

1. Assessment Plan - Four Column



PIE - Technology & Health: Respiratory Therapy Unit

Narrative Reporting Year

2017-18

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External Conditions, Trends, or Impacts: • Required outcome measures include performance on licensing and other credentialing examinations administered by the testing agency National Board for Respiratory Care.

- Other external factors that are mandated by CoARC include entry-level examinations and advanced practitioner level examinations that assess the graduates knowledge of the standardized curriculum.
- Co-ARC mandates graduate and employer surveys must be performed within the first year following graduation.
- Board exam results and survey results require plans of action to correct any apparent deficits in knowledge or performance.
- Technology and equipment upgrades continue at a rapid pace.
- CoARC standard 2.02 Institutional and Personnel Resources requires that the institution must ensure that the program has a sufficient number of faculty members, clinical preceptors, administrative and technical support staff to achieve the program's goals (see attached CoARC Standards). With students at 14 different clinical sites it is difficult to provide adequate faculty coverage in the clinical setting. With 18 students in each lab it is difficult to provide adequate faculty support in lab.
- Advisory Committee members have indicated how much they value faculty presence at clinic sites and would like to see even greater participation from faculty.
- Increasing expectations from hospital clinic sites to cover areas in classroom, before clinic that have been traditionally part of the clinic experience.

High number of Respiratory Therapy Programs are in the area making access to clinic sites more competitive Co-ARC standard 5.16 mandates that students have timely access to faculty for assistance and counseling regarding their academic concerns and problems.

- Co-ARC annual report and meeting CO-ARC standards and thresholds

The state of California has made the RRT credential the minimum standard for obtaining a license in the State of California

Internal Conditions, Trends, or Impacts : Students - An increasing number of students attempt to work full time while in the program and have difficulties with time requirements and academic rigor of the program. Students need counseling both personal and academic. Students need counseling on how to apply for financial aid and scholarships.

Technology Upgrades - To stay current with new, state-of-the-art technology used at the program's clinic sites, we will need to secure funding for upgrades. Specific equipment upgrades have been listed under technology upgrades. Funding needs to be secured for these upgrades. Mechanical ventilators are costly, with pricing approximately \$30,000.00 to \$40,000.00 per unit.

Faculty - The program has secured a new clinic site, bringing the total number of clinic sites to fourteen. It is critical to maintain adequate instructor coverage through full time and adjunct instructors at all sites to keep these clinic sites.

Facilities - The program's laboratory only has compressed oxygen outlets. Mechanical ventilators require both a compressed air and oxygen outlet to operate correctly and

safely. The faculty have been modifying the connections for the air outlets which is not safe and against manufacturer's recommendations. Since the set up is incorrect, it is also teaching students incorrectly.

Facilities - The program's laboratory needs new tables. Tables that rise up and down for both sitting and standing would be optimal. The ability to raise the table for students to work with manikins and other equipment at waist height would better simulate the hospital environment.

Critical Decisions Made by Unit: Implementing student tutors and increased use of professional experts for 17-18, we do not have funding for 18-19

Notable Achievements for Theme A: To Advance Academic Excellence and Student Achievement: 2015, 2016, 2017 and 2018 - Program awarded Distinguished RRT, (Registered Respiratory Therapist) Credentialing Success Award from CoARC, (Commission on Accreditation for Respiratory Care).

2016 and 2017 - Annual Reports submitted to CoARC with 100% compliance of nationally established accreditation standards

2016, 2017, and 2018 - Student participation in CSRC, (California Society for Respiratory Care), Sputum Bowl Competition.

2016, 2017 and 2018 - Director of Clinical Education, Jim Hutchinson started an education outreach, providing in-services to to clinical affiliates. Jim has been asked to speak at two CSRC conferences.

2017 - 3 students received scholarships from the CSRC, and 1 from a private organization.

2016 - Students and faculty participated in eight community outreach events

2017 - Students participated in the American Lung Association Walk and Stair Climb, raising over \$1000.00 for the ALA. The program received and award for the highest dollar amount of donations raised by a Respiratory Therapy program.

2017 - Students and faculty participated in six community outreach events

2018 - To date students and faculty have participated in six community outreach events including the Health Science High School student event here on campus. Other events have been in the local community.

