

## Chapter 01: Introduction to Head and Neck Anatomy

### Fehrenbach: Illustrated Anatomy of the Head and Neck, 5th Edition

#### MULTIPLE CHOICE

1. Which surface of the body is visualized by the clinician when performing an extraoral examination of the patient's eyes?
  - a. Anterior
  - b. Posterior
  - c. Superior
  - d. Lateral

ANS: A

	Feedback
<b>A</b>	The patient's eyes are visualized on the anterior surface of the patient's body.
<b>B</b>	The patient's eyes would NOT be easily visualized on the posterior of the patient's body.
<b>C</b>	The patient's eyes would NOT be easily visualized on the superior surface of the patient's body.
<b>D</b>	The patient's eyes would NOT be easily visualized on the lateral surface of the patient's body.

DIF: Comprehension

REF: p. 3

OBJ: 2

TOP: CDA: General Chairside, I. B. Preliminary Physical Examination

MSC: NBDHE, Scientific Basis for Dental Hygiene Practice, 1.1.1 Head and Neck Anatomy

2. Which of the following is CORRECT concerning the sagittal plane of the body?
  - a. Parallel to the median plane
  - b. Parallel to the frontal plane
  - c. Parallel to the horizontal plane
  - d. Parallel to the coronal plane

ANS: A

	Feedback
<b>A</b>	A sagittal plane is parallel to the median plane.
<b>B</b>	A sagittal plane is NOT parallel to the frontal plane but perpendicular.
<b>C</b>	A horizontal plane is perpendicular to the median plane. A sagittal plane is parallel to the median plane. Thus a horizontal plane is perpendicular to a sagittal plane.
<b>D</b>	A sagittal plane is NOT parallel to the coronal plane but perpendicular.

DIF: Recall

REF: p. 3

OBJ: 1

TOP: CDA: General Chairside, I. A. Demonstrate understanding of basic oral and dental anatomy, physiology, and development

MSC: NBDHE, Scientific Basis for Dental Hygiene Practice, 1.1 Anatomy

3. When a patient is in anatomic position, what is the surface of the palms of the hand considered?
  - a. Anterior
  - b. Lateral
  - c. Medial
  - d. Posterior

ANS: A

<b>Feedback</b>	
<b>A</b>	The palms of the hands in anatomic position are facing toward the front and are anterior (or ventral).
<b>B</b>	The palms of the hands in anatomic position are NOT facing lateral or away from the median plane but are facing toward the front and are anterior (or ventral).
<b>C</b>	The palms of the hands in anatomic position are NOT facing medial or toward the median plane but are facing toward the front and are anterior (or ventral).
<b>D</b>	The palms of the hands in anatomic position are NOT facing toward the posterior or back of the body but are facing toward the front and are anterior (or ventral).

DIF: Recall            REF: p. 3            OBJ: 2

TOP: CDA: General Chairside, I. B. Preliminary Physical Examination

MSC: NBDHE, Provision of Clinical Dental Hygiene Services, 1.0 Assessing Patient Characteristics

4. What is the anatomic relationship of the right arm to the left leg?
  - a. Sagittal
  - b. Contralateral
  - c. Ipsilateral
  - d. Midsagittal

ANS: B

<b>Feedback</b>	
<b>A</b>	The two legs are contralateral to each other. Sagittal describes a plane of division of the body created by an imaginary plane parallel to the median plane.
<b>B</b>	Contralateral structures are located on the opposite side of the body, which is the anatomic relationship of the right arm to the left leg.
<b>C</b>	Ipsilateral refers to structures on the same side of the body; in contrast, the two legs are contralateral to each other and thus are located on the opposite side of the body.
<b>D</b>	The two legs are contralateral to each other. Midsagittal describes a plane that divides the body into right and left halves.

DIF: Comprehension            REF: p. 3            OBJ: 2

TOP: CDA: General Chairside, I. A. Demonstrate understanding of basic oral and dental anatomy, physiology, and development

MSC: NBDHE, Scientific Basis for Dental Hygiene Practice, 1.1 Anatomy

5. What is the anatomic relationship of the muscles to the skin?

- a. Anterior
- b. External
- c. Deep
- d. Superficial

ANS: C

	<b>Feedback</b>
<b>A</b>	Muscles are deep to the skin.
<b>B</b>	Muscles are deep to the skin.
<b>C</b>	Muscles are located inward, away from the body surface, deep to the skin.
<b>D</b>	Muscles are deep to the skin.

