2023 Report on Accreditation in Respiratory Care Education

Commission on Accreditation for Respiratory Care

Published
February 20, 2024

The CoARC is recognized by the Council for Higher Education Accreditation (CHEA). www.chea.org.

To maintain transparency and advance education in respiratory care, the CoARC is fully committed to sharing its accreditation data. Annually, the CoARC Executive Office prepares this comprehensive report that provides a plethora of information about all CoARC accredited programs, including descriptive statistics of the programs, the accreditation actions taken by CoARC over the previous year, and aggregate data on graduate, enrollment, and outcomes. This Annual Report on Accreditation in Respiratory Care Education is posted on the CoARC website in PDF format. Access is unrestricted. When a third party uses CoARC-published data as part of a separate publication, the CoARC requests that the publication includes the following disclaimer:

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COMMISSION ON ACCREDITATION FOR RESPIRATORY CARE

INTRODUCTION

It is my great pleasure to provide to you, on behalf of the Board and Executive Office Staff of the Commission on Accreditation for Respiratory Care (CoARC), the *2023 Report on Accreditation in Respiratory Care Education.* This report presents information on CoARC accredited programs and accreditation actions taken by the CoARC annually. The CoARC has developed this report to provide critical data in the following four areas:

- Descriptive statistics of CoARC Accredited Programs as of December 31, 2023.
- Accreditation actions taken in 2023; and
- Aggregate statistics of applications, graduate, enrollment, and outcomes data derived from the 2023 Annual Reports of Current Status submitted on July 1, 2023.

There were 55 accreditation site visits in 2023 involving 48 volunteers. These were a combination of in-person and virtual site visits. The commitment level of these volunteers is remarkable and truly appreciated. The CoARC expresses its gratitude to each of them for sharing the time and talent essential to the critically important goal of ensuring the quality of all respiratory care programs.

The CoARC collected annual report data using the annual reporting tool developed and maintained by KG Labs, LLC. The Annual Report of Current Status (RCS) was completed by 404 programs and program options and submitted on July 1. We would like to acknowledge the considerable time and effort required to provide the important information encompassed by the RCS. The charts included in this report are derived from these data and other data sets used by the CoARC and are designed to provide aggregate information on accredited respiratory care educational programs and their graduates. This information can be used by the CoARC's communities of interest in their evaluations of the profession's current state, both locally and nationally. In addition to this report, there is an interactive map of programmatic outcomes: https://fortress.maptive.com/ver4/f463960387b07a1a5bcfcab38ee62b2d.

Please feel free to share suggestions for improvements or changes by contacting our Chief Executive Officer, Tom Smalling, Ph.D., RRT, RRT-SDS, RPFT, RPSGT, FAARC, at tom@coarc.com.

Thank you for your support,

Kevin O'Neil, MD
President

EXECUTIVE SUMMARY

PROGRAMS BY PROGRAM TYPE

As of December 31, 2023, there were 449 programs and program options under accreditation review by the CoARC. These include 410 Entry into Respiratory Care Professional Practice programs/program satellites, two sleep specialist programs, 29 Degree Advancement programs, seven additional degree programs, and one Advanced Practice Respiratory Therapist program.

PROGRAMS BY DEGREE OFFERED

As of December 31, 2023, 81% of the 410 accredited entry into respiratory care practice programs were associate degree, and 18% were baccalaureate degree. Five programs (1% of total) offered a master's degree. Compared to data from the 2022 Report on Accreditation, the number of associate degree programs decreased by 11, the number of baccalaureate programs decreased by five and the number of master's degrees increased by three. The AAS degree accounted for the largest (52%) of all degree types, a slight increase from the previous year. There has been a 22% decrease in AS programs since 2017.

PROGRAMS BY INSTITUTIONAL TYPE

As of December 31, 2023, 59% of entry into practice programs and satellites were offered at a community/junior college; 24% of programs were offered at a four-year college/university; 13% of accredited programs were offered at a technical/vocational school; 3% at an academic HSC/medical center; 1% at a career/technical college, and <1% of programs were offered by the U.S. military. Interestingly, 36 of the associate degree programs (9% of total) are offered at four-year colleges/universities. Four community colleges confer the baccalaureate degree. This is a decrease of two compared to 2022.

PROGRAMS BY INSTITUTIONAL CONTROL/FUNDING

As of December 31, 2023, 81% of the programs were operating under a public/not-for-profit status; 10% were operating under a private/for-profit (proprietary) status; 8% were operating under a private/not-for-profit status, and <1% were controlled and funded by the federal government. Associate degree programs offered by sponsors operating under a public/not-for-profit status accounted for the largest (66%) group.

PROGRAMS BY STATE, D.C., AND PUERTO RICO

There are CoARC-accredited respiratory care programs in every state except Alaska. California has the largest number of programs and satellites, at 36. Thirty states and Puerto Rico have an entry into practice program at the baccalaureate or master's level. Twenty states and the District of Columbia do not have an entry into practice program at the baccalaureate or master's level. Eighteen states have a CoARC-accredited DA program. Thirty-two states in addition to the District of Columbia and Puerto Rico do not have a CoARC-accredited DA program.

ACCREDITATION ACTIONS

In 2023 there were 156 accreditation actions taken by the Board, 64 accreditation actions processed by the Executive Office, and 55 site visits conducted.

Applications for Substantive Change

Of the 34 applications for substantive change processed by the CoARC in 2023, six were changes in sponsorship,13 were changes in curriculum or delivery methods (including changes in the number of clock or credit hours and/or other changes in the length of the program), two were increases in enrollment, and ten were changes in program location. Three of these applications included multiple policy changes.

Changes in Program Information and Personnel

Of the 70 permanent changes in Program Director in 2023, 16 were due to retirement, 28 to resignation, 16 to re-assignment, and 10 were for other reasons.

2023 ANNUAL REPORT OF CURRENT STATUS (RCS)

A total of 411 annual reports for respiratory programs were used to generate the aggregate data (January 1, 2020, through December 31, 2022) from the 2023 RCS reports.

Total Applications

Total entry into practice applications reached a peak of 23,430 in 2011 and then decreased by 42% between 2011 and 2016. The number of applications increased by 21% between 2016 and 2018. There were 15,084 applications in 2022 (a 5.9% decrease compared to 2021). The mean number of applications per program was 38 in 2022.

RC Applications by Degree Offered

Compared to 2021, applications in 2022 decreased by 7.8% for associate degree programs. Applications increased by 8% for master's programs and by 5% for baccalaureate degree programs.

RC Applications by Institutional Type

Compared to 2021, applications in 2022 decreased by 7.8% for community/junior colleges; by 38.5% for career/technical colleges; by 1.6% for technical/vocational schools, and by 13.5% for academic HSC/Med Centers. Applications increased by 3.8% for 4-year colleges/universities; and by 20.3% for U.S. military programs.

RC Applications by Institutional Control/Funding

Compared to 2021, applications in 2022 decreased by 12.5% in the private/for-profit (proprietary) sector; and by 5.7% in the public/not-for-profit sector, and. Applications increased by 10.8% in the private/not-for-profit sector, and by 20.3% for federal government (military) programs.

Applications by State (including D.C. and PR) and Degree

California continues to have the largest (17.2% of the total in 2022) number of applications.

Total New Enrollments

For 2022, there were 7,560 enrollments in Associate entry-into-practice programs, this was a 3.7% decrease compared to 2021. The mean maximum annual enrollment capacity per program was 30 for associate degrees, and 24 for Baccalaureate and master's degrees. The mean number of new enrollments per program was 18 for Associate, 13 for Baccalaureate, and 10 for master's degrees. For 2022, 8% (34 of the 411) programs reported new enrollments reaching maximum annual enrollment capacity, which was a 1% increase compared

to 2021.

New RC Enrollments by Degree Offered

Associate degree entry into practice programs accounted for 86.8% of the 7,560 new enrollments in 2022. Compared to 2021, new enrollments in 2022 decreased by 3.7% for associate degree programs; by 3.1% for baccalaureate programs, and by 9.5 % for master's programs.

New RC Enrollments by Institutional Type

Compared to 2021, new enrollments in 2022 decreased by 3.9% for community/junior colleges; by 4.2% for technical/vocational schools; by 8.6% for academic HSC/medical centers; by 18.7% for career/technical colleges, and 3.9% for four-year colleges/universities. New enrollments increased by 18.7% for U.S. military programs.

New RC Enrollments by Institutional Control/Funding

Compared to 2021, new enrollments in 2022 decreased by 3.4% in the private/not-for-profit sector, by 3.0% in the public/not-for-profit sector, and by 7.4% in the private/for-profit (proprietary) sector. New enrollments increased by 18.7% in the federal government sector.

New RC Enrollments by State (including D.C. and PR) and Degree

California had the largest number of enrollments (17.3 % of total) in 2022.

Total Graduates

There were 6,035 entry into practice graduates in 2022. This is a 1.1% increase compared to 2021 and a 25.8% decrease compared to its peak in 2012. The mean number of graduates per program was 13.

RC Graduates by Degree Offered

Compared to 2021, the number of graduates in 2022 decreased by 0.7% for associate degree programs, and by 2.6% for master's degree programs. The number of graduates increased by 13.7 % for baccalaureate degree programs.

RC Graduates by Institutional Type

Compared to 2021, the number of graduates in 2022 decreased by 6.8% in community/junior colleges and by 14.8% in academic HSC/medical centers. Applications increased by 4.9% in career/technical colleges; 3.6% in 4-year colleges/universities; 25.1% in technical/vocational schools; and 23% in U.S. military programs.

RC Graduates by Institutional Control/Funding

Compared to 2021, the number of graduates in 2022 decreased by 4.8% in the public/not-for-profit sector; and 2.0% in the private/not-for-profit sector. The number of graduates increased by 21.8% in the private/for-profit (proprietary) sector and 23% in the federal government sector.

RC Graduates by State (including D.C. and PR) and Degree

California had the largest number of graduates (16.8% of total) in 2022.

Programmatic Retention

For the 2023 RCS, the mean retention rate remained at 91% and was no change compared to 2022. Four programs (0.1% of total) reported retention rates below the CoARC-established threshold of 70%.

Retention by Degree Offered, Institutional Type, and Institutional Control/Funding

For the 2023 RCS, associate degree programs had the lowest mean retention rate (91%), and master's degree programs had the highest (95%). Programs located in Four Year College or University had the highest mean (93%). U.S. military programs had the lowest (88%). Programs controlled/funded by the private/for-profit (proprietary) sector had the highest mean retention at 93%, while programs controlled/funded by the federal government had the lowest, at 88%.

Job Placement

The 2023 RCS mean placement remained at 87%. This was a change when compared to the 2021 RCS of 1%. The highest mean placement rate was 100% (n = 48) and the lowest rate was 37% (n=1).

Job Placement by Degree Offered, Institutional Type, and Institutional Control/Funding

For the 2023 RCS, baccalaureate degree programs showed no change (89%) when compared to the 2022 RCS. Associate degree programs showed no change (86%). Master's degree programs remained at the highest (93%). U.S. military programs had the highest mean (91%). Programs controlled/funded by the federal government had the highest mean (91%).

TMC Exam High Cut Score Success

For the 2023 RCS, the mean TMC High Cut Score success was 83% (the same as 2022 RCS and a 2% decrease from the 2021 RCS), with the highest at 100% (n=40) and the lowest at 25% (n=1). A total of 22 programs (5% of total) reported success rates below the CoARC established threshold of 60%. This was a decrease of 8 compared to the 2022 RCS.

TMC High Cut Score Success by Degree Offered, Institutional Type, and Institutional Control/Funding

TMC High Cut Score success for baccalaureate degree programs is higher (87%) than that of associate degree programs (82%). Master's degree programs had the highest (96%). Twenty out of the 22 programs below the CoARC established threshold conferred the associate degree (14 AAS degree, 4 AS degree, and 2 AST degree); the remaining 2 programs offered the baccalaureate degree. By institutional type, Four-year colleges/University and Career/Technical College programs had the highest mean TMC High Cut Score success at 86%. Mean TMC High Cut Score success in Academic HSC/Medical Center institutions was highest, at 88%.

RRT Credentialing Success

The states that currently require RRT as a minimum requirement for a license to practice are: New Mexico, Oregon, Arizona, California, Ohio, West Virginia, and New Jersey. The mean RRT credentialing success for the 2023 RCS was 72% with the highest at 100% (n=18) and the lowest at 0% (n=2). When compared to 2022 RCS data, the mean RRT credentialing success rate remained the same, with an overall decrease of 8.0 % since the 2019 RCS. The number of programs reporting the highest RRT credentialing success rate (100%) decreased by 7 compared to the 2022 RCS, and by 21 compared to the 2019 RCS.

RRT Credentialing Success by Degree Offered, Institutional Type, and Institutional Control/Funding

Associate degree programs had the lowest mean RRT success (70%) followed by baccalaureate programs at 77%. Master's programs had the highest at 93%. RRT success increased by 1% for associate degree programs and remained the same for baccalaureate degree programs when compared to 2022 RCS data. By institutional type, Academic HSC/Medical Center institutions demonstrated the highest mean at 79%. By funding criteria, the public/not-for-profit sector continued to demonstrate the highest mean (73%).

MISSION AND SCOPE

The CoARC accredits Entry into Professional Practice respiratory care programs at the Associate, Baccalaureate, and Master's degree levels, as well as post-professional Degree Advancement respiratory care programs at the Baccalaureate and Master's degree levels and Advanced Practice respiratory care programs at the graduate level. The CoARC also accredits certificate programs that train sleep disorders specialists offered by any of its accredited respiratory care programs. CoARC accreditation is limited to programs physically located in the United States and its territories.

THE VALUE OF PROGRAMMATIC ACCREDITATION

Accreditation provides consumer protection, advances and enhances the profession of Respiratory Care, and protects against compromise of educational quality. Accreditation also supports the continuous improvement of these educational programs by mandating continuing reassessment of resources, educational processes, and outcomes. The CoARC is responsible for evaluating respiratory care educational programs and publicly recognizing those which meet agreed-upon accreditation standards. Respiratory therapists are members of a team of health care professionals working in a wide variety of clinical settings to evaluate, treat, and manage patients of all ages with respiratory illnesses and other cardiopulmonary disorders.

HISTORICAL BACKGROUND

The Medical Society of the State of New York formed a Special Joint Committee in Inhalation Therapy on May 11, 1954. One of its purposes was "... to establish the essentials of acceptable schools of inhalation therapy (not to include administration of anesthetic agents) ..." In June 1956, the House of Delegates of the American Medical Association (AMA) adopted its Resolution No. 12, introduced by the Medical Society of the State of New York. The delegates "Resolved, that the Council on Medical Education and Hospitals is hereby requested to endorse such or similar 'Essentials' and to stimulate the creation of schools of inhalation therapy in various parts of these United States of America." A report entitled, "Essentials for an Approved School of Inhalation Therapy Technicians," was adopted by sponsor participants (American Association for Inhalation Therapy [AAIT], American College of Chest Physicians [ACCP], American Medical Association [AMA], and American Society of Anesthesiologists [ASA]) at an exploratory conference in October 1957. The AMA's House of Delegates granted formal approval in December 1962. The first official meeting of the Board of Schools of Inhalation Therapy Technicians was held at AMA's Chicago headquarters on October 8, 1963.

The Joint Review Committee for Respiratory Therapy Education (JRCRTE), the successor group to the Board of Schools, came into being on January 15, 1970, as a recommending body to the Committee on Allied Health Education and Accreditation (CAHEA) of the AMA. The JRCRTE was dissolved in 1996, and the Committee on Accreditation for Respiratory Care became its successor organization as a recommending body to the newly formed Commission on Accreditation for Allied Health Education Programs (CAAHEP). In 2008, the Committee on Accreditation for Respiratory Care began the process of becoming an independent accrediting body: The Commission on Accreditation for Respiratory Care (CoARC). The CoARC became a freestanding accreditor of respiratory care programs on November 12, 2009, and in September 2012, the Council for Higher Education Accreditation (CHEA) granted recognition to the CoARC. In January 2022, CHEA awarded CoARC continued recognition for another seven years.

Since 1986, the CoARC has used an outcomes-centered approach to its accreditation review process. This approach focuses on a specific set of outcomes that include but are not limited to: a) Graduate performance on national credentialing examinations; b) Programmatic retention; c) Graduate and employer satisfaction with the program; and d) Job placement. The CoARC routinely monitors the program's outcomes results in relation to the thresholds via an Annual Report of Current Status (RCS). Any program not meeting all the thresholds must document in the RCS a detailed analysis of each deficiency and provide a specific action plan to address that deficiency.

PROGRAMS BY PROGRAM TYPE

Programs are grouped into three categories and are assigned a unique 6-digit number based on the category to which they are assigned:

1. **(200-level):** Programs that prepare graduates with demonstrated competence in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains of respiratory care practice as performed by Registered Respiratory Therapists (RRTs). 200-level program graduates can earn both the National Board for Respiratory Care (NBRC) Certified Respiratory Therapist (CRT) and RRT credentials. Programs in this category are subcategorized as Entry into Professional Practice base programs (200-level), Entry into Professional Practice Additional Degree Track (ADT), baccalaureate (210-level), and Entry into Professional Practice Additional Degree Track (ADT) Master's (220-level).

2. **(300-level or Satellite programs**): These are programs offered by a base program at a location separate from the base program but within the U.S. and its Territories, at which all core Respiratory Care didactic and laboratory courses are available. This does not pertain to sites used by a completely online/distance education program for individual students or to base programs with students attending one or more classes via distance learning technologies. Satellite location(s) function under the direction of the Key Personnel of the base program.

3. **(400-level or Sleep Disorders Specialist programs):** Programs that prepare sleep disorder specialists with demonstrated competence in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains of polysomnography practice as performed by sleep disorder specialists (SDS). 400-level program graduates have the opportunity to earn both the NBRC SDS credential and Board of Registered Polysomnographic Technologists (BRPT) Registered Polysomnographic Technologist (RPSGT) credential.

4. **(500-level):** Degree Advancement (DA) programs meet the needs of practicing respiratory therapists that have already completed an accredited respiratory care program with an Entry into Respiratory Care Professional Practice degree and wish to obtain advanced training in Respiratory Care. Advanced educational experiences designed to enhance a respiratory therapist's ability to function in clinical, teaching, administrative, or research environments, are essential components of DA programs.

5. **(600-level):** Advanced Practice Respiratory Therapist (APRT) programs train Registered Respiratory Therapists (RRTs) to provide advanced, evidence-based, diagnostic, and therapeutic clinical practice and disease management. All APRT students must be graduates of a CoARC-accredited Entry into Respiratory Care Professional Practice degree program and hold the Registered Respiratory Therapist (RRT) credential prior to entry into the program.

As of December 31, 2023, there were a total of 475 programs and program options under accreditation review by the CoARC. Most of these programs are sponsored by public and private higher education institutions. Two programs are sponsored federally: one by the U.S. Army and one by the U.S. Air Force.

Of the 475 programs, one has applied for accreditation review, 25 hold an Approval of Intent (approval of their Letter of Intent applications to start developing an accredited program). Sixty-six (66) programs hold Provisional Accreditation which is the term used by the CoARC to signify that a program has demonstrated sufficient compliance with the Standards to initiate a program and admit students.

Table 1 (next page) provides a breakdown of program numbers by program type.

Table 1 – Program Numbers by CoARC Level as of December 31, 2023 (N=475)							
	200-level (Entry Base)	210-level (Entry ADT Baccalaureate)	220-level (Entry ADT Master's)	300-level (U.S. Satellite)	400-level (SDS Certificate)	500-level (Degree Advancement)	600-level (APRT)
Continuing Accreditation	355	3	3	5	2	3	0
Probationary Accreditation	12	0	0	0	0	0	0
Provisional Accreditation	35	2	2	0	0	26	1
Inactive Accreditation	0	0	0	0	0	0	0
Approval of Intent	14	1	0	5	0	5	0
Letter of Intent	1	0	0	0	0	0	0

PROGRAMS BY DEGREE OFFERED

Programs accredited by the CoARC are in institutions which are accredited by an institutional accrediting agency that is recognized by the U.S. Department of Education (USDE) and authorized under applicable law or other acceptable authority to award graduates of the program an associate or higher degree (*CoARC Entry into Practice Standard 1.01*). <u>*Note:*</u> *The subsequent data presented in this section includes data on Entry into Practice programs only.* **Figure 1a**, below, provides a graphic representation of degrees offered.

