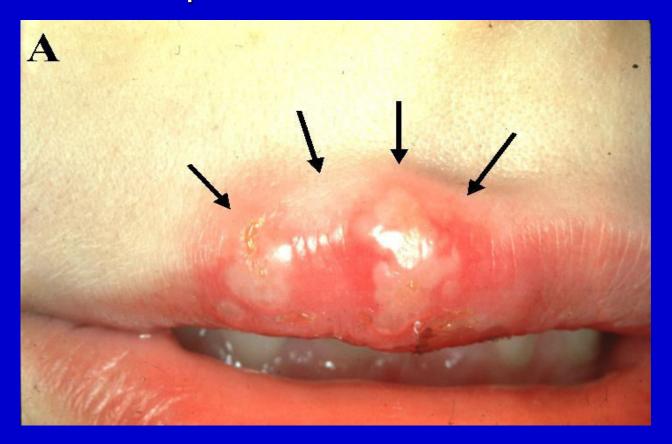
Ulcers

Snail track ulcers are is observed in syphilis.



Vesicles

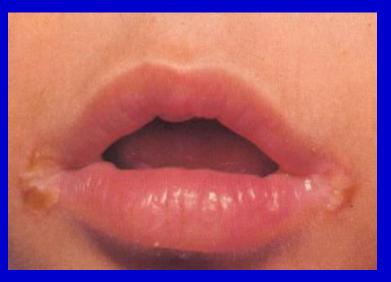
 In herpes simplex infection produced grouped vesicles on lips with red base.



Fissures

 Mostly seen in hot season, dehydration, and pathological in anemia





Examination of Gums

- Blue line running along the edges of gum in lead poisoning.
- Gums are swollen and spongy in case of scurvy.
- In gingivitis the edges of gums are red and bleed easily
- Pyorrhea: pus between teeth and gums

gingivitis



Scurvy



Examination of Tongue

- Colour: Blue in Cyanosis pale in anemia
- Red beefy tongue in deficiency of riboflavin
- Black tongue in patient taking iron mixture. also in Addison diseases.



Symmetry of tongue

- Slightly deviated normally from its mid line
- Grossly deviated towards its side due to 12th cranial nerve paralysis.
- Tremor: tremors of tongue in Parkinson diseases. And in severe thyrotoxicosis.

Surface of tongue

- Dry tongue in case of anxiety and dehydration.
- Bald tongue in anemia (iron deficiency & pernicious).
- Furring of tongue in excessive smoking.

Red strawberry tongue

In scarlet fever .





Ulcers

- Malignant ulcers
- T.B ulcers on tip of tongue
- Patches on tongue in thrush and leuokoplekia.





Examination of under surface

- Ask the patient to touch the hard palate with the tip of the tongue
- In tongue tie he is unable to touch the palate



Size of Tongue

 Enlarged tongue in hypersecretion of growth hormone.



Palate

- Examine the palate, orophayrenx, & mucus membrane for colour pigments and deformity etc.
- A dirty gray colored membrane (pseudo membrane)is observed in diphtheria.



Breaths/smell

- Fishy: Uremia
- Mousy: Liver cirrhosis
- Fruity: Diabetes
- Foul: In case of dirty teeth, mouth ulcers etc.

Examination of Head.

- HAIR:
- Quality(Texture)
- Quantity
- Cleanliness
- Distribution
- Pattern of loss
- Infestation

Examination of Nails.

- Color
- Contour
- Curvature/Angle
- Symmetry
- Cleanliness
- Adherence to nail bed
- Thickness

Nails

- Normal: the angle between finger nail and nail bad is 160 degree.
- Abnormal Nails
 - Bluish colour: in Cyanosis
 - Decreased capillary refill in anemia.

