

Subject:	RC
Course Number:	BSRC 375
Descriptive Title:	Evidenced-Based Medicine in Respiratory Care
Division:	Health Sciences and Athletics
Department:	Respiratory Care
Course Disciplines:	Respiratory Technologies
	This course addresses the practice of Evidence-Based Medicine (EBM) in respiratory care. EBM is used so that respiratory care practitioners can make "conscientious, explicit, and judicious use of current best evidence" in their everyday practice. The student will use the process of evidence synthesis which is using systematic reviews of the medical literature to evaluate the best evidence on specific respiratory care issues. Then, using the concept of knowledge translation, develop clinical practice procedures from the selected treatment options for specific respiratory care cases based on the best research, patient preferences and individual patient characteristics.
Prerequisite:	<ul> <li>Admission to El Camino College Respiratory BS Program</li> <li>Eligibility for RCP license in California:</li> <li>1. Graduation from a CoARC accredited Respiratory Care Program</li> <li>2. A.S. degree from an accredited Community College</li> <li>3. Completion of the 39 required CSU-GE Transfer Pattern units (IGETC)</li> </ul>
Co-requisite:	
Recommended Preparation:	
<b>Enrollment Limitation:</b>	
Hours Lecture (per week):	3
Hours Laboratory (per week):	0
Outside Study Hours:	6
Total Course Hours:	54
Course Units:	3
Grading Method:	Letter Grade only
Credit Status:	Credit, degree applicable
Transfer CSU:	
Effective Date:	
Transfer UC:	
Effective Date:	

General Education ECC:	
Term:	
Other:	
CSU GE:	
Term:	
Other:	
IGETC:	
Term:	
Other:	
Student Learning Outcomes:	SLO #1 Ventilator Issues Demonstrate organizational and developmental skills when designing the final assignment dealing with ventilator associated issues associated with respiratory care services .
	SLO #2 Research Skills
	Integrate the broad range of research skills learned across the curriculum to formulate a plan to develop, and deliver high quality, ventilator associated respiratory care services.
	SLO #3 EBM Data Analysis
	Completion of the final assignment using the methodological approach, collection, measurement, and evidence-based medical data analysis.
Course Objectives:	<ol> <li>Examine the basic concepts of Evidence-Based Medicine.</li> <li>Analyze the usage of Evidence-Based Medicine in Respiratory Care.</li> <li>Develop skills needed in usage of Evidence-Based Medicine.</li> <li>Select medical therapies in various situations using Evidence-Based Medicine.</li> </ol>
Major Topics:	I. Evidence-Based Medicine in Respiratory Care (8 hours, lecture) A. History B. Concepts
	<ol> <li>Background questions in chronic and acute pulmonary conditions</li> <li>Foreground questions in chronic and acute pulmonary conditions</li> <li>Basic EBM skills adapted to pulmonary issues</li> </ol>
	<ul> <li>II. Research in Evidence-Based Medicine in Respiratory (10 hours, lecture)</li> <li>A. Procedures <ol> <li>Ask</li> <li>Acquire</li> <li>Appraise</li> <li>Apply</li> <li>Assess</li> </ol> </li> <li>B. Reporting <ol> <li>Assessing research results when dealing with pulmonary conditions</li> </ol> </li> </ul>
	<ol> <li>Disseminating results when dealing with pulmonary conditions</li> <li>III. Technical Skills in usage of Evidence-Based Medicine (18 hours, lecture)</li> <li>A. Organizational</li> </ol>

1. Reviewing respiratory departments         A. Policies         B. Programs         C. Procedures         B. Developmental         1. Using EBM tool kit in pulmonary setting         V. Practical Application of Evidence-Based Medicine (18 hours, lecture)         A. Problem solving with respiratory care issues         Total Laboratory         Primary Method of         1.) Substantial writing assignments         Evaluation:         Fevaluation:         Research on the use of aerosolized antibiotics and develop a delivery plan for patients         Using Primary Method of Evaluation:         Critical Thinking         Research on the use of aerosolized antibiotics and develop a delivery plan for patients         Using Primary Method of Evaluation:         evidence found in your research.         Critical Thinking         Research use of Dual Ventilation on mechanical ventilation patients and submit a written Assignment 1: report including analysis of your departmental plan and any modification with justification to that plan.         Critical Thinking         Kasing ment 2:         analysis of your departmental plan and any modification to that plan.         Other Evaluation         Reading Reports, Term or Other Papers, Written Homework         Methods:       Discussion, Lecture, Multimedia presentations		
B. Programs         C. Procedures         B. Developmental         1. Using EBM tool kit in pulmonary setting         IV. Practical Application of Evidence-Based Medicine (18 hours, lecture)         A. Problem solving with respiratory care issues         Total Lecture Hours:         54         Primary Method of         1) Substantial writing assignments         Evaluation:         Typical Assignment         Research on the use of aerosolized antibiotics and develop a delivery plan for patients         Using Primary Method of         1) Substantial writing assignments         Evaluation:         Critical Thinking         Research on the use of aerosolized antibiotics and develop a delivery plan for patients         using Primary Method of         0         Critical Thinking         Research use of Dual Ventilation on mechanical ventilation patients and submit a written         Assignment 1:         report including analysis of your departmental plan and any modification with justification to that plan.         Critical Thinking         Examine the practice of intubation of 24-week newborns and write a report including         Assignment 2:         analysis of your departmental plan and any modification to that plan.         Other Evaluation:		
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	If Other:	
	Up-To-Date	Heather R. Hall. Evidence-Based Practice: An Integrative Approach to research,
Representative Administration, and Practice. 3 <sup>rd</sup> ed. Jones & Bartlett Learning, 2020	-	
Textbooks:	Textbooks:	
Michael Glass. Pulmonary Medicine: An Evidence Based Approach. American Medical		
Publishers, 2022		Publishers, 2022
Alternative Textbooks:	Alternative Textbooks:	
Required	•	
Supplementary		
Readings:	•	
Other Required	•	
Materials:		
Requisite	-	
Category	Category	
Requisite course:	Requisite course:	
Requisite and Matching skill(s): Bold	<b>Requisite and</b>	

the requisite skill. List the corresponding course objective under each skill(s).	
Requisite Skill:	Admission to El Camino College Respiratory Care BS Program Eligibility for RCP license in California Graduation from a CoARC accredited Respiratory Care Program AS Degree from an accredited community college
-	<ul> <li>To receive a Baccalaureate of Science degree in Respiratory Care, students are required to meet the minimum eligibility requirements for Respiratory Care license in California. These are:</li> <li>1. 39 units of CSU-GE transferable units from an accredited community college.</li> <li>2. 40 units are credited to the A.S. Respiratory Care degree courses.</li> </ul>
Requisite course:	
Requisite and Matching skill(s): Bold the requisite skill. List the corresponding course objective under each skill(s).	
Requisite Skill:	
Requisite Skill and Matching skill(s): Bold the requisite skill. List the corresponding course objective under each skill(s). if applicable	
Enrollment Limitations and Category:	
Enrollment Limitations Impact:	
Course Created by:	Roy Mekaru
Date:	11/7/2022
Original Board Approval Date:	01/17/2023