FIGURE 1A- ENTRY INTO PRACTICE RC PROGRAMS & SATELLITES BY DEGREE OFFERED AS OF 12/31/23 (N=410)

Masters 1% (n=5)

Baccalaureate 18% (n=72)

Associate 81% (n=333)
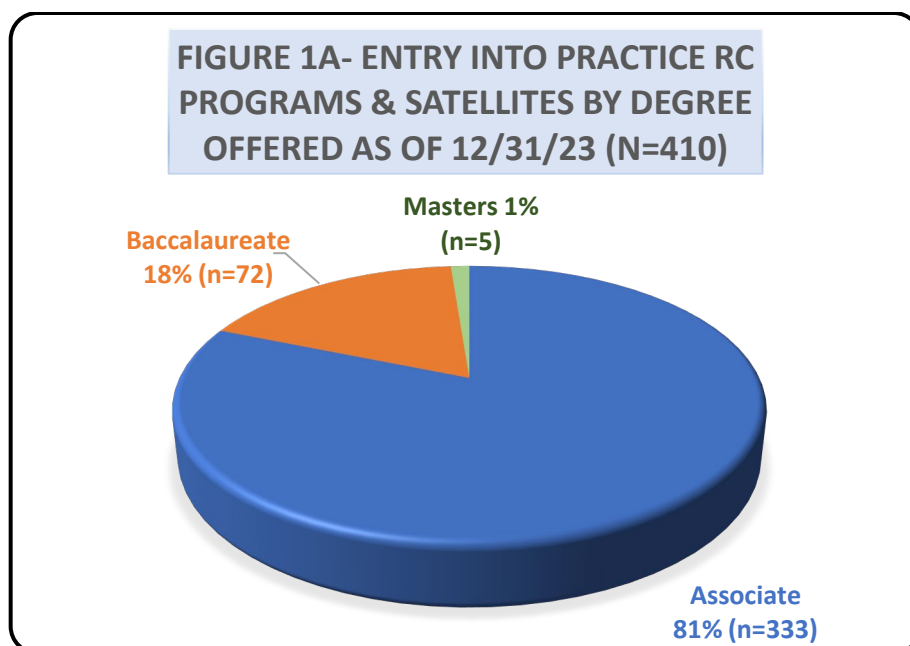
As of December 31, 2023, there were 410 Entry into Respiratory Care Professional Practice programs/program satellites. Of these, 333 (81% of total) confer the associate degree upon graduation and 72 (18% of total) programs confer the baccalaureate degree. Five programs (1% of total) confer the master's degree. Compared to data from the 2022 Report on Accreditation, the number of associate degree programs decreased by 11, the number of baccalaureate programs decreased by five and the number of master's degrees increased by three. **Figure 1b** shows the program numbers by degree over the past decade.

Figure 1b - Entry RC programs & Satellites by Degree Offered Between 12/31/11 and 12/31/23
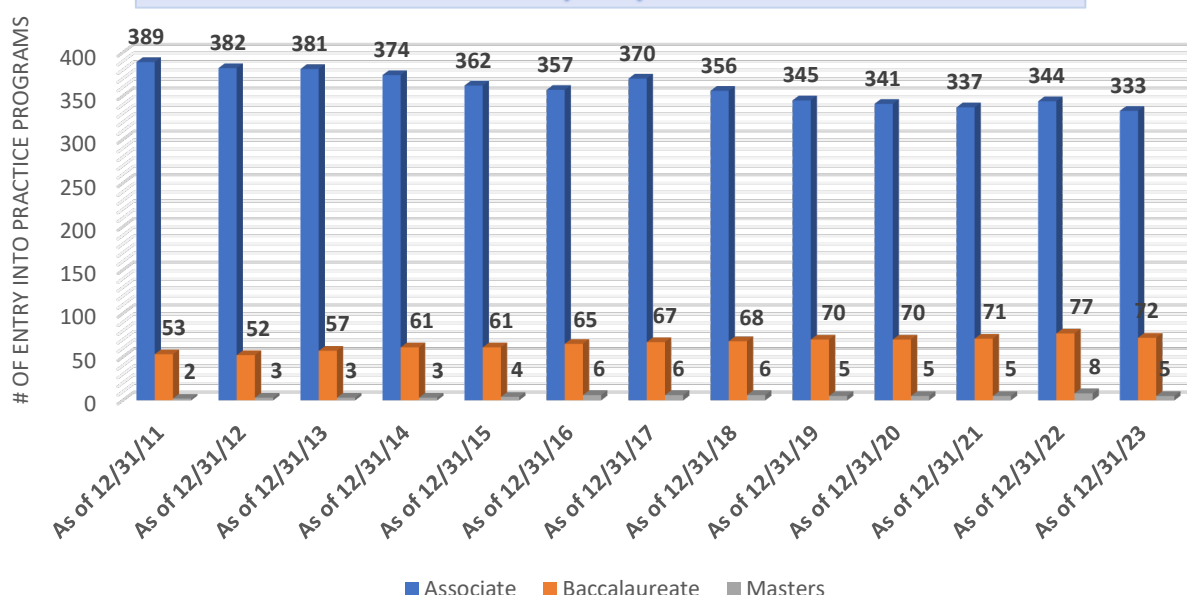
Table 2 provides a breakdown of program numbers by degree type. The Associate of Applied Science (AAS) degree continued to account for the largest (52%) of all entry into practice degree types offered in 2023. The Associate of Science (AS) degree accounted for 26% of all degree types offered in 2023. This is a slight decrease compared to 2022, and a 22% decrease since 2018. The increase in AAS degrees over recent years is due in part to the increase in state-mandated limits on the number of credit hours for associate degree programs. The Bachelor of Science (BS) degree accounted for 17% of all degree types offered in 2023.

Table 2 – Entry RC Programs and Satellites by Degree for 2017 through 2023							
	as of 12/31/17 (N=443)	as of 12/31/18 (N=430)	as of 12/31/19 (N=420)	as of 12/31/20 (N=416)	as of 12/31/21 (N=413)	as of 12/31/22 (N=429)	as of 12/31/23 (N=410)
Associate of Science (AS)	136	122	113	113	111	114	106
Associate of Applied Science (AAS)	227	228	226	215	213	216	214

	as of 12/31/17 (N=443)	as of 12/31/18 (N=430)	as of 12/31/19 (N=420)	as of 12/31/20 (N=416)	as of 12/31/21 (N=413)	as of 12/31/22 (N=429)	as of 12/31/23 (N=410)
Associate of Specialized Technology (AST)	4	4	4	4	4	4	3
Associate of Occupational Studies (AOS)	3	2	2	9	9	10	10
Bachelor of Science (BS)	65	66	67	67	67	73	68
Bachelor of Applied Science (BAS)	2	2	3	3	4	4	4
Master of Science (MS)	6	6	5	5	5	8	5

PROGRAMS BY INSTITUTIONAL TYPE

The CoARC assigns programs to one of six categories that define the type of institution sponsoring the respiratory care program. These categories are (1) Academic HSC/Medical Center; (2) Career or Technical College; (3) Community College or Junior College; (4) Four-Year College or University; (5) Technical or Vocational School, and (6) U.S. Military. As of December 31, 2023, there were 240 respiratory care programs and satellites offered at a community or junior college. This was the largest (58%) of the categories. Ninety-seven (24%) programs were offered at a four-year college or university. Fifty-five (13%) programs were offered at a technical or vocational school. Twelve (3%) programs were offered at an academic health sciences or medical center. Four (1%) programs were offered at a career/technical college. Two programs (<1%) were offered at a U.S. military.

Figure 2 illustrates these categories.

Figure 2-Entry into Practice RC Programs and Satellites by Institutional Type as of 12/31/23 (N=410)

- Community College or Junior College (240)
- Four-Year College or University (97)
- Technical or Vocational School (55)
- Academic HSC/Medical Center (12)
- Career or Technical College (4)
- US Military (2)

Table 3 provides a comparison of programs by institutional type and degree. As of December 31, 2023, the majority (58%) of programs conferring the associate degree are offered at community or junior colleges. Interestingly, 36 programs (9% of total) conferring the associate degree were offered at four-year colleges or universities.

Table 3 – Entry RC Programs and Satellites by Institutional Type and Degree (2021 thru 2023)	Associate			Baccalaureate			Masters		
	as of 12/31/21 (N=413)	as of 12/31/22 (N=429)	as of 12/31/23 (N=410)	as of 12/31/21 (N=413)	as of 12/31/22 (N=429)	as of 12/31/23 (N=410)	as of 12/31/21 (N=413)	as of 12/31/22 (N=429)	as of 12/31/23 (N=410)
Community of Junior College	240	245	240	6	4	0	0	0	0
Technical or Vocational School	54	55	55	0	0	0	0	0	0
Four-Year College or University	35	38	36	58	61	59	4	5	2
Career or Technical College	4	4	4	0	0	0	0	0	0
Academic HSC/Medical Center	2	2	0	7	10	9	1	3	3
U.S. Military	2	2	2	0	0	0	0	0	0

PROGRAMS BY INSTITUTIONAL CONTROL/FUNDING

The CoARC assigns programs to one of four categories based on the governance of its sponsor: by publicly elected/appointed officials, with its major source of funds from public sources (Public/Not-For-Profit); by privately elected or appointed officials, with its major source of funds from private sources (Private/Not-For-Profit or Private/For-Profit); or by a branch of the Armed Forces, with its major source of funds from federal appropriations (Federal Government). As of December 31, 2023, 331 (81%) institutions sponsoring a respiratory care program were operating under a public/not-for-profit status (an increase by one percent compared to 2022). Forty-three (10%) institutions were operating under a private/for-profit (proprietary) status (no percentage increase compared to 2022). Thirty-four (8%) institutions were operating under a private/not-for-profit status (a decrease of one percent compared to 2022). Two (<1%) institutions were controlled and funded by the federal government.

Figure 3 illustrates these categories.

Figure 3- Entry into Practice RC Programs and Satellites by Institutional Control/Funding as of 12/31/23 (N=410)

- Public/Not-For-Profit (331)
- Private/For-Profit(Proprietary) (43)
- Private/Not-For-Profit (34)
- Federal Government (2)
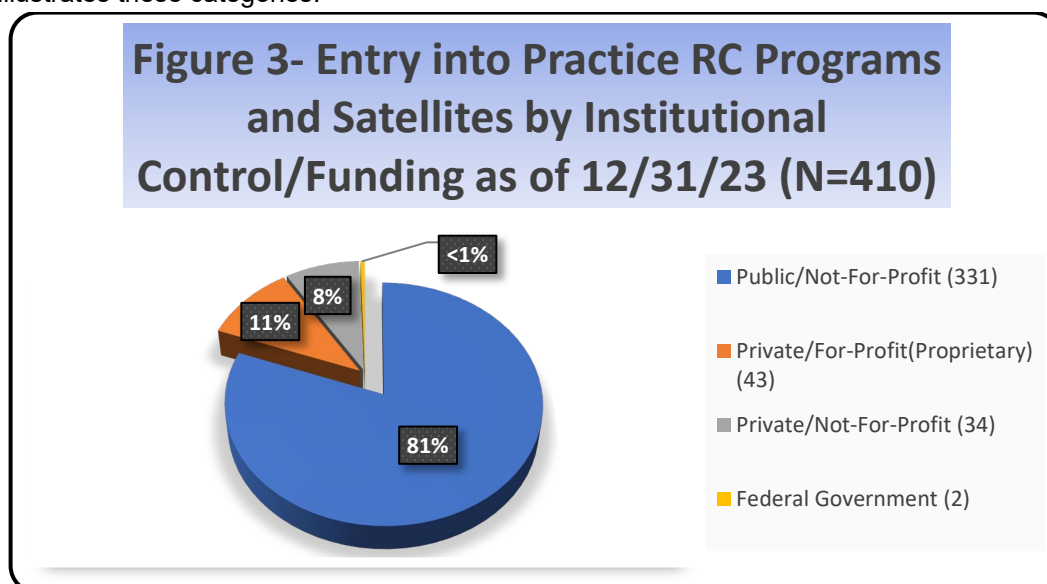
Table 4 provides a comparison of programs by institutional control and degree offered. As of December 31, 2023, the majority (68%) of programs conferring the associate degree are sponsored by public/not-for-profit institutions. Compared to 2022 data, the number of entry into practice baccalaureate programs sponsored by private-not-for-profit sector institutions increased by one.

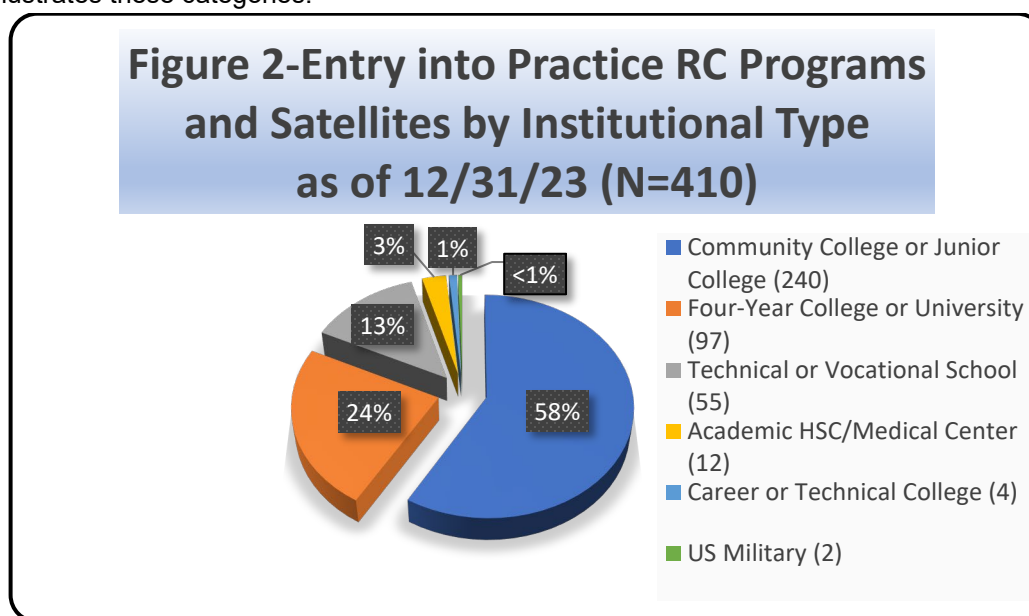| Table 4 – Entry RC Programs and Satellites by Institutional Control and Degree (2021 thru 2023)	Associate			Baccalaureate			Masters		
	As of 12/31/21 (N=413)	As of 12/31/22 (N=429)	As of 12/31/23 (N=410)	As of 12/31/21 (N=413)	As of 12/31/22 (N=429)	As of 12/31/23 (N=410)	As of 12/31/21 (N=413)	As of 12/31/22 (N=429)	As of 12/31/23 (N=410)
Public-Not-For-Profit	281	284	277	54	57	51	2	4	3
Private/For-Profit (Proprietary)	40	44	43	0	0	0	0	0	0
Private-Not-For-Profit	14	14	11	17	20	21	3	4	2
Federal Government	2	2	2	0	0	0	0	0	0

PROGRAMS BY STATE, D.C., AND PUERTO RICO

Figure 4 displays the number of respiratory care programs and satellites in each state, the District of Columbia, and Puerto Rico. CoARC-accredited respiratory care programs are in every state except Alaska. As of December 31, 2023, California had the largest number of programs and satellites, at 36. States/locations with only one program include Wyoming, Vermont, South Dakota, Idaho, New Hampshire, Hawaii, the District of Columbia, and Puerto Rico.

Figure 4- Entry into Practice RC Programs and Satellites by State, D.C., and PR as of 12/31/23 (N=410)
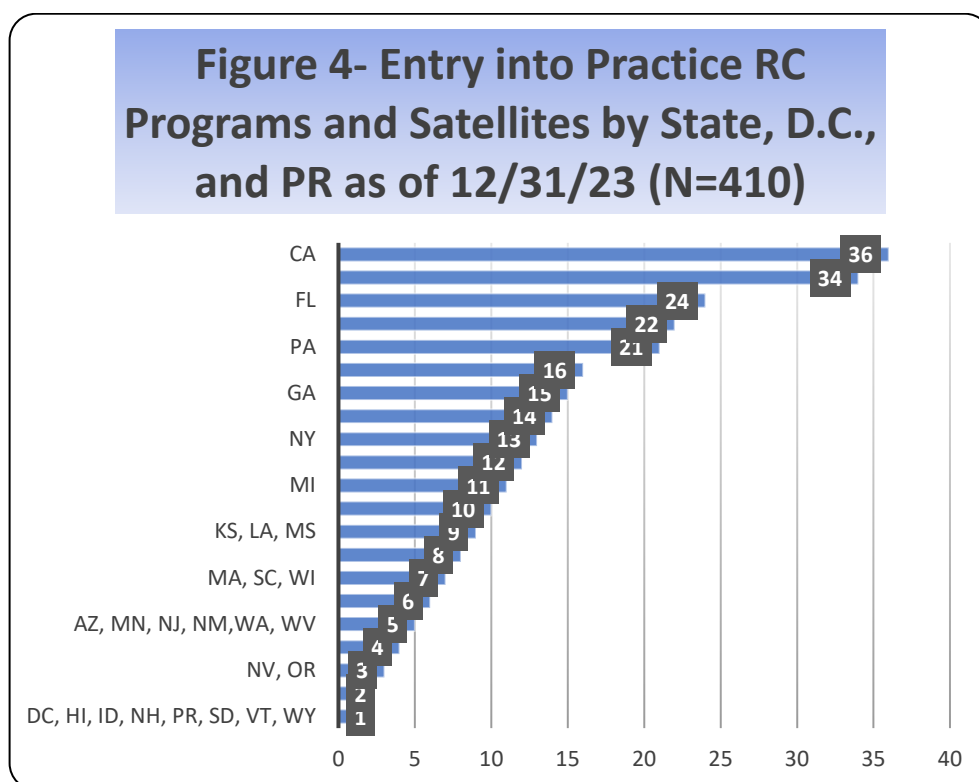
Table 5 (next two pages) provides a comparison of entry into practice programs by state (including District of Columbia and Puerto Rico) and degree. As of December 31, 2023, the associate degree is offered in 49 states and the District of Columbia (North Dakota, Alaska, and Puerto Rico are the exceptions). In 19 states and the District of Columbia, the associate degree is the only degree offered. The baccalaureate degree is offered in 28 states and Puerto Rico. The master's degree is offered in eight states (AR, FL, GA, IL, KY, ND, NE, and TX).

Table 5 –Entry into Practice RC Programs and Satellites by State, D.C., and PR and Degree (N=410) as of 12/31/23	Associate	Baccalaureate	Masters
Alabama (n=8)	6	2	0
Alaska (n=0)	0	0	0
Arkansas (n=6)	5	1	0
Arizona (n=5)	5	0	0
California (n=36)	35	1	0
Colorado (n=4)	4	0	0
Connecticut (n=6)	4	2	0
District of Columbia (n=1)	1	0	0
Delaware (n=2)	2	0	0
Florida (n=24)	21	2	1
Georgia (n=15)	11	4	0
Hawaii (n=1)	1	0	0
Iowa (n=6)	6	0	0
Idaho (n=1)	0	1	0
Illinois (n=14)	12	1	1
Indiana (n=12)	10	2	0
Kansas (n=9)	8	1	0
Kentucky (n=12)	10	2	1
Louisiana (n=9)	6	3	0
Massachusetts (n=7)	7	0	0
Maryland (n=6)	5	1	0
Maine (n=2)	2	0	0
Michigan (n=11)	11	0	0
Minnesota (n=5)	3	2	0
Missouri (n=8)	5	3	0
Mississippi (n=9)	9	0	0
Montana (n=2)	2	0	0
North Carolina (n=16)	14	2	0
North Dakota (n=2)	0	2	0
Nebraska (n=4)	3	1	0
New Hampshire (n=1)	1	0	0
New Jersey (n=5)	4	1	0

	Associate	Baccalaureate	Masters
New Mexico (n=5)	5	0	0
Nevada (n=3)	2	1	0
New York (n=13)	9	4	0
Ohio (n=22)	17	5	0
Oklahoma (n=6)	6	0	0
Oregon (n=3)	2	1	0
Pennsylvania (n=21)	12	9	0
Puerto Rico (n=1)	0	1	0
Rhode Island (n=2)	2	0	0
South Carolina (n=7)	7	0	0
South Dakota (n=1)	1	0	0
Tennessee (n=10)	7	3	0
Texas (n=34)	29	3	2
Utah (n=6)	1	5	0
Virginia (n=8)	5	3	0
Vermont (n=1)	1	0	0
Washington (n=5)	2	3	0
Wisconsin (n=7)	7	0	0
West Virginia (n=7)	5	2	0
Wyoming (n=1)	1	0	0

Figure 5 illustrates the number of CoARC accredited entry into practice baccalaureate and graduate base programs as of December 31, 2023. Thirty states and Puerto Rico have an entry into practice program at the baccalaureate or master's level. Twenty states and the District of Columbia do not have an entry into practice program at the baccalaureate or master's level.

Figure 5- CoARC Accredited Entry into Practice Baccalaureate and Graduate Degree Programs (N=77 as of 12/31/23)

Red = No baccalaureate or masters entry programs in that state, including DC (20)

Figure 6 illustrates the number of CoARC accredited degree advancement (DA) baccalaureate, graduate base programs with additional degree tracks (ADT), and advanced placement (APRT) options as of December 31, 2023. Eighteen states have a CoARC-accredited DA program. Thirty-two states including the District of Columbia and Puerto Rico do not have a CoARC-accredited DA program.

Figure 6 – CoARC Accredited Respiratory Care Degree Advancement, Additional Degree Track, and Advanced Placement Programs (N=37 as of 12/31/23)

Figure 7 illustrates the number of CoARC accredited entry into practice, degree advancement (DA) baccalaureate, graduate base programs with additional degree tracks (ADT), and advanced placement (APRT) options as of December 31, 2023 (i.e., Figures 5 and 6 combined).   Thirty-one states and Puerto Rico have either a CoARC-accredited entry into practice baccalaureate/graduate program or DA program. Nineteen states including the District of Columbia do not have either type of program.