DIF: Comprehension

REF: p. 3

OBJ: 2

TOP: CDA: General Chairside, I. A. Demonstrate understanding of basic oral and dental anatomy, physiology, and development

MSC: NBDHE, Scientific Basis for Dental Hygiene Practice, 1.1 Anatomy

6. What is the anatomic relationship of the shoulders to the hips?
- a. Deep
  - b. Medial
  - c. Inferior
  - d. Superior

ANS: D

	<b>Feedback</b>
<b>A</b>	The shoulders are superior to the hips.
<b>B</b>	The shoulders are superior to the hips.
<b>C</b>	The shoulders are superior to the hips.
<b>D</b>	The shoulders are superior to or closer to the head than the hips.

DIF: Comprehension

REF: p. 3

OBJ: 2

TOP: CDA: General Chairside, I. A. Demonstrate understanding of basic oral and dental anatomy, physiology, and development

MSC: NBDHE, Scientific Basis for Dental Hygiene Practice, 1.1 Anatomy

7. Which of the following is meant by the term “ventral”?
- a. Back of an area of the body
  - b. Front of an area of the body
  - c. Inner side of an area of the body
  - d. Outer side of an area of the body

ANS: B

	<b>Feedback</b>
<b>A</b>	The back of an area of the body is referred to as the posterior surface.
<b>B</b>	The front of an area of the body is referred to as the ventral surface.
<b>C</b>	The inner side of an area of the body, away from the body surface, is referred to as deep.
<b>D</b>	The outside of an area of the body, toward the surface, is referred to as

	superficial.
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DIF: Recall            REF: p. 3            OBJ: 1  
TOP: CDA: General Chairside, I. A. Demonstrate understanding of basic oral and dental anatomy, physiology, and development  
MSC: NBDHE, Scientific Basis for Dental Hygiene Practice, 1.1 Anatomy

8. Which of the following describes a patient's eyes when they are in anatomic position?
- a. Closed tightly
  - b. Looking toward the lateral
  - c. Looking toward the medial
  - d. Looking straight forward

ANS: D

<b>Feedback</b>	
<b>A</b>	The patient's eyes in anatomic position are open and look forward.
<b>B</b>	The patient's eyes in anatomic position are open and look forward.
<b>C</b>	The patient's eyes in anatomic position are open and look forward.
<b>D</b>	The patient's eyes in anatomic position are open and look forward.

DIF: Recall            REF: p. 2            OBJ: 2  
TOP: CDA: General Chairside, I. B. Preliminary Physical Examination  
MSC: NBDHE, Scientific Basis for Dental Hygiene Practice, 1.1.1 Head and Neck Anatomy

9. What is the anatomic relationship of the maxillary arch to the mandibular arch?
- a. Deep
  - b. Inferior
  - c. Superior
  - d. Superficial

ANS: C

<b>Feedback</b>	
<b>A</b>	The maxillary arch is superior to the mandibular arch. Deep refers to structures that are located away from the body surface.
<b>B</b>	The maxillary arch is superior to the mandibular arch. Inferior refers to surfaces closer to the feet or that face toward the feet.
<b>C</b>	The maxillary arch is superior to the mandibular arch.
<b>D</b>	The maxillary arch is superior to the mandibular arch. Superficial refers to structures located toward the surface of the body.

DIF: Comprehension            REF: p. 3            OBJ: 2  
TOP: CDA: General Chairside, I. A. Demonstrate understanding of basic oral and dental anatomy, physiology, and development  
MSC: NBDHE, Scientific Basis for Dental Hygiene Practice, 1.1.1 Head and Neck Anatomy

10. What is the anatomic relationship of the teeth located in the front of the mouth to the teeth located in the back of the mouth?
- a. Anterior
  - b. Medial

- c. Posterior
- d. Superficial

ANS: C

	<b>Feedback</b>
<b>A</b>	Teeth located in the back of the mouth are considered posterior. Teeth located in the front of the mouth are considered anterior.
<b>B</b>	Medial refers to structures located closer to the median plane.
<b>C</b>	Teeth located in the back of the mouth are considered posterior to teeth located in the front of the mouth, which are considered anterior.
<b>D</b>	Superficial refers to structures located closer to the surface of the body.

DIF: Comprehension

REF: p. 3

OBJ: 2

TOP: CDA: General Chairside, I. A. Demonstrate understanding of basic oral and dental anatomy, physiology, and development

MSC: NBDHE, Scientific Basis for Dental Hygiene Practice, 1.1.2 Dental Anatomy

11. The inner side of the wall of a hollow structure is referred to as internal. In contrast, the outer side of the wall of a hollow structure is external.
- a. Both statements are true.
  - b. Both statements are false.
  - c. The first statement is true; the second is false.
  - d. The first statement is false; the second is true.

