

NURS 221 HEALTH ASSESSMENT (Practical) Procedure Guide and Performance Checklist

Module Three

Physical Examination of the Head, Neck and Related Lymphatics



Preparation:

- A. Prepare all the necessary equipment
 - Examination gown
 - Clean, nonsterile examination gloves
 - Glass of water
 - Penlight
 - Otoscope
 - Cotton wisp
 - Wooden tongue blade
- B. Prepare the patient and the environment.
 - Explain the procedure to the patient.
 - Position the client appropriately.
 - Ensure patient privacy.
 - Instruct patient to drape himself/herself appropriately.
 - Make sure environment is with adequate light and room temperature regulated.
 - Wash hands.
- C. Obtain comprehensive health history.
 - Using focused interview, ask the patients questions related to:
 - o Pain
 - o Safety precautions used at home, when driving or away from home
 - Substance and irritants found in the physical environment of the patient including home, workplace and those encountered during the travel.
- D. Conduct physical examination
 - Physical examination of the head and neck requires the use of inspection, palpation and auscultation.

PHYSICAL EXAMINATION TECHNIQUES AND NORMAL FINDINGS

THE HEAD				
Procedure and Rationale Normal Findings				
Inspect and Palpate the Skull				
A. Size	Normocephalic – denotes a round symmetric			
Note: The general size and shape.	skull that is appropriately related to the body size.			
	312C.			
B. Shape				
To assess shape, place your fingers in the	Feels smooth and symmetric. No tenderness			
person's hair and palpate the scalp.	upon palpation.			
Note that cranial bones that have normal				
protrusions are forehead, the side of each				
parietal bone, the occipital bone, and the				
mastoid process behind each ear.				
C. Temporal Area				
Palpate the temporal artery above the	No tenderness noted.			
zygomatic (cheek bone) between the eye and				
top of the ear.				
The temporomandibular joint is just above	Smooth movement with no limitation or			
the temporal artery and anterior to the	tenderness.			
tragus. Palpate the joint as the person opens				
the mouth.				
Inspect the Face				
Facial structures				
Inspect the face, noting the facial expression	Anxiety is common in the hospitalized or ill			
and its appropriateness to behaviour or	person.			
reported mood.				
Although the shape of facial structures may	Facial structures should be symmetric.			
vary somewhat depending on ancestry,	Expect symmetry of eyebrows, palpebral			
features.	fissures, nasolabial folds and sides of the			
	mouth.			
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THE EYES				
Procedure and Rationale	Normal Findings			
Inspect External Ocular Structures				
A. General				
Note person's ability to move around the	Vision functioning well enough to avoid			
room.	obstacles and to respond to your directions.			
Note also the facial expression.	Adequate vision accompanies relaxed			
	expression.			
Inspect the eyes for size placement	All three should be symmetrical			
Inspect the eyes for size, placement, alignment	All three should be symmetrical			
B. Eyebrows				
Look for symmetry between the two eyes.	Eyebrows are present bilaterally, move			
Look for symmetry between the two eyes.	symmetrically as the facial expression			
	changes and have no scaling or lesions.			
C. Eyelids and Lashes	Upper lids normally overlap the superior part			
, , , , , , , , , , , , , , , , , , , ,	of the iris and approximate completely with			
	the lower lids when closed.			
	The skin is intact without redness, swelling,			
	discharge, or lesions.			
	The palpebral fissures are horizontal in non-			
	Asians, whereas Asians normally have an			
	upward slant.			
	Eyelashes are distributed evenly along the lid			
	margins and curve outward.			
D. Eyeballs	Aligned normally in their sockets with no			
D. Lycouns	protrusion or sunken appearance.			
	production of the state of the			
	Blacks normally have a slight protrusion of			
	the eyeball beyond the supraorbital ridge.			
Testing eye ball movement				
Ask patient to follow the object with his eyes				
Without moving his head. Nurse moves the object to each of the six cardinal positions,				
returning to the midpoint after each movement.				
recurring to the imapoint after each movement.				