Figure 7 - Combined CoARC Accredited Entry into Practice Baccalaureate and Graduate Programs, DA, ADT, and APRT programs (N=114 as of 12/31/23)
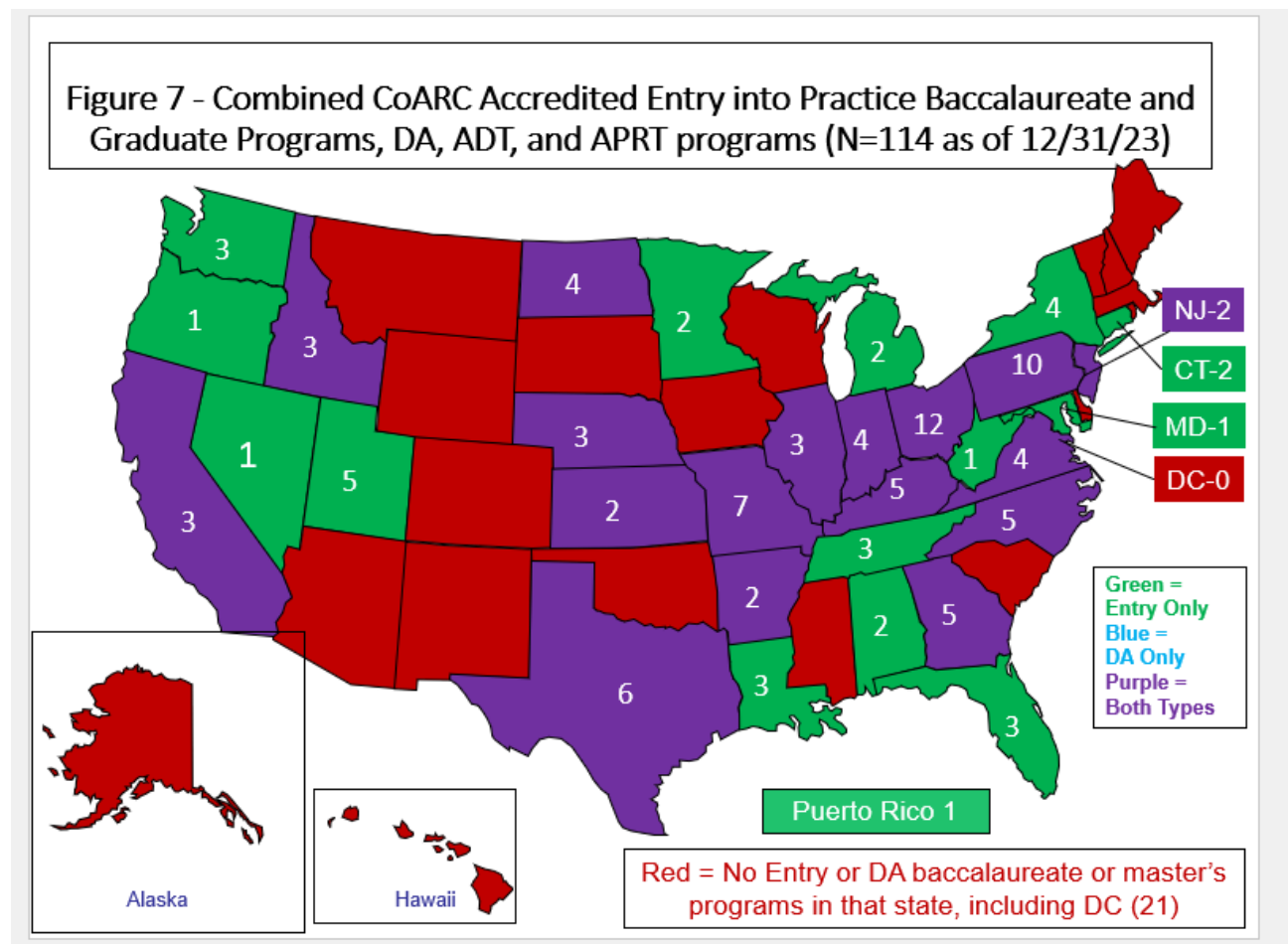
RC Program Consortia

In its accreditation *Standards,* the CoARC defines a consortium as *"a legally binding contractual partnership of two or more sponsoring institutions (at least one of which is a duly accredited degree-granting institution of higher education) that come together to offer a program. Consortia must be structured to recognize and perform the responsibilities and functions of a sponsoring institution."* CoARC Entry Standard 1.02, DA Standard 1.2, and APRT Standard A2 state that "*the responsibilities of the consortium and of each member must be clearly documented in a formal affiliation agreement or memorandum of understanding, which delineates instruction, supervision of students, resources, reporting, governance and lines of authority*." **Table 6** (next page) provides a listing of 31 consortium programs as of December 31, 2023 according to the CoARC's database.

Table 6 - RC Program Consortia as of December 31, 2023

Program #	Name	City	State	Degree
200014	Millersville Univ/Lancaster Regional Med	Millersville	PA	BS
200019	Commonwealth University of Pennsylvania	Sayre	PA	BS
200039	Indiana Respiratory Therapy Ed Consortium	Indianapolis	IN	BS
200088	Delaware Co CC/Crozer-Chester Med Ctr	Upland	PA	AAS
200133	CHI St. Alexius Health/Univ of Mary	Bismarck	ND	BS
200138	Hudson Valley Community College	Troy	NY	AAS
200172	University of Minnesota/ MSHS	Rochester	MN	BS
200260	University of Cincinnati-Clermont	Cincinnati	OH	AAS
200298	MCC-MSU Consortium for Respiratory Ed	Madisonville	KY	AAS
200299	Delaware Technical and Community College	Wilmington	DE	AAS
200313	West Chester University/Bryn Mawr Hospital	Bryn Mawr	PA	BS
200367	North Dakota State University/Sanford	Fargo	ND	BS
200392	Bossier Parish Community College	Bossier City	LA	AAS
200430	Carver Career Center / BridgeValley CTC	Charleston	WV	AS
200431	Pickens Technical College	Aurora	CO	AAS
200432	Missouri Southern State University	Joplin	MO	AS
200450	Collins Career Technical Center	Chesapeake	OH	AAS
200454	Francis Tuttle Technology Center	Oklahoma City	OK	AAS
200461	Northeast Kentucky Consortium	Morehead	KY	AAS
200463	Autry Technology Ctr/Northern OK College	Enid	OK	AAS
200497	Cape Girardeau Career/ SE Missouri State Univ	Cape Girardeau	MO	AS
200504	University of Rio Grande/Rio Grande CC/	Rio Grande	OH	AAS
200506	Marshall University/St. Mary's Med Ctr	Huntington	WV	BS
200586	Simi Institute/Excelsior College	Simi Valley	CA	AS
200652	Thomas Jefferson Univ/Natl Jewish Health	Philadelphia	PA	BS
200653	St. Mary's/Mountwest Comm & Tech College	Huntington	WV	AAS
210273	York College of PA	York	PA	BS
220133	CHI St. Alexius Health/Univ of Mary	Bismarck	ND	MS
300025	Monroe City Hall Annex	West Monroe	LA	AAS
510024	MCC-MSU Consortium for Respiratory Ed	Murray	KY	BS
510030	Thomas Jefferson Univ/Natl Jewish Health	Philadelphia	PA	BS

ACCREDITATION ACTIONS

The CoARC makes most accreditation decisions during its Board meetings (which occur three times per year, typically in March, July, and December), based on an accreditation review cycle described in Section 1 of the *CoARC Accreditation Policies and Procedures Manual* (revised version available at https://coarc.com/accreditation/accreditation-policies-and-procedures/.) The statuses of Administrative Probation, Voluntary Withdrawal of Accreditation, and Voluntary Inactive Accreditation do not require a vote by the CoARC Board and are processed by the Executive Office throughout the year. **Table 7** is a summary of accreditation actions taken by both the CoARC Board and the Executive Office in 2023. The three columns (March, July, and December) relate to specific actions taken by the Commission at Board meetings.

Table 7 – CoARC Accreditation Actions for 2023		March 2023	July 2023	November 2023	Total
Approval of Intent		8	12	8	28
Provisional Accreditation		4	12	7	23
Continuing Accreditation	Entry Program	13	18	6	37
	Degree Advancement Program	0	0	2	2
	Advanced Practice RT Program	0	0	0	0
	Satellite	0	0	0	0
	Sleep Disorders Specialist	0	0	0	0
Probationary Accreditation	Conferred	0	0	8	8
	Removed	1	0	1	2
	Reviewed	4	0	3	7
Progress Report Reviewed	Accepted as Final	2	0	16	18
	Additional PR Requested	22	1	8	31
Withdrawal of Accreditation – Involuntary		0	0	0	0
Withhold of Accreditation		0	0	0	0
Substantive Changes Reviewed by the Commission		0	0	0	0
Total Number of Accreditation Actions taken by the Commission in 2023					156
Letter of Intent Applications					22
Voluntary Inactive Accreditation					0
Voluntary Withdrawal Accreditation					8
Application for Substantive Change					34
Total Number of Accreditation Actions processed by the CoARC Executive Office in 2023					64

The CoARC is required to keep the public informed about its accreditation actions. One of the ways the CoARC does this is to provide the public with information about the accreditation decision process, the nature and scope of CoARC accreditation activity, and the importance and value of accreditation (https://coarc.com/). The CoARC also provides the public with detailed descriptions of its accreditation policies and procedures by publishing its Accreditation Policies and Procedures - CoARC - Commission on Accreditation for Respiratory Care. In addition, prior to each Board meeting, the CoARC provides a list of programs scheduled to be reviewed and, following each meeting, the accreditation actions taken https://coarc.com/news-and-updates/meetings-and-third-partycomments/.

The following section lists the specific accreditation actions taken by the CoARC during 2023.

Letter of Intent Applications Submitted

The first step in the accreditation process is the submission of a Letter of Intent (LOI) application that declares the sponsor's intention to start a new program. The application, including supplementary materials, is reviewed by the CoARC Executive Office to ensure completeness, and subsequently by the Program Referee (a member of the CoARC Board who serves as the liaison between the program and the Commission). Further details regarding the Letter of Intent application process can be found in CoARC Policy 2.0.

Program Name	Type/Degree	Location	Received
Gurnick Academy for Medical Arts	AOS Degree	Modesto, CA	1/16/2023
Laramie County Community College	AAS Degree	Cheyenne, WY	1/20/2023
Utah Tech University (DA ADT)	BS Degree	St. George, UT	1/30/2023
LSU Shreveport (DA ADT)	BS Degree	Shreveport, LA	2/17/2023
St. Louis College of Health (Satellite)	AAS Degree	St. Louis, MO	3/22/2023
Elgin Community College	AAS Degree	Elgin, IL	4/28/2023
Edison State Community College	AAS Degree	Piqua, OH	5/9/2023
Colorado Mesa University	AAS Degree	Grand Junction, CO	5/10/2023
Daytona State College (DA ADT)	BS Degree	Daytona Beach, FL	5/17/2023
Lake Sumter State College	AS Degree	Leesburg, FL	5/16/2023
Great Basin College	AAS Degree	Elko, NV	5/18/2023
University of West Alabama	BS Degree	Livingston, AL	5/20/2023
South College-Pittsburgh	AS Degree	Cranberry Township, PA	8/29/2023
West Virginia Junior College	AST Degree	Morgantown, WV	9/8/2023
South College-Asheville	AS Degree	Asheville, NC	9/11/2023
Northampton Community College	AAS Degree	Bethlehem, PA	9/12/2023
South College-Atlanta	AS Degree	Atlanta, GA	9/13/2023
Carlow University (ADT)	AS Degree	Pittsburgh, PA	9/15/2023
Massachusetts College of Pharmacy and Health	BS Degree	Boston, MA	9/18/2023
Northcentral Technical College	AAS Degree	Wausau, WI	9/19/2023
Los Angeles Valley College (DA ADT)	BSRT Degree	Valley Glen, CA	9/22/2023
Central Ohio Technical College	AAS Degree	Newark, OH	9/26/2023

Approval of Intent Granted

An Approval of Intent (AOI) is an action taken by the CoARC following the submission of a Letter of Intent (LOI) Application. An AOI indicates that a sponsoring institution's plan to start a program or program option is acceptable. An AOI authorizes the sponsor to submit a Provisional Accreditation Self-Study Report (PSSR) and to undergo a Provisional Accreditation site visit.

Program #	Program Name (date LOI application received)	Type/ Degree	Location	Effective
200660	South College (9/19/2022)	Entry/AS	Knoxville, TN	3/3/2023
200661	West Virginia University (10/7/2022)	Entry/BSRT	Morgantown, WV	3/3/2023
200662	University of Nebraska Medical Center (11/3/2022)	Entry/MS	Omaha, NE	3/3/2023
200663	York College of PA (10/14/2022)	Entry/AS	York, PA	3/3/2023
300041	Western North Carolina Consortium (10/12/2022)	Entry/AAS	Flat Rock, NC	3/3/2023
510033	Platt College-Alhambra (10/26/2022)	DA/BS	Alhambra, CA	3/3/2023
510034	Utah Tech University (1/30/2023)	DA/BS	St. George, UT	3/3/2023
520032	University of Nebraska Medical Center (12/12/2022)	DA/MS	Omaha, NE	3/3/2023
200664	Triton College (12/21/2022)	Entry/AAS	River Grove, IL	7/14/2023
200665	Gurnick Academy for Medical Arts (1/16/2023)	Entry/AAS	Modesto, CA	7/14/2023
200666	Colorado Mesa University (5/10/2023)	Entry/AAS	Grand Junction, CO	7/14/2023
200667	Edison State Community College (5/9/2023)	Entry/AAS	Piqua, OH	7/14/2023
200668	Elgin Community College (4/28/2023)	Entry/AAS	Elgin, IL	7/14/2023
200669	The University of West Alabama (5/20/2023)	Entry/BS	Livingston, AL	7/14/2023
200670	Laramie County Community College (1/20/2023)	Entry/AAS	Cheyenne, WY	7/14/2023
200671	Lake Sumter State College (5/16/2023)	Entry/AS	Leesburg, FL	7/14/2023
200672	Great Basin College (5/18/2023)	Entry/AAS	Elko, NV	7/14/2023
300042	St. Louis College of Health Careers (3/22/2023)	Entry/AAS	St. Louis, MO	7/14/2023
510035	Louisiana State University Health Shreveport (2/17/2023)	DA/BS	Shreveport, LA	7/14/2023
510036	Daytona State College (5/17/2023)	DA/BS	Daytona Beach, FL	7/14/2023
200673	South College-Pittsburgh (8/28/2023)	Entry/AS	Cranberry Township, PA	11/3/2023
200674	South College-Asheville (9/12/2023)	Entry/AS	Asheville, NC	11/3/2023

200675	South College-Atlanta (9/12/2023)	Entry/AS	Atlanta, GA	11/3/2023
200676	Northampton Community College (9/11/2023)	Entry/AAS	Bethlehem, PA	11/3/2023
200677	West Virginia Junior College (9/8/2023)	Entry/AST	Morgantown, WV	11/3/2023
200678	Northcentral Technical College (9/19/2023)	Entry/AAS	Wausau, WI	11/3/2023
210617	Carlow University (9/15/2023)	Entry/AS	Pittsburgh, PA	11/3/2023
500037	Massachusetts College Pharmacy & Health Sciences University (9/19/2023)	DA/BS	Boston, MA	11/3/2023

Provisional Accreditation Granted

Provisional Accreditation status signifies that a program has demonstrated sufficient compliance with the Standards to initiate a program. Such compliance includes the completion and submission of an acceptable Provisional Accreditation Self Study Report (PSSR) and other documentation required by the CoARC and completion of the Provisional on-site visit. The program will remain on Provisional Accreditation until it achieves Continuing Accreditation. The conferral of Provisional Accreditation authorizes the sponsor to admit its first class of students and signifies that the program is recognized by the NBRC, thus providing graduates of these programs with eligibility to the Respiratory Care Credentialing Examination(s). After at least three (3) years of outcomes have been collected, reported, and analyzed, a provisionally accredited program may apply for Continuing Accreditation. If the program does not progress to Continuing Accreditation, enrolled students completing a program under Provisional Accreditation are still considered graduates of a CoARC accredited program.

Program #	Program Name (date AOI granted)	Location	Effective
200645	Rowan University (12/10/2021)	Glassboro, NJ	3/3/2023
200650	University of Saint Francis (7/24/2022)	Fort Wayne, IN	3/3/2023
300038	University of Saint Francis-Crown Point (7/24/2022)	Crown Point, IN	3/3/2023
510025	Rowan University (12/10/2021)	Glassboro, NJ	3/3/2023
200647	Cabarrus College of Health Sciences (12/10/2021)	Concord, NC	7/14/2023
200648	Riverside College of Health Careers (3/11/2022)	Newport News, VA	7/14/2023
200649	University of North Alabama (7/24/2022)	Florence, AL	7/14/2023
200652	Thomas Jefferson University/National Jewish Health (7/24/2022)	Philadelphia, PA	7/14/2023
200654	Laboure College of Healthcare (7/24/2022)	Milton, MA	7/14/2023
200657	American Career College-Los Angeles (11/12/2022)	Los Angeles, CA	7/14/2023
200659	Joliet Junior College (11/12/2022)	Joliet, IL	7/14/2023
210050	St. Louis Community College-Florissant Valley (3/11/2022)	St. Louis, MO	7/14/2023

220176	University of Arkansas for Medical Sciences (7/24/2022)	Little Rock, AR	7/14/2023
510028	University of Saint Francis (7/24/2022)	Fort Wayne, IN	7/14/2023
510029	Blessing-Rieman College of Nursing & Health Sciences (7/24/2022)	Quincy, IL	7/14/2023
510030	Thomas Jefferson University/National Jewish Health (7/24/2022)	Philadelphia, PA	7/14/2023
200653	St. Mary's Medical Center (7/24/2022)	Huntington, WV	11/3/2023
200655	Utica University-St. Petersburg Campus (7/24/2022)	St. Petersburg, FL	11/3/2023
200656	Coastal Alabama Community College (11/12/2022)	Bay Minette, AL	11/3/2023
200662	University of Nebraska Medical Center (3/3/2023)	Omaha, NE	11/3/2023
300039	Gaston College (7/24/2022)	Dallas, NC	11/3/2023
500031	Ursuline College (11/12/2022)	Pepper Pike, OH	11/3/2023
520032	University of Nebraska Medical Center (3/3/2023)	Omaha, NE	11/3/2023

Continuing Accreditation Granted

Continuing Accreditation is conferred when 1) an established program with Continuing Accreditation demonstrates compliance with the *Standards* following submission of an acceptable continuing accreditation self-study report and completion of an on-site visit, or 2) a program holding Provisional Accreditation has demonstrated compliance with the *Standards* during the Provisional Accreditation period. Continuing Accreditation remains in effect until it is withdrawn either voluntarily - the program withdraws from the accreditation process, or involuntarily - accreditation is withdrawn by the CoARC because of the program's failure to comply with the *Standards*.

Program #	Program Name	Location	Next Re-evaluation
200293	Texas Southmost College	Brownsville, TX	2033
200297	Lamar Institute of Technology	Beaumont, TX	2033
200302	Tallahassee Community College	Tallahassee, FL	2033
200354	Stark State College	North Canton, OH	2033
200416	Northeast Mississippi Community College	Booneville, MS	2033
200482	Southern Crescent Technical College	Griffin, GA	2033
200563	Concorde Career College-Portland	Portland, OR	2033
200565	Utah Tech University	St. George, UT	2033
200570	Louisiana State University-Eunice	Eunice, LA	2033
200592	National Park College	Hot Springs, AR	2033
200593	Concorde Career College-San Antonio	San Antonio, TX	2033
200598	Hutchinson Community College	Hutchinson, KS	2033
200618	Eastern Florida State College	Melbourne, FL	2028
200069	Boise State University	Boise, ID	2033
200153	County College of Morris	Randolph, NJ	2033
200175	Malcolm X College	Chicago, IL	2033
200216	Columbus State Community College	Columbus, OH	2033

200234	Mid-State Technical College	Marshfield, WI	2033
200238	Oakland Community College	Bloomfield Hills, MI	2033
200286	University of Pittsburgh at Johnstown	Johnstown, PA	2033
200304	Labette Community College	Parsons, KS	2033
200409	Pearl River Community College	Hattiesburg, MS	2033
200412	Kansas City Kansas Community College	Kansas City, KS	2033
200417	Kennebec Valley Community College	Fairfield, ME	2033
200440	Concorde Career College-North Hollywood	North Hollywood, CA	2033
200469	Concorde Career College-Memphis	Memphis, TN	2033
200470	Central Virginia Community College	Lynchburg, VA	2033
200478	Meridian Community College	Meridian, MS	2033
200481	Lincoln Land Community College	Springfield, IL	2033
200597	Concorde Career College-Dallas	Dallas, TX	2033
210422	University of Texas Health Sciences Center	San Antonio, TX	2028
200097	St. Catherine University	St. Paul, MN	2033
200130	Erie Community College	Williamsville, NY	2033
200268	Shawnee State University	Portsmouth, OH	2033
200324	Rhodes State College	Lima, OH	2033
200406	Copiah-Lincoln Community College	Natchez, MS	2033
200467	Luzerne County Community College	Nanticoke, PA	2033
510011	Northern Kentucky University	Highland Heights, KY	2028
510014	Kent State University at Ashtabula	Ashtabula, OH	2028

Probationary Accreditation Conferred

Probationary Accreditation is a temporary status* of accreditation conferred when an accredited program is not in compliance with one or more *Standards* and/or Policies, and progress reports submitted do not demonstrate correction of these deficiencies. Probationary Accreditation can also be conferred when a sponsor receives an adverse accreditation action as described in CoARC Policy 1.07. Following the conferral of Probationary Accreditation, the program must file a Probation Report as directed by the CoARC Executive Office. However, if at any time the program can rectify all the deficiencies that resulted in Probationary Accreditation, supported by CoARC's review of the Probation Report, and thereby achieve compliance with the *Standards*, the CoARC will consider removing probationary status. If compliance with all *Standards* is not demonstrated within two (2) consecutive years following conferral of Probationary Accreditation, accreditation will be withheld or withdrawn. In no case will probationary status exceed two years. If the program remains out of compliance with the *Standards* at the end of the first year of the two-year probationary period, the CoARC may withdraw accreditation unless it determines that the program is making a good faith effort to come into compliance with the *Standards.* A decision to confer probation is subject to reconsideration but cannot be appealed (See CoARC Policy 1.06). Enrolled students completing a program that is under Probationary Accreditation are considered graduates of a CoARC accredited program. Programs on Probationary Accreditation are prohibited from increasing cohort and enrollment numbers until Probationary Accreditation is removed. The CoARC requires the sponsor to complete a teach-out plan when: a program is placed on probation, requests inactive status, or when accreditation is withdrawn - voluntarily/involuntarily (see CoARC Policy 1.13).