Notable Achievements for Theme B: To Support Student Access and Success: 2016, 2017, and 2018 - Program awarded Distinguished RRT, (Registered Respiratory Therapist) Credentialing Success Award from CoARC, (Commission on Accreditation for Respiratory Care)

Notable Achievements for Theme D: To Foster an Atmosphere of Cooperation and Collaboration: Professor James Hutchinson provides in-service activities to our industry partners, clinic sites. This is had improved relationships and fosters collaboration,

Contributors to the Report: Mary-Rose Wiesner Department Chair, Respiratory

<i>Unit Goals</i>	<i>Resources Needed</i>	<i>Where We Make an Impact: Closing the Loop on Goals and Plans</i>
<p>Improve Classroom and Laboratory space - Improvements were made this year with removal of counters for additional space in the lab, shelves added to closet in 134. Summer 2017, we secured an additional room for storage of supplies and mechanical ventilators.</p> <p>New goal for 2017-2018 to improve laboratory space. We would like to obtain new tables for the laboratory</p>	<p>Full Funding Requested - 8 adjustable height tables</p> <p>Describe Plans & Activities Supported: Secure tables for the laboratory space that can be height adjusted. Raising the lab tables to waist height wil lsimulate the height of a bed in the hospital setting. Most procedrued performed by the Respiratory Therapist are done while standing.</p> <p>Lead: Mary-Rose Wiesner</p>	<p>Reporting Year: 2017-18</p> <p>% Completed: 0</p> <p>Progress made on storage issue in Respiratory Therapy lab with removal of counters, shelves added to closet in room 134 and additional storage room 118 secured for department in 2016-2017.</p> <p>New goal for 2017-2018 to improve laboratory space. We would like to obtain new tables for the laboratory space. Tables that rise which will allow students to both sit and stand. Raising the tables to waist height will simulate the height of a bed in a hospital setting . This will allow students</p>

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<p>space. Tables that rise which will allow students to both sit and stand. Raising the tables to waist height will simulate the height of a bed in a hospital setting . This will allow students to practice procedures in a more realistic manner.</p> <p>Status: Active</p> <p>Goal Year(s): 2016-17, 2017-18, 2018-19</p> <p>Date Goal Entered (Optional): 07/01/2017</p>	<p>One-Time Funding Requested (if applicable): 4000</p> <p>Type of Request: Instructional Equipment</p> <p>Planning Unit Priority: High</p> <p>What would success look like and how would you measure it?:</p> <p>Improved student engagement and increase in practice of skills using adjustable height tables. Current tables are over 15 years old and do not rise/</p>	<p>to practice procedures in a more realistic manner. (03/08/2018)</p>
<p>Technology Upgrades - Technology upgrades are needed on a continual basis to keep equipment in our lab current and up to date with equipment in the hospital. Specific technology upgrades include the following;</p> <p>Mechanical ventilators - 2 were obtained in 2017 from Perkins funding. 1will be obtained from 2018-19 Perkins funding. 3 ventilators are still needed. For optimal practice a maximum of four students should be using one ventilator at a time. The program's hospital clinic sites currently use six different types of mechanical ventilators</p> <p>High flow oxygen supply devices such as Vapotherm high flow unit. Unit was obtained from Perkins funding early 2017</p> <p>Specific technology upgrades that needed:</p> <p>Hamilton Mechanical Ventilator Drager Mechanical Ventilator GE Mechanical Ventilator High frequency chest wall oscillator -</p>	<p>Full Funding Requested - 3 acute care mechanical ventilators Smart Vest Unit Meta Neb Unit ALS Trainer Full Body Manikin Professional Development Funding</p> <p>Describe Plans & Activities Supported: Funding is needed for the following equipment upgrades to maintain the Respiratory Therapy state -of -the art and current. Three adult intensive care mechanical ventilators, different brands are required. Smart Vest Meta Neb Unit ALS Trainer Full Body Manikin Professional Development Funding to train faculty on new equipment</p> <p>Lead: Mary-Rose Wiesner</p> <p>One-Time Funding Requested (if applicable): 150000</p> <p>Type of Request: Instructional Equipment, Instructional Supplies</p> <p>Planning Unit Priority: High</p> <p>What would success look like and</p>	<p>Reporting Year: 2017-18</p> <p>% Completed: 0</p> <p>2 mechanical ventilators will be purchased 2017 with Perkins funding from 16-17 fiscal year.</p> <p>2 additional mechanical ventilators are needed</p> <p>Other technology updates needed include;</p> <p>Smart Vest Unit Meta Neb Unit ALS Trainer Full Body Manikin Professional Development Funding for training on technology upgrades</p> <p>(07/10/2017)</p>