E. Conjunctiva and Sclera

Ask the person to look up. Using your thumbs, slide the lower lids down along the bony orbital rim. Take care not to push against the eyeball. Inspect the exposed area.



Eyeball looks moist and glossy.

Numerous small blood vessels normally show through the transparent conjunctiva.

Conjunctiva are clear and show the normal color of the structure below – pink over the lower lids and white over the sclera.

F. Lacrimal Apparatus

Ask the person to look down. With your thumbs, slide the outer part of the upper lid up along the bony orbit to expose under the lid. Inspect for any redness or swelling.

Normally, the puncta drain the tears into the lacrimal sac. Check this by pressing the index finger against the sac, just inside the lower orbital rim, not against the side of the nose.

Pressure slightly everts the lower lid, but there should be no other response to pressure.

No redness or swelling noted.



Inspect Anterior Eyeball Structures

A. Cornea and Lens

Shine a light from the side across the cornea for smoothness and clarity.

No opacities (cloudiness) in the cornea, the anterior chamber, or the lens behind the pupil.

Arcus sinilis (with opacity) is normal finding in aging persons.

Testing corneal reflex By lightly touching the cornea with wisp of cotton.	Blinking is normal reaction
B. Iris and Pupil	Normally appears flat, with a round regular shape and even coloration.
Note size, shape and equality of the pupils.	The pupils appear round, regular and of equal size in both eyes.
Test the pupillary light reflex	
Darken the room and ask the person to gaze into the distance. (This dilates the pupils.) Advance a light in from the side and note the response.	Note you will see: 1) constriction of the same-sided pupil (a direct light reflex) 2) and a simultaneous constriction of the other pupil (a consensual light reflex).
<u>Test for accommodation</u>	
Ask the person to focus on a distant object. This process dilates the pupils. Then have the person shift the gaze to a near object such as your finger held about 7 to 8cm (3inches) from the person's nose. Record normal response to these maneuvers as PERRLA or Pupils Equal, Round, React to Light and Accommodation.	Normal response includes: 1) pupillary constriction 2) and convergence of the axes of the eyes
Test Central Visual Acuity	
Snellen Eye Chart This is the most commonly used and accurate measure of visual acuity. It has lines of letters arranged in decreasing size.	
Place the Snellen alphabet chart in a well-lit spot at eye level. Position the person on a mark exactly 20 feet from	Normal visual acuity is 20/20.

the chart. Use an opaque card to shield
one eye at a time during the test. If the
person wears glasses or contact lenses,
leave them on. Remove only reading
glasses because they blur distance
vision. Ask the person to read through
the chart to the smallest line of letters
possible. Encourage trying the next
smallest line also.

Test Visual Fields

Confrontation Test

This test screens for loss of peripheral vision. compares person's lt the peripheral vision with your own, assuming that yours is normal. Position yourself at eye level about 2 feet away. Looking straight at you, the person covers one eye with an opaque card as you cover the opposite eye. You are testing the uncovered eye. Hold a wiggling finger as a target midline between you and the person slowly advance it in from the periphery in several directions.

Ask the person to say "now" as the target is first seen. For the temporal direction, start your finger somewhat behind the person. Estimate the angle between the anteroposterior axis of the eye and the peripheral axis where the object is first seen.

Normal results are about 50 degrees upward, 90 degrees temporally, 70 degrees inferiorly and 60 degrees nasally.

THE EAR		
Procedure and Rationale	Normal Findings	
Inspect and Palpate the External Ear		
A. Size and Shape	Equal size bilaterally with no swelling or thickening.	
	Ears of unusual size and shape may be a normal familial trait with no clinical significance.	

