

RESP-1700: ASTHMA MANAGEMENT

Cuyahoga Community College

Viewing: RESP-1700 : Asthma Management

Board of Trustees:

2013-12-05

Academic Term:

2014-08-25

Subject Code

RESP - Respiratory Care

Course Number:

1700

Title:

Asthma Management

Catalog Description:

Introduction to asthma pathology and treatment. Emphasizes web-based education to asthma symptoms, risk factors, severity, pharmacologic treatment, and care plans. Cultural concepts of health and disease.

Credit Hour(s):

1

Lecture Hour(s):

1

Requisites

Prerequisite and Corequisite

None.

Outcomes

Course Outcome(s):

A. Appraise the pathology of asthma as it relates to acute and chronic symptoms, along with the annual, medical costs incurred by this country.

Objective(s):

1. A. Accurately define asthma as is stated in the National Institutes of Health (NIH) and Global Initiative for Asthma (GINA).
2. M. Define airway remodeling associated with chronic airway inflammation.
3. B. Illustrate the financial impact asthma has on the United States' economy.
4. C. Define atopy as it relates to childhood asthma.
5. D. Differentiate between intrinsic and extrinsic asthma, related to its triggers.

Course Outcome(s):

B. Illustrate the proper way in which asthma is diagnosed, and classified.

Objective(s):

1. C. Define atopy as it relates to childhood asthma.
2. D. Differentiate between intrinsic and extrinsic asthma, related to its triggers.
3. E. Select the correct ways in which asthma is properly diagnosed.

Course Outcome(s):

C. Diagram an asthma patient's care plan using their peak flow measurements.

Objective(s):

1. K. Contrast the different care plans associated with a peak flow reading.

2. F. Identify asthma's four classifications given a patient's symptoms and peak flow measurements.
3. G. Demonstrate the correct procedure for peak flow monitoring.

Course Outcome(s):

D. Inventory all possible triggers that an asthma patient may encounter at home and at work.

Objective(s):

1. H. Inventory asthma risk factors in the home, work and external environments.

Course Outcome(s):

E. Select the appropriate medications an asthma patient should have according to their classification.

Objective(s):

1. I. Select the proper medications required for a given asthma classification.

Course Outcome(s):

F. Analyze communication barriers to asthma patients with different cultural backgrounds.

Objective(s):

1. J. Demonstrate the correct use of asthma medication delivery devices.
2. L. Recognize multicultural paradoxes to health and disease.

Methods of Evaluation:

1. Quizzes
2. Discussion forum
3. Examinations
4. Demonstrations

Course Content Outline:

1. Asthma definition
 - a. inflammation
 - b. chronic
2. Asthma statistics
 - a. U.S. population with asthma
 - b. work days lost
 - c. school days lost
 - d. deaths annually
 - e. direct costs
 - f. indirect costs
3. Intrinsic asthma
4. Extrinsic asthma
5. Asthma diagnosed
 - a. pulmonary function
 - b. bronchoprovocation
 - c. symptoms
 - d. triggers
6. Peak flow monitoring
 - a. time of day
 - b. demonstration
 - c. log book
7. Asthma classifications
 - a. mild intermittent
 - b. persistent

- i. mild
 - ii. moderate
 - iii. severe
- c. peak flow reading
- 8. Pharmacology
 - a. control
 - b. quick relief
 - c. drug delivery devices
 - i. demonstration
 - ii. cleaning
- 9. Risk factors
 - a. allergies
 - b. home environment
 - i. humidity
 - ii. bedroom
 - iii. pets
 - c. workplace
 - d. outdoor environment
- 10. Action plans
 - a. peak flow meter
 - b. written plans to follow
- 11. Cross-cultural concepts of health and disease
 - a. Hispanic/Latino
 - b. African American
 - c. American Indian
 - d. Asian American
- 12. Airway remodeling
 - a. chronic restriction
 - b. non-reversible
 - c. physiology

Resources

Garenhire, D. *Rau's Respiratory Care Pharmacology*. 8th ed. St. Louis, MO:Elsevier Mosby, 2012.

Hess, D et.al. *Respiratory Care Principles and Practice*. 2nd ed. Sudbury, MA:Jones and Bartlett Learning, 2012.

Kacmarek, R. et.al. *Egan's Fundamentals of Respiratory Care*. 10th ed. St. Louis, MO:Elsevier Mosby, 2013.

Cairo, J. *Mosby's Respiratory Care Equipment*. 8th ed. St. Louis, MO:Elsevier, 2010.

Resources Other

U.S. Department of Health and Human Service. Expert Panel Report 3: Guidelines for the Diagnosis and Management of Asthma. National Institutes of Health, 28 Aug. 2007. <http://www.nhlbi.nih.gov/guidelines/asthma/asthgdln.pdf>

American Lung Association. Learning More About Asthma. 27 Aug. 2013. <http://www.lung.org/lung-disease/asthma/>

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