ISTINYE UNIVERSITYMEDICAL FACULTY

III. YEAR APPLICATION GUIDE FOR CLINICAL SKILLS

"Primum non nocere"

Hippocrates (B.C. 460 - A.D. 370)

Prepared By:
ISUMED Assessment
Committee
(Ölçme Değerlendirme Kurulu)



Revision Nr: v0



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SKILLS OF EVALUATION OF GENERAL CONDITION AND VITAL SIGNS

Aim: To gain the skill of evaluation of general condition and vital signs

Materials: Stethoscope, Sphygmomanometer

STEPS	PERFORMED	NOT PERFORMED
1. Introduced himself/herself and acknowledged the patient about the examination		
2. Evaluated the consciousness of the patient and registered the status of consciousness (conscious, somnolence, stupor, coma)		
3. Determined the orientation (place and time) of the patient by asking appropriate questions		
4. Determined the posture (active, passive, obligatory) of the patient		
5. Watched and evaluated the walking of the patient		
6. Evaluated the talk of the patient		
7. Evaluated the patient's body structure. Registered how the body structure is (obese, thin, normal, cachectic, athletic, picnic, asthenic etc.)		
8. Calculated the body mass index according to the formula [weight(kg)/height²(m²)]		
9. Examined edema		
Held the patient's tibia		
Pressed the surface of the tibia with the thumb for 5 – 10 seconds		
Palpated the pressed region for 'godet' formation		
10. Examined subicterus and icterus		
Investigated for color change of the sclera and skin		
11. Investigated anemia		
Investigated the conjunctiva for paleness		
Held the palm of the patient and compared its color with the color of his/her own palm (both should be held at the level of the heart)		
12. Investigated cyanosis		
Investigated for central cyanosis by looking at the mucous membranes and investigated for peripheral cyanosis by looking at the tips of the fingers		
13. Evaluated skin turgor		
Squeezed the ulnar skin of the forearm between the two fingers. Evaluated how quick the skin turns to its previous shape		
14. Evaluated muscle tonus		



Held the hand of the patient up and left it while observing its fall	
VITAL SIGNS	
15. Respiration	
Evaluated for abnormal respirations (dyspnea, tachypnea, apnea, wheezing)	
Evaluated whether the patient is using accessory respiratory muscles	
Evaluated the rhythm and deepness of the respirations for the presence of "irregular and superficial" respirations	
Counted the number of respirations per minute	
16. Pulse	
Palpated the radial pulse of the patient with 3 fingers (2., 3. and 4. fingers)	
Counted the number of pulses per minute	
Evaluated the pulse rhythm	
Evaluated the fullness of the pulse	
Evaluated the stiffness of the pulse	
17. Blood Pressure	
Reminded the patient of not having smoking, caffeine, food, drug intake or exercise 30 minutes before measurement	
Made the patient remain seated and relaxed for 5 minutes	
Adjusted the patient to the right position (sitting with back supported by chair, legs uncrossed, feet flat on floor, bare-arm resting on table, mid-arm at heart level)	
Put the cuff at heart level	
Inflated the cuff above 30-40 mmHg of the point of disappearance of the pulse (or until 200 mm Hg)	
Slowly deflated (2-3 mmHg per second) the cuff	
Registered the appearance of the sounds as systolic blood pressure and the disappearance of the sounds as diastolic blood pressure	
18. Fever	
Inspected whether the patient feels cold, have chills and paleness; palpated the skin for the presence of sweat, heat and humidity	
Checked the body temperature with a thermometer	

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SKILLS OF EXAMINATION HEAD AND NECK

Aim: To gain the skill of examination head and neck by applying the skill steps correctly and in thee appropriated order