ANS: A

	<b>Feedback</b>
<b>A</b>	Both statements are true. The inner side of the wall of a hollow structure is referred to as internal. The outer side of the wall of a hollow structure is external.
<b>B</b>	Both statements are true. The inner side of the wall of a hollow structure is referred to as internal. The outer side of the wall of a hollow structure is external.
<b>C</b>	Both statements are true. The inner side of the wall of a hollow structure is referred to as internal. The outer side of the wall of a hollow structure is external.
<b>D</b>	Both statements are true. The inner side of the wall of a hollow structure is referred to as internal. The outer side of the wall of a hollow structure is external.

DIF: Recall

REF: p. 3

OBJ: 1

TOP: CDA: General Chairside, I. A. Demonstrate understanding of basic oral and dental anatomy, physiology, and development

MSC: NBDHE, Scientific Basis for Dental Hygiene Practice, 1.1 Anatomy

12. What is another term for a *transverse section*?
- a. Vertical section
  - b. Horizontal section
  - c. Anterior section

d. Posterior section

ANS: B

	<b>Feedback</b>
<b>A</b>	The transverse section or horizontal section is a division through a horizontal plane.
<b>B</b>	The transverse section or horizontal section is a division through a horizontal plane.
<b>C</b>	The transverse section or horizontal section is a division through a horizontal plane.
<b>D</b>	The transverse section or horizontal section is a division through a horizontal plane.

DIF: Recall

REF: p. 3

OBJ: 1

TOP: CDA: General Chairside, I. A. Demonstrate understanding of basic oral and dental anatomy, physiology, and development

MSC: NBDHE, Scientific Basis for Dental Hygiene Practice, 1.1 Anatomy

13. An area closer to the median plane is considered to be distal, and an area farther from the median plane is considered proximal.
- Both statements are true.
  - Both statements are false.
  - The first statement is true; the second is false.
  - The first statement is false; the second is true.

ANS: B

	<b>Feedback</b>
<b>A</b>	Both statements are false. An area closer to the median plane is considered to be proximal, and an area farther from the median plane is considered distal.
<b>B</b>	Both statements are false. An area closer to the median plane is considered to be proximal, and an area farther from the median plane is considered distal.
<b>C</b>	Both statements are false. An area closer to the median plane is considered to be proximal, and an area farther from the median plane is considered distal.
<b>D</b>	Both statements are false. An area closer to the median plane is considered to be proximal, and an area farther from the median plane is considered distal.

DIF: Recall

REF: p. 3

OBJ: 1

TOP: CDA: General Chairside, I. A. Demonstrate understanding of basic oral and dental anatomy, physiology, and development

MSC: NBDHE, Scientific Basis for Dental Hygiene Practice, 1.1 Anatomy

14. Structures on the same side of the body are considered ipsilateral. Structures on the opposite side of the body are considered contralateral.
- Both statements are true.
  - Both statements are false.
  - The first statement is true; the second is false.
  - The first statement is false; the second is true.

ANS: A

<b>Feedback</b>	
<b>A</b>	Both statements are true. Structures on the same side of the body are considered ipsilateral. Structures on the opposite side of the body are considered contralateral.
<b>B</b>	Both statements are true. Structures on the same side of the body are considered ipsilateral. Structures on the opposite side of the body are considered contralateral.
<b>C</b>	Both statements are true. Structures on the same side of the body are considered ipsilateral. Structures on the opposite side of the body are considered contralateral.
<b>D</b>	Both statements are true. Structures on the same side of the body are considered ipsilateral. Structures on the opposite side of the body are considered contralateral.

DIF: Recall            REF: p. 3            OBJ: 1  
TOP: CDA: General Chairside, I. A. Demonstrate understanding of basic oral and dental anatomy, physiology, and development  
MSC: NBDHE, Scientific Basis for Dental Hygiene Practice, 1.1 Anatomy

15. The number of bones and muscles in the head and neck is NOT usually constant, and specific details of these structures can vary from patient to patient.
- Both statements are true.
  - Both statements are false.
  - The first statement is true; the second is false.
  - The first statement is false; the second is true.

ANS: D

<b>Feedback</b>	
<b>A</b>	The first statement is false; the second is true. The number of bones and muscles in the head and neck is usually constant, but specific details of these structures can vary from patient to patient.
<b>B</b>	The first statement is false; the second is true. The number of bones and muscles in the head and neck is usually constant, but specific details of these structures can vary from patient to patient.
<b>C</b>	The first statement is false; the second is true. The number of bones and muscles in the head and neck is usually constant, but specific details of these structures can vary from patient to patient.
<b>D</b>	The first statement is false; the second is true. The number of bones and muscles in the head and neck is usually constant, but specific details of these structures can vary from patient to patient.

DIF: Comprehension                            REF: p. 3            OBJ: 3  
TOP: CDA: General Chairside, I. B. Preliminary Physical Examination  
MSC: NBDHE, Provision of Clinical Dental Hygiene Services, 1.0 Assessing Patient Characteristics

16. The median plane is created by an imaginary line dividing the body into equal right and left halves. On the surface of the body, these halves are NEVER symmetric in structure.
- Both statements are true.