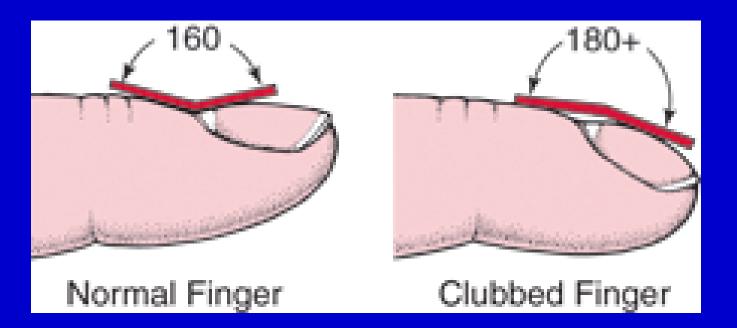
Koilonychias

 Spoon Shaped Nails in Iron Deficiency Anemia



Clubbing

 The Angle between Nail and base of nail is 180 degree or more e.g. cynosis



Splinter hemmoharrage

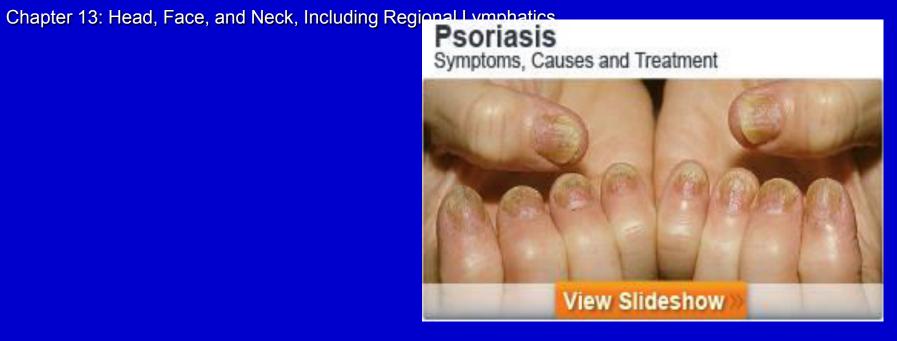
 Red or brown linear lines on nails due to trauma.



Paronychia

Inflammation of Skin around nails.







Examination of Face.

- Proportion/ Contour.
- Expression.
- Movement.
- Sensation.
- Lymph Nodes.
- Edema/Lesions/Masses.

Examination of Neck.

- Symmetry.
- Trachea.
- Lymph Nodes.
- Thyroid gland.
- Movement
- Masses, Swelling, Skin discoloration.
- Arterial pulsation & Venous distension.

Examination of Thyroid.

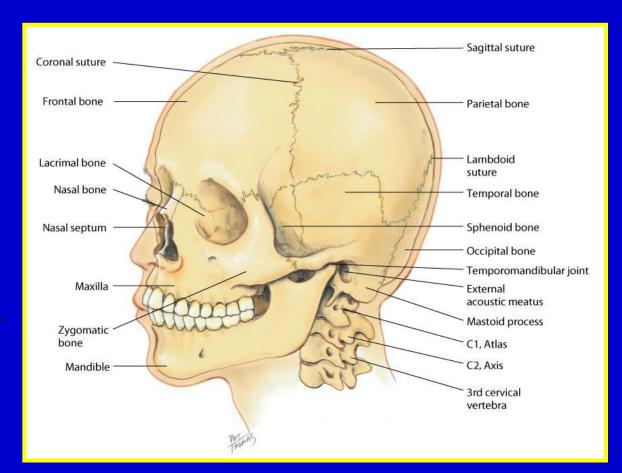
- Examination of lymph node.
- Describe enlarge node under the following terms.
 - Location
 - Size
 - Shape
 - Surface characteristics
 - Consistency
 - Mobility/ Fixation
 - Sign of Inflammation

- Structure and Function
- Subjective Data—Health History Questions
- Objective Data—Physical Exam
- Abnormal Findings