Materials: Light source, tongue depressor

STEPS	PERFORMED	NOT PERFORMED
1. Washed his/her hands		
2. Introduced himself/herself and acknowledged the patient about the examination		
3. Had the patient sit on a chair or armchair so that the head and neck can be examined comfortably.		
4. Checked for any abnormalities or difficulties in speaking or breathing		
5. Evaluated the patient's head (shape, size, symmetry, mass, signs of trauma,)		
6. Evaluated the patient's scalp (hair distribution pattern, presence of mass, color, parasite,)		
7. Evaluated the facial area in terms of symmetry and the presence of lesions		
8. Palpated facial bony processes		
9. Palpated the parotid glands		
10. Palpated temporomandibular joints		
 11. Gently palpated and percussed the paranasal sinuses a. Frontal sinus just above the eyes b. Ethmoid sinus between two eyes c. Maxillary sinus above the zygomatic process 12. Checked for a runny nose 		
13. Inspected the nasal wings and septum		
14. Inspected the nasal cavity by gently lifting the tip of the nose		
15. Gently palpated the nose		
16. Evaluated both ears for symmetry		
17. Evaluated the auricles		
18. Evaluated mastoid processes		
19. Gently palpated the auricles and both tragi		
20. Evaluated the external auditory canals		
21. Checked the symmetry of the eyeballs		



22.	Checked the symmetry of the eyelids	
23.	Examined whether the sclera was white or not	
24.	Evaluated conjunctiva and checked normal appearance	
25.	Checked the symmetry of the pupils and irises	
26.	Evaluated whether the movements of the pupils were normal	
27.	Evaluated the lips in terms of symmetry and the presence of lesions	
28.	Ask the patient to open his/her mouth and evaluate his/her tongue, buccal mucosa, palate and floor of the mouth by using light source and tongue depressor	
29.	Palpated anterior cervical, posterior cervical, tonsillar, submandibular, submental and supraclavicular lymph nodes	
30.	Evaluated the neck for symmetry	
31.	Evaluated the neck for the presence of lesions	
32.	Evaluated the neck for the presence of a mass	
33.	Moved behind the patient	
34.	Placed the middle three fingers of each hand (second, third and fourth) on the midline of the front of the patient's neck, just below the chin	
35.	Gently palpated symmetrically until he/she reached the upper point of the thyroid cartilage	
36.	Palpated the thyroid cartilage downwards until he/she reached the horizontal groove separating the thyroid cartilage from the cricoid cartilage and found the first tracheal ring	
37.	Felt the crico-thyroidal membrane at the level of the midline of the neck in the horizontal groove separating the thyroid cartilage from the cricoid cartilage (the place where emergency intervention is performed in cases of upper airway obstruction)	
38.	Continued palpation downwards until he/she felt the second tracheal ring	
39.	Palpated by sliding three fingers of both hands towards the outside of the second tracheal ring	
40.	Palpated the thyroid gland, located 2-3 cm wide on both sides from the second tracheal ring	
41.	Continued to palpate very gently, being aware of the normal thyroid gland was very prominent and not compressible	
42.	If the thyroid gland cannot be felt, he/she asked the patient to swallow or drink a sip of water	
43.	Evaluated the thyroid gland in terms of growth, symmetry and the presence of nodules	
44.	Informed the patient about the examination results	
45.	Washed his/her hands	



SKILLS OF BREAST AND AXILLA EXAMINATION

Aim: To gain the skill of breast and axilla examination by applying the skill steps correctly and in the appropriate order

Materials: Model

STEPS	PERFORMED	NOT PERFORMED
1. Washed his/her hands		
Introduced himself/herself and acknowledged the patient about examination	the	
3. Made the patient sit on the examination table naked from the waist up		
4. Asked the patient to hang both arms freely at her sides		
5. Checked whether both breasts and nipples are symmetrical		
6. Checked for nipple shrinkage and eczematous lesions on the nipple and are	eola	
7. Checked whether there was any shrinkage on the skin of both breasts		
8. Asked the patient to put her hands over her head, while checking whet there was any shrinkage on the breast skin	:her	
 Asked the patient to put her hands on her waist and press, while check whether there was any shrinkage on the breast skin and whether there was noticeable mass on the hardened pectoralis major muscle 		
 Asked the patient to lie on his back and placed a pillow under his back on side to be examined 	the	
 Hastadan muayene edilecek taraftaki kolu başının altına yerleştirmesini başını karşı tarafa çevirmesini istedi 	i ve	
12. Using the palmar surfaces of the distal phalanx, the 2nd, 3rd and 4th fing of the active hand palpated the entire breast, including the axillary extens with circular movements starting from the areola and expanding towards periphery	ion,	
13. (If palpable) Determined the characteristics of the mass such as s consistency, adhesion to surrounding tissues and mobility	size,	
14. Followed the steps 10 - 13 for the other breast as well		
15. Gently squeezing both nipples, she checked their consistency, elasticity, whether there was any discharge	and	
16. Asked the patient to sit down		



