**Title of Assignment:**

Module 8: Respiratory pathophysiology

**Purpose of Assignment:**

This assignment will help the student evaluate of a respiratory disorder, which, if untreated, can be a serious condition. Students need to understand respiratory complications and how it can impact ventilation and respiration is important to the study for maintaining homeostasis in the body.

**Course Competency(s):**

* Evaluate pathophysiologic alterations that affect the neurologic and respiratory systems.

**Content:**

J.S. is a 42-year-old man who lives in the Midwest and is highly allergic to dust and pollen and has a history of mild asthma. J.S’s wife drove him to the emergency room when his wheezing was unresponsive to his fluticasone/salmeterol (Advair) inhaler. J.S. was unable to lie down, and began to use accessory muscles to breathe. J.S. is immediately started on 4 L oxygen by nasal cannula and intravenous (IV) D5W at 75 mL/hr. A set of arterial blood gases is sent to the laboratory. J.S. appears anxious and says that he is short of breath.

Vital signs

BP = 152/84 HR = 124 bpm RR = 42 Temp = 100.40F

ABGs

pH = 7.31 PaCO2 = 48 HCO3 = 26 PaO2 = 55

**Instructions:**

Investigate the pathophysiology of asthma and the clinical manifestations of the disease. Analyze the case study provided and determine what symptoms support the diagnosis of asthma. Identify the treatment provided in the emergency department and determine what additional therapies are needed to mitigate the asthma symptoms and return the client to wellness.

1. Do you have any concerns with the numbers above?
2. Identify what may be causing (etiology) J.S. to have an exacerbation of asthma.

Prepare a 3-5 page paper outlining the causes of asthma, the symptoms that the client presents and the management of the disorder. Use at least one scholarly source to support your findings. Examples of scholarly sources include academic journals, textbooks, reference texts, and CINAHL nursing guides. Be sure to cite your sources in-text and on a References page using APA format.

You can find useful reference materials for this assignment in the School of Nursing guide: <https://guides.rasmussen.edu/nursing/referenceebooks>

Have questions about APA? Visit the online APA guide: <https://guides.rasmussen.edu/apa>

**Grading Rubric:**

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| --- | --- | --- | --- | --- |
| **Levels of Achievement** | | | | |
| **Criteria** | **Emerging** | **Competence** | **Proficiency** | **Mastery** |
| **Pathophysiology**  **(15 pts)** | Did not include discussion on the pathophysiology the respiratory disorder.  *Failure to provide the pathophysiology will result in zero points for this criteria.* | Briefly identified the pathophysiology of the respiratory disorder. | Clearly identified the pathophysiology of the respiratory disorder. | Thoroughly identified the pathophysiology of the respiratory disorder. |
| Points: 10 | Points: 13 | Points: 14 | Points: 15 |
| **Etiology**  **(15 pts)** | Did not include discussion on the etiology of the respiratory disorder.  *Failure to provide the etiology will result in zero points for this criteria.* | Briefly discussed included etiology of the respiratory disorder. | Clearly discussed etiology of the respiratory disorder. | Thoroughly discussed etiology of the respiratory disorder. |
| Points: 10 | Points: 13 | Points: 14 | Points: 15 |
| **Clinical Manifestation**  **(10 pts)** | Did not provide examples of the clinical manifestations of the respiratory disorder.  *Failure to provide clinical manifestations will result in zero points for this criteria.* | Briefly provided clinical manifestations of the respiratory disorder. | Clearly provided clinical manifestations of the respiratory disorder. | Thoroughly provided clinical manifestations of the respiratory disorder. |
| Points: 6 | Points: 8 | Points: 9 | Points: 10 |
| **Treatment**  **(5 pts)** | Did not present treatment for the respiratory disorder.  *Failure to provide treatment for hematologic disorder will result in zero points for this criteria.* | Briefly provided treatment options for the respiratory disorder. | Clearly provided treatment options for the respiratory disorder. | Thoroughly provided detailed treatment for the respiratory disorder. |
| Points: 2 | Points: 3 | Points: 4 | Points: 5 |
| **APA, Spelling and Grammar**  **(5 pts)** | Six or more APA, spelling or grammar errors. Detracts from the readability of the submission. | No more than five APA, spelling or grammar errors, minimally detracts from the readability of the submission. | No more than three APA, spelling or grammar errors. Does not detract from the readability of the submission. | No APA, spelling or grammar errors. |
| Points: 2 | Points: 3 | Points: 4 | Points: 5 |
| Points: 30 | Points: 40 | Points: 45 | Points: 50 |