- b. Both statements are false.
- c. The first statement is true; the second is false.
- d. The first statement is false; the second is true.

ANS: C

<b>Feedback</b>	
<b>A</b>	The first statement is true; the second is false. The median plane or midsagittal plane is created by an imaginary line dividing the body into equal right and left halves. On the surface of the body, these halves are generally symmetric in structure, yet the same symmetry does NOT apply to all internal structures.
<b>B</b>	The first statement is true; the second is false. The median plane or midsagittal plane is created by an imaginary line dividing the body into equal right and left halves. On the surface of the body, these halves are generally symmetric in structure, yet the same symmetry does NOT apply to all internal structures.
<b>C</b>	The first statement is true; the second is false. The median plane or midsagittal plane is created by an imaginary line dividing the body into equal right and left halves. On the surface of the body, these halves are generally symmetric in structure, yet the same symmetry does NOT apply to all internal structures.
<b>D</b>	The first statement is true; the second is false. The median plane or midsagittal plane is created by an imaginary line dividing the body into equal right and left halves. On the surface of the body, these halves are generally symmetric in structure, yet the same symmetry does NOT apply to all internal structures.

DIF: Recall      REF: p. 3      OBJ: 2

TOP: CDA: General Chairside, I. A. Demonstrate understanding of basic oral and dental anatomy, physiology, and development

MSC: NBDHE, Scientific Basis for Dental Hygiene Practice, 1.1 Anatomy

17. An area closer to the median plane of the body or structure is considered lateral. An area farther from the median plane of the body or structure is considered proximal.
- a. Both statements are true.
  - b. Both statements are false.
  - c. The first statement is true; the second is false.
  - d. The first statement is false; the second is true.

ANS: B

<b>Feedback</b>	
<b>A</b>	Both statements are false. An area closer to the median plane of the body or structure is considered medial. An area farther from the median plane of the body or structure is considered lateral, and an area closer to the median plane is considered to be proximal.
<b>B</b>	Both statements are false. An area closer to the median plane of the body or structure is considered medial. An area farther from the median plane of the body or structure is considered lateral, and an area closer to the median plane is considered to be proximal. Within the dentition, the proximal surface would be considered mesial.
<b>C</b>	Both statements are false. An area closer to the median plane of the body or structure is considered medial. An area farther from the median plane of the



	body or structure is considered lateral, and an area closer to the median plane is considered to be proximal.
<b>D</b>	Both statements are false. An area closer to the median plane of the body or structure is considered medial. An area farther from the median plane of the body or structure is considered lateral, and an area closer to the median plane is considered to be proximal.

DIF: Recall      REF: p. 3      OBJ: 2  
TOP: CDA: General Chairside, I. A. Demonstrate understanding of basic oral and dental anatomy, physiology, and development  
MSC: NBDHE, Scientific Basis for Dental Hygiene Practice, 1.1 Anatomy

18. What is another term for *coronal plane*?
- Frontal plane
  - Coronal section
  - Horizontal plane
  - Horizontal section

ANS: A

<b>Feedback</b>	
<b>A</b>	A frontal plane or coronal plane is created by an imaginary line dividing the body at any level into both anterior and posterior parts.
<b>B</b>	The frontal plane or coronal section is a division through any frontal plane.
<b>C</b>	A horizontal plane is created by an imaginary line dividing the body at any level into superior and inferior parts and is always perpendicular to the median plane.
<b>D</b>	The transverse section or horizontal section is a division through a horizontal plane.

DIF: Recall      REF: p. 3      OBJ: 1  
TOP: CDA: General Chairside, I. A. Demonstrate understanding of basic oral and dental anatomy, physiology, and development  
MSC: NBDHE, Scientific Basis for Dental Hygiene Practice, 1.1 Anatomy

19. Muscles may differ in size and details of their attachments. Joints, vessels, nerves, glands, lymph nodes, fasciae, and spaces of an individual can vary in size, location, and even presence.
- Both statements are true.
  - Both statements are false.
  - The first statement is true; the second is false.
  - The first statement is false; the second is true.

ANS: A

<b>Feedback</b>	
<b>A</b>	Both statements are true. Muscles may differ in size and details of their attachments. Joints, vessels, nerves, glands, lymph nodes, fasciae, and spaces of an individual can vary in size, location, and even presence.
<b>B</b>	Both statements are true. Muscles may differ in size and details of their attachments. Joints, vessels, nerves, glands, lymph nodes, fasciae, and spaces of

	an individual can vary in size, location, and even presence.
<b>C</b>	Both statements are true. Muscles may differ in size and details of their attachments. Joints, vessels, nerves, glands, lymph nodes, fasciae, and spaces of an individual can vary in size, location, and even presence.
<b>D</b>	Both statements are true. Muscles may differ in size and details of their attachments. Joints, vessels, nerves, glands, lymph nodes, fasciae, and spaces of an individual can vary in size, location, and even presence.