17. Holding the patient's arm on the side being examined with the opposite hand, she lifted it to a position parallel to the ground	
she inted it to a position parallel to the ground	
18. Placed the other hand on the patient's axilla	
19. Position the patient's arm in a comfortable position so that its weight is supported by the examiner	
20. While the patient's arm was brought from abduction to adduction, completed the axilla examination from top to bottom, using the palmar aspect of the distal phalanges of the fingers in the axilla	
21. If a lymph node was detected, its characteristics such as size, consistency, adhesion to surrounding tissues, mobility and number were determined	
22. Applied steps 17 - 21 for the other axilla as well	
23. Moved to the back of the patient	
24. Asked the patient to turn her head to the side to be examined and palpated the supraclavicular space on that side	
25. If a lymph node is detected, its characteristics such as size, consistency, adhesion to surrounding tissues, mobility and number are determined	
26. Repeated the same procedures for the other supraclavicular space	
27. Informed the patient about the examination results and	
28. Washed his/her hands	

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SKILLS OF CARDIOVASCULAR SYSTEM EVALUATION AND EXAMINATION

OBJECTIVE: To learn the examination of adult cardiovascular system

MATERIALS REQUIRED: Stethoscope

	PERFORMED	NOT PERFORMED
	PE	PE
Washed hands and informed the patient about the examination		
Positioning him/herself to the right side of the patient		
(Inspection)		
3. Inspection any sign of stress on the patients (anxiety, pain, sweating, abnorm breathing, crying etc.)	al	
4. Evaluation of any dermatologic – skin lesions on the patient (cyanosis, sweaty dry skin, edema, ecchymosis, petechia etc.)	or	
 Evaluation of the posture, abnormal position or shape of extremity or thora presence of pacemaker, looking for scars for previous surgeries such as bypa surgery. 	ss	
6. Any finding for specific for cardiovascular disease on neck, head or factorial (xanthelasma, facies mitrale, musset sign, cyanosis, ecchymosis)	ce	
7. Evaluation of jugular venous pressure (patient at 45 degree, in sitting position at turn the head to the left side)	nd	
8. Abdominal examination, looking for distention, hernia, skin lesions, previous scars from previous surgeries.	us	
9. Extremity evaluation, looking for edema, nail examination, skin lesions.		
(Palpation)		
10. With warm hands, patient is lying down position. Evaluates the precordial beat (left and right ventricle). Fingers and hand on the midsternal - 5 th intercostal spate – midclavicular line to detect the position of ventricular apex.		
11. Patient is in sitting position – evaluated the precordial beat and evaluated the be and carotid artery synchronization	eat	
12. Evaluates any thrill on the chest wall both in sitting and lying down position		
13. Both in sitting and lying down position – evaluated and detected the position		
heart and dullness by percussion starting from axillary line and coming down	to	
the medial area by following intercostal spaces and placed markers by pen.		
(Auscultation)		
14. By warming the stethoscope, started the auscultation	th	
15. Shows the sites - points for auscultation of the heart on chest wall (used bo diaphragm and bell parts of the stethoscope, in sitting, on lean forward, lying down)		
and left side lying down) 16. Auscultation points;		
10. Trascultation points,		l .