B. Skin Condition	Skin color consistent with the person's facial skin color. Skin is intact, with no lumps or lesions. Darwin's tubercle, a small, painless nodule at the helix is a congenital variation is not significant.		
C. Tenderness Move pinna and push on the tragus.	They should feel firm, and movement should produce no pain.		
Palpate mastoid process.	No pain.		
D. External Auditory Meatus	No pain.		
Note the size of the opening to direct your choice of speculum for the otoscope.	No swelling, redness or discharge should be present.		
	Some cerumen is usually present. Color varies from gray-yellow to light brown and black, and the texture varies from moist and waxy to dry and dessicated.		
E. External Canal	,		
Note any redness and swelling, lesions, foreign bodies or discharge.	No redness, swelling lesions or foreign bodies is noted.		
If any discharge is present, note the color and odor.			
For persons with hearing aid, note any irritation on the canal wall from poorly fitting ear molds.			
TEST HEARING ACUITY			
A. Whispered Voice Test			
Stand arm's length (2 feet) behind the person. Test one ear at a time while masking hearing in the other ear to prevent sound transmission around the head. This is done by placing one finger on the tragus and pushing it in and out of the auditory meatus. Move your head to 1 to 2 feet from the person's ear. Exhale fully and whisper slowly a set of 3	Normally, the person repeats each number/letter correctly after you say it. If the response is not correct, repeat the whispered test using a different combination of 3 numbers and letters. A passing score is correct repetition of at least 3 of a possible 6 numbers/letters.		

random numbers, and letters, such as "5,B,6". Assess the other ear using yet another set of whispered items "4,K,2".

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THE NOSE			
Procedure and Rationale	Normal Findings		
Inspect and Palpate the Nose			
External Nose	Normally the nose is symmetric, in the		
Inspect for deformity, asymmetry,	midline and in proportion to other facial		
inflammation, or skin lesions.	features. No swelling, inflammation or skin		
	lesions.		
Test the patency of the nostrils.			
This reveals any obstruction which later is			
explored with the nasal speculum.			
Push each nasal wing shut with your finger			
while asking the person to sniff inward			
through the other naris.			
Next Co. 11			
Nasal Cavity			
Attach the short, wide-tipped speculum			
to the otoscope head, and insert this			
combined apparaturs into the nasal			
vestibule, avoiding pressure on the nasal			
septum. Gently lift the tip of the nose			
with your finger before inserting. View			
each nasal cavity with the person's head			
erct and then with the head tilted back.			
Inspect the nasal mucosa. Note color,	Normal red color and smooth, moist surface.		
swelling, discharge, bleeding or foreign	No swelling, discharge, bleeding or presence		
body.	of foreign body.		
Observe the nasal septum for deviation.	No obstruction observed. No bleeding or		
Note perforation or bleeding in the	perforation.		
septum.			
Palpate the Sinus Areas			
Using your thumbs, press the frontal	The person should feel firm pressure but no		
Joan Chambo, press the Hontar	The person should reer firm pressure but no		

sinuses by pressing firmly up and under the eyebrows and over the maxillary sinuses below the cheekbones. Take care	pain.
not to press directly on the eyeballs.	
Test Olfactory nerve	
Ask patient to close his eyes and block one nostril and inhale a familiar aromatic substance through the other nostril	

THE MOUTH			
Procedure and Rationale	Normal Findings		
Inspect the Mouth			
Lips	Moist, soft and pink.		
Inspect the lips for color, moisture, cracking or lesions. Retract the lips and note their inner surface as well.			
Teeth and Gums			
The condition of the teeth is an index of the person's health.			
Inspect teeth and gums. Compare number of teeth with the number expected for the person's age.	Teeth normally look white, straight, evenly spaced, and clean and free of debris or decay. Teeth are tight and well defined. Gums look pink or coral with stippled (dotted) surface.		
Ask the person to bite as if chewing something and note alignment of upper and lower jaw.	Normal occlusion in the back is the upper teeth resting directly on the lower teeth; in the front the upper incisors slightly override the lower incisors.		
Tongue			
Check for color, surface characteristics and moisture.	Color is pink and even. Dorsal surface is normally roughened from the papillae. A thin white coating may be present.		
Ask patient to touch the tongue to the roof of the mouth.	Ventral surface looks smooth and glistening and shows veins.		