Structure and Function

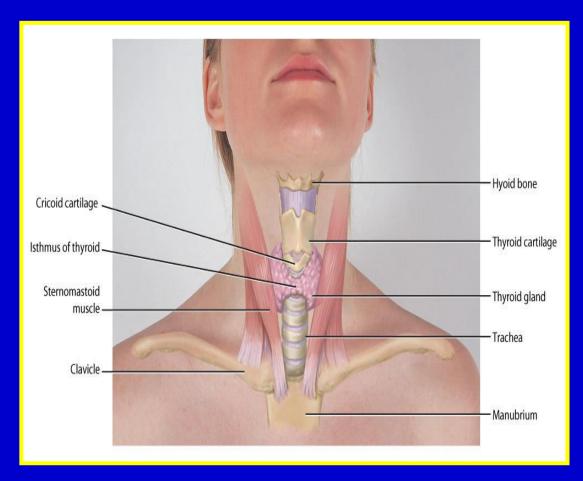
Head

- Cranial bones
- Sutures
- Facial bones
- Facial muscles
- Salivary glands



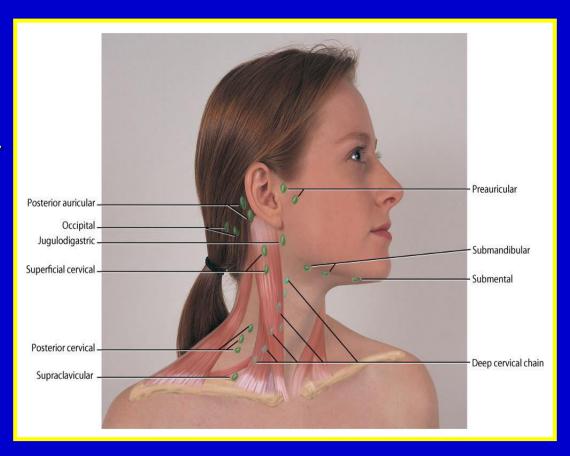
Neck

- Neck muscles
- Anterior and posterior triangles
- Thyroid gland



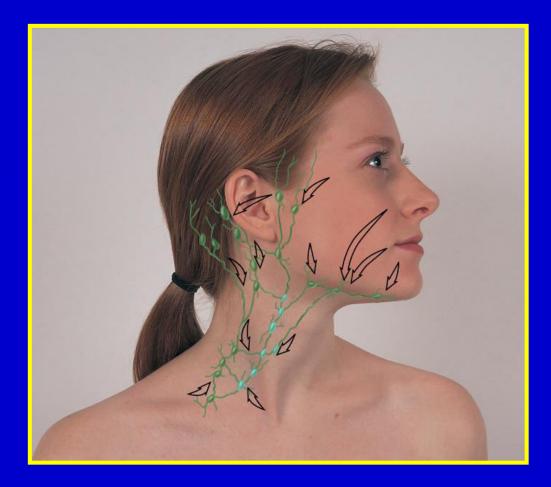
Lymphatics

- Preauricular
- Posterior auricular (mastoid)
- Occipital
- Submental
- Submandibular



Lymphatics (cont.)

- Jugulodigastric
- Superficial cervical
- Deep cervical
- Posterior cervical
- Supraclavicular



Developmental care

- Infants and children
 - Fontanels
 - Head growth
 - Lymphatic system
- Pregnant female
- Aging adult

Subjective Data— Health History Questions

- Headache
- Head injury
- Dizziness
- Neck pain or limitation of motion
- Lumps or swelling
- History of head or neck surgery

Subjective Data— Health History Questions (cont.)

Additional history for infants and children

- Maternal alcohol or drug use
- Type of delivery
- Growth pattern

Additional history for aging adult

- Dizziness
- Neck pain

Objective Data— Physical Exam

Head-Inspect and palpate the skull

- Size and shape
- Temporal area

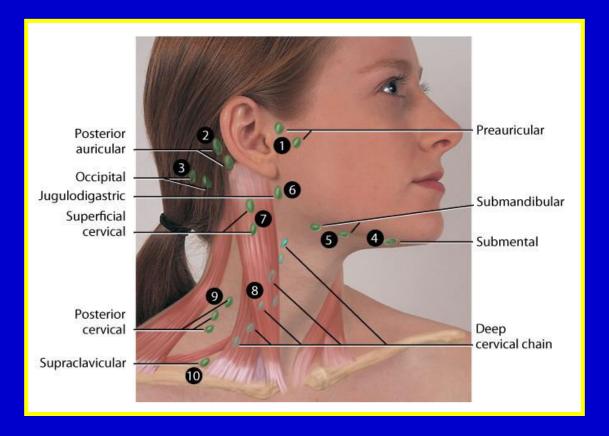
Head-Inspect the face

Facial structures

Objective Data—Physical Exam (cont.)

Neck-Inspect and palpate

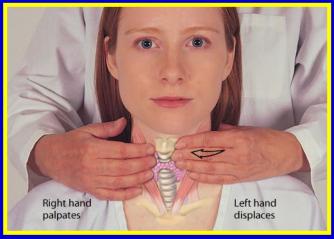
- Symmetry
- Range of motion
- Lymph nodes



Objective Data—Physical Exam (cont.)

Neck-Inspect and palpate (cont.)

- Trachea
- Thyroid gland
 - Posterior approach
 - Anterior approach
 - Auscultate





Objective Data—Physical Exam (cont.)

Developmental care

- Infants and children
 - > Skull
 - > Face
 - > Neck
 - Special procedures
- Pregnant female
- Aging adult

Sample Charting

- SUBJECTIVE
 - Denies any unusually frequent or severe headache; no history of head injury, dizziness, or syncope; no neck pain, limitation of motion, lumps, or swelling.

Sample Charting (cont.)

- OBJECTIVE
 - Head-Normocephalic, no lumps, no lesions, no tenderness.
 - Face—Symmetric, no weakness or drooping, no involuntary movements.
 - Neck—Supple with full ROM, no pain. Symmetric, no lymphadenopathy or masses. Trachea midline, thyroid not palpable. No bruits.

