DATE OF LAST REVIEW: 02/2013
CIP CODE: 51.098
SEMESTER: Departmental Syllabus
COURSE TITLE: Asthma Disease Management
COURSE NUMBER: ALHT0286 (for non-respiratory therapy)
             RSCR0286 (for respiratory therapy)
CREDIT HOURS: 3
INSTRUCTOR: Departmental Syllabus
OFFICE LOCATION: Departmental Syllabus
OFFICE HOURS: Departmental Syllabus
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PREREQUISITES: None

REQUIRED TEXT AND MATERIALS:
Please check with the KCKCC bookstore, http://www.kckccbookstore.com/, for the required texts for your particular class.

COURSE DESCRIPTION:
Students become familiar with the disease management of Asthma. The NHLBI National Asthma Education and Prevention Program guidelines are applied.

METHOD OF INSTRUCTION:
A variety of instructional methods may be used depending on content area. These include but are not limited to: lecture, multimedia, cooperative/collaborative learning, labs and demonstrations, projects and presentations, speeches, debates, and panels, conferencing, learning experiences, and performances outside the classroom. Methodology will be selected to best meet student needs.

COURSE OUTLINE:

I. Asthma facts
   A. Prevalence of Asthma
B. Morbidity of Asthma
C. Mortality of Asthma
D. Health care costs for Asthma

II. Initial assessment and diagnosis of asthma
III. Asthma pathophysiology
IV. Pharmacologic therapy: managing asthma long term
V. Control factors contributing to asthma severity
VI. Periodic assessment and monitoring
VII. Education for asthma care
VIII. Managing asthma exacerbations at home
IX. Managing asthma exacerbations in the emergency department
X. Managing asthma exacerbations in the hospital
XI. Asthma community advocacy

EXPECTED LEARNER OUTCOMES:

A. The student will be able to discuss asthma facts.
B. The student will be able to describe asthma pathophysiology.
C. The student will be able to use clinical data to evaluate asthma.
D. The student will be able to assess asthma severity.
E. The student will be able to implement asthma care plans.

COURSE COMPETENCIES:

The student will be able to discuss asthma facts.
1. The student will be able to state the incidence of asthma.
2. The student will be able to state the mortality rate of asthma.
3. The student will be able to state the health care costs of asthma.
4. The student will be able to state the effects of asthma on the client’s family.
5. The student will be able to list asthma risk factors.
6. The student will be able to state the prevalence of asthma in pediatrics.
7. The student will be able to state the pediatric asthma mortality rate.

The student will be able to describe asthma pathophysiology.
8. The student will be able to state the effect of asthma on airway tissue.
9. The student will be able to state the effect of asthma on oxygenation.
10. The student will be able to state the effect of asthma on ventilation.
11. The student will be able to describe airway remodeling.
12. The student will be able to define early phase asthma exacerbation.
13. The student will be able to define late phase asthma exacerbation.
14. The student will be able to list causes of intrinsic asthma.
15. The student will be able to list causes of extrinsic asthma.

The student will be able to use clinical data to evaluate asthma.
16. The student will be able to identify a flow volume loop of an asthmatic.
17. The student will be able to identify a volume vs. time graph of an asthmatic.
18. The student will be able to evaluate peak flow results.
19. The student will be able to evaluate FEV₁ results.
20. The student will be able to evaluate FVC results.

*The student will be able to assess asthma severity.*

21. The student will be able to calculate a client’s red zone.
22. The student will be able to calculate a client’s yellow zone.
23. The student will be able to calculate a client’s green zone.
24. The student will be able to classify asthma severity.

*The student will be able to implement asthma care plans.*

25. The student will be able to list methods to avoid asthma triggers.
26. The student will be able to state the drug therapy guidelines for early phase exacerbation of asthma.
27. The student will be able to state the drug therapy guidelines for late phase exacerbation of asthma.
28. The student will be able to describe pharmacological airway protection.
29. The student will be able to describe pharmacological anti-inflammatory of the airways.
30. The student will be able to state the drug therapy guidelines for intrinsic asthma.
31. The student will be able to state the drug therapy guidelines for extrinsic asthma.
32. The student will be able to follow directions of a treatment algorithm for mild intermittent asthma.
33. The student will be able to follow directions of a treatment algorithm for mild persistent asthma.
34. The student will be able to follow directions of a treatment algorithm for moderate persistent asthma.
35. The student will be able to follow directions of a treatment algorithm for severe persistent asthma.
36. The student will be able to state the red zone protocol.
37. The student will be able to state the yellow zone protocol.
38. The student will be able to state the green zone protocol.
39. The student will be able to select a client specific care protocol for the emergency department.
40. The student will be able to select a client specific care protocol for the hospital.
41. The student will be able to select a client specific care protocol for home care.
42. The student will be able to state criteria for referring the client to an allergist or pulmonologist.
43. The student will be able to state four instructional methods.
44. The student will be able to assess the home environment for asthma triggers.
45. The student will be able to state three methods to control animal dander.
46. The student will be able to state three methods to control roaches.
47. The student will be able to state three methods to control smoke.
48. The student will be able to state three methods to control molds.
49. The student will be able to state two methods to control grass trigger.
50. The student will be able to state two methods to control pollen trigger.
51. The student will be able to state two methods to control outdoor air pollution trigger.
52. The student will be able to state two methods to control time of day trigger.
53. The student will be able to state two methods to control temperature trigger.
54. The student will be able to state two methods to control activity trigger.
55. The student will be able to state two methods to control infectious trigger.
56. The student will be able to state two methods of asthma advocacy in the community.

ASSESSMENT OF LEARNER OUTCOMES:
Student progress is evaluated by means that include, but are not limited to, exams, written assignments, and class participation.

SPECIAL NOTES:
This syllabus is subject to change at the discretion of the instructor. Material included is intended to provide an outline of the course and rules that the instructor will adhere to in evaluating the student’s progress. However, this syllabus is not intended to be a legal contract. Questions regarding the syllabus are welcome any time.

Kansas City Kansas Community College is committed to an appreciation of diversity with respect for the differences among the diverse groups comprising our students, faculty, and staff that is free of bigotry and discrimination. Kansas City Kansas Community College is committed to providing a multicultural education and environment that reflects and respects diversity and that seeks to increase understanding.

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