17. Aortic: intersection of right border of sternum and second intercostal space	
18. Pulmonary: intersection of left border of sternum and second intercostal space	
19. Erb's point: intersection of right border of sternum and third intercostal space	
20. Tricuspit: intersection of left border of sternum and forth intercostal space	
21. Mitral: intersection of midclavicular line and fifth intercostal space	
22. Listens and can recognize S1 and S2 together with carotid pulse synchrony	
23. Evaluates strength, intensity and duration of the heart sounds	
24. Evaluates the heart rate, and rhythm	
25. Defines if there are any abnormal heart sounds	
26. Defines if there are any murmur and evaluates the radiation, type and pattern of	
the murmur.	
27. Performs dynamic auscultation (with various physiologic maneuvers or	
pharmacologic agents) and re-defines the murmurs.	
28. Evaluates the peripheral pulses (carotid, brachial, radial, femoral, popliteal,	
dorsalis pedis)	
29. Informs the patients about the findings in the examination	
30. Wash hands	

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SKILLS OF RESPIRATORY SYSTEM EXAMINATION

AIM: To apply the correct examination skills in the appropriate chronological order in aim of attaining the basic examination skills required

MATERIALS REQUIRED: Stethoscope

	STEPS	PERFORMED	NOT PERFORMED
1.	Wash hands and cleanse stethoscope with alcohol		
2.	Thaw stethoscope to avoid irritating patient		
3.	Introduce herself/himself, inform about the examination and take permission from the patient		
4.	Order the patient to undress chest. Provided the patient with the necessary privacy during the undressing and examination process		
5.	Count patients respiratory rate by direct inspection or by placing palm of hand on patients epigastric region for 1 minute		
6.	Request patient to join both hands around the waist while seated relaxing shoulders and slightly tilting the head forward		
7.	Assess symmetry of both hemithoraces posteriorly		
	Inspect the Thorax fully and check for any pathology		
9.	Request patient to inhale deeply and assess whether both hemithoraces contribute equally to respiration		
10.	Use both hands to form pili between the inferior part of scapulae and the midline		
11.	Request patient to inhale deeply and palpate and observe whether both hemithoraces are contributing equally to respiration		
12.	Repeat the previous step (11.th step) after forming pili with hands at the midline between both claviculae and inframammmilalry or axillary region		
13.	Palpate trakeal rings by placing index fingertip on the jugular incision		
	Palpate trachea from both right and left sides while measuring distance between sternocleidomastoid muscle and trachea		
15.	Place the palm of both hands at the outer border of the scapulae paralel to the vertebrae and inferior tp the scapulae paralel to the costa in a consecutive and symmetrical manner		
16.	Request patient to repeat loudly the words "ten-eleven" or "fourty-fourtyone" or "car"		
	Check the equality of the vibrations between both hemithoraces both anteriorly and posteriorly while the patient is repeating the above words		
18.	Spread left hand and place the middle finger on the chest wall		
19.	Hit with the middle finger of the right hand the middle finger of the left hand		



at the level of the first interdigital joint by flexing the wrist	
20. Place finger and perform percussion at the patients posterior symmetrically	
parallel to	
the spina scapula, between the scapular vertebrae and parallel to them, and	
then at the	
intercostal spaces below the scapula	
21. Locate and mark the dullness of the diafragm posteriorly after deep expiration	
and	
compare it with the dullness of the diafragm after deep inspiration	
22. Locate the costofrenik sinüs at the lungs basal location by detecting the	
change of sonor	
sounds to dullness and place finger on it, then request patient to inspire	
deeply and hold	
breath	
23. Check change in percussion sounds after ordering patient to inspire deeply	
24. Perform percussion on the whole anterior chest wall after requesting the	
patient to lie	
down on back starting from the below the clavicula down throughout all the	
intercostal	
spaces symmetrically	
25. Request patient to inhale and exhale quietly with mouth open	
26. Auscultate the chest wall posteriorly placing the stethoscope and requesting	
the patient	
to breath in and out at least once each time	
27. Auscultate the whole chest wall anteriorly posteriorly and laterally in a	
symmetrical	
order with a stethoscope	
28. Check whether the respiratory sounds on both hemithoraces are identical and	
presence	
of additional sounds	
29. Announce that the physical examination has ended and that the patient may	
dress up (if necessary help the patient)	
30. Wash hands and clean stethoscope with alcohol	
31. Provide information about the examination to patient	
32. Document findings immaculately on relative forms or computer system	
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Date: