MINI TEST
(Short-Answer Version)

NURSING DEPARTMENT

NURSING 180-XXX

SITUATION

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| Mr. Flanagan, 65 years old, was admitted to your medical unit two days ago. He was diagnosed with COPD (chronic obstructive pulmonary disease).Today at 08:00, on initial assessment, you notice the following: productive cough, dyspnea on exertion, bilateral wheezing throughout the lung fields, and restlessness. His vital signs are: BP 140/90, P 90, RR 28, regular and shallow, O2 saturation 87% on O2 2L/min, T 37C PO.Medical orders include:  O2 via nasal prongs to maintain O2 saturation ≥ 92% Capillary blood gases qAM. |

**Field of Nursing:** Medicine & Surgery

**Class Content:** Chronic Obstructive Pulmonary Disease

**Learning Outcome:** Generate nursing diagnoses that can arise in persons with COPD

**Professional Component:** Assessment

**Functional Component:** Scientific

**Bloom’s Taxonomy:** Apply

Question 1

Identify the nursing problem.

Answer

*Ineffective gas exchange or low oxygen saturation or hypoxia*

Reference

Lewis, S., Bucher, L., Heitkemper, M., Harding, M., Barry, M., Lok, J., Tyerman, J., & Goldsworthy, S. (2019). *Medical-Surgical Nursing in Canada,* 4th ed. Toronto: Elsevier, p. 681.

Statistics

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|  | A’17 | A’18 | A’19 | A’20 | A’21 |
| **Difficulty Index** | .63 | .68 |  |  |  |
| **Discrimination Index** | .09 | .13 |  |  |  |

**Field of Nursing:** Medicine & Surgery

**Class Content:** Chronic Obstructive Pulmonary Disease

**Learning Outcome:** Describe nursing interventions for a client in the chronic and acute phases of COPD

**Professional Component:** Intervention

**Functional Component:** Scientific

**Bloom’s Taxonomy:** Analyze

Question 2

Identify the intervention you must carry out immediately.

Answer

*Increase oxygen flow rate until saturation reaches 92%*

Reference

Lewis, S., Bucher, L., Heitkemper, M., Harding, M., Barry, M., Lok, J., Tyerman, J., & Goldsworthy, S. (2019). *Medical-Surgical Nursing in Canada,* 4th ed. Toronto: Elsevier, p. 681.

Statistics

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|  | A’17 | A’18 | A’19 | A’20 | A’21 |
| **Difficulty Index** | .42 | .45 |  |  |  |
| **Discrimination Index** | .20 | .24 |  |  |  |

**Field of Nursing:** Medicine & Surgery

**Class Content:** Chronic Obstructive Pulmonary Disease

**Learning Outcome:** Describe pharmacological treatments commonly used in the treatment of COPD

**Professional Component:** Intervention

**Functional Component:** Communication

**Bloom’s Taxonomy:** Apply

Question 3

You are administering Mr. Flanagan’s morning prednisone (Deltasone). Mr. Flanagan asks you why he must take this pill. Respond to Mr. Flanagan’s question.

Answer

*Mr. Flanagan, it will decrease the inflammation in your airways, allowing you to breathe more easily.*

Reference

Lilley, L., Collins, S., Snyder, J., Swart, B., Savoca, D., & Gorospe, F. (2017). *Pharmacology for Canadian Health Care Practice,* 3rd ed. Toronto: Elsevier, p. 653.

Statistics

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|  | A’17 | A’18 | A’19 | A’20 | A’21 |
| **Difficulty Index** | .69 | .64 |  |  |  |
| **Discrimination Index** | .35 | .36 |  |  |  |

**Field of Nursing:** Medicine & Surgery

**Class Content:** Chronic Obstructive Pulmonary Disease

**Learning Outcome:** Describe the diagnostic tests used in the diagnosis and treatment of COPD

**Professional Component:** Assessment

**Functional Component:** Scientific

**Bloom’s Taxonomy:** Evaluate

Question 4

Mr. Flanagan’s blood gas results are as follows:

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| --- | --- | --- |
| ABGs | Results | Normal Range |
| pH | 7.35 | 7.35–7.45 |
| PaO2 | 81 | 75–100 mmHg |
| PaCO2 | 55 | 35–45 mmHg |
| HCO3  | 30 | 22–26 mmol/L |

What is your interpretation of these results?

Answer

*Fully compensated respiratory acidosis. (The pH indicates acidosis and the PaCO2 shows a respiratory disorder, the HCO3 is attempting to correct the pH back to a normal range)*

Reference

Lewis, S., Bucher, L., Heitkemper, M., Harding, M., Barry, M., Lok, J., Tyerman, J., & Goldsworthy, S. (2019). *Medical-Surgical Nursing in Canada,* 4th ed. Toronto: Elsevier, pp. 373–374.

Statistics

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|  | A’17 | A’18 | A’19 | A’20 | A’21 |
| **Difficulty Index** | .34 | .33 |  |  |  |
| **Discrimination Index** | .12 | .29 |  |  |  |

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| Mr. Flanagan’s discharge is being planned. He is worried that he will not be able to resume his daily activities. He states: “I used to be able to take walks every day and get my groceries. Now I’m afraid I won’t make it up the stairs.” |

**Field of Nursing:** Medicine & Surgery

**Class Content:** Chronic Obstructive Pulmonary Disease

**Learning Outcome:** Describe the nurse’s role in discharge teaching for the client with COPD

**Professional Component:** Intervention

**Functional Component:** Scientific

**Bloom’s Taxonomy:** Apply

Question 5

Provide Mr. Flanagan with three recommendations to resume his daily activities at home.

Answer

Any of the three:

* *Resume activities gradually*
* *Alternate periods of activity with periods of rest*
* *Choose the best time of day to go for a walk (when you are feeling most energetic)*
* *Use the pursed lip breathing technique during activities that trigger SOB*
* *Get adequate sleep*

Reference

Lewis, S., Bucher, L., Heitkemper, M., Harding, M., Barry, M., Lok, J., Tyerman, J., & Goldsworthy, S. (2019). *Medical-Surgical Nursing in Canada,* 4th ed. Toronto: Elsevier, p. 683.

Statistics

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|  | A’17 | A’18 | A’19 | A’20 | A’21 |
| **Difficulty Index** | .67 | .70 |  |  |  |
| **Discrimination Index** | .26 | .25 |  |  |  |

SITUATION

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| Mr. Miller is admitted to hospital in severe respiratory distress, saying that he woke up last night unable to breathe. On examination, he appears anxious and is found to have bilateral crackles, peripheral edema, and jugular venous distention. Vital signs include: BP 140/90, P 120, R 32 and shallow.He has a past medical history of hypertension and myocardial infarction and is now diagnosed with heart failure. Medical orders include bedrest, oxygen, and intravenous (IV) furosemide (Lasix). |

**Field of Nursing:** Medicine & Surgery

**Class Content:** Heart Failure

**Learning Outcome:** Identify clinical manifestations of heart failure

**Professional Component:** Assessment

**Functional Component:** Scientific

**Bloom’s Taxonomy:** Apply

Question 1

Identify two clinical manifestations in Mr. Miller that support the diagnosis of left-sided heart failure.

Answer

Two of the three:

* *Tachypnea or RR 32/min*
* *Tachycardia or P 120/min*
* *Paroxysmal nocturnal dyspnea*

Reference

Lewis, S., Bucher, L., Heitkemper, M., Harding, M., Barry, M., Lok, J., Tyerman, J., & Goldsworthy, S. (2019). *Medical-Surgical Nursing in Canada,* 4th ed. Toronto: Elsevier, p. 849.

Statistics

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|  | A’17 | A’18 | A’19 | A’20 | A’21 |
| **Difficulty Index** | .68 | .75 |  |  |  |
| **Discrimination Index** | .18 | .41 |  |  |  |

**Field of Nursing:** Medicine & Surgery

**Class Content:** Heart Failure

**Learning Outcome:** Describe therapies in heart failure

**Professional Component:** Intervention

**Functional Component:** Scientific

**Bloom’s Taxonomy:** Understand

Question 2

Identify the main purpose of administering oxygen to Mr. Miller.

Answer

One of:

* *relieve dyspnea*
* *improve gas exchange*
* *decrease workload of the heart*

Reference

Lewis, S., Bucher, L., Heitkemper, M., Harding, M., Barry, M., Lok, J., Tyerman, J., & Goldsworthy, S. (2019). *Medical-Surgical Nursing in Canada,* 4th ed. Toronto: Elsevier, p. 852.

Statistics

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|  | A’17 | A’18 | A’19 | A’20 | A’21 |
| **Difficulty Index** | .76 | .65 |  |  |  |
| **Discrimination Index** | .31 | .28 |  |  |  |

**Field of Nursing:** Medicine & Surgery

**Class Content:** Heart Failure

**Learning Outcome:** Describe nursing interventions for a client with heart failure

**Professional Component:** Intervention

**Functional Component:** Scientific

**Bloom’s Taxonomy:** Analyze

Question 3

Identify the nursing intervention that you should initiate to assist Mr. Miller to breathe more effectively. Give rationale for your answer.

Answer

*Position him in high-Fowler’s with legs horizontal or dangling at bedside*

*Rationale: Pooling of blood in the extremities helps decrease venous return and/or this position allows for better lung expansion*

Reference

Lewis, S., Bucher, L., Heitkemper, M., Harding, M., Barry, M., Lok, J., Tyerman, J., & Goldsworthy, S. (2019). *Medical-Surgical Nursing in Canada,* 4th ed. Toronto: Elsevier, pp. 851–852.

Statistics

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|  | A’17 | A’18 | A’19 | A’20 | A’21 |
| **Difficulty Index** | .65 | .74 |  |  |  |
| **Discrimination Index** | .28 | .29 |  |  |  |

**Field of Nursing:** Medicine & Surgery

**Class Content:** Heart Failure

**Learning Outcome:** Describe therapies in heart failure (pharmacotherapy)

**Professional Component:** Intervention

**Functional Component:** Scientific

**Bloom’s Taxonomy:** Apply

Question 4

Mr. Miller has been on IV furosemide (Lasix) for two days. Identify the most important side effect for which you should monitor him.

Answer

*Hypokalemia*

Reference

Lewis, S., Bucher, L., Heitkemper, M., Harding, M., Barry, M., Lok, J., Tyerman, J., & Goldsworthy, S. (2019). *Medical-Surgical Nursing in Canada,* 4th ed. Toronto: Elsevier, pp. 854.

Statistics

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|  | A’17 | A’18 | A’19 | A’20 | A’21 |
| **Difficulty Index** | .82 | .85 |  |  |  |
| **Discrimination Index** | .24 | .26 |  |  |  |

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| Mr. Miller becomes confused and is pulling his tubes. He has no family member at the beside. You think that he should have wrist restraints to prevent him from harming himself. |

**Field of Nursing:** Medicine & Surgery

**Class Content:** Heart Failure, Legal Issues in Nursing

**Learning Outcome:** Describe legal responsibilities related to the application of physical restraints

**Professional Component:** Intervention

**Functional Component:** Legal

**Bloom’s Taxonomy:** Apply

Question 5

Identify one action you must take before putting Mr. Miller in wrist restraints.

Answer

*Must consult the institution’s policy (on the application of restraints)*

Reference

Potter, P., Perry, A., Stockert, P., & Hall, A. (2019). *Potter and Perry’s Canadian Fundamentals of Nursing,* 6th ed. Toronto: Elsevier, p. 890.

Statistics

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|  | A’17 | A’18 | A’19 | A’20 | A’21 |
| **Difficulty Index** | .51 | .50 |  |  |  |
| **Discrimination Index** | .40 | .39 |  |  |  |

**Field of Nursing:** Medicine & Surgery

**Class Content:** Heart Failure, Legal Issues in Nursing

**Learning Outcome:** Describe legal responsibilities related to the application of physical restraints

**Professional Component:** Continuity of care

**Functional Component:** Legal

**Bloom’s Taxonomy:** Analyze

Question 6

You have restrained Mr. Miller. You have documented the procedure and the condition of his wrists. Identify the additional information that you must document.

Answer

*Clinical manifestations necessitating the need for restraints/client was confused and pulling at his tubes*

Reference

Potter, P., Perry, A., Stockert, P., & Hall, A. (2019). *Potter and Perry’s Canadian Fundamentals of Nursing,* 6th ed. Toronto: Elsevier, p. 890.

Statistics

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|  | A’17 | A’18 | A’19 | A’20 | A’21 |
| **Difficulty Index** | .44 | .48 |  |  |  |
| **Discrimination Index** | .23 | .30 |  |  |  |