

Introduction

Developments in the field of respiratory care are reported in several journals. Students may formulate research questions using the acronym PICO--Patient, Intervention, Control Group, Outcome. +

For example, De Pew (2013) in "Correlations Between Gait Speed, 6-Minute Walk Distance, Physical Activity, and Self-Efficacy in Patients With Severe Chronic Lung Disease" in *Respiratory Care* looks at walking, physical stamina, and self efficacy among patients with chronic lung disorders as a way to evaluate their prognosis regarding respiratory health.

The PICO framework

P Patients who have chronic lung disease

I Measure physical activity (walking) and reports of walking efficacy by study subjects

C Use American Thoracic Society standards to categorize physical activity level among study's subjects

O Assess the relationship between gait speed and 6MWD and determine if 4 meter gait speed is a substitute for 6 minute walking distance

De Pew's full text article is downloadable [Correlations Between Gait Speed, 6-Minute Walk Distance, Physical Activity, and Self-Efficacy in Patients With Severe Chronic Lung Disease](#)

The PICO framework is discussed in more details by Schardt (2007) +, who states that , formulating research questions using PICO is an element of evidence based practice. The elements of the PICO framework are "Patient problem, Intervention, Comparison, and Outcome."

+ Schardt C, Adams MB, Owens T, Keitz S, & Fontelo P. (2007). Utilization of the PICO framework to improve searching PubMed for clinical questions. *BMC Medical Informatics and Decision Making*. 7, 16.

Respiratory Care Research

Task

Find the text of a clinical guideline issued by the American Association of Respiratory Care AARC in the association's publication, *Respiratory Care* or do some research on a topic such as drug therapies for COPD.

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Process

1. Research assignment - practice exercise 1

A. The **full text** of American Association for Respiratory Care AARC *practice guidelines* are published in

[*Respiratory Care*](#) and on the [AARC website](#).

B. Find *practice guidelines* listed below:

i. Pulmonary Function Testing

American Association for Respiratory Care. (1996). AARC clinical practice guideline:

Spirometry, 1996 update. *Respiratory Care*, 41 (7), 629-636.

ii. Bronchoscopy Assisting

American Association for Respiratory Care. (2007). AARC clinical practice guideline:

Fiberoptic bronchoscopy assisting. *Respiratory Care*. 52, 74-80.

2. Research assignment - practice exercise 2

A. Go to *CINAHL with Full Text* listed under Health in the [Subject List of Databases](#)

B. Use CINAHL Headings to find the heading for COPD

C. Mark the check box to explode the term

D. Select among the subheadings - Drug Therapy and Therapy

E. Click search

F. Refine your search in Advanced by entering the term
"retinoids"

3. Search respiratory care journals below with specific terms that describe a lung disorder or therapy. Some terms that could be used include Dyspnea, CPED (cardiopulmonary exercise testing), IPF (idiopathic pulmonary fibrosis), and PEEP

Respiratory Care Research

<u>AARCTimes</u>	0893-8520	no
<u>American Journal of Respiratory and Critical Care Medicine</u>	1073-449X	yes
<u>Chest: Official Publication of the American College of Chest Physicians</u>	0012-3692	yes
<u>RT: The Journal for Respiratory Care Practitioners</u>	1040-6050	No
<u>Respiratory Care</u>	0020-1324	y

Respiratory Care Research

Evaluation

1. Which of these journals report research in the field of respiratory therapy?

A. *Chest*

B. *Respiratory Therapy*

C. *American Journal of Respiratory and Critical Care Medicine*

D. Those listed in A, B & C

E. Those listed in B & C

2. Which journal publishes practice guidelines recommended by American Association of Respiratory Care?

A. *Chest*

B. *Respiratory Therapy*

C. *American Journal of Respiratory and Critical Care Medicine*

3. How do you know if research findings reported in one of these journals are valid?

A. The research paper discusses the methodology and procedures that led to the findings reported

B. The authors who completed the research were required to submit the paper for review by the journal's experts

C. Responses from readers following publication of the research are published in subsequent issues of the journal

D. All of the above

E. Only A and B above

Respiratory Care Research

Conclusion

Tips

Use several links to the library

Library Homepage <http://www.rockvalleycollege.edu/Library>

Library Databases <http://www.rockvalleycollege.edu/Library/databases-by-subject.cfm>

Library Journals <http://www.rockvalleycollege.edu/Library/journals.cfm>