With a glove, hold the tongue with a cotton gauze pad for traction and swing it out and to each side. Inspect for any white patches or lesions;	No white patches or lesions.		
Buccal Mucosa			
Hold the cheek open with a wooden tongue blade and check the buccal mucosa for color, nodules or lesions.	Pink, smooth and moist. Although patchy hyperpigmentation is common and normal in dark-skinned people.		
Palate			
Shine your light up to the roof of the mouth.	The more anterior hard palate is white with irregular transverse rugae. Posterior soft palate is pinker, smooth, and upwardly movable.		
Throat			
With your light, observe the oval, roughsurfaced tonsils behind the anterior tonsillar pillar.	Color is the same pink as the oral mucosa, and their surface is peppered with indentations, or crypts. No exudate on tonsils.		
THE	NECK		
Procedure and Rationale	Normal Findings		
Inspect And Palpate the Neck			
Symmetry	Head position is centered in the midline, and the accessory neck muscles should be symmetric. The head should be held erect and still.		
Range of Motion (ROM)			
Note any limitation of movement during active motion. Ask the person to touch the chin to the chest, turn the head to the right and left, try to touch each ear to the shoulder (without elevating shoulders, and extend the head backward.	When the neck is supple, motion is smooth and controlled.		
Test muscle strength and the status of cranial nerve XI by trying to resist the person's movements with your hands, as the person			

shrugs the shoulders and turns the head to each side.

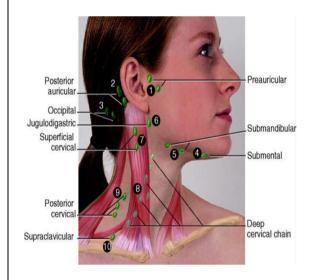
Lymph Nodes

Using a gentle circular motion of your finger pads, palpate the lymph nodes. Begin with the preauricular lymph nodes in front of the ear, palpate the 10 groups of lymph nodes in a routine order. Be systematic and thorough in your examination.

Use gentle pressure because strong pressure could push the nodes into the neck muscles.

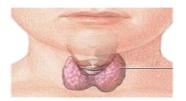
If any nodes are palpable, note their location, size, shape, delimitation (discrete or matted together), mobility, consistency, and tenderness.

Normal nodes feel movable, discrete, soft, and non tender.



Trachea

Place your index finger on the trachea in the sternal notch and slip it off to each side.



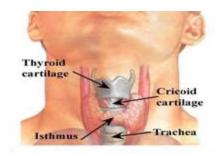
Thyroid Gland

Normally, trachea is midline, palpate for tracheal shift. The space should be symmetric on both sides. Note any deviation from the midline.

Inspect the thyroid gland:

Position a standing lamp to shine tangentially across the neck to highlight any possible swelling. Tilt the head back to stretch the skin against the thyroid. Supply the person with a glass of water and first inspect the neck as the person takes a sip and swallows.

Thyroid tissue moves up with a swallow and then falls into its resting position.



Palpate the thyroid gland:

Posterior Approach: Palpate thyroid by standing behind the client. Put your hands around his neck with your finger tips on the lower half of the neck over the-trachea.



Usually the normal adult thyroid cannot be palpated. If the person has a long thin neck, you sometimes feel the isthmus over the tracheal rings. The lateral lobes usually are not palpable; palpable lobes feel rubbery but smooth.

Inspect External jugular veins

Observe with patient sitting and then lying at 30-45 angle. Normal finding:

Jugular veins should be flat, without sign of distention



NURS 221 HEALTH ASSESSMENT (Practical) Performance Checklist

Physical Examination of the Head and Neck

Students Name:	Rating:
Student Number:	Date Performed:

The student nurse should be able to:

Performance Criteria		Competen	cy Level	
	Done	Done with	Not	Comments
	Correctly	Assistance	Done	
Preparation				
Explain the procedure to the patient.				
Position the client appropriately.				
Ensure patient privacy.				
Instruct patient to drape himself/herself appropriately.				
Make sure environment is with adequate light and room temperature regulated.				
Wash hands.				
HEAD				
Inspect the person's head for size and shape.				
Palpate Temporal area				
FACE			.	l
Inspect facial structures.				
EYES				
Observe person's ability to move around the room and note facial expression.				
Inspection of External Ocular Structures:				
Inspect eyebrows for symmetry and movement.				
 Inspect the eyelids and lid margins for swelling, discharge color, scaling and erythema. 				
 Inspect eyelashes for hair distribution along the lid margins. 				
 Inspect eyeballs for alignment. Test Eyeball movement 				
Inspect conjunctiva & sclera for color,				

