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Asthma

Patient name: _____

NRS
DATE INITIAL

- I.** The client/caregiver has a basic understanding of anatomy and physiology of the lung and respiratory systems.
- The lungs are two sac-like organs located in the chest cavity.
 - The main windpipe (trachea) breaks into right and left bronchi and then connects to each lung.
 - The bronchi are further divided into smaller branches called bronchioles.
- II. The client/caregiver can define asthma.**
- It is a chronic respiratory disorder with irritation and constriction of bronchi and bronchioles.
 - Bronchospasms occur with wheezing, shortness of breath, and increased mucus production.
 - Episodes may last a few minutes to hours and may be relieved with medication or spontaneously.
 - Asthma can range from mild to severe. Some have a chronic set of symptoms: coughing and wheezing with intermittent more severe asthma “attacks.”
- III. The client/caregiver can list factors that may precipitate an attack of asthma.**
- Allergens, such as pollens, animal dander, or mold
 - Cockroaches and dust mites
 - Air pollution and irritants
 - Smoke
 - Strong odors or scented products or chemicals
 - Respiratory infections and/or sinusitis
 - Physical exercise
 - Strong emotions and stress
 - Cold air
 - Certain medications
 - Preservatives and chemicals added to perishable foods
 - Gastroesophageal reflux disease (GERD)

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- IV. The client/caregiver can recognize warning signs and symptoms.**
- Wheezing
 - Coughing
 - Shortness of breath
 - Chest tightness or pain
 - Disturbed sleep caused by shortness of breath, coughing, or wheezing
 - Increased need to use bronchodilators
 - Changes in lung function as measured by a peak flow meter
 - Children often present with
 - Audible wheezing or whistling sound when exhaling
 - Frequent coughing spasms
- V. The client/caregiver can list measures to manage asthma.**
- Identify and avoid precipitating factors and warning signs.
 - Take long-term medications that are ordered to control chronic symptoms and prevent attacks.
 - Quick relief medications are ordered for rapid, short-term relief of symptoms.
 - Other medications are ordered to decrease sensitivity to allergens and prevent reaction to the allergens.
 - Be careful to keep extra medication on hand. Keep emergency medication available with you in case of asthma attack.
 - Avoid aspirin and over-the-counter drugs that contain aspirin.
 - Prevent upper-respiratory infections:
 - Avoid exposure to persons with respiratory infections.
 - Avoid crowds and poorly ventilated areas.
 - Obtain immunization against influenza and pneumonia.
 - Report early signs of infection (i.e., increased cough, shortness of breath, fever, and chills).

(Continued)

Part II Diseases

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- H. Eat a well-balanced diet.
- I. Drink 2 to 3 quarts of fluid each day to liquefy secretions.
- J. Use stress-management techniques.
- K. Exercise daily, avoiding overexertion.
Avoid exercise in cold temperatures.
- L. Obtain allergy shots as recommended.
- M. Environmental measures are
 - 1. Use air conditioner.
 - 2. Close windows during pollen season.
 - 3. Use dust-proof covers for bedding.
Avoid carpets. Use washable curtains.
 - 4. Use dehumidifier if needed to maintain optimal humidity. Change water daily.
 - 5. Keep air conditioner and furnace serviced and clean.
 - 6. Reduce pet dander by avoiding pets with fur or feathers.
 - 7. Clean home regularly. Wear a mask if doing the cleaning yourself.
 - 8. Limit use of contact lenses when pollen count is high.
 - 9. Control heartburn and GERD to prevent complications.
 - 10. Monitor pollen counts in newspapers, Internet, or radio/television reports.
 - 11. Avoid smoking or being around smoke.
- N. Keep follow-up appointments with physician and laboratory.
- O. Wear Medic Alert bracelet.
- P. For children, communicate the child's condition and treatment plan with school personnel, coaches, and so forth.

Respiratory Diseases/Disorders

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VI. The client/caregiver can list possible complications.

- A. Status asthmaticus (prolonged symptoms of asthma)
- B. Pneumonia
- C. Respiratory arrest
- D. Emphysema
- E. Bronchitis
- F. Right-sided heart failure

RESOURCES

Support groups

American Lung Association

www.lungusa.org

American Academy of Allergy, Asthma, and Immunology

www.aaaai.org

The following two organizations are part of National Institutes of Health:

National Heart, Lung, and Blood Institute

www.nhlbi.nih.gov

National Institute of Allergy and Infectious Diseases

www.niaid.nih.gov

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