**Live Better…. Breathe Better**

***Maximizing the role of Therapy in the management of persons with COPD***

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**Harnett County 2012 (<http://www.schs.state.nc.us/SCHS/data/databook/>)**

**Cases COPD: 407**

**Total Cost of Care: $8,680,310**

**LOS: 4.6 days**

**Cost Per Day $4,684**

**Cost Per Case: $21,328**

**WHAT DO WE KNOW???**

**What is the biggest complaint of a person with COPD?**

**In which Age Group does COPD show up as one of the top three causes of mortality in Harnett County?**

**Current Standard of Treatment/CASE STUDY- Repeat at end of inservice**

Patient is a 50 year-old male, works as accountant. Presents with diagnosis of COPD exacerbation in the acute care hospital. Independent with mobility normally, however, over past two weeks, SOB worsened and has not been walking much, came in because he was increasing SOB and was not able to get around his home. Only other co-morbidity is obesity and smoking. You receive orders in acute care ‘PT eval/treat”. What will you do your first visit, what will be the focus?

NOTES:

**Recommended Functional Outcome Measures for COPD:**

**6 Minute Walk Test (6MWT)**

Can be found on REHAB MEASURES:

<http://www.rehabmeasures.org/Lists/RehabMeasures/DispForm.aspx?ID=895>

(endurance, functional activity performance, cardiorespiratory support)

**Five Time Sit to Stand Test (FTSST)**

Can be found on REHAB MEASURES:

<http://www.rehabmeasures.org/Lists/RehabMeasures/DispForm.aspx?ID=1015>

( strength, balance, functional activity performance)

**Chronic Respiratory Disease Questionnaire**

Can be found at REHAB MEASURES:

<http://www.rehabmeasures.org/Lists/RehabMeasures/PrintView.aspx?ID=1018>

(quality of life assessment)

RESOURCES:

1. Breunig IM, Shaya FT, Scharf SM. Delivering cost-effective care for COPD in the USA: Recent progress and current challenges. *Expert Rev Pharmacoecon Outcomes Res*. 2012;12(6):725-731. doi: 10.1586/erp.12.69; 10.1586/erp.12.69.

2. Fromer L, Cooper CB. A review of the GOLD guidelines for the diagnosis and treatment of patients with COPD. *Int J Clin Pract*. 2008;62(8):1219-1236.

3. Geddes EL, Reid WD, Crowe J, O'Brien K, Brooks D. Inspiratory muscle training in adults with chronic obstructive pulmonary disease: A systematic review. *Respir Med*. 2005;99(11):1440-1458. doi: 10.1016/j.rmed.2005.03.006.

4. Scherer TA, Spengler CM, Owassapian D, Imhof E, Boutellier U. Respiratory muscle endurance training in chronic obstructive pulmonary disease: Impact on exercise capacity, dyspnea, and quality of life. *Am J Respir Crit Care Med*. 2000;162(5):1709-1714. doi: 10.1164/ajrccm.162.5.9912026.

5. Zanotti E, Berardinelli P, Bizzarri C, et al. Osteopathic manipulative treatment effectiveness in severe chronic obstructive pulmonary disease: A pilot study. *Complement Ther Med*. 2012;20(1-2):16-22. doi: 10.1016/j.ctim.2011.10.008; 10.1016/j.ctim.2011.10.008.

6. Engel R, Vemulpad S. The role of spinal manipulation, soft-tissue therapy, and exercise in chronic obstructive pulmonary disease: A review of the literature and proposal of an anatomical explanation. *J Altern Complement Med*. 2011;17(9):797-801. doi: 10.1089/acm.2010.0517; 10.1089/acm.2010.0517.

7. Putt MT, Watson M, Seale H, Paratz JD. Muscle stretching technique increases vital capacity and range of motion in patients with chronic obstructive pulmonary disease. *Arch Phys Med Rehabil*. 2008;89(6):1103-1107. doi: 10.1016/j.apmr.2007.11.033; 10.1016/j.apmr.2007.11.033.

8. Malaguti C, Rondelli RR, de Souza LM, Domingues M, Dal Corso S. Reliability of chest wall mobility and its correlation with pulmonary function in patients with chronic obstructive pulmonary disease. *Respir Care*. 2009;54(12):1703-1711.

9. Leelarungrayub D, Pothongsunun P, Yankai A, Pratanaphon S. Acute clinical benefits of chest wall-stretching exercise on expired tidal volume, dyspnea and chest expansion in a patient with chronic obstructive pulmonary disease: A single case study. *J Bodyw Mov Ther*. 2009;13(4):338-343. doi: 10.1016/j.jbmt.2008.11.004; 10.1016/j.jbmt.2008.11.004.

10. Heneghan NR, Adab P, Balanos GM, Jordan RE. Manual therapy for chronic obstructive airways disease: A systematic review of current evidence. *Man Ther*. 2012;17(6):507-518. doi: 10.1016/j.math.2012.05.004; 10.1016/j.math.2012.05.004.