Program #	Program Name	Location	Effective
200416	Northeast Mississippi Community College	Booneville, MS	11/3/2023
200556	Mercyhurst University	Erie, PA	11/3/2023
200589	Black River Technical College	Pocahontas, AR	11/3/2023
200591	Shelton State Community College	Tuscaloosa, AL	11/3/2023
200608	YTI Career Institute-Altoona	Altoona, PA	11/3/2023
200621	Antillean Adventist University	Mayaguez, PR	11/3/2023
200629	Eastern Oklahoma State College	McAlester, OK	11/3/2023
200632	Pierpont Community & Technical College	Fairmont, WV	11/3/2023

*This action does not become final until after the program has exhausted its rights to seek reconsideration (see CoARC Policy 1.07 – Reconsideration and Appeal).

Probationary Accreditation Removed**
**Following review of the Probation Report, Probationary Accreditation was removed, and the programs listed below resumed their previous accreditation status.

Program #	Program Name	Location	Effective
200208	Texas Southern University	Houston, TX	3/3/2023
200297	Lamar Institute of Technology	Beaumont, TX	11/3/2023

Probation Report Reviewed*
* Following a review of the Probation Report, Probationary Accreditation remains for the program listed below.

Program #	Program Name	Location	Next Review
200297	Lamar Institute of Technology	Beaumont, TX	Nov-23
200342	Tennessee State University	Nashville, TN	Nov-23
200419	Albany State University	Albany, GA	Nov-23
200478	Meridian Community College	Meridian, MS	Nov-23
200342	Tennessee State University	Nashville, TN	Mar-24
200419	Albany State University	Albany, GA	Mar-24
200478	Meridian Community College	Meridian, MS	Mar-24

Progress Reports Reviewed*
*All programs listed below are required to submit an additional Progress Report (PR).

For general information about progress reports, please visit Progress Reports - CoARC - Commission on Accreditation for Respiratory Care. For detailed information on the actions taken by the CoARC Board, please visit the Accreditation Actions document https://coarc.com/news-and-updates/meetings-and-third-partycomments/ for the specific Board meeting date.

Program #	Program Name	Location	Next CoARC Mtg
200122	Moraine Valley Community College	Palos Hills, IL	Nov-23
200129	Mt. Hood Community College	Gresham, OR	Nov-23
200156	Angelina College	Lufkin, TX	Nov-23
200218	Des Moines Area Community College	Ankeny, IA	Nov-23
200249	River Valley Community College	Claremont, NH	Nov-23
200260	Cincinnati State Tech Community College	Cincinnati, OH	Nov-23
200333	Community College of Rhode Island	Lincoln, RI	Nov-23
200343	Southern University at Shreveport	Shreveport, LA	Nov-23
200530	Northwest Kansas Technical College	Goodland, KS	Nov-23
200556	Mercyhurst University	Erie, PA	Nov-23
200557	Florida National University	Hialeah, FL	Nov-23
200559	Concorde Career Institute-Miramar	Miramar, FL	Nov-23
200586	Simi Institute/Excelsior College	Simi Valley, CA	Nov-23
200608	YTI Career Institute-Altoona	Altoona, PA	Nov-23
200621	Antillean Adventist University	Mayaguez, PR	Nov-23
200622	Horry Georgetown Technical College	Myrtle Beach, SC	Nov-23
200632	Pierpont Community & Technical College	Fairmont, WV	Nov-23
200633	Andrew College	Cuthbert, GA	Nov-23
200634	Jefferson State Community College	Birmingham, AL	Nov-23
200635	St. Clair County Community College	Port Huron, MI	Nov-23
200638	Trenholm State Community College	Montgomery, AL	Nov-23
200640	Liberty University	Lynchburg, VA	Nov-23
200326	Eastern Gateway Community College	Steubenville, OH	Nov-23
200061	University of DC Community College	Washington, DC	Nov-24
200122	Moraine Valley Community College	Palos Hills, IL	Nov-24
200218	Des Moines Area Community College	Ankeny, IA	Nov-24
200333	Community College of Rhode Island	Lincoln, RI	Mar-24
200493	Louisiana State University Health Shreveport	Shreveport, LA	Nov-24
200633	Andrew College	Cuthbert, GA	Nov-24
200634	Jefferson State Community College	Birmingham, AL	Nov-24
200638	Trenholm State Community College	Montgomery, AL	Nov-24

Progress Report Reviewed (Final)*

The CoARC requires a program to submit documentation addressing any *Standard* not met (i.e., a citation) as a progress report. The CoARC may request a Standardized Progress Report (series of questions developed by the CoARC) for a variety of deficiencies, including failing to meet thresholds for the following outcomes: retention, credentialing success, graduate and employer satisfaction, and on-time graduation rate. The decision to request a progress report is made by the Program Referee or the Executive Office during the accreditation review process. The progress report addressing the standard(s) with which the program has been found to be in non-compliance must be submitted before the specified deadline. The progress report will

constitute the basis for subsequent Commission action. If the program comes into compliance with all the CoARC *Standards*, the action will be to accept the report. If the report does not demonstrate compliance with the *Standards*, or if it was not submitted within the time frame specified in the request for the progress report, the Commission may either (1) request an additional progress report or (2) confer a Probationary Accreditation status.

*All Progress Reports were accepted as final for the programs listed below.

Program #	Program Name	Location	Next Re-Evaluation
200627	Mississippi Gulf Coast Community College	Gautier, MS	2024
200646	Missouri Western State University	St. Joseph, MO	TBD
200078	Indiana University of Pennsylvania	Pittsburgh, PA	2032
200102	East Los Angeles College	Monterey Park, CA	2032
200129	Mt. Hood Community College	Gresham, OR	2032
200156	Angelina College	Lufkin, TX	2024
200238	Oakland Community College	Bloomfield Hills, MI	2033
200249	River Valley Community College	Claremont, NH	2026
200260	Cincinnati State Tech Community College	Cincinnati, OH	2028
200343	Southern University at Shreveport	Shreveport, LA	2025
200530	Northwest Kansas Technical College	Goodland, KS	2030
200557	Florida National University	Hialeah, FL	2027
200559	Concorde Career Institute-Miramar	Miramar, FL	2027
200586	Simi Institute/Excelsior College	Simi Valley, CA	2029
200622	Horry Georgetown Technical College	Myrtle Beach, SC	2025
200635	St. Clair County Community College	Port Huron, MI	2024
200640	Liberty University	Lynchburg, VA	2025
200649	University of North Alabama	Florence, AL	TBD

Withhold Accreditation*

A program seeking Provisional Accreditation or Continuing Accreditation may have such accreditation status withheld if, following submission of a self-study and completion of an on-site evaluation, the accreditation review process confirms that the program is not in compliance with the Standards. A program that has had its accreditation status withheld can no longer admit students. The CoARC requires a sponsor to formulate and complete a teach-out plan when the CoARC acts to withhold/withdraw a program's accreditation (see Policy 1.13). Enrolled students who satisfactorily complete the program during the teach-out are considered graduates of a CoARC accredited program. *This action does not become final until after the program has exhausted its rights to seek reconsideration and to file an appeal (see CoARC Policy 1.06 – Reconsideration and Appeal).

Program #	Program Name	Location	Effective
	N/A		

Withdrawal Accreditation – Involuntary*

This status is conferred when an accredited program is not in compliance with the Accreditation Standards and has failed to address cited deficiencies to the satisfaction of the CoARC. Specific circumstances warranting a withdrawal of accreditation are described in CoARC Policy 1.057. A program that has had its accreditation status withdrawn cannot admit students. When the CoARC confers Withdrawal of Accreditation, the CoARC requires the sponsor to formulate and complete a teach-out plan for any students remaining in the program (see CoARC Policy 1.13). For programs that receive a Withdrawal of Accreditation status, enrolled students who satisfactorily complete the program teach-out are considered graduates of a CoARC accredited program.

Program #	Program Name	Degree Conferred	Location	Effective
	N/A			

*This action does not become final until after the program has exhausted its rights to seek reconsideration and to file an appeal (see CoARC Policy 1.06 – Reconsideration and Appeal).

Withdrawal Accreditation - Voluntary

This status is conferred when a sponsor notifies the CoARC that it wants its program(s) to be removed from the accreditation process. Sponsoring institutions may notify the CoARC of Voluntary Withdrawal of Accreditation, at any time, either for all activities of the program or for any program options. For programs that receive a 'Withdrawal of Accreditation – Voluntary' status, enrolled students who satisfactorily complete the teach-out are considered graduates of a CoARC accredited program (See CoARC Policy 1.06 for Reconsideration and Appeal Policy).

Program #	Program Name	Degree Conferred	Location	Effective
510003	Florida National University	BS	Hialeah, FL	2/23/2023
200651	Joyce University of Nursing & Health	AS	Draper, UT	3/10/2023
300035	Southern WV Community College	AAS	Mt. Gay, WV	5/7/2023
300006	University of Missouri at Mercy Hospital	BSHS	St. Louis, MO	5/13/2023
510033	Platt College-Alhambra	BS	Alhambra, CA	8/16/2023
200088	Delaware County Community College	AAS	Upland, PA	12/31/2023
200655	Utica University-St. Petersburg	AS	St. Petersburg, FL	12/31/2023
200663	York College of PA	AS	York, PA	12/31/2023

Inactive Accreditation

Base programs and/or program options on Administrative Probation or with a status of Continuing Accreditation without any pending Progress Reports are eligible to request inactive status for up to two years. No students may be enrolled or matriculated in the program while the program is on inactive status. Programs offering additional options may request voluntary inactive status for these program options without affecting the accreditation status of the base program. The Inactive Status does not affect the date of the next scheduled site visit. During inactive status, programs must continue to submit documents (e.g., annual reports) and pay applicable fees unless otherwise directed by the CoARC. The CoARC requires a sponsor to formulate and complete a teach-out plan when a program requests inactive status (see CoARC Policy 1.13).

Program #	Program Name (date Admin Pro Conferred)	Location	Reason	Date Admin Pro Removed
	N/A			

Administrative Probation

Administrative Probation is conferred when a program, or any program option with a separate CoARC ID number, does not comply with any of the CoARC's administrative requirements. Administrative Probation status will not affect the eligibility of its students for the NBRC Examinations. During a period of Administrative Probation, all listings of a program's accreditation status must include the words "Administrative Probation." Following the conferral of Administrative Probation, failure of the program to provide requested material/fees, etc., will result in the program's being placed on the agenda of the next scheduled CoARC meeting for consideration of Withhold or Withdrawal of Accreditation (see CoARC Accreditation Policy 1.054 and 1.057). If the conferral of Administrative Probation was for failure to meet personnel requirements, the deficiency will be brought before the CoARC Board at its next meeting and may result in an adverse accreditation decision (see CoARC Accreditation Policy 6.011I).

Program #	Program Name (date Admin Pro Conferred)	Location	Reason	Date Admin Pro Removed
200157	Napa Valley College (2/28/2023)	Napa, CA	MD Vacancy	6/1/2023
200507	Pima Medical Institute (5/10/2023)	Las Vegas, NV	DCE KPA	11/1/2023
210290	Gannon University (7/27/2023)	Erie, PA	No RCS	11/13/2023
400290	Gannon University (7/27/2023)	Erie, PA	No RCS	10/5/2023
210290	Gannon University (8/22/2023)	Erie, PA	PD Vacancy	11/1/2023
400290	Gannon University (8/22/2023)	Erie, PA	PD Vacancy	11/1/2023
200290	Texas Southmost College (11/21/2023)	Brownsville, TX	DCE KPA	

Site Visits Conducted

A site visit is the most complex aspect of the accreditation process. It is also the most visible function of the CoARC. Site visitation teams usually have two members, one of whom may (and in some cases, must) be a physician. Site visitors are trained to be objective on-site observers and gatherers of data, which are then reported back to the CoARC Referee. During the campus visit, site visitors interact with all the communities of interest, review pertinent documents, and, when appropriate, inspect program facilities. Through this process, the CoARC ensures that the documentation provided to the CoARC prior to the visit supports the program's analysis and action plans related to its resources and outcomes. Further, the visit offers an opportunity to confirm the extent to which the program meets the Standards. Further details regarding the site visit process can be found at Site Visitor Resources - CoARC - Commission on Accreditation for Respiratory Care. In 2023, there were a total of 55 site visits listed below.

Program #	Program Name	Location	State	Site Visit Dates in 2023
200065	Highline College (200065)	Des Moines	WA	10/30/23
200085	Grossmont College (200085)	El Cajon	CA	10/26/23
200097	St. Catherine University (200097)	St. Paul	MN	09/18/23
200130	Erie Community College (200130)	Williamsville	NY	07/31/23
200153	County College of Morris (200153)	Randolph	NJ	04/10/23
200157	Napa Valley College (200157)	Napa	CA	11/13/23
200175	Malcolm X College (200175)	Chicago	IL	04/17/23
200268	Shawnee State University (200268)	Portsmouth	OH	06/22/23
200303	Midland College (200303)	Midland	TX	10/19/23
200324	James A. Rhodes State College (200324)	Lima	OH	09/28/23
200406	Copiah-Lincoln Community College (200406)	Natchez	MS	06/29/23
200409	Pearl River Community College (200409)	Hattiesburg	MS	02/16/23
200412	Kansas City Kansas Community College (200412)	Kansas City	KS	04/20/23
200418	Ivy Tech Community College-Lafayette (200418)	Lafayette	IN	10/05/23
200440	Concorde Career College-North Hollywood (200440)	North Hollywood	CA	01/23/23
200467	Luzerne County Community College (200467)	Nanticoke	PA	04/20/23
200470	Central Virginia Community College (200470)	Lynchburg	VA	02/20/23
200474	Oconee Fall Line Technical College (200474)	Dublin	GA	09/18/23
200477	Big Sandy Community & Technical College (200477)	Paintsville	KY	10/19/23
200480	Coastal Pines Technical College (200480)	Waycross	GA	11/13/23
200481	Lincoln Land Community College (200481)	Springfield	IL	04/17/23
200489	Southwestern Illinois College (200489)	Belleville	IL	11/16/23
200597	Concorde Career College-Dallas (200597)	Dallas	TX	01/23/23
200611	Mandl School College of Allied Health (200611)	New York	NY	12/04/23
200619	Jacksonville State University (200619)	Jacksonville	AL	10/26/23
200625	Utah Valley University (200625+)	Lehi	UT	11/27/23
200626	Jackson State Community College (200626)	Jackson	TN	11/30/23
200645	Rowan University (200645)	Sewell	NJ	02/02/23
200647	Cabarrus College of Health Sciences (200647)	Concord	NC	04/20/23
200648	Riverside College of Health Careers (200648)	Newport News	VA	05/08/23
200649	University of North Alabama (200649)	Florence	AL	05/08/23
200653	St. Mary's Medical Center (200653)	Huntington	WV	08/10/23
200654	Labouré College of Healthcare (200654)	Milton	MA	01/19/23
200656	Coastal Alabama Community College (200656)	Bay Minette	AL	09/14/23
200657	American Career College-Los Angeles (200657)	Los Angeles	CA	04/06/23
200659	Joliet Junior College (200659)	Joliet	IL	05/15/23
200660	South College- Knoxville (200660)	Knoxville	TN	12/07/23

200662	University of Nebraska Medical Center (200662)	Omaha	NE	09/27/23
210050	St. Louis CC-Florissant Valley (210050)	St. Louis	MO	03/30/23
210422	University of Texas Health Science Ctr (210422)	San Antonio	TX	05/01/23
220176	University of Arkansas for Medical Scien (220176)	Little Rock	AR	05/04/23
300038	University of Saint Francis (300038)	Crown Point	IN	01/11/23
300039	Gaston College (300039)	Dallas	NC	08/24/23
500031	Ursuline College (500031)	Pepper Pike	OH	09/18/23
510014	Kent State University at Ashtabula (510014)	Ashtabula	OH	09/25/23
510025	Rowan University (510025)	Glassboro	NJ	02/02/23
510027	Utah Valley University (510027)	Orem	UT	11/27/23
510028	University of Saint Francis (510028)	Fort Wayne	IN	05/01/23
510029	Blessing-Rieman College of Nursing (510029)	Quincy	IL	04/24/23
510030	Thomas Jefferson Univ/Natl Jewish Health (510030)	Philadelphia	PA	03/23/23
520032	University of Nebraska Medical Center (520032)	Omaha	NE	09/28/23
200060+	University of Southern Indiana (200060+)	Evansville	IN	10/12/23
200069+	Boise State University (200069+)	Boise	ID	04/13/23
200650+	University of Saint Francis (200650+)	Fort Wayne	IN	01/12/23
200652+	Thomas Jefferson Univ/Natl Jewish Health (200652+)	Philadelphia	PA	03/22/23

Applications for Substantive Change

A substantive change is any modification, affecting either the program or the program's sponsor, that the CoARC has determined to have the potential to affect program outcomes and thus requires the program to notify the CoARC prior to its occurrence (Substantive Changes - CoARC - Commission on Accreditation for Respiratory Care). The sponsor must report substantive change(s) to the CoARC for approval prior to the intended date of implementation, except for either an adverse action by the sponsor's institutional accrediting agency, a change in the program sponsor's institutional accreditation status or changes that are emergent or unexpected (see Accreditation Policy 1.07). While the decision to implement a substantive change is an institutional prerogative and/or responsibility, the CoARC is obligated to assess the potential of any substantive change to adversely affect the program's ability to meet the *Standards* and Policies.

Program #	Institution	State	Policy #	Approved
200643	UNC Wilmington	NC	9.10	1/4/2023
200501	Ivy Tech Community College-Sellersburg	IN	9.11	1/6/2023
200218	Des Moines Area Community College	IA	9.04	1/6/2023
200449	Gulf Coast State College	FL	9.10	1/19/2023
200169	Pueblo Community College	CO	9.11	2/1/2023
500001	UNC Charlotte	NC	9.04	2/3/2023
200598	Hutchinson Community College	KS	9.04	2/5/2023
200300	Daytona State College	FL	9.04	2/23/2023
200417	Kennebec Valley Community College	ME	9.09	3/17/2023
200275	Tidewater Community College	VA	9.04	3/31/2023
200655	Utica University-St. Petersburg Campus	FL	9.09	3/31/2023

200357	Metropolitan Community College	NE	9.04	4/10/2023
200652	Thomas Jefferson Univ/Nat'l Jewish Health	PA	9.09	4/11/2023
200197	Texas State University	TX	9.08	5/2/2023
200608	YTI Career Institute-Altoona	PA	9.09	5/3/2023
200379	Vermont Technical College	VT	9.09	5/5/2023
200563	Concorde Career College-Portland	OR	9.08	5/15/2023
200070	South Dakota State University	SD	9.04, 9.08, 9.09	7/18/2023
200640	Liberty University	VA	9.04	7/21/2023
200204	Delgado Community College	LA	9.04, 9.08	7/28/2023
200450	Collins Career Technical College	OH	9.04	7/28/2023
200340	Northland Community & Technical College	MN	9.09	8/3/2023
200379	Vermont State University	VT	9.04	8/11/2023
200222	South Plains College-Lubbock	TX	9.04, 9.08	8/17/2023
200398	East Tennessee State University	TN	9.09	9/1/2023
200558	Pennsylvania College of Health Sciences	PA	9.01	10/5/2023
200297	Lamar Institute of Technology	TX	9.09	10/6/2023
200255	Wallace State Community College	AL	9.04	10/10/2023
200662	University of Nebraska Medical Center	NE	9.09	11/1/2023
200132	Crafton Hills College	CA	9.04	11/1/2023
200349	Berkshire Community College	MA	9.01	11/1/2023
200617	Carlow University	PA	9.04	11/1/2023
200226	GateWay Community College	AZ	9.04	11/30/2023
200281-220281	Bellarmine University	KY	9.09	11/28/2023

Changes in Program Information and Personnel

The CoARC Executive Office is responsible for maintaining accurate programmatic information. Programs are required to report changes in a program name, address, and certain personnel to the CoARC in a timely manner. The following is a list of reported changes from January 1, 2019, through December 31, 2023:

Type of Change Reported		Number Reported in 2019	Number Reported in 2020	Number Reported in 2021	Number Reported in 2022	Number Reported in 2023
Change in Program Name		1	2	2	4	4
Change in Program Address		2	2	2	2	4
Change in Billing Contact		19	25	31	24	20
Change in President/CEO		75	67	51	60	71
Change in Dean		94	89	79	104	81
Change in Program Director	Permanent	60	63	59	81	70
	Transitional	0	1	5	1	4

	Temporary	15	14	9	11	13
	Acting	5	4	0	1	0
Change in Director of Clinical Education	Permanent	107	69	86	101	86
	Transitional	0	7	16	17	14
	Temporary	31	27	20	26	17
	Acting	5	1	0	2	1
Change in Medical Director	Permanent	39	32	36	42	41
	Temporary	2	3	2	0	1
Change in Co-Medical Director		6	6	4	4	3
Change in Primary Sleep Specialist Instructor		0	0	0	0	0
Total # of Changes Reported		461	412	402	480	430

Of the 70 permanent changes in Program Director in 2023, 16 were due to retirement, 28 to resignation, 16 to re-assignment, and 10 were due to other reasons.

2023 ANNUAL REPORT OF CURRENT STATUS (RCS)

Overview

The CoARC defines program outcomes as *"performance indicators that reflect the extent to which the goals of the program are achieved and by which program effectiveness is documented. Outcomes include but are not limited to program completion rates, job placement rates, certification pass rates, and program satisfaction"* (*2020 Standards, p.50*). Outcomes measures used by the CoARC reflect metrics of program effectiveness and student achievement. The CoARC uses an outcomes-centered approach in its accreditation review process. This approach focuses on a specific set of outcomes which include the following: a) Graduate performance on the national credentialing examination for entry into practice; b) Programmatic retention; c) Graduate satisfaction with the program; d) Employer satisfaction with program graduates, and e) Job placement.

The CoARC believes that continuous assessment of the educational quality of a respiratory care program (inclusive of distance education modalities and program options) will maximize the academic success of the enrolled students in an accountable and cost-effective manner. To achieve this outcome, the assessment must be broad-based, systematic, and designed to promote the achievement of program goals. The CoARC routinely monitors programmatic outcomes in relation to the CoARC thresholds via program submission of an Annual Report of Current Status (RCS). The CoARC provides definitions of each of the minimum performance criteria in Standard 3.09, its *Accreditation Policies & Procedures Manual*, and on its website (CoARC Outcomes Thresholds - CoARC - Commission on Accreditation for Respiratory Care).

In May 2011, the CoARC launched its online Annual RCS system with a deadline for submission of July 1, 2011. In preparation for this launch, the CoARC redesigned its reporting tool. The focus of this redesign was to simplify and increase the accuracy of data entry for programs. To achieve this goal, the CoARC adopted a reporting system that is *driven by student data*.   Programs can now capture and record cohort information that includes individual student data throughout their enrollment in the program. Once a cohort has been created, and students for that cohort have been entered into the reporting system, the program can update student data, such as graduation, retention, credentials earned, and job placement, at any time. This student-specific information is then used to automatically generate aggregate programmatic outcomes data.

Outcomes are updated on an annual basis with the submission of each program's Annual RCS. The CoARC works with programs throughout the data submission and validation phases to ensure that these performance data are accurate.

The CoARC completed its verification of the outcomes data from the 2023 Annual Report of Current Status (RCS) in July 2023. A total of 411 entry into practice program and program option annual reports were used to generate the data in this section. Programs under accreditation review (i.e., Approvals of Intent and some Provisionally Accredited) were not included in the data analysis since they did not have outcomes data to report.

These data are reported by program personnel to the CoARC and reflect the aggregate data for the three-year period being reported (January 1, 2020, through December 31, 2022, for the 2023 RCS reports accepted by the CoARC Executive Office). *Note: The data do not reflect any changes made to the RCS data after the 2023 RCS reports were accepted. Any such changes will be reported in the 2024 RCS reports.*

Total Applications

Each year, programs are required to report the number of applications they receive. **Figure 8** shows the total number of applications to entry into practice RC programs from 2010 through 2022. Total applications reached a peak of 23,430 in 2011 and then decreased by 42% between 2011 and 2016. The number of applications increased by 21% between 2016 and 2018. The most recent year, 2022, showed a 5.1% decrease compared to 2021. The mean number of applications per program was 37 in 2022, 40 in 2021, 38 in 2020, 39 in 2019, 41 in 2018, 39 in 2017, 34 in 2016, 35 in 2015, 47 in 2014, 46 in 2013, and 52 from 2010 through 2012. The median number of applications per program was 28 in 2022, 30 in 2021 and 2020, 2019, 2018, 30 in 2017, 27 in 2016, 35 in 2015, 32 in 2014, 34 in 2013, 38 in 2012, 40 in 2011, and 38 in 2010.

Figure 8-Total Number of RC Entry into Practice Applications between 2010-2022

RC Applications by Degree Offered

Degree Offered	2022 Applications (N=411)		2021 Applications (N=404)		2020 Applications (N=413)		2019 Applications (N=402)		2018 Applications (N= 400)	
	Total	Mean	Total	Mean	Total	Mean	Total	Mean	Total	Mean
Associate	12,906	39	13,963	42	13,423	40	13,495	40	14,184	42
Baccalaureate	1,842	26	1,754	28	1,979	29	1,987	32	2,039	33
Masters	336	48	311	52	232	46	278	70	196	49

Table 8 –RC Entry into Practice Applications by Degree Offered between 2018 and 2022

Table 8 shows the annual respiratory care applications in relation to the degree offered. There were 15,084 applications in 2022. The 334 programs offering associate degrees accounted for 85.6% of the total number of applications in 2022. This is a 7.6% decrease compared to 2021 for this category and a 9% decrease when compared to 2018. The mean number of applications per program for this category was 39 in 2022, 42 in 2021, 40 in 2020 and 2019, and 42 in 2018.

The 70 programs offering baccalaureate degrees accounted for 12.2% of the total number of applications in 2021. This is a 5.02% increase when compared to 2021 for this category, and a 9.7% decrease when compared to 2018. The mean number of applications per program for this category was 26 in 2022, 28 in 2021, 29 in 2020, 32 in 2019, and 33 for 2018.

The seven programs offering master's degrees accounted for 2.2% of the total number of applications in 2021. This is an 8% increase compared to 2021 for this category and a 71% increase when compared to 2018. The mean number of applications per program for this category was 48 in 2022, 52 in 2021, 46 in 2020, 70 in 2019, and 49 for 2018.

RC Applications by Institutional Type

Table 9 – RC Entry into Practice Applications by Institutional Type between 2018 and 2022										
Institutional Type	**2022 Applications (N=411)**		**2021 Applications (N=404)**		**2020 Applications (N=413)**		**2019 Applications (N=402)**		**2018 Applications (N=400)**	
	Total	Mean	**Total**	Mean	**Total**	Mean	**Total**	Mean	**Total**	Mean
Community or Junior College	**9,470**	39	**10,270**	42	**9,863**	41	**9,673**	40	**10,078**	43
Four-Year College or University	**2,583**	27	**2,489**	28	**2,540**	26	**2,959**	33	**3,085**	34
Technical or Vocational School	**2,272**	45	**2,308**	45	**2,609**	47	**2,352**	44	**2,309**	44
Academic HSC/ Medical Center	**231**	29	**267**	33	**293**	29	**188**	24	**185**	23
Career or Technical College	**321**	36	**522**	58	**131**	33	**394**	44	**474**	47
U.S. Military	**207**	104	**172**	86	**198**	99	**194**	97	**228**	144

Table 9 shows the annual applications for respiratory care programs by institutional type. The 245 programs offered in community or junior colleges accounted for 62.8% of the 15,084 applications in 2022. This is still the largest category. There was a 7.8% decrease in applications to such institutions compared to 2021, and a 6% decrease compared to 2018. The mean number of applications per program for this category was 39 in 2022, 42 in 2021, 41 in 2020, 40 in 2019, and 43 in 2018.

The 97 programs offered in four-year colleges or universities accounted for 17.1% of the total number of applications in 2022. This is a 3.7% increase compared to 2021, and a 16.3% decrease compared to 2018. The mean number of applications per program for this category was 27 in 2022, 28 for 2021, 26 in 2020, 33 2019, and 34 in 2018.

The 50 programs offered in technical or vocational schools accounted for 15.1% of the total number of applications in 2022. This is a 1.5% decrease compared to 2021 and a 1.6% decrease compared to 2018. The mean number of applications per program was 45 in 2022, 45 in 2021, 47 in 2020, and 44 in 2019 and 2018.

The eight programs offered in academic HSC/medical centers accounted for 1.5% of the total number of applications in 2022. This is a 13.5% decrease compared to 2021, and a 24.9% increase compared to 2018. The mean number of applications per program was 29 in 2022, 33 in 2021, 29 in 2020, 24 in 2019, and 23 in 2018.

The nine programs offered in career or technical colleges accounted for 2.1% of the total number of applications in 2022. This is a 38.5% decrease compared to 2021, and a 32.3% decrease compared to 2018. The mean number of applications per program was 36 in 2022, 58 in 2021, 33 in 2020, 44 in 2019, and 47 in 2018.

The two programs offered in the U.S. military accounted for 1.4% of the total number of applications in 2021. This is a 20% increase compared to 2020, and a 9.2% decrease compared to 2019. The mean number of applications per program was 104 in 2022, 86 in 2021, 99 in 2020, 97 in 2019, and 144 in 2018.

RC Applications by Institutional Control/Funding

Table 10 – RC Entry into Practice Applications by Institutional Control/Funding between 2018 and 2022										
Institutional Control/Funding	**2022 Applications (N=411)**		**2021 Applications (N=404)**		**2020 Applications (N=413)**		**2019 Applications (N=402)**		**2018 Applications (N=400)**	
	Total	Mean	**Total**	Mean	**Total**	Mean	**Total**	Mean	**Total**	Mean
Public/Not-For-Profit	**11,480**	36	**12,172**	37	**11,958**	36	**11,967**	37	**12,381**	39
Private/For-Profit (Proprietary)	**2,573**	63	**2,940**	72	**2,582**	63	**2,597**	62	**2,492**	59
Private/Not-For-Profit	**824**	23	**744**	22	**672**	19	**1,002**	26	**1,258**	33
Federal Government	**207**	104	**172**	86	**422**	70	**194**	97	**288**	144

Table 10 shows the annual applications to respiratory care programs in relation to institutional control/funding. The 332 programs controlled/funded by public/not-for-profit institutions accounted for 76.1% of the 15,084 applications in 2022. This is still the largest category. There was a 5.7% decrease compared to 2021 and a 7.3% decrease compared to 2018. The mean number of applications per program for this category was 36 in 2022, 37 in 2021, 36 in 2020, 37 in 2019, and 39 in 2018.

The 41 programs controlled/funded by private/for-profit (proprietary) institutions accounted for 17% of the total number of applications in 2022. This is a 12.5% decrease compared to 2021 and a 3.3% increase compared to 2018. The mean number of applications per program for this category was 63 for 2022, 72 for 2021, 63 in 2020, 62 in 2019, and 59 in 2018.

The 36 programs controlled/funded by private/not-for-profit institutions accounted for 5.5% of the total number of applications in 2022. This is a 10.8% increase compared to 2021, and a 34.5% decrease compared to 2018. The mean number of applications per program for this category was 23 for 2022, 22 in 2021, 19 in 2020, 26 in 2019, and 33 in 2018.

The two programs controlled/funded by the federal government accounted for 1.4% of the total number of applications in 2022. This is a 20.3% increase compared to 2021, and a 28% decrease compared to 2018. The mean number of applications per program was 104 in 2022, 86 in 2021, 70 in 2020, 97 in 2019, and 144 in 2018.

RC Entry into Practice Applications by State (including D.C. and PR) and Degree

Table 11 provides data on applications to respiratory care programs for 2017-2022 by state and degree offered. California continues to have the largest (17.2% of total in 2022) number of applications.

State (# of programs reporting)	Degree	2022 Applications (N=411)	2021 Applications (N=404)	2020 Applications (N=413)	2019 Applications (N=402)	2018 Applications (N=400)	2017 Applications (N=401)
AL (n=6)	**Total**	**223**	**220**	**243**	**249**	**341**	**288**
5	Associate	181	185	189	202	255	214
1	Baccalaureate	42	35	54	47	86	73
0	Masters	N/A	N/A	N/A	N/A	N/A	1
AR (n=6)	**Total**	**156**	**196**	**255**	**257**	**154**	**215**
5	Associate	130	170	219	231	140	208
1	Baccalaureate	26	26	36	26	14	7
AZ (n=5)	**Total**	**383**	**436**	**472**	**325**	**471**	**315**
5	Associate	383	436	472	325	471	315
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A
CA (n=34)	**Total**	**2,597**	**2,778**	**2,384**	**2,582**	**2,530**	**2,314**
33	Associate	2,548	2,730	2,340	2,532	2,488	2,269
1	Baccalaureate	49	48	44	50	42	45
CO (n=4)	**Total**	**250**	**260**	**294**	**262**	**362**	**268**
4	Associate	250	260	294	262	362	268
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A
CT (n=5)	**Total**	**186**	**211**	**191**	**233**	**150**	**156**
4	Associate	169	196	183	204	130	142
1	Baccalaureate	17	15	8	29	20	14
DC (n=1)	**Total**	**8**	**11**	**14**	**12**	**6**	**12**
1	Associate	8	11	14	12	6	12
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A
DE (n=2)	**Total**	**34**	**25**	**29**	**35**	**40**	**64**
2	Associate	34	25	29	35	40	64
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A
FL (n=25)	**Total**	**1024**	**1095**	**995**	**1,027**	**987**	**1,004**
22	Associate	976	1054	947	955	930	963
2	Baccalaureate	48	41	48	72	57	41
1	Masters	0	N/A	N/A	N/A	N/A	N/A
GA (n=16)	**Total**	**385**	**436**	**442**	**416**	**383**	**382**
11	Associate	193	244	238	250	217	242
4	Baccalaureate	176	179	185	149	155	127
1	Masters	16	13	19	17	11	13
HI (n=1)	**Total**	**22**	**25**	**25**	**25**	**30**	**30**
1	Associate	22	25	25	25	30	30
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A

State (# of programs reporting)	Degree	2022 Applications (N=411)	2021 Applications (N=404)	2020 Applications (N=413)	2019 Applications (N=402)	2018 Applications (N=400)	2017 Applications (N=401)
IA (n=6)	Total	129	107	165	212	187	164
6	Associate	129	107	165	212	187	164
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A
ID (n=2)	Total	50	57	51	79	115	93
1	Associate	10	15	6	38	40	42
1	Baccalaureate	40	42	45	41	75	51
IL (n=13)	Total	471	481	462	455	377	394
11	Associate	384	379	371	406	350	362
1	Baccalaureate	1	6	0	N/A	N/A	N/A
1	Masters	86	96	91	49	27	32
IN (n=12)	Total	462	744	435	374	411	382
10	Associate	411	689	352	313	330	321
2	Baccalaureate	51	55	83	61	81	61
KS (n=9)	Total	186	212	183	237	260	196
8	Associate	170	182	165	201	224	176
1	Baccalaureate	16	30	18	36	36	20
KY (n=13)	Total	283	279	336	286	332	335
10	Associate	258	234	293	230	295	298
2	Baccalaureate	25	44	41	49	29	31
1	Masters	0	1	2	7	8	1
LA (n=9)	Total	156	175	174	181	208	158
6	Associate	124	140	129	149	176	119
3	Baccalaureate	32	35	45	32	32	39
MA (n=6)	Total	122	159	170	142	167	188
6	Associate	122	159	170	142	167	188
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A
MD (n=6)	Total	191	184	211	228	243	245
5	Associate	161	149	161	188	193	195
1	Baccalaureate	30	35	50	40	50	50
ME (n=2)	Total	116	88	91	84	43	40
2	Associate	116	88	91	84	43	40
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A
MI (n=11)	Total	264	324	381	351	363	454
11	Associate	264	324	381	351	363	454
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A
MN (n=5)	Total	120	112	130	88	137	118
3	Associate	93	92	92	44	92	85
2	Baccalaureate	27	20	38	44	45	33

State (# of programs reporting)	Degree	2022 Applications (N=411)	2021 Applications (N=404)	2020 Applications (N=413)	2019 Applications (N=402)	2018 Applications (N=400)	2017 Applications (N=401)
MO (n=10)	Total	135	163	187	170	195	128
5	Associate	108	139	160	157	170	103
5	Baccalaureate	27	24	27	13	25	25
MS (n=9)	Total	486	479	505	413	382	382
9	Associate	486	479	505	413	382	382
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A
MT (n=2)	Total	29	22	14	19	26	33
2	Associate	29	22	14	19	26	33
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A
NC (n=15)	Total	506	519	607	571	640	600
15	Associate	506	519	607	571	640	600
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A
ND (n=3)	Total	25	19	22	20	26	23
0	Associate	N/A	N/A	N/A	N/A	N/A	N/A
2	Baccalaureate	25	18	22	20	26	21
1	Masters	0	1	0	N/A	N/A	2
NE (n=3)	Total	80	74	78	76	85	85
3	Associate	80	74	78	76	81	79
0	Baccalaureate	N/A	N/A	N/A	N/A	4	6
NH (n=1)	Total	10	12	8	8	10	16
1	Associate	10	12	8	8	10	16
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A
NJ (n=5)	Total	121	149	150	144	142	128
4	Associate	121	149	150	144	142	128
1	Baccalaureate	0	N/A	N/A	N/A	N/A	N/A
NM (n=6)	Total	93	82	104	111	126	123
6	Associate	93	82	104	111	126	123
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A
NV (n=3)	Total	275	258	233	205	205	154
2	Associate	160	235	210	205	205	154
1	Baccalaureate	15	23	23	N/A	N/A	N/A
NY (n=13)	Total	771	745	727	738	791	705
9	Associate	582	635	588	644	699	618
4	Baccalaureate	189	110	139	94	92	87
OH (n=22)	Total	520	514	574	596	672	730
17	Associate	369	394	433	418	506	574
5	Baccalaureate	151	120	141	178	166	156

State (# of programs reporting)	Degree	2022 Applications (N=411)	2021 Applications (N=404)	2020 Applications (N=413)	2019 Applications (N=402)	2018 Applications (N=400)	2017 Applications (N=401)
OK (n=6)	Total	140	154	207	247	241	149
6	Associate	140	154	207	247	241	149
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A
OR (n=3)	Total	113	136	142	134	125	110
2	Associate	95	123	122	114	105	95
1	Baccalaureate	18	13	20	20	20	15
PA (n=21)	Total	763	752	750	897	904	864
13	Associate	488	484	440	522	509	504
8	Baccalaureate	275	268	310	375	395	360
PR (n=1)	Total	15	15	12	7	13	17
1	Baccalaureate	15	15	12	7	13	17
RI (n=2)	Total	35	46	55	55	61	79
2	Associate	35	46	55	55	61	79
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A
SC (n=7)	Total	149	145	167	143	149	175
7	Associate	149	145	167	143	149	175
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A
SD (n=2)	Total	20	19	21	32	24	30
2	Associate	20	19	21	32	24	30
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A
TN (n=10)	Total	389	383	375	410	454	403
7	Associate	290	296	290	329	353	300
3	Baccalaureate	99	87	85	81	101	103
TX (n=35)	Total	1,694	1,665	1,458	1,430	1,588	1,622
29	Associate	1,294	1,112	1,141	964	1,189	1,202
4	Baccalaureate	166	181	197	261	249	300
2	Master's	234	200	120	205	150	120
UT (n=6)	Total	132	135	158	279	369	224
1	Associate	21	20	45	158	240	124
5	Baccalaureate	111	115	113	121	129	100
VA (n=7)	Total	227	208	218	210	206	246
5	Associate	176	164	180	175	181	174
2	Baccalaureate	51	44	38	35	25	72
VT (n=1)	Total	15	23	20	25	44	40
1	Associate	15	23	20	25	44	40
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A
WA (n=5)	Total	178	193	235	194	195	184
2	Associate	96	78	90	98	133	144
3	Baccalaureate	82	115	145	96	62	40

State (# of programs reporting)	Degree	2022 Applications (N=411)	2021 Applications (N=404)	2020 Applications (N=413)	2019 Applications (N=402)	2018 Applications (N=400)	2017 Applications (N= 401)
WI (n=7)	**Total**	**232**	**246**	**214**	**253**	**233**	**212**
7	Associate	232	246	214	253	233	212
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A
WV (n=5)	**Total**	**197**	**243**	**246**	**221**	**205**	**186**
4	Associate	187	233	234	211	195	170
1	Baccalaureate	10	10	12	10	10	16
WY (n=1)	**Total**	**16**	**14**	**14**	**12**	**11**	**15**
1	Associate	16	14	14	12	11	15
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A

Total New Enrollments

Programmatic enrollment is deemed by the CoARC to occur when a student enrolls in the first core respiratory care course, i.e., a non-survey/non-prerequisite course available only to students matriculated in the respiratory care program. This may be different than the enrollment or matriculation date determined by the institution. This definition is used for calculating programmatic retention and maximum annual enrollment. **Figure 9** shows total new enrollments from 2010 through 2022. Enrollments for 2010 through 2022 are compared to the total maximum annual enrollment capacity[1]. The CoARC did not track maximum annual enrollment capacity prior to 2010. The data show new enrollments reaching 61% of maximum annual enrollment capacity in 2022. 64% of maximum annual enrollment capacity in 2021, 61% of maximum annual enrollment capacity in 2020, 63% of maximum annual enrollment capacity in 2019, 65% of maximum annual enrollment capacity in 2018, 59% of maximum annual enrollment capacity in 2017, 61% of capacity in 2016, 64% in 2015, 67% of capacity in 2014, 68% of capacity in 2013, 71% of capacity in 2012, 72% of capacity in 2011, and 78% of capacity in 2010. For 2022, 8% (34 of the 411) of programs reported new enrollments reaching maximum annual enrollment capacity, which was a 1% increase from the previous year. Of these 34 programs, 19 offered the AAS degree, 11 offered the AS degree, and four offered the BS degree. The 34 programs were located in 21 different states.