DIF: Comprehension

REF: p. 3

OBJ: 3

TOP: CDA: General Chairside, I. A. Demonstrate understanding of basic oral and dental anatomy, physiology, and development

MSC: NBDHE, Scientific Basis for Dental Hygiene Practice, 1.1 Anatomy

20. What is another term for *midsagittal plane*?
- Median plane
  - Coronal plane
  - Frontal plane
  - Horizontal plane

ANS: A

<b>Feedback</b>	
<b>A</b>	The median plane or midsagittal plane is created by an imaginary line dividing the body into equal right and left halves.
<b>B</b>	A frontal plane or coronal plane is created by an imaginary line dividing the body at any level into anterior and posterior parts.
<b>C</b>	A frontal plane or coronal plane is created by an imaginary line dividing the body at any level into anterior and posterior parts.
<b>D</b>	A horizontal plane is created by an imaginary line dividing the body at any level into superior and inferior parts and is always perpendicular to the median plane.

DIF: Recall

REF: p. 3

OBJ: 1

TOP: CDA: General Chairside, I. A. Demonstrate understanding of basic oral and dental anatomy, physiology, and development

MSC: NBDHE, Scientific Basis for Dental Hygiene Practice, 1.1 Anatomy

21. A horizontal plane is created by an imaginary line dividing the body at any level into both superior and inferior parts and is ALWAYS \_\_\_\_\_ to the median plane.
- anterior
  - posterior
  - parallel
  - perpendicular

ANS: D

<b>Feedback</b>	
<b>A</b>	A frontal plane or coronal plane is created by an imaginary line dividing the body at any level into both anterior and posterior parts. A horizontal plane is created by an imaginary line dividing the body at any level into both superior and inferior parts and is always perpendicular to the median plane.

<b>B</b>	A frontal plane or coronal plane is created by an imaginary line dividing the body at any level into both anterior and posterior parts. A horizontal plane is created by an imaginary line dividing the body at any level into both superior and inferior parts and is always perpendicular to the median plane.
<b>C</b>	A sagittal plane is any plane created by an imaginary plane parallel to the median plane. A horizontal plane is created by an imaginary line dividing the body at any level into both superior and inferior parts and is always perpendicular to the median plane.
<b>D</b>	A horizontal plane is created by an imaginary line dividing the body at any level into both superior and inferior parts and is always perpendicular to the median plane.

DIF: Recall      REF: p. 3      OBJ: 2  
TOP: CDA: General Chairside, I. A. Demonstrate understanding of basic oral and dental anatomy, physiology, and development  
MSC: NBDHE, Scientific Basis for Dental Hygiene Practice, 1.1 Anatomy

22. The ventral part is directed toward the anterior and is considered the opposite of the dorsal part when considering the entire body.
- Both statements are true.
  - Both statements are false.
  - The first statement is true; the second is false.
  - The first statement is false; the second is true.

ANS: A

<b>Feedback</b>	
<b>A</b>	Both statements are true. The ventral part is directed toward the anterior and is the opposite of the dorsal part when considering the entire body.
<b>B</b>	Both statements are true. The ventral part is directed toward the anterior and is the opposite of the dorsal part when considering the entire body.
<b>C</b>	Both statements are true. The ventral part is directed toward the anterior and is the opposite of the dorsal part when considering the entire body.
<b>D</b>	Both statements are true. The ventral part is directed toward the anterior and is the opposite of the dorsal part when considering the entire body.

DIF: Recall      REF: p. 3      OBJ: 2  
TOP: CDA: General Chairside, I. A. Demonstrate understanding of basic oral and dental anatomy, physiology, and development  
MSC: NBDHE, Scientific Basis for Dental Hygiene Practice, 1.1 Anatomy

23. The transverse section is a division through a \_\_\_\_\_ plane.
- horizontal
  - frontal
  - sagittal
  - coronal

ANS: A

<b>Feedback</b>	
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<b>A</b>	The transverse section or horizontal section is a division through a horizontal plane.
<b>B</b>	The frontal section or coronal section is a division through any frontal plane.
<b>C</b>	A sagittal plane is any plane created by an imaginary plane parallel to the median plane.
<b>D</b>	A frontal plane or coronal plane is created by an imaginary line dividing the body at any level into anterior and posterior parts.

DIF: Recall      REF: p. 3      OBJ: 1  
TOP: CDA: General Chairside, I. A. Demonstrate understanding of basic oral and dental anatomy, physiology, and development  
MSC: NBDHE, Scientific Basis for Dental Hygiene Practice, 1.1 Anatomy

24. The dental professional **MUST** have a thorough understanding of head and neck anatomy when performing patient examination procedures, both extraoral and intraoral. Certain terms can be used to give information about the depth of a structure in relationship to the surface of the body.
- Both the statement and the reason are correct and related.
  - Both the statement and the reason are correct but **NOT** related.
  - The statement is correct, but the reason is **NOT**.
  - The statement is **NOT** correct, but the reason is correct.
  - NEITHER** the statement **NOR** the reason is correct.

ANS: A

<b>Feedback</b>	
<b>A</b>	Both the statement and the reason are correct and related. The dental professional <b>MUST</b> have a thorough understanding of head and neck anatomy when performing patient examination procedures, both extraoral and intraoral. Certain terms can be used to give information about the depth of a structure in relationship to the surface of the body.
<b>B</b>	Both the statement and the reason are correct and related. The dental professional <b>MUST</b> have a thorough understanding of head and neck anatomy when performing patient examination procedures, both extraoral and intraoral. Certain terms can be used to give information about the depth of a structure in relationship to the surface of the body.
<b>C</b>	Both the statement and the reason are correct and related. The dental professional <b>MUST</b> have a thorough understanding of head and neck anatomy when performing patient examination procedures, both extraoral and intraoral. Certain terms can be used to give information about the depth of a structure in relationship to the surface of the body.
<b>D</b>	Both the statement and the reason are correct and related. The dental professional <b>MUST</b> have a thorough understanding of head and neck anatomy when performing patient examination procedures, both extraoral and intraoral. Certain terms can be used to give information about the depth of a structure in relationship to the surface of the body.
<b>E</b>	Both the statement and the reason are correct and related. The dental professional <b>MUST</b> have a thorough understanding of head and neck anatomy when performing patient examination procedures, both extraoral and intraoral.

	Certain terms can be used to give information about the depth of a structure in relationship to the surface of the body.
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DIF: Comprehension REF: p. 3 OBJ: 2  
 TOP: CDA: General Chairside, I. B. Preliminary Physical Examination | CDA: General Chairside, II. C. Describe how to perform and/or assist with intraoral procedures  
 MSC: NBDHE, Provision of Clinical Dental Hygiene Services, 1.0 Assessing Patient Characteristics

25. The face is on the anterior side of the head, and the neck is superior and posterior to the face.
- a. Both statements are true.
  - b. Both statements are false.
  - c. The first statement is true; the second is false.
  - d. The first statement is false; the second is true.

ANS: C

	Feedback
<b>A</b>	The first statement is true; the second is false. The face is on the anterior side of the head, and the neck is inferior and posterior to the face. The hair is superior to the face as well.
<b>B</b>	The first statement is true; the second is false. The face is on the anterior side of the head, and the neck is inferior and posterior to the face. The hair is superior to the face as well.
<b>C</b>	The first statement is true; the second is false. The face is on the anterior side of the head, and the neck is inferior and posterior to the face. The hair is superior to the face as well.
<b>D</b>	The first statement is true; the second is false. The face is on the anterior side of the head, and the neck is inferior and posterior to the face. The hair is superior to the face as well.

DIF: Comprehension REF: p. 3 OBJ: 2  
 TOP: CDA: General Chairside, I. A. Demonstrate understanding of basic oral and dental anatomy, physiology, and development  
 MSC: NBDHE, Scientific Basis for Dental Hygiene Practice, 1.1.1 Head and Neck Anatomy

**MULTIPLE RESPONSE**

1. From the following list of anatomic terms, select which terms are DIRECTLY associated with the planes that can be noted with the body. (*Select all that apply.*)
- a. Medial or distal
  - b. Median or sagittal
  - c. Frontal or horizontal
  - d. Lateral or proximal

ANS: B, C

	Feedback
<b>Correct</b>	Median, sagittal, frontal, and horizontal actually are planes, so they are DIRECTLY associated with planes that can be noted with the body.
<b>Incorrect</b>	Medial, distal, lateral, and proximal are descriptions for parts of the body

	in relationship to the planes, so they are NOT DIRECTLY associated with the planes themselves.
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DIF: Recall            REF: p. 4, Figure 1-4            OBJ: 1  
TOP: CDA: General Chairside, I. A. Demonstrate understanding of basic oral and dental anatomy, physiology, and development  
MSC: NBDHE, Scientific Basis for Dental Hygiene Practice, 1.1 Anatomy

2. From the following list of anatomic terms, select which terms can be used to give information about the depth of a structure in relationship to the surface of the body. (*Select all that apply.*)
- Medial
  - Superficial
  - Deep
  - External
  - Internal

ANS: B, C

	Feedback
<b>Correct</b>	Superficial and deep are both used to give information about the depth of a structure in relationship to the surface of the body.
<b>Incorrect</b>	Medial is closer to the median plane (and lateral is farther away from the median plane). Internal is on the inner side of the wall of a hollow structure, and external is on the outer side of the wall of a hollow structure. Both do NOT give information about the depth of a structure in relationship to the surface of the body.