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<p>Smart Vest. Bronchial hygiene unit - MetaNeb system.</p> <p>Oxygen concentrator - Unit still needed</p> <p>Full body ALS trainer manikin - New 2017-2018</p> <p>Professional Development - Staff needs PD funds to attend conferences to keep knowledge up-to-date with technology. Status: Active Goal Year(s): 2016-17, 2017-18, 2018-19 Date Goal Entered (Optional): 09/01/2016</p>	<p>how would you measure it?: Improved student engagement and increased practice in skills required for clinical practice</p> <p>Provide students practice with current generation, up-to-date equipment that they will see in clinical practice.</p> <p>Increase student employability Documentation Attached?: Yes Related Documents: Meta Neb 2.pdf Meta NEB 1.pdf</p>	
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<p>Laboratory Safety - The Respiratory Therapy Lab currently only has compressed oxygen outlets. Compressed air and oxygen outlets are needed to correctly and safely use many types of equipment, most importantly mechanical ventilators. Most recently faculty determined that some of the oxygen outlets may be able to be converted to compressed air outlets. The outlets were installed this spring, 2018. Status: Inactive Goal Year(s): 2016-17, 2017-18 Date Goal Entered (Optional): 09/01/2016</p>	<p>Report directly on Goal</p> <hr/> <p>Full Funding Requested - RESD: Provide compressed air fittings to 67A- Room 138, Respiratory Therapy Laboratory</p> <p>One-Time Funding Requested (if applicable): 20000 Planning Unit Priority: High</p>	<p>Reporting Year: 2017-18 % Completed: 100 Five compressed oxygen outlets to compressed air outlets. Students now have a realistic picture of how compressed gas outlets are in the hospital setting. This also allows to use the equipment according to the manufacturer guidelines and standards. (03/08/2018)</p> <hr/> <p>Reporting Year: 2016-17 % Completed: 0 No progress has been made on this to date (07/10/2017)</p>
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<p>Clinical and Laboratory Instruction - Clinical Instruction - Clinic sites have increased from 12 to 14. With</p>	<p>Full Funding Requested - Continued funding for adjunct faculty and</p>	<p>Reporting Year: 2017-18 % Completed: 100</p>
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<p>students at fourteen different clinic sites it is difficult to provide adequate faculty coverage in the clinical setting. There is a need to maintain adjunct faculty to provide adequate clinical teaching.</p> <p>Laboratory Instruction - In the laboratory, there is a need to maintain funding for professional experts for provide adequate laboratory teaching and ensure the laboratory is a safe environment. We have has professional expert funding through Title V in the past, but no longer have any funding for the 2018-2019 school year. Professional experts have allowed us to let students practice and gain mastery in skills during open lab sessions. Open lab sessions are offered at off hours, weekends, and evenings. This has been especially helpful for the working student and for single parents.</p> <p>Status: Active Goal Year(s): 2016-17, 2017-18, 2018-19 Date Goal Entered (Optional): 09/01/2016</p>	<p>professional experts</p> <p>Funding for professional experts is 6000.00 per year.</p> <p>Describe Plans & Activities Supported: Adjunct faculty are currently adequate, and we want to maintain.</p> <p>Professional experts have been funded through Title V</p> <p>Lead: Mary-Rose Wiesner</p> <p>One-Time Funding Requested (if applicable): 6000</p> <p>On-Going Funding Requested (if applicable): 6000</p> <p>Type of Request: Staffing</p> <p>Planning Unit Priority: High</p> <p>Partial Funding Requested - Career Specialist for Health and Technology Division</p> <p>Describe Plans & Activities Supported: Specialist to assist with work experience placements , employer panels, career fairs, and assist students with interviewing skills and resume writing</p> <p>One-Time Funding Requested (if applicable): 55000</p> <p>Type of Request: Staffing</p> <p>Planning Unit Priority: Medium</p> <p>What would success look like and how would you measure it?: Part-Time Career Specialist would be hired for the Health and Technology Division</p> <p>Documentation Attached?: No</p>	<p>Professional Experts have been funded through Title V up to July 1, 2018.</p> <p>Funding for Professional Experts is needed for the 18-19 school year. Funding will be sought through the Strong Workforce Initiative. Currently there is no funding for the 18-19 school year for Professional Experts. Approximately \$6000.00 for the yr is needed.</p> <p>Adjunct faculty at acceptable level (03/08/2018)</p>