The mean maximum annual enrollment capacity per program was 30 in 2022, 2021, 2020, 2019, 2018, and 2017, 31 in 2016, 32 in 2015 and 2014, 31 in 2013 and 2012, and 32 in 2011 and 2010. The mean number of new enrollments per program was 18 in 2022, 19 in 2021, 2020, 2019, 20 in 2018, 18 in 2017, 19 in 2016, 20 in 2015, 21 in 2014 and 2013, 22 in 2012, 23 in 2011, and 24 in 2010. The median number of new enrollments per program was 15 in 2022, 17 in 2021, 19 in 2020, 17 in 2019 and 2018, 16 in 2017, 17 in 2016, 18 in 2015, 25 in 2014, 18 in 2013, 19 in 2012 and 2011, and 20 in 2010. There was a 3.7% decrease in new enrollments compared to 2021. There was a 1.8% increase in new enrollments in 2022 compared to 2017. Since its peak in 2010, there has been a 29.9% decrease in new enrollments.

Figure 9-Total New Entry into Practice RC Program and Satellite Enrollments and Maximum Annual Enrollment Capacities between 2010 and 2022

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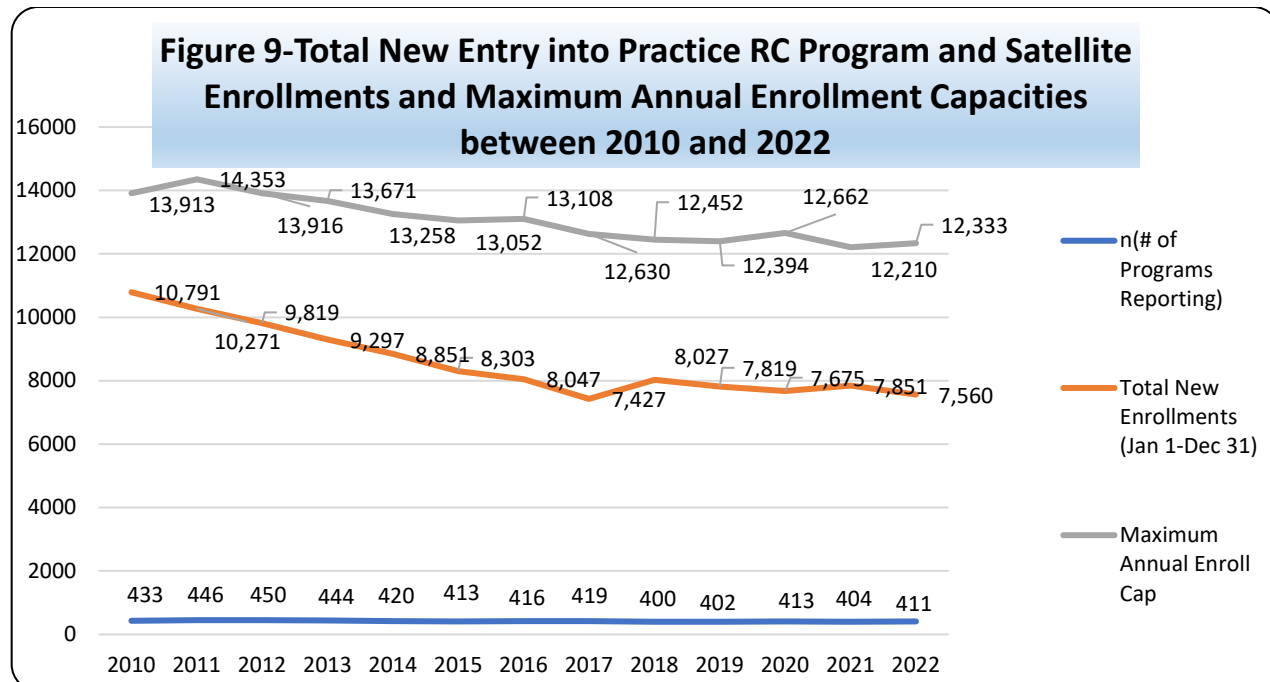
[1] The *maximum annual enrollment capacity* is defined as *the maximum number of new students that could be enrolled in a calendar year (defined as January 1 through December 31)*. This number is established by the CoARC based on information provided by the program and can only be increased upon approval of a request for a substantive change (see CoARC Policy 9.0).

New RC Enrollments by Degree Offered

Table 12 – RC Entry into Practice New RC Enrollments by Degree Offered between 2018 and 2022												
Degree Offered	**2022 Max Annual Enrollment Capacity**		**2022 New Enrollments (N=411)**		**2021 New Enrollments (N=404)**		**2020 New Enrollments (N=413)**		**2019 New Enrollments (N=402)**		**2018 New Enrollments (N=400)**	
	Total	Mean	**Total**	Mean	**Total**	Mean	**Total**	Mean	**Total**	Mean	**Total**	Mean
Associate	**10,445**	30	**6,560**	18	**6,814**	20	**6,549**	19	**6,793**	20	**6,989**	21
Baccalaureate	**1,720**	24	**933**	13	**963**	15	**1,041**	15	**956**	15	**992**	16
Masters	**168**	24	**67**	10	**74**	17	**85**	17	**66**	17	**46**	12

Table 12 shows the new annual enrollments in respiratory care in relation to the degree offered. The 334 programs offering associate degrees accounted for 86.8% of the 7,560 new enrollments in 2022. This is a 3.7% decrease compared to 2021 for this category and a 6.1% decrease compared to 2018. New enrollments in associate degree programs reached 62.8% of maximum capacity in 2022. The mean number of new enrollments per program for this category was 18 in 2022, 20 in 2021, 19 in 2020, 20 in 2019, and 21 for 2018.

The 70 programs offering baccalaureate degrees accounted for 12.3% of the total number of new enrollments in 2022. This is a 3.1% decrease compared to 2021 for this category, and a 6% decrease compared to 2018. New baccalaureate degree enrollments reached 54% of maximum capacity in 2022. The mean number of new enrollments per program for this category was 13 in 2022, 15 in 2021, 2020, 2019, and 16 in 2018.

The seven programs offering master's degrees accounted for .9% of the total number of new enrollments in 2022. This is a 9.5% decrease compared to 2021, and a 46% increase compared to 2018. New enrollments in these programs reached 40% of the maximum capacity in 2022. The mean number of new enrollments per program for this category was 10 in 2022, 17 in 2021, 2020, 2019, and 12 in 2018.

New RC Enrollments by Institutional Type

Table13 – RC Entry into Practice New Enrollments by Institutional Type between 2018 and 2022											
Institutional Type	**2022 Max Annual Enroll Capacity**		**2022 New Enrollments (N=411)**		**2021 New Enrollments (N=404)**		**2020 New Enrollments (N=413)**		**2019 New Enrollments (N=402)**		**2018 New Enrollments (N=400)**	
	Total	**Mean**	**Total**	**Mean**	**Total**	**Mean**	**Total**	**Mean**	**Total**	**Mean**	**Total**	**Mean**
Community or Junior College	**6,772**	28	**4,367**	18	**4,543**	19	**4,375**	18	**4,561**	19	**4,595**	20
Four-Year College or University	**2,312**	24	**1,234**	13	**1,278**	14	**1,349**	14	**1,452**	16	**1,610**	18
Technical or Vocational School	**2,412**	48	**1,514**	30	**1,527**	30	**1,594**	29	**1,394**	26	**1,312**	25
Academic HSC/ Medical Center	**187**	23	**74**	9	**81**	10	**88**	11	**94**	12	**101**	11
Career or Technical College	**422**	47	**225**	25	**299**	33	**206**	23	**279**	28	**195**	20
U.S. Military	**228**	114	**146**	73	**123**	62	**118**	59	**137**	69	**136**	68

Table 13 shows the new enrollments in respiratory care programs in relation to institutional type. The 245 programs offered in community or junior colleges are the largest category and accounted for 57.8% of the 7,560 new enrollments in 2022. This is a 3.9% decrease in enrollments compared to 2020, and a 5% decrease compared to 2018. New enrollments reached 64.5% of the maximum capacity in 2022. The mean number of new enrollments per program was 18 in 2022, 19 in 2021, 18 in 2020, 19 in 2019, and 20 in 2018.

The 97 programs offered in four-year colleges or universities accounted for 16.3% of the total number of new enrollments in 2022. This is a 3.4% decrease compared to 2021 and a 23.4% decrease compared to 2018. New enrollments reached 53.4% of maximum capacity in 2022. The mean number of new enrollments per program was 13 in 2022, 14 in 2021, 2020, 16 in 2019, and 18 in 2018.

The 50 programs offered in technical or vocational schools accounted for 20% of the total number of new enrollments in 2022. This is a .9% decrease compared to 2020, but a 15.4% increase compared to 2018. New enrollments reached 62.8% of the maximum capacity in 2022. The mean number of new enrollments per program was 30 in 2022 and 2021, 29 in 2020, 26 in 2019, and 25 in 2018.

The eight programs offered in academic HSC/medical centers accounted for 1% of the total number of new enrollments in 2022. This is an 8.6% decrease compared to 2021 and a 26.7% decrease compared to 2018. New enrollments reached 39.6% of maximum capacity in 2022. The mean number of new enrollments per program was 9 in 2022, 10 in 2021, 13 in 2020, 11 in 2019, and 12 in 2018.

The nine programs offered in career or technical colleges accounted for 3% of the total number of new enrollments in 2022. This is a 24.7% decrease compared to 2021 and a 15.4% increase compared to 2017. New enrollments reached 53.3% of the maximum capacity in 2022. The mean number of new enrollments per program was 25 in 2022, 33 in 2021, 23 in 2020 and 2019, and 28 in 2018.

The two programs offered in the U.S. military accounted for 1.9% of the total number of new enrollments in 2022. This is an 18.7% increase compared to 2020 and a 7.4% increase compared to 2018. New enrollments reached 64% of the maximum capacity in 2022. The mean number of new enrollments per program was 73 in 2022, 62 in 2021, 59 in 2020, 69 in 2019, and 68 in 2018.

New RC Enrollments by Institutional Control/Funding

Table 14 – RC Entry into Practice New Enrollments by Institutional Control/Funding between 2018 and 2022												
Institutional Control/Funding	**2022 Max Annual Enroll Capacity**		**2022 New Enrollments (N=411)**		**2021 New Enrollments (N=404)**		**2020 New Enrollments (N=413)**		**2019 New Enrollments (N=402)**		**2018 New Enrollments (N=400)**	
	Total	Mean	**Total**	Mean	**Total**	Mean	**Total**	Mean	**Total**	Mean	**Total**	Mean
Public/Not-For-Profit	**8,549**	26	**5,346**	16	**5,512**	17	**5,468**	17	**5,575**	17	**5,656**	18
Private/For-Profit (Proprietary)	**2,696**	66	**1,695**	41	**1,830**	45	**1,605**	39	**1,524**	36	**1,490**	35
Private/Not-For-Profit	**860**	24	**373**	10	**386**	11	**348**	10	**602**	16	**744**	20
Federal Government	**228**	114	**146**	73	**123**	42	**254**	42	**118**	59	**137**	69

Table 14 shows the new enrollments in respiratory care programs in relation to institutional control/funding. The 332 programs controlled/funded by public/not-for-profit institutions are the largest category and account for 70.8% of the 7,560 new respiratory care enrollments in 2022. This is a 3% decrease compared to 2021 and a 5.5% decrease compared to 2018. New enrollments were at 62.5% of maximum capacity in 2022 for programs in this category. The mean number of new enrollments per program was 16 in 2022, 17 in 2021/2020/2019, and 18 in 2018.

The 41 programs controlled /funded by private/for-profit (proprietary) institutions accounted for 22.4% of the total number of new enrollments in 2022. This is a 7.4% decrease compared to 2022 and a 13.8% increase compared to 2018. New enrollments reached 62.9% of maximum capacity in 2022 for programs in this category. The mean number of new enrollments per program was 41 in 2022, 45 in 2021, 39 in 2020, 35 in 2019, and 35 in 2018.

The 36 programs controlled/funded by private/not-for-profit institutions accounted for 4.9% of the total number of new enrollments in 2022. This is a 3.4% decrease compared to 2021 and a 49.9% decrease compared to 2018. New enrollments reached 43.4% of the maximum capacity in 2022 for programs in this category. The mean number of new enrollments per program was 10 in 2022, 11 in 2021, 10 in 2020, 16 in 2019, and 20 in 2018.

The two programs controlled/funded by the federal government accounted for 1.9% of the total number of new enrollments in 2022. This is an 18.7% increase compared to 2021 and a 6.6% increase compared to 2018. New enrollments reached 64% of the maximum capacity in 2022. The mean number of new enrollments per program was 73 in 2022, 42 in 2021/2020, 59 in 2019, and 69 in 2018.

New RC Enrollments by State (including D.C. and PR) and Degree

Table 15 provides data on new enrollments in respiratory care programs for 2017-2022 by state and degree offered. California had the largest (17.3% of total) enrollments of any state in 2022.

Table 15 – New RC Enrollments by State (including D.C. and PR) and Degree between 2017 and 2022								
State (# of programs reporting)	Degree	2022 Maximum Annual Enroll Capacity	2022 New Enrollments (N=411)	2021 New Enrollments (N=404)	2020 New Enrollments (N=413)	2019 New Enrollments (N=402)	2018 New Enrollments (N=400)	2017 New Enrollments (N=430)
AL (n=6)	**Total**	**195**	**133**	**138**	**126**	**131**	**156**	**133**
5	Associate	165	105	113	99	105	106	92
1	Baccalaureate	30	28	25	27	26	50	40
0	Masters	N/A	N/A	N/A	N/A	N/A	N/A	1
AR (n=6)	**Total**	**128**	**65**	**95**	**89**	**95**	**74**	**69**
5	Associate	104	54	80	77	78	64	64
1	Baccalaureate	24	11	15	12	17	10	5
AZ (n=5)	**Total**	**353**	**203**	**254**	**203**	**144**	**207**	**165**
5	Associate	353	203	254	203	144	207	165
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CA (n=35)	**Total**	**1,762**	**1,308**	**1,337**	**1,220**	**1,329**	**1,222**	**1,163**
34	Associate	1,740	1,294	1,325	1,207	1,317	1,208	1,156
1	Baccalaureate	22	14	12	13	12	14	7
CO (n=4)	**Total**	**227**	**128**	**116**	**145**	**111**	**129**	**93**
4	Associate	227	128	116	145	111	129	93
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CT (n=5)	**Total**	**118**	**62**	**68**	**65**	**82**	**77**	**72**
4	Associate	100	55	61	57	66	67	65
1	Baccalaureate	18	7	7	8	16	10	7
DC (n=1)	**Total**	**24**	**5**	**10**	**10**	**8**	**4**	**7**
1	Associate	24	5	10	10	8	4	7
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DE (n=2)	**Total**	**35**	**33**	**18**	**18**	**18**	**17**	**19**
2	Associate	35	33	18	18	18	17	19
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FL (n=25)	**Total**	**744**	**479**	**467**	**459**	**503**	**495**	**482**
22	Associate	664	445	436	422	473	456	450
2	Baccalaureate	55	34	31	37	29	39	32
1	Masters	25	0	N/A	N/A	N/A	N/A	N/A
GA (n=16)	**Total**	**380**	**226**	**240**	**239**	**223**	**241**	**188**
11	Associate	223	128	131	127	142	142	103
4	Baccalaureate	137	89	103	101	71	89	72
1	Masters	20	9	6	11	10	10	13
HI (n=1)	**Total**	**16**	**17**	**13**	**14**	**16**	**14**	**13**
1	Associate	16	17	13	14	16	14	13

State (# of programs reporting)	Degree	2022 Maximum Annual Enroll Capacity	2022 New Enrollments (N=411)	2021 New Enrollments (N=404)	2020 New Enrollments (N=413)	2019 New Enrollments (N=402)	2018 New Enrollments (N=400)	2017 New Enrollments (N=430)
IA (n=6)	**Total**	**119**	**61**	**78**	**64**	**70**	**62**	**47**
6	Associate	119	61	78	64	70	62	47
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ID (n=2)	**Total**	**40**	**30**	**37**	**24**	**51**	**58**	**54**
1	Associate	15	8	10	2	26	32	30
1	Baccalaureate	25	22	27	22	25	26	24
IL (n=13)	**Total**	**383**	**176**	**203**	**212**	**239**	**241**	**220**
11	Associate	349	165	184	193	222	234	211
1	Baccalaureate	10	1	1	0	N/A	N/A	N/A
1	Masters	24	10	18	19	17	7	9
IN (n=12)	**Total**	**278**	**193**	**194**	**208**	**206**	**190**	**209**
10	Associate	232	156	153	166	166	144	161
2	Baccalaureate	46	37	41	44	40	46	48
KS (n=9)	**Total**	**198**	**105**	**112**	**102**	**121**	**132**	**101**
8	Associate	174	97	96	90	106	110	90
1	Baccalaureate	24	8	16	12	15	22	11
KY (n=13)	**Total**	**255**	**171**	**152**	**174**	**147**	**173**	**151**
11	Associate	210	148	126	150	115	140	133
2	Baccalaureate	35	23	25	22	25	25	17
1	Masters	10	0	1	2	7	8	1
LA (n=9)	**Total**	**192**	**100**	**102**	**108**	**99**	**98**	**104**
6	Associate	125	81	78	78	75	76	78
3	Baccalaureate	67	19	24	30	24	22	26
MA (n=6)	**Total**	**116**	**65**	**86**	**94**	**78**	**79**	**93**
6	Associate	116	65	86	94	78	79	93
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MD (n=6)	**Total**	**153**	**117**	**107**	**121**	**116**	**98**	**88**
5	Associate	113	97	77	91	92	76	63
1	Baccalaureate	40	20	30	30	24	22	25
ME (n=2)	**Total**	**44**	**30**	**19**	**28**	**39**	**17**	**16**
2	Associate	44	30	19	28	39	17	16
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MI (n=11)	**Total**	**267**	**180**	**214**	**217**	**216**	**235**	**238**
11	Associate	267	180	214	217	216	235	238
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MN (n=5)	**Total**	**123**	**61**	**62**	**79**	**56**	**89**	**79**
3	Associate	83	45	49	44	24	58	52
2	Baccalaureate	40	16	13	35	32	31	27

State (# of programs reporting)	Degree	2022 Maximum Annual Enroll Capacity	2022 New Enrollments (N=411)	2021 New Enrollments (N=404)	2020 New Enrollments (N=413)	2019 New Enrollments (N=402)	2018 New Enrollments (N=400)	2017 New Enrollments (N=430)
MO (n=10)	Total	321	116	121	129	127	145	100
5	Associate	221	93	107	112	119	126	78
5	Baccalaureate	100	23	14	17	8	19	22
MS (n=9)	Total	182	133	138	133	127	123	100
9	Associate	182	133	138	133	127	123	100
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MT (n=2)	Total	41	24	19	14	16	17	21
2	Associate	41	24	19	14	16	17	21
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NC (n=15)	Total	375	247	200	193	215	203	198
14	Associate	345	226	200	193	215	203	198
1	Baccalaureate	30	21	N/A	N/A	N/A	N/A	N/A
ND (n=3)	Total	36	23	16	21	19	24	16
0	Associate	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2	Baccalaureate	24	23	15	21	19	24	14
1	Masters	12	0	1	0	N/A	N/A	2
NE (n=3)	Total	83	55	52	69	58	65	54
3	Associate	83	55	52	69	58	63	50
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	2	4
NH (n=1)	Total	16	5	12	6	8	9	11
1	Associate	16	5	12	6	8	9	11
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NJ (n=5)	Total	190	88	92	84	92	84	76
4	Associate	160	88	92	84	92	84	76
1	Baccalaureate	30	N/A	N/A	N/A	N/A	N/A	N/A
NM (n=6)	Total	178	80	75	79	82	84	98
6	Associate	178	80	75	79	82	84	98
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NV (n=3)	Total	187	112	137	125	57	78	87
2	Associate	162	99	119	104	57	78	87
1	Baccalaureate	25	13	18	21	N/A	N/A	N/A
NY (n=13)	Total	526	307	318	306	300	336	311
9	Associate	390	234	246	231	249	263	249
4	Baccalaureate	136	73	72	75	51	73	62
OH (n=22)	Total	575	298	361	327	345	358	351
17	Associate	459	218	274	227	235	265	263
5	Baccalaureate	116	80	87	100	110	93	88

COMMISSION ON ACCREDITATION FOR RESPIRATORY CARE

State (# of programs reporting)	Degree	2022 Maximum Annual Enroll Capacity	2022 New Enrollments (N=411)	2021 New Enrollments (N=404)	2020 New Enrollments (N=413)	2019 New Enrollments (N=402)	2018 New Enrollments (N=400)	2017 New Enrollments (N=420)
OK (n=6)	**Total**	**142**	**84**	**94**	**94**	**105**	**122**	**89**
6	Associate	142	84	94	94	105	122	89
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OR (n=3)	**Total**	**92**	**64**	**65**	**69**	**59**	**73**	**59**
2	Associate	67	19	54	54	42	54	48
1	Baccalaureate	25	15	11	15	17	19	11
PA (n=21)	**Total**	**558**	**289**	**366**	**290**	**313**	**326**	**262**
13	Associate	402	223	291	205	222	236	175
8	Baccalaureate	156	66	75	85	91	90	87
PR (n=1)	**Total**	**20**	**4**	**12**	**13**	**7**	**14**	**N/A**
0	Associate	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1	Baccalaureate	20	4	12	13	7	14	N/A
RI (n=2)	**Total**	**64**	**23**	**38**	**31**	**39**	**47**	**62**
2	Associate	64	23	38	31	39	47	62
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SC (n=7)	**Total**	**161**	**95**	**104**	**106**	**104**	**110**	**107**
7	Associate	161	95	104	106	104	110	107
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SD (n=2)	**Total**	**24**	**16**	**12**	**20**	**16**	**14**	**14**
2	Associate	24	16	12	20	16	14	14
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TN (n=10)	**Total**	**313**	**200**	**196**	**205**	**219**	**207**	**201**
7	Associate	254	157	145	156	169	155	143
3	Baccalaureate	59	43	51	49	50	52	58
TX (n=35)	**Total**	**1,233**	**805**	**799**	**799**	**755**	**763**	**829**
29	Associate	1,050	674	662	649	616	644	681
4	Baccalaureate	106	83	89	97	107	98	123
2	Masters	77	48	48	53	32	21	25
UT (n=6)	**Total**	**175**	**80**	**81**	**99**	**195**	**270**	**141**
1	Associate	25	20	18	131	131	221	105
5	Baccalaureate	150	60	63	64	64	49	36
VA (n=7)	**Total**	**223**	**141**	**114**	**119**	**125**	**126**	**128**
5	Associate	155	101	93	95	108	114	101
2	Baccalaureate	68	40	21	24	17	12	27
VT (n=1)	**Total**	**27**	**4**	**12**	**4**	**10**	**16**	**19**
1	Associate	27	4	12	4	10	16	19
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A	N/A

State (# of programs reporting)	Degree	2022 Maximum Annual Enroll Capacity	2022 New Enrollments (N=411)	2021 New Enrollments (N=404)	2020 New Enrollments (N=413)	2019 New Enrollments (N=402)	2018 New Enrollments (N=400)	2017 New Enrollments (N=420)
WA (n=5)	Total	152	98	111	113	110	108	104
2	Associate	70	49	50	58	57	77	69
3	Baccalaureate	82	49	61	55	53	31	35
WI (n=7)	Total	170	139	116	134	140	134	120
7	Associate	170	139	116	134	140	134	120
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WV (n=5)	Total	94	68	50	61	67	50	43
4	Associate	74	57	46	49	57	40	24
1	Baccalaureate	20	11	4	12	10	10	19
WY (n=1)	Total	25	14	14	12	13	11	14
1	Associate	25	14	14	12	13	11	14
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Total Graduates

Figure 10 provides the total number of graduates during the time period reported (i.e., January 1, 2010, through December 31, 2022). Graduation numbers include both students who graduated on time and students graduating after their expected graduation date. CoARC defines the graduation date as the date on which the degree was conferred by the program's educational sponsor, not the date on which the student fulfilled all program requirements.