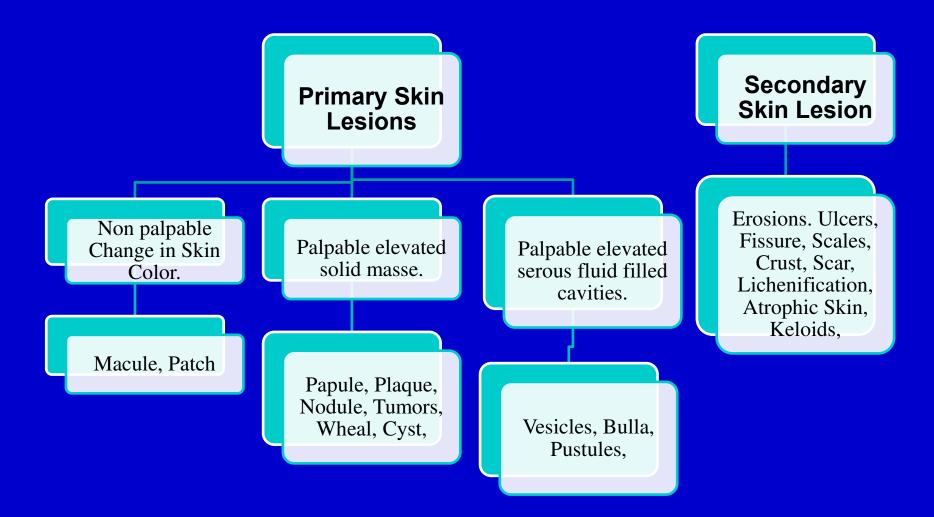
Sample Charting (cont.)

- ASSESSEMENT
 - Normocephalic, symmetric head and neck.

PRIMARY& SECONDARY SKIN LESIONS

- Lesions should be observed for
 - Anatomical location
 - Arrangement and grouping
 - Type of skin lesion
 - Color of lesion
- Primary skin lesions are original lesions arising from previously normal skin.
- Secondary lesions can originate from primary lesions.

Conti...



Primary Skin Lesions

- There are three types of primary lesions
- Non palpable Change in Skin Color.

Palpable elevated solid masse.

Palpable elevated serous fluid filled cavities.

1.Non palpable Change in skin colour

 Macule:<1cm circumscribed boarder e.g. Mole,patachia.





Patch:>1cm may have irregular boarder e.g. Vitiligo, Freckles, Echymosis







Macule and patches are non palpable skin changes. colour may be brown, white, Purple red etc.

2. Palpable Elevated Solid Masses

Papule: <0.5 cm Elevated Navi, Warts</p>





<u>Plaque:</u> >0.5 cm with circumscribed boarder e.g. Psoriasis, actinic karatosis





Nodule:0.5-2cm with circumscribed boarders e.g Lipomas, Squamous cell Carcinoma.





Tumors: .1-2 cm (>2cm extends deeper into the tissue)
e.g. Large lipomas Carcinomas.





Wheal: Elevated mass with transient boarders caused by movement of serous Fluid in dermis does not contain free fluids in cavities like vesicles e.g. insect bite, Uriticaria.





Cyst: Encapsulated fluid filled or semi solid masses in the subcutaneous Tissue or dermis e.g. Sebaceous cyst





C. Palpable elevated fluid filled cavities

 Vesicles: <0.5 cm with circumscribed boarder e.g. Chicken pox, 2nd degree burn blister.





Bulla: >0.5cm Circumscribed boarder e.g Large burn blister, contact dermatitis, Bullous impetigo







Pustules: pus filled vesicles or bulla e.g Impetigo, furuncle





Secondary Lesions

 Erosions: loss of superficial epidermis, does not extend to dermis, with moist area e.g.
 Scratch marks, ruptured vesicles.



Ulcers: Skin extends to dermis e.g. Pressure ulcers



Fissure: linear cracks in skin e.g. athletes foot





Scales: Flakes secondary to dead epithelium e.g. psoriasis, dry skin, pityriasis rosea.







Crust: Dried residue of serum blood or pus e.g residual left following Vesicles, impetigo, eczema



Scar: Skin mark after wound Healing



Lichenification: Thickening & Roughening of the skin .Contact Dermatitis, Eczema.



Atrophic Skin: Thin, dry, transparent appearance of Epidermis e.g. Aged Skin



Keloids: Hypertrophic scar tissue secondary to excessive collagen formation during healing.



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