DIF: Recall            REF: p. 3            OBJ: 1  
TOP: CDA: General Chairside, I. A. Demonstrate understanding of basic oral and dental anatomy, physiology, and development  
MSC: NBDHE, Scientific Basis for Dental Hygiene Practice, 1.1 Anatomy

3. From the following list of anatomic terms, select which terms are DIRECTLY related to the median plane of the body. (*Select all that apply.*)
- Medial
  - Lateral
  - Ipsilateral
  - Contralateral

ANS: A, B

	Feedback
<b>Correct</b>	Medial is closer to the median plane, and lateral is farther away from the median plane, so they both are DIRECTLY related to the median plane.
<b>Incorrect</b>	Ipsilateral is on the same side of the body, and contralateral is on the opposite side of the body, so they both are NOT DIRECTLY related to the median plane.

DIF: Recall            REF: p. 3            OBJ: 1  
TOP: CDA: General Chairside, I. A. Demonstrate understanding of basic oral and dental anatomy, physiology, and development

MSC: NBDHE, Scientific Basis for Dental Hygiene Practice, 1.1 Anatomy

4. From the following list of anatomic terms, select which terms are **DIRECTLY** related to either an inner OR an outer side of a wall of a hollow organ. (*Select all that apply.*)
- Superficial
  - Deep
  - Internal
  - External

ANS: C, D

	Feedback
<b>Correct</b>	Internal is on the inner side of the wall of a hollow structure, and external is on the outer side of the wall of a hollow structure; both are <b>DIRECTLY</b> related to either an inner OR an outer side of a wall of a hollow organ.
<b>Incorrect</b>	Superficial and deep are both used to give information about the depth of a structure in relationship to the surface of the body; both are <b>NOT DIRECTLY</b> related to either an inner OR an outer side of a wall of a hollow organ.

DIF: Recall      REF: p. 3      OBJ: 1

TOP: CDA: General Chairside, I. A. Demonstrate understanding of basic oral and dental anatomy, physiology, and development

MSC: NBDHE, Scientific Basis for Dental Hygiene Practice, 1.1 Anatomy

5. From the following list of anatomic terms, select which terms are related to a structure being either on the same side of the body OR on the opposite side of the body. (*Select all that apply.*)
- Medial
  - Lateral
  - Ipsilateral
  - Contralateral

ANS: C, D

	Feedback
<b>Correct</b>	Ipsilateral is on the same side of the body, and contralateral is on the opposite side of the body; both are related to a structure being either on the same side of the body OR on the opposite side of the body.
<b>Incorrect</b>	Medial is closer to the median plane, and lateral is farther away from the median plane; both are <b>NOT</b> related to a structure being either on the same side of the body OR on the opposite side of the body.

DIF: Recall      REF: p. 3      OBJ: 1

TOP: CDA: General Chairside, I. A. Demonstrate understanding of basic oral and dental anatomy, physiology, and development

MSC: NBDHE, Scientific Basis for Dental Hygiene Practice, 1.1 Anatomy

6. Which of the following statements listed are **CORRECT** concerning the body in anatomic position? (*Select all that apply.*)
- The body can be standing erect.

- b. The patient’s head and neck when sitting upright in a dental chair.
- c. The arms are at the sides with the palms directed forward.
- d. The toes directed forward and the eyes looking forward.

ANS: A, B, C, D

In anatomic position, the body can be standing erect. The arms are at the sides with the palms and toes directed forward and the eyes looking forward. This position is assumed with respect to the position of the patient’s head and neck when sitting upright in a dental chair.

DIF: Comprehension REF: p. 2 OBJ: 2  
 TOP: CDA: General Chairside, I. B. Preliminary Physical Examination  
 MSC: NBDHE, Scientific Basis for Dental Hygiene Practice, 1.0 Assessing Patient Characteristics

7. Which of the following definitions of anatomic terms listed are CORRECT? (*Select all that apply.*)
- a. An area that faces away from the head and toward from the feet is its superior part.
  - b. The ventral part is directed toward the posterior.
  - c. An area closer to the median plane is considered to be proximal.
  - d. An area closer to the median plane of the body or structure is considered medial.