There were 6,305 graduates in 2022. This is a 5.5% increase compared to 2021 and a 22.5% decrease compared to its peak in 2012. The mean number of graduates per program was 15 in 2022 and 2021, 16 in 2020, 17 in 2019, 16 in 2018, 15 in 2017, 16 in 2016, 17 in 2015, and 18 in 2014, 2013, and 2012. The median number of graduates per program was 12 in 2022, 13 in 2021/2020, 14in 2019 and 2018, 13 in 2017, 14 in 2016, 14 in 2015, 15 in 2014, 14 in 2013, and 15 in 2012.

Figure 10- Total Entry into RC Programs and Satellite Graduates between 2012 and 2022

Year	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Total # of Graduates (Jan 1-Dec 31)	8,132	7,820	7,823	6,984	6,700	6,314	6,219	6,589	6,466	5,972	6,035
n (# of Programs Reporting)	450	444	427	418	415	419	400	396	413	404	411
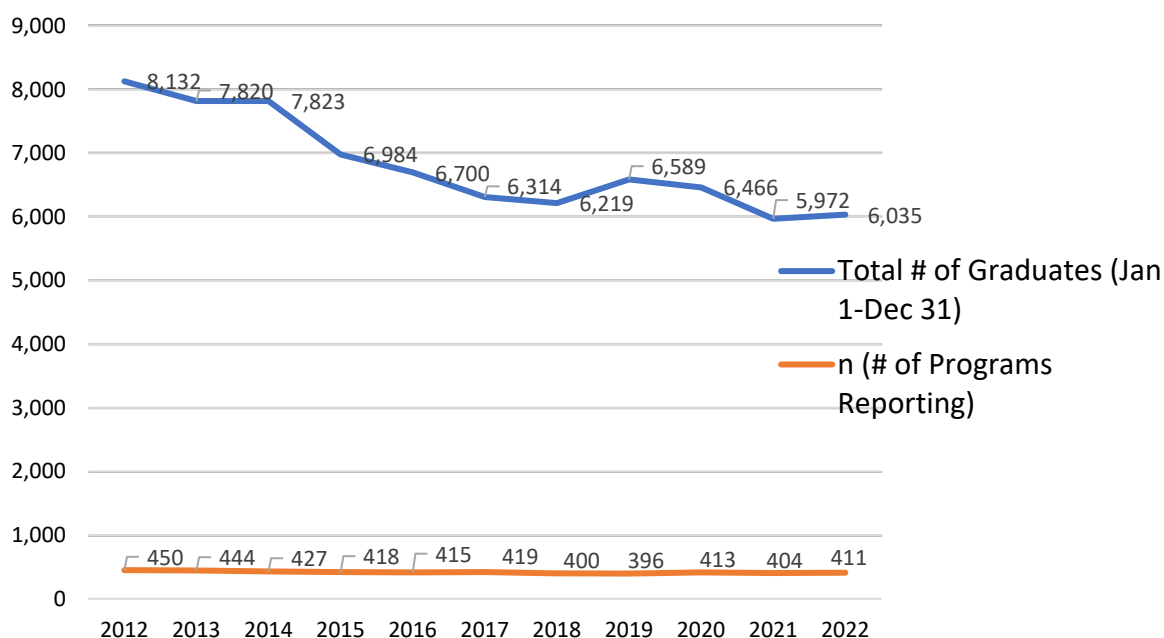
RC Graduates by Degree Offered

Table 16 – RC Entry into Practice Graduates by Degree Offered between 2018 and 2022										
Degree Offered	**2022 Graduates (N=411)**		**2021 Graduates (N=404)**		**2020 Graduates (N=413)**		**2019 Graduates (N=396)**		**2018 Graduates (N=400)**	
	Total	**Mean**	**Total**	**Mean**	**Total**	**Mean**	**Total**	Mean	**Total**	Mean
Associate	**5,104**	15	**5,142**	15	**5,570**	16	**5,660**	17	**5,396**	16
Baccalaureate	**855**	12	**752**	12	**855**	12	**883**	14	**768**	13
Masters	**76**	11	**78**	13	**41**	8	**46**	9	**55**	11

Table 16 shows the number of respiratory care graduates in relation to the degree offered. There were 6,035 graduates in 2022. The 334 programs offering associate degrees are the largest category and account for 84.6% of the total number of graduates in 2022. This is a .74% decrease compared to 2021, and a 5.4% decrease compared to 2018. The mean number of graduates per program for this category was 15 in 2022 and 2021, 16 in 2020, 17 in 2019, and 16 in 2018.

The 70 programs offering baccalaureate degrees accounted for 14.2% of the total number of graduates in 2022. This is a 13.7% increase compared to 2021 and an 11.3% increase in graduates for this category compared to 2018. The mean number of graduates per program for this category was 12 in 2022/2021/2020, 14 in 2019, and 13 in 2018.

The seven programs offering master's degrees accounted for 1.2% of the total number of graduates in 2022. This is a 2.6% decrease compared to 2022, and a 38.2% increase in graduates for this category compared to 2018. The mean number of graduates per program for this category was 11 in 2022, 13 in 2021, 8 in 2020, 9 in 2019, and 11 in 2018.

RC Graduates by Institutional Type

Institutional Type	2022 Graduates (N=411)		2021 Graduates (N=404)		2020 Graduates (N=413)		2019 Graduates (N=396)		2018 Graduates (N=400)	
	Total	Mean	**Total**	Mean	**Total**	Mean	**Total**	Mean	**Total**	Mean
Community or Junior College	**3,331**	14	**3,574**	15	**3,665**	15	**3,615**	16	**3,532**	15
Four-Year College or University	**1,062**	11	**1,025**	11	**1,268**	13	**1,398**	15	**1,254**	13
Technical or Vocational School	**1,235**	25	**987**	19	**1,208**	22	**1,150**	21	**1,034**	20
Academic HSC/Medical Center	**69**	9	**81**	10	**96**	10	**72**	10	**79**	10
Career or Technical College	**215**	24	**205**	23	**73**	18	**209**	23	**195**	20
U.S. Military	**123**	62	**100**	50	**145**	73	**125**	63	**171**	85

Table 17 –RC Entry into Practice Graduates by Institutional Type between 2018 and 2022

Table 17 shows the number of respiratory care graduates in relation to institutional type. The 245 programs offered in community or junior colleges are the largest category and account for 55.2% of the 6,035 respiratory care graduates in 2022. This is a 6.8% decrease compared to 2021, and a 5.7% decrease compared to 2018. The mean number of graduates per program for this category was 14 in 2022, 15 in 2021/2020, 16 in 2019, and 15 in 2018.

The 97 programs offered in four-year colleges or universities accounted for 17.6% of the total number of graduates in 2022. This is a 3.6% increase compared to 2021, and a 15.3% decrease compared to 2018. The mean number of graduates per program was 11 in 2022/2021, 13 in 2020, 15 in 2019, and 13 in 2018.

The 50 programs offered in technical or vocational schools accounted for 20.5% of the total number of graduates in 2022. This is a 25% increase compared to 2021, and a 19.4% decrease compared to 2018. The mean number of graduates per program was 25 in 2022, 19 in 2021, 22 in 2020, 21 in 2019, and 20 in 2018.

The eight programs offered in academic HSC/Medical Centers accounted for 1.1% of the total number of graduates in 2022. This is a 14.8% decrease compared to 2021 and a 12.7% decrease compared to 2018. The mean number of graduates per program was 9 in 2022, and 10 in 2021/2020/2019/2018.

The nine programs offered in career or technical colleges accounted for 3.6% of the total number of graduates in 2022. This is a 4.9% increase compared to 2021, and a 10.3% increase compared to 2018. The mean number of graduates per program was 24 for 2022, 23 for 2021, 18 in 2020, 23 in 2019, and 20 in 2018.

The two programs offered in the U.S. military accounted for 2% of the total number of graduates in 2022. This is a 23% increase compared to 2021, and a 28% decrease compared to 2018. The mean number of graduates per program was 62 in 2022, 50 in 2021, 73 in 2020, 63 in 2019, and 85 in 2018.

RC Graduates by Institutional Control/Funding

Institutional Control/Funding	2022 Graduates (N=411)		2021 Graduates (N=404)		2020 Graduates (N=413)		2019 Graduates (N=396)		2018 Graduates (N=400)	
	Total	Mean	**Total**	Mean	**Total**	Mean	**Total**	Mean	**Total**	Mean
Public/Not-For-Profit	**4,182**	13	**4,392**	13	**4,513**	14	**4,573**	15	**4,471**	14
Private/For-Profit (Proprietary)	**1,432**	35	**1,176**	32	**1,305**	32	**1,255**	30	**1,063**	25
Private/Not-For-Profit	**298**	8	**304**	9	**394**	11	**616**	17	**560**	14
Federal Government	**123**	62	**100**	50	**254**	42	**145**	73	**125**	63

Table 18 –RC Entry into Practice Graduates by Institutional Control/Funding between 2018 and 2022

Table 18 shows the number of respiratory care graduates in relation to institutional control/funding. The 332 programs controlled/ funded by public/not-for-profit institutions are the largest category and account for 69.3% of the 6,035 respiratory care graduates in 2022. This is a 4.8% decrease compared to 2021, and a 6.5% decrease compared to 2018. The mean number of graduates per program was 13 in 2022/2021, 14 in 2020, 15 in 2019, and 14 in 2018.

The 41 programs controlled/funded by private/for-profit (proprietary) institutions accounted for 23.7% of the total number of respiratory care graduates in 2022. This is a 21.8% increase compared to 2021 and a 34.7% increase compared to 2018. The mean number of graduates per program was 35 in 2022, 32 in 2021/2020, 30 in 2019, and 25 in 2018.

The 36 programs controlled/funded by private/not-for-profit institutions accounted for 5% of the total number of respiratory care graduates in 2022. This is a 2% decrease compared to 2021, and a 46.8% decrease compared to 2018. The mean number of graduates per program was 8 in 2022, 9 in 2021, 11 in 2020, 17 in 2019, and 14 in 2018.

The two programs offered in the U.S. military accounted for 2% of the total number of graduates in 2022. This is a 23% increase compared to 2021, and a 1.6% decrease compared to 2018. The mean number of graduates per program was 62 in 2022, 50 in 2021, 42 in 2020, 73 in 2019, and 63 in 2018.

RC Graduates by State (including D.C. and PR) and Degree

Table 19 provides data on respiratory care graduates for 2017-2022 by state and degree offered. Programs in California had the largest number of graduates (16.8% of total) in 2022.

Table 19 –RC Graduates by State (including D.C. and PR) and Degree between 2017 and 2022							
State (# of programs reporting)	Degree	2022 Graduates (N=411)	2021 Graduates (N=404)	2020 Graduates (N=413)	2019 Graduates (N=396)	2018 Graduates (N=400)	2017 Graduates (N= 425)
AL (n=6)	Total	101	122	105	122	86	67
5	Associate	78	98	83	100	71	49
1	Baccalaureate	23	24	22	22	14	18
0	Masters	N/A	N/A	N/A	N/A	1	N/A
AR (n=6)	Total	70	76	66	69	59	53
5	Associate	64	69	58	60	50	43
1	Baccalaureate	6	7	9	9	9	10
AZ (n=5)	Total	175	156	188	168	163	185
5	Associate	175	156	188	168	163	185
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A
CA (n=35)	Total	1,070	1,167	1,167	1,037	907	933
34	Associate	1,059	998	1,155	1,029	895	929
1	Baccalaureate	11	8	12	8	12	4
CO (n=4)	Total	112	84	93	103	107	79
4	Associate	112	84	93	103	107	79
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A
CT (n=5)	Total	47	69	43	71	61	63
4	Associate	41	56	37	57	51	55
1	Baccalaureate	6	13	6	14	10	8
DC (n=1)	Total	8	7	3	7	3	4
1	Associate	8	7	3	7	3	4
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A
DE (n=2)	Total	15	17	14	9	20	17
2	Associate	15	17	14	9	20	17
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A
FL (n=25)	Total	362	351	383	405	374	397
22	Associate	329	329	352	374	352	373
2	Baccalaureate	22	22	31	31	22	24
1	Masters	0	N/A	N/A	N/A	N/A	N/A
GA (n=16)	Total	192	174	200	211	210	181
11	Associate	112	108	122	125	125	116
4	Baccalaureate	71	59	71	73	73	60
1	Masters	9	7	7	13	12	5

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State (# of programs reporting)	Degree	2022 Graduates (N=411)	2021 Graduates (N=404)	2020 Graduates (N=413)	2019 Graduates (N=396)	2018 Graduates (N=400)	2017 Graduates (N=430)
HI (n=1)	**Total**	**12**	**13**	**16**	**14**	**16**	**13**
1	Associate	12	13	16	14	16	13
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A
IA (n=6)	**Total**	**45**	**56**	**52**	**52**	**55**	**39**
6	Associate	45	56	52	52	55	39
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A
ID (n=2)	**Total**	**21**	**34**	**46**	**52**	**33**	**37**
1	Associate	3	10	23	27	16	20
1	Baccalaureate	18	24	25	25	17	17
IL (n=13)	**Total**	**127**	**174**	**167**	**182**	**175**	**213**
11	Associate	118	154	160	173	162	198
1	Baccalaureate	0	7	0	N/A	N/A	2
1	Masters	9	13	7	9	13	13
IN (n=12)	**Total**	**139**	**163**	**154**	**157**	**120**	**153**
10	Associate	103	131	115	114	99	116
2	Baccalaureate	36	32	39	43	21	37
KS (n=9)	**Total**	**71**	**100**	**100**	**82**	**110**	**62**
8	Associate	59	85	88	71	94	56
1	Baccalaureate	12	15	22	11	16	6
KY (n=13)	**Total**	**113**	**128**	**132**	**147**	**147**	**146**
10	Associate	93	99	105	122	126	124
2	Baccalaureate	18	22	20	24	21	22
1	Masters	2	7	7	1	N/A	N/A
LA (n=9)	**Total**	**73**	**70**	**84**	**72**	**80**	**90**
6	Associate	52	51	67	53	61	64
3	Baccalaureate	21	19	17	19	19	26
MA (n=6)	**Total**	**61**	**59**	**61**	**59**	**85**	**73**
6	Associate	61	59	61	59	85	73
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A
MD (n=6)	**Total**	**90**	**98**	**92**	**92**	**96**	**99**
5	Associate	60	75	71	71	69	70
1	Baccalaureate	30	23	21	21	27	29
ME (n=2)	**Total**	**22**	**21**	**22**	**13**	**13**	**26**
2	Associate	22	21	22	13	13	26
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A
MI (n=11)	**Total**	**165**	**176**	**160**	**184**	**171**	**230**
11	Associate	165	176	160	184	171	230
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A

State (# of programs reporting)	Degree	2022 Graduates (N=411)	2021 Graduates (N=404)	2020 Graduates (N=413)	2019 Graduates (N=396)	2018 Graduates (N=400)	2017 Graduates (N=430)
MN (n=5)	Total	67	59	67	49	64	65
3	Associate	36	34	41	26	42	44
2	Baccalaureate	31	25	26	23	22	21
MO (n=10)	Total	99	89	108	132	106	112
5	Associate	83	82	94	112	98	92
5	Baccalaureate	16	7	14	20	8	20
MS (n=9)	Total	102	96	97	86	97	89
9	Associate	102	96	97	86	97	89
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A
MT (n=2)	Total	9	20	15	20	16	14
2	Associate	9	20	15	20	16	14
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A
NC (n=15)	Total	137	146	143	159	164	140
14	Associate	137	146	143	159	164	140
1	Baccalaureate	0	N/A	N/A	N/A	N/A	N/A
ND (n=3)	Total	20	14	24	18	19	22
0	Associate	N/A	N/A	N/A	N/A	N/A	N/A
2	Baccalaureate	20	14	24	16	18	2
1	Masters	0	0	0	2	1	1
NE (n=3)	Total	42	45	47	41	43	44
3	Associate	42	45	47	41	39	42
0	Baccalaureate	N/A	N/A	N/A	N/A	4	2
NH (n=1)	Total	7	7	6	11	11	12
1	Associate	7	7	6	11	11	12
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A
NJ (n=5)	Total	87	80	80	72	67	61
4	Associate	87	80	80	72	67	61
1	Baccalaureate	0	N/A	N/A	N/A	N/A	N/A
NM (n=6)	Total	56	59	62	95	75	109
6	Associate	56	59	62	95	75	109
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A
NV (n=3)	Total	99	80	70	55	79	37
2	Associate	81	80	70	55	79	37
1	Baccalaureate	18	0	0	N/A	N/A	N/A
NY (n=13)	Total	234	226	229	233	230	222
9	Associate	163	180	172	178	178	164
4	Baccalaureate	71	46	57	55	52	58

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![CoARC logo]

State (# of programs reporting)	Degree	2022 Graduates (N=411)	2021 Graduates (N=404)	2020 Graduates (N=413)	2019 Graduates (N=396)	2018 Graduates (N=400)	2017 Graduates (N=430)
OH (n=22)	Total	239	239	253	240	282	279
17	Associate	164	172	164	155	195	207
5	Baccalaureate	75	67	89	85	87	72
OK (n=6)	Total	83	90	98	90	110	82
6	Associate	83	90	98	90	110	82
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A
OR (n=3)	Total	72	52	55	56	61	73
2	Associate	59	39	44	45	46	51
1	Baccalaureate	13	13	11	11	15	22
PA (n=21)	Total	216	222	254	263	238	236
13	Associate	148	153	173	187	173	181
8	Baccalaureate	68	69	81	76	65	55
PR (n=1)	Total	3	3	3	3	3	0
0	Associate	N/A	N/A	N/A	N/A	N/A	N/A
1	Baccalaureate	3	3	3	3	3	0
RI (n=2)	Total	20	26	28	48	42	32
2	Associate	20	26	28	48	42	32
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A
SC (n=7)	Total	88	84	86	82	79	66
7	Associate	88	84	86	82	79	66
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A
SD (n=2)	Total	7	15	12	8	11	12
2	Associate	7	15	12	8	11	12
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A
TN (n=10)	Total	157	128	158	165	150	163
7	Associate	121	85	117	114	99	115
3	Baccalaureate	36	43	41	51	51	48
TX (n=35)	Total	679	607	583	730	660	716
29	Associate	544	480	597	597	542	567
4	Baccalaureate	79	76	88	112	90	102
2	Masters	56	51	20	21	28	47
UT (n=6)	Total	79	82	182	264	183	196
1	Associate	17	29	119	196	148	161
5	Baccalaureate	62	53	63	68	35	35
VA (n=7)	Total	89	89	91	98	91	132
5	Associate	70	77	79	78	78	104
2	Baccalaureate	19	12	12	20	13	28
VT (n=1)	Total	2	7	7	14	13	9
1	Associate	2	7	7	14	13	9
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A

COMMISSION ON ACCREDITATION FOR RESPIRATORY CARE

State (# of programs reporting)	Degree	2022 Graduates (N=411)	2021 Graduates (N=404)	2020 Graduates (N=413)	2019 Graduates (N=396)	2018 Graduates (N=400)	2017 Graduates (N=430)
WA (n=5)	**Total**	**104**	**92**	**93**	**73**	**95**	**92**
2	Associate	45	52	57	43	64	77
3	Baccalaureate	59	40	36	30	32	15
WI (n=7)	**Total**	**94**	**105**	**110**	**107**	**102**	**121**
7	Associate	94	105	110	107	102	121
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A
WV (n=5)	**Total**	**41**	**47**	**23**	**43**	**23**	**48**
4	Associate	33	38	16	29	11	34
1	Baccalaureate	8	9	7	14	12	14
WY (n=1)	**Total**	**12**	**9**	**12**	**11**	**11**	**7**
1	Associate	12	9	12	11	11	7
0	Baccalaureate	N/A	N/A	N/A	N/A	N/A	N/A

Programmatic Retention

Programmatic enrollment, as defined by the CoARC, begins when the respiratory student enrolls in the first core (non-survey, non-prerequisite) respiratory care course, i.e., a course available only to students matriculated in the respiratory care program. This date may differ from the enrollment or matriculation date determined by the institution. However, it is this date, as defined by the CoARC, that must be used when calculating programmatic retention and maximum annual enrollment.