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 Inspect lacrimal apparatus for swelling & tenderness. 		
Inspect Anterior Eyeball Structures		
Inspect cornea and lens for smoothness and		
clarity.		
Test for corneal reflex		
Inspect iris and pupil for size, shape and equality.		
Test the pupillary light reflex		
Test for accommodation		
Test Central Visual Acuity		
Test Visual Fields		
THE EAR		
Inspect size and shape, skin condition, tenderness.		
Inspect external auditory meatus for swelling,		
redness or discharge.		
Inspect external canal for redness and swelling,		
lesions, foreign bodies or discharge.		
Test Hearing Acuity		
Palpate auricle for pain sensation on movement.		
Palpate mastoid area behind ear for		
Tenderness.		
THE NOSE		Ţ
Inspect external nose for deformity, asymmetry,		
inflammation, or presence of skin lesions.		
Test the patency of the nostrils.		
Test Olfactory Nerve.		
Inspect the nasal mucosa for color, swelling,		
discharge, bleeding or foreign body.		
Inspect the nasal septum for deviation, perforation or		
bleeding.		
Palpate the Sinus Areas.		
THE MOUTH		
Inspect the lips for color, moisture, cracking or		
lesions.		
Inspect teeth and gums.		
Inspect the tongue and check for color, surface		
characteristics and moisture.		
Inspect the buccal mucosa for color, nodules or		
lesions.		
Inspect palate for color and mobility.		
Inspect the throat and note for shape, surface		
characteristics of tonsils behind the anterior tonsillar		
pillar.		

THE NECK			
nspect the neck for symmetry. & range of motion in			
active motion.			
est muscle strength.			
nspect thyroid gland for size and visible mass.			
nspect external jugular vein.			
Palpate lymph nodes			
Palpate thyroid gland.			
Palpate trachea for tracheal shift.			
Oocument findings.			
Evaluated by:	Date Evaluated	Date Evaluated:	

APPENDIX

Number	Name	Function	Test
I	Olfactory	Smell	<u>Test Olfactory nerve</u>
	Nerve		Ask patient to close his eyes and block one nostril and
			inhale a familiar aromatic substance through the other
			nostril Such as (coffee, vanilla, lemon)
11	Optic Nerve	Vision	Testing visual acuity
			Place the Snellen alphabet chart in a well-lit spot at eye
			level. Position the person on a mark exactly 20 feet from
			the chart. Use an opaque card to shield one eye at a time
			during the test. If the person wears glasses or contact
			lenses, leave them on. Remove only reading glasses
			because they blur distance vision. Ask the person to read
			through the chart to the smallest line of letters possible.
			Encourage trying the next smallest line also.
III	Oculomotor	pupil	<u>Test the pupillary light reflex</u>
	Nerve	constriction	Darken the room and ask the person to gaze into the
			distance. (This dilates the pupils.) Advance a light in from
			the side and note the response.
		F. 40	Test for accommodation
		Eye	Test for accommodation
		movement;	Ask the person to focus on a distant object. This process dilates the pupils. Then have the person shift the gaze to a
11.7	Trachlear	- Five	near object such as your finger held about 7 to 8cm
IV	Trochlear Nerve	Eye	(3inches) from the person's nose.
VI		movement	Record normal response to these maneuvers as PERRLA or
VI	Abducens Nerve	Eye movement	Pupils Equal, Round, React to Light and Accommodation.
	iverve	movement	
			Testing eye ball movement
			Ask patient to follow the object with his eyes Without moving
			his head. Nurse moves the object to each of the six cardinal
			positions, returning to the midpoint after each movement.
XI	Spinal	Controls	<u>Test muscle strength</u> and the status of cranial nerve XI by
	Accessory	muscles	trying to resist the person's movements with your hands,
	Nerve	used in	as the person shrugs the shoulders and turns the head to
		head	each side.
		movement.	