ANS: C, D

	Feedback
<b>Correct</b>	An area closer to the median plane is considered to be proximal. An area closer to the median plane of the body or structure is considered medial.
<b>Incorrect</b>	An area that faces away from the head and toward the feet is its inferior part and NOT its superior part that faces toward the head and away from the feet. The dorsal part is directed toward the posterior and NOT toward the anterior like the ventral part.

DIF: Recall REF: p. 3 OBJ: 1  
 TOP: CDA: General Chairside, I. A. Demonstrate understanding of basic oral and dental anatomy, physiology, and development  
 MSC: NBDHE, Scientific Basis for Dental Hygiene Practice, 1.1 Anatomy

## MATCHING

*From the following list of anatomic terms, match those terms with their CORRECT definitions.*

- a. Area that is farther away from the median plane of the body or structure.
- b. Area that is closer to the median plane of the body or structure.
- c. Structure on the opposite side of the body.
- d. Structure on the same side of the body.

- 1. Medial
- 2. Lateral
- 3. Ipsilateral
- 4. Contralateral

1. ANS: B DIF: Recall REF: p. 3 OBJ: 1  
 TOP: CDA: General Chairside, I. A. Demonstrate understanding of basic oral and dental anatomy,



- physiology, and development  
MSC: NBDHE, Scientific Basis for Dental Hygiene Practice, 1.1 Anatomy
2. ANS: A                   DIF: Recall                   REF: p. 3                   OBJ: 1  
TOP: CDA: General Chairside, I. A. Demonstrate understanding of basic oral and dental anatomy, physiology, and development  
MSC: NBDHE, Scientific Basis for Dental Hygiene Practice, 1.1 Anatomy
3. ANS: D                   DIF: Recall                   REF: p. 3                   OBJ: 1  
TOP: CDA: General Chairside, I. A. Demonstrate understanding of basic oral and dental anatomy, physiology, and development  
MSC: NBDHE, Scientific Basis for Dental Hygiene Practice, 1.1 Anatomy
4. ANS: C                   DIF: Recall                   REF: p. 3                   OBJ: 1  
TOP: CDA: General Chairside, I. A. Demonstrate understanding of basic oral and dental anatomy, physiology, and development  
MSC: NBDHE, Scientific Basis for Dental Hygiene Practice, 1.1 Anatomy

*From the following list of anatomic terms, match those terms with their CORRECT alternative terms.*

- a. Coronal plane
  - b. Midsagittal plane
  - c. Horizontal section
  - d. Coronal section
5. Median plane
  6. Frontal plane
  7. Transverse section
  8. Frontal section
5. ANS: B                   DIF: Recall                   REF: p. 3                   OBJ: 1  
TOP: CDA: General Chairside, I. A. Demonstrate understanding of basic oral and dental anatomy, physiology, and development  
MSC: NBDHE, Scientific Basis for Dental Hygiene Practice, 1.1 Anatomy
6. ANS: A                   DIF: Recall                   REF: p. 3                   OBJ: 1  
TOP: CDA: General Chairside, I. A. Demonstrate understanding of basic oral and dental anatomy, physiology, and development  
MSC: NBDHE, Scientific Basis for Dental Hygiene Practice, 1.1 Anatomy
7. ANS: C                   DIF: Recall                   REF: p. 3                   OBJ: 1  
TOP: CDA: General Chairside, I. A. Demonstrate understanding of basic oral and dental anatomy, physiology, and development  
MSC: NBDHE, Scientific Basis for Dental Hygiene Practice, 1.1 Anatomy
8. ANS: D                   DIF: Recall                   REF: p. 3                   OBJ: 1  
TOP: CDA: General Chairside, I. A. Demonstrate understanding of basic oral and dental anatomy, physiology, and development  
MSC: NBDHE, Scientific Basis for Dental Hygiene Practice, 1.1 Anatomy

## **OTHER**

1. Place the following in the CORRECT order suggested when studying diagrams or associated photographs of anatomic structures, especially those of dissections.
  - a. Note any familiar structures.
  - b. Note any overall descriptions.
  - c. Look to areas highlighted.

ANS:  
B, A, C

	<b>Feedback</b>
<b>Correct Order</b>	It is important to keep in mind when studying diagrams or associated photographs of anatomic structures, especially those of dissections, to first note any overall descriptions (e.g., view, section) as well as any nearby directional pointers. Then note any familiar structures (e.g., apex of tongue or nose, maxilla or mandible) to allow for basic orientation. Next look to the areas highlighted, if noted and, of course, those structures that are labeled.
<b>Incorrect</b>	This process in the correct order will help overall in the study of the head and neck.

DIF: Application REF: p. 3 OBJ: 2

TOP: CDA: General Chairside, I. A. Demonstrate understanding of basic oral and dental anatomy, physiology, and development

MSC: NBDHE, Scientific Basis for Dental Hygiene Practice, 1.1 Anatomy