Course Description:

This course is designed to develop an understanding of respiratory home care/rehabilitation equipment, procedures and patient care with an emphasis on the use of special technology and equipment in the treatment of patients in home care and alternate care settings.

Text, References and Supplies:


Student Learning Outcomes:

Upon successful completion of the course the student will:

1. Define pulmonary rehabilitation
2. Explain benefits and limitations of pulmonary rehabilitation
3. Outline the historical perspectives of pulmonary rehabilitation
4. Identify criteria that should be evaluated in selecting a patient for pulmonary rehabilitation
5. Describe the key points of learning strategies
6. Explain educational content of pulmonary rehabilitation programs
7. Explain pharmacology employed in the treatment of pulmonary rehabilitation patients
8. Review the results of NOTT
9. Describe the indications for HOT
10. Describe well designed exercise training programs (strengths vs. endurance)
11. Explain advantages/disadvantages of a bicycle ergometer and a treadmill for graded exercise testing
12. Explain the 6 minute walk test, equipment and procedure
13. Explain the significance of screening for nutritional status
14. Outline the importance of balanced carbohydrate/fat/protein for nutrition
15. List the neurochemical effects of nicotine.
16. Compare the pros and cons of the four (4) different classes of medications used to treat tobacco dependency
17. Briefly describe the plan for smoking cessation
18. Explain sexuality as it relates to the pulmonary rehabilitation of the patient
19. Describe the problem of patient adherence
20. Explain the recommended protocol of the Time Walk Test
21. Describe different modes of HMV, including both invasive and noninvasive modes
22. Differentiate between bullectomy and lung volume reduction surgery (LVRS)
23. Explain the role of advanced care planning to assist patients in making their end-of-life decisions.
24. Explain means of supporting patient’s end-of-life needs beyond advanced directives
25. List steps/considerations in organizing a Better Breather’s Club
26. Outline social activities/events which may be of benefit for the pulmonary rehabilitation patient.
27. Describe stages of sleep.
28. Describe some of the diagnostic and therapeutic considerations for sleep disorders
29. List the benefits of home care
30. List commonly used home care equipment for pulmonary rehabilitation patients
31. List common types of home medical equipment (HME)
32. Explain considerations for traveling with supplemental oxygen
33. Describe sources of Health Care Financing
34. Explain mechanical ventilation used in home care/rehabilitation
35. Describe pediatric pulmonary rehabilitation
36. Relate characteristics/differences in pulmonary rehabilitation programs of different countries

Student Contributions, Responsibilities and Class Policies:

Each student will spend at least 4 hours per week preparing for class. Attendance is critical in this class. All classroom performance and behavior will be considered academic.

Evaluation of Students:

A minimum of (4) four tests will be given including a comprehensive final (unless otherwise designated by the instructor). The final exam will carry the same weight as other exams. Weekly quizzes will be averaged and will equal one exam. Test questions will come from lecture, reading assignments and homework assignments. Most if not all test questions will be objective in nature.

1. Tests. Weekly worksheets. 90%
2. Attendance, participation and attitude 10%

Total 100%

Course Schedule:

The class meets for 1 lecture hour twice weekly for (6) six weeks.

Americans with Disabilities Act (ADA):

Any student who, because of a disabling condition, may require some special arrangements in order to meet course requirements should contact the Shep Grinnan as soon as possible. Mr. Grinnan’s office is located in the Scharbauer Student Center Building. These conditions may include documented physical or educational disabilities. Please be aware that services or accommodations are not automatic. Each student must request them and secure the proper authorizations/documentation.

Division Information: Health Sciences

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Last Updated: 12/29/2016