Beginning January 1, 2017, the CoARC Board stopped using the term "programmatic attrition" and began using the term "programmatic retention." CoARC defines programmatic retention as the number of students formally enrolled* in a respiratory care program during a three-year reporting period who graduated from the program after completing all programmatic and graduation requirements, calculated as a percentage of the total number of students initially enrolled in that class.

The total number of students enrolled includes those who successfully completed the program as well as students who left the program for academic reasons (failure to achieve minimum grade requirements, ethical, professional, or behavioral violations or violations of academic policies) that resulted in their expulsion from the program prior to graduation.

Students are not included in the retention definition who:

1. leave the program by the last day they are eligible for 100% tuition reimbursement within the first term of fundamental respiratory care core coursework[2].

   OR

2. are in good academic standing who leave the program due to: financial, medical, or family reasons, military deployment, a change in their course of study, relocation to a different community, or reasons other than those described under academic reasons;

   OR

3. are admitted to another educational program (same or different educational institution) prior to the scheduled graduation date of their RT class.

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[2] Fundamental respiratory care coursework is defined as: Professional coursework, focused on the preparation of the student as a competent Respiratory Therapist, as defined in CoARC Standard 3.01.

Table 20 – RC Programmatic Retention for 2017 RCS through 2023 RCS					
Reporting Years (# of programs submitted)	Mean (SD)	Maximum Value	Minimum Value	CoARC Threshold	# of Programs Below Threshold
2017 RCS Data from 1/1/14 to 12/31/16 (N=420)	91.0% (.07)	100%	59%	70%	4
2018 RCS Data from 1/1/15 to 12/31/17 (N=419)	87.5% (16.9)	100%	60%	70%	20
2019 RCS Data from 1/1/16 to 12/31/18 (N=412)	91% (8)	100%	58%	70%	6
2020 RCS Data from 1/1/17 to 12/31/19 (N=410)	92% (7.1)	100%	65%	70%	2
2021 RCS Data from 1/1/18 to 12/31/20 (N=411)	91% (7)	100%	63%	70%	6
2022 RCS Data from 1/1/19 to 12/31/21 (N=404)	91% (7.3)	100%	53%	70%	3
2023 RCS Data from 1/1/20 to 12/31/22 (N=405)	91% (8)	100%	55%	70%	4

2023 RCS data on programmatic retention (**Table 20**) show a total of 405 entry into practice programs reporting programmatic retention rates. The mean retention rate for the 2023 RCS was 91%, with the highest rate of 100% (n=63), which was two more programs compared to the 2022 RCS) and the lowest rate of 55% (n=1). Four programs (0.1% of total) reported retention rates below the CoARC-established threshold of 70%. As per CoARC Standard 3.09, these programs began a dialogue with the CoARC to develop an appropriate plan of action (i.e., a progress report) for program improvement.

Retention by Degree Offered, Institutional Type, and Institutional Control/Funding

Table 21 – RC Programmatic Retention by Degree Offered for 2020 RCS through 2023 RCS							
	2023 RCS		**2022 RCS**		**2021 RCS**		**2020 RCS**
Degree Offered (N=405)	Mean Retention (# of programs below CoARC threshold	**Degree Offered (N=404)**	Mean Retention (# of programs below CoARC threshold	**Degree Offered (N=413)**	Mean Retention (# of programs below CoARC threshold	**Degree Offered (N=410)**	Mean Retention (# of programs below CoARC threshold
Associate (n=331)	91% **(3)**	Associate (n=335)	91% **(2)**	Associate (n=339)	91% **(4)**	Associate (n=342)	91% **(5)**
Baccalaureate (n=68)	94% **(1)**	Baccalaureate (n=63)	93% **(1)**	Baccalaureate (n=68)	92% **(2)**	Baccalaureate (n=64)	91% **(1)**
Masters (n=6)	95%	Masters (n=6)	94%	Masters (n=4)	94%	Masters (n=6)	98%

Table 21 compares programmatic retention data in relation to the degree offered for the 2020 through 2023 RCS. For the 2023 RCS, programs offering an entry into practice associate degree had a mean retention rate of 91%; baccalaureate degree programs had a mean retention rate of 94%, while programs offering the master's degree had the highest mean retention rate of 95%.

For the 2023 RCS, two of the four programs below the CoARC threshold of 50% offered the AAS degree, one offered the AS degree, and one offered the BS degree.

Institutional Type (N=405)	2023 RCS Mean Retention (# of programs below CoARC threshold)	Institutional Type (N=411)	2022 RCS Mean Retention (# of programs below CoARC threshold)	Institutional Type (N=413)	2021 RCS Mean Retention (# of programs below CoARC threshold)	Institutional Type (N=410)	2020 RCS Mean Retention (# of programs below CoARC threshold)
Four-Year College or University (n=92)	93% **(2)**	Four-Year College or University (n=90)	92% **(1)**	Four-Year College or University (n=97)	92% **(1)**	Four-Year College or University (n=94)	92% **(1)**
Career or Technical College (n=9)	92%	Career or Technical College (n=4)	92%	Career or Technical College (n=4)	94%	Career or Technical College (n=9)	93%
Community or Junior College (n=244)	90% **(2)**	Community or Junior College (n=243)	91% **(2)**	Community or Junior College (n=243)	91% **(4)**	Community or Junior College (n=243)	91% **(1)**
Academic HSC/Medical Center (n=8)	93%	Academic HSC/Medical Center (n=10)	92%	Academic HSC/Medical Center (n=10)	89% **(1)**	Academic HSC/Medical Center (n=8)	92%
Technical or Vocational School (n=50)	92%	Technical or Vocational School (n=55)	93%	Technical or Vocational School (n=55)	93%	Technical or Vocational School (n=54)	92%
U.S. Military (n=2)	88%	U.S. Military (n=2)	86%	U.S. Military (n=2)	85%	U.S. Military (n=2)	85%

Table 22 – RC Programmatic Retention by Institutional Type for 2020 through 2023 RCS

Table 22 compares programmatic retention data in relation to institutional type for the 2020 RCS through the 2023 RCS. For the 2023 RCS, entry into practice programs, Four-Year Colleges or Universities, and Academic HSC/Medical Centers have the highest mean retention rate (93%). The U.S. Military programs had the lowest mean retention rate of 88%.

For the 2023 RCS, two of the four programs below the CoARC threshold of 70% were located at a Four-Year College or University, the other two programs were located at a community or Junior College.

Table 23 – RC Programmatic Retention by Institutional Control for 2020 RC through 2023 RCS							
Institutional Control (N=405)	**2023 RCS** Mean Retention (# of programs below CoARC threshold)	**Institutional Control (N=404)**	**2022 RCS** Mean Retention (# of programs below CoARC threshold)	**Institutional Control (N=413)**	**2021 RCS** Mean Retention (# of programs below CoARC threshold)	**Institutional Control (N=410)**	**2020 RCS** Mean Retention (# of programs below CoARC threshold)
Public/Not-For-Profit (n=331)	91% **(3)**	Public/Not-For-Profit (n=330)	91% **(6)**	Public/Not-For-Profit (n=327)	92% **(1)**	Public/Not-For-Profit (n=325)	91% **(5)**
Private/For-Profit (Proprietary) (n=39)	93%	Private/For-Profit (Proprietary) (n=41)	94%	Private/For-Profit (Proprietary) (n=39)	91% **(1)**	Private/For-Profit (Proprietary) (n=43)	92%
Private/Not-For-Profit (n=33)	92% **(1)**	Private/Not-For-Profit (n=34)	92%	Private/Not-For-Profit (n=42)	94%	Private/Not-For-Profit (n=42)	91% **(1)**
Federal Government (n=2)	88%	Federal Government (n=6)	91%	Federal Government (n=2)	85%	Federal Government (n=2)	87%

Table 23 compares programmatic retention data in relation to institutional control/funding for 2020 through the 2023 RCS. For the 2023 RCS, entry into practice programs controlled/funded by the private/for–profit (Proprietary) sector had the highest mean retention rate, at 93%. Programs controlled/funded by the federal government had the lowest mean retention rate at 88%.

For the 2023 RCS, three of the four programs below the CoARC threshold of 70% were controlled/funded by a Public/Not-For-Profit institution sector; the other program was located at a Private/Not-For-Profit institution.

Job Placement

Job placement is defined by the CoARC as *"a graduate who, within the 3-year reporting period, is employed utilizing skills within the scope of practice of the respiratory care profession (i.e., full- or part-time, or per diem)."* In 2015, the CoARC eliminated the threshold but still requires programs to report the outcome. Data submitted with the 2022 RCS and prior reporting years reflect the previous job placement calculation.[3]

Table 24 – RC Job Placement for 2013 RCS through 2024 RCS					
Reporting Years (# of programs submitting)	**Mean (SD)**	**Maximum Value**	**Minimum Value**	**CoARC Threshold**	**# of Programs Below Threshold**
2013 RCS Data from 1/1/10 to 12/31/12 (N=422)	85.3% (11.7)	100%	1%	70%	**41**
2014 RCS Data from 1/1/11 to 12/31/13 (N=424)	84.6% (11.7)	100%	20.0%	70%	**39**
2015 RCS Data from 1/1/12 to 12/31/14 (N=434)	85.5% (10.4)	100%	50.0%	N/A	**N/A**
2016 RCS Data from 1/1/13 to 12/31/15 (N=433)	84.3% (12.7)	100%	28.6%	N/A	**N/A**
2017 RCS Data from 1/1/14 to 12/31/16 (N=421)	86.0% (11.8)	100%	38.7%	N/A	**N/A**
2018 RCS Data from 1/1/15 to 12/31/17 (N=419)	84.8% (22)	100%	0%	N/A	**N/A**
2019 RCS Data from 1/1/16 to 12/31/18 (N=400)	88% (11)	100%	33%	N/A	**N/A**
2020 RCS Data from 1/1/17 to 12/31/19 (N=400)	87% (12.5)	100%	18%	N/A	**N/A**
2021 RCS Data from 1/1/18 to 12/31/20 (N=404)	86% (13)	100%	26%	N/A	**N/A**
2022 RCS Data from 1/1/19 to 12/31/21 (N=404)	86% (13)	100%	29%	N/A	**N/A**
2023 RCS Data from 1/1/20 to 12/31/22 (N=400)	87% (12)	100%	37%	N/A	**N/A**

2023 RCS data on job placement (**Table 24**) show a total of 400 entry into practice programs reporting job placement rates. The mean placement rate increased to 87%, with the highest rate of 100% (n = 55)-this was an increase of seven when compared to 2022 and the lowest rate of 37% (n=3). The number of programs reporting the lowest placement was three, while the number of programs reporting the highest placement rate (100%) increased from 39 (2016 RCS) to 40 (2017 RCS) to 58 (2018 RCS), then decreased to 50 (2019 RCS) to an increase of 54 (2020 RCS) to 58 (2021 RCS) then decrease to 48 (2022 RCS) and increased to 55 (2023 RCS).

Placement by Degree Offered, Institutional Type, and Institutional Control/Funding

Table 25 – RC Job Placement by Degree Offered for 2020 RCS through 2023 RCS							
Degree Offered (N=400)	2023 RCS Mean Placement	Degree Offered (N=404)	2022 RCS Mean Placement	Degree Offered (N=404)	2021 RCS Mean Placement	Degree Offered (N=400)	2020 RCS Mean Placement
Associate (n=330)	86%	Associate (n=334)	86%	Associate (n=332)	86%	Associate (n=335)	88%
Baccalaureate (n=65)	89%	Baccalaureate (n=65)	89%	Baccalaureate (n=63)	89%	Baccalaureate (n=60)	89%
Masters (n=5)	93%	Masters (n=5)	94%	Masters (n=5)	97%	Masters (n=5)	98%

Table 25 compares job placement data in relation to the degree offered for the 2020 through 2023 RCS. For the 2023 RCS, programs offering the master's degree had the highest mean placement rate (93%) in this category, while programs offering the associate degree demonstrated the lowest mean placement rate at 86%. When compared to 2022 RCS data, the master's degree programs showed a 1% decrease in mean placement rate, while the associates' degree and baccalaureate degree programs showed no change.

Institutional Type (N=400)	2023 RCS Mean Placement	Institutional Type (N=404)	2022 RCS Mean Placement	Institutional Type (N=404)	2021 RCS Mean Placement	Institutional Type (N=400)	2020 RCS Mean Placement
Four-Year College or University (n=88)	89%	Four-Year College or University (n=90)	89%	Four-Year College or University (n=95)	87%	Four-Year College or University (n=93)	88%
Career or Technical College (n=9)	81%	Career or Technical College (n=9)	84%	Career or Technical College (n=4)	89%	Career or Technical College (n=9)	88%
Community or Junior College (n=243)	87%	Community or Junior College (n=244)	86%	Community or Junior College (n=238)	87%	Community or Junior College (n=235)	87%
Academic HSC/Medical Center (n=8)	90%	Academic HSC/Medical Center (n=8)	91%	Academic HSC/Medical Center (n=10)	89%	Academic HSC/Medical Center (n=7)	95%
Technical or Vocational School (n=50)	89%	Technical or Vocational School (n=51)	80%	Technical or Vocational School (n=55)	82%	Technical or Vocational School (n=54)	84%
U.S. Military (n=2)	91%	U.S. Military (n=2)	91%	U.S. Military (n=2)	92%	U.S. Military (n=2)	89%

Table 26 – RC Job Placement by Institutional Type for 2020 RCS through 2023 RCS

Table 26 compares job placement data in relation to institutional type for the 2020 RCS through 2023 RCS. For the 2023 RCS, U.S. Military institutions had the highest mean placement rate (91%). Programs located in Career or Technical College Institutions demonstrated the lowest mean placement rate at 81%. Compared to the 2022 RCS, programs at Community or Junior Colleges and Technical or Vocational Schools showed an increase in mean placement rate.

Table 27 – RC Job Placement by Institutional Control for 2020 RCS through 2023 RCS							
Institutional Control (N=400)	**2023 RCS** Mean Placement	**Institutional Control (N=404)**	**2022 RCS** Mean Placement	**Institutional Control (N=404)**	**2021 RCS** Mean Placement	**Institutional Control (N=400)**	**2020 RCS** Mean Placement
Public/Not-For-Profit (n=326)	88%	Public/Not-For-Profit (n=327)	87%	Public/Not-For-Profit (n=325)	87%	Public/Not-For-Profit (n=319)	88%
Private/For-Profit (Proprietary) (n=37)	77%	Private/For-Profit (Proprietary) (n=41)	76%	Private/For-Profit (Proprietary) (n=41)	78%	Private/For-Profit (Proprietary) (n=42)	79%
Private/Not-For-Profit (n=33)	89%	Private/Not-For-Profit (n=34)	88%	Private/Not-For-Profit (n=32)	84%	Private/Not-For-Profit (n=37)	87%
Federal Government (n=2)	91%	Federal Government (n=2)	91%	Federal Government (n=6)	87%	Federal Government (n=2)	89%

Table 27 compares job placement data in relation to institutional control/funding for the 2020 RCS through the 2023 RCS. Programs controlled/funded by the Federal Government demonstrated the highest mean placement rate at 91%. Programs controlled/funded by private/for-profit (proprietary) institutions continued to demonstrate the lowest mean placement rate at 77%. When compared to 2022 RCS data, Public/Not-For-Profit, Private/For-Profit (Proprietary), and Private/Not-For-Profit categories showed an increase in the mean placement rate.

Therapist Multiple Choice (TMC) Exam High Cut Score Success

The National Board for Respiratory Care's (NBRC) Therapist Multiple Choice (TMC) Examination administered by the NBRC is designed to objectively measure essential knowledge, skills, and abilities required of entry-level respiratory therapists, as well as determine eligibility for the Clinical Simulation Examination. With the advent of the TMC Exam in January of 2015, all graduates seeking to enter the profession need only take a single written examination. The TMC exam has two cut scores; graduates attaining the lower cut score will obtain the Certified Respiratory Therapist (CRT) credential. Achieving the high cut score means that a graduate both earns the CRT credential and is eligible to take the Clinical Simulation Exam (CSE). Graduates who successfully complete the TMC at the high cut score and pass the CSE earn the RRT credential.

In March 2020, the CoARC approved the elimination of CRT Credentialing Success as an outcome. Beginning with the 2020 RCS, CRT Credentialing Success (and its related threshold) has been replaced with an outcome for the achievement of the high cut score on the TMC examination with a threshold of 60%. The TMC Exam High Cut Score Success is defined as the percentage of graduates who achieve a high cut score on the TMC Examination. The TMC Cut Score is derived by dividing the total number of those achieving the high cut score (numerator) by the number of graduates (denominator) in a three-year reporting period. _Note: This metric is not the same as the NBRC CRT or RRT pass rate, which measures the number of candidates passing the exam divided by the number of candidates attempting the exam._

Table 28 – TMC High Cut Score Success for the 2020 RCS through 2023 RCS					
Reporting Years (# of programs submitted)	**Mean (SD)**	**Maximum Value**	**Minimum Value**	**CoARC Threshold**	**# of Programs Below Threshold**
2020 RCS Data from 1/1/17 to 12/31/19 (N=400)	87% (13)	100%	43%	60%	**16**
2021 RCS Data from 1/1/18 to 12/31/20 (N=404)	85% (14)	100%	29%	60%	**27**
2022 RCS Data from 1/1/19 to 12/31/21 (N=404)	83% (15)	100%	10%	60%	**30**
2023 RCS Data from 1/1/20 to 12/31/22 (N=400)	83% (14)	100%	25%	60%	**22**

2023 RCS data on TMC High Cut Score Success (**Table 28**) show a total of 400 entry into practice programs reporting. The mean TMC High Cut Score Success was 83% with the highest rate of 100% (n=34) and the lowest rate of 25% (n=1). A total of 22 programs (5% of total) reported mean TMC High Cut Score Success rates below the CoARC-established threshold of 60%. As per CoARC Standard 3.09, these programs began a dialogue with the CoARC to develop an appropriate plan of action (i.e., a progress report) for program improvement.

TMC High Cut Score Success by Degree Offered, Institutional Type, and Institutional Control/Funding

Table 29 –TMC High Cut Score Success by Degree Offered for the 2020 through 2023 RCS							
	2023 RCS		**2022 RCS**		**2021 RCS**		**2020 RCS**
Degree Offered (n=400)	Mean TMC High Cut Score Success (# of programs below CoARC threshold)	**Degree Offered (n=404)**	Mean TMC High Cut Score Success (# of programs below CoARC threshold)	**Degree Offered (n=404)**	Mean TMC High Cut Score Success (# of programs below CoARC threshold)	**Degree Offered (n=400)**	Mean TMC High Cut Score Success (# of programs below CoARC threshold)
Associate (n=330)	82% **(20)**	Associate (n=335)	82% **(27)**	Associate (n=334)	84% **(23)**	Associate (n=332)	85% **(15)**
Baccalaureate (n=65)	87% **(2)**	Baccalaureate (n=63)	86% **(3)**	Baccalaureate (n=65)	88% **(4)**	Baccalaureate (n=63)	91% **(1)**
Masters (n=5)	96%	Masters (n=6)	97%	Masters (n=5)	90%	Masters (n=5)	98%

Table 29 compares TMC High Cut Score Success data in relation to the degree offered for the 2023 RCS. RC entry into practice programs offering master's degrees had the highest mean TMC High Cut Score Success (96%). RC programs offering associate degrees had the lowest mean (82%). RC programs offering the baccalaureate degree had a mean of 87%.

For the 2023 RCS, 20 out of the 22 programs below the CoARC threshold of 91% offered the associate degree (14 AAS degree programs, 4 AS degree programs, and 2 AST degree programs). The remaining two programs offered the Baccalaureate degree.

Table 30 – TMC High Cut Score Success by Institutional Type for the 2020 through 2023 RCS								
	2023 RCS			**2022 RCS**			**2021 RCS**			**2020 RCS**
Institutional Type (N=400)	Mean TMC High Cut Score Success (# of programs below CoARC threshold)	**Institutional Type (N=404)**	Mean TMC High Cut Score Success (# of programs below CoARC threshold)	**Institutional Type (N=404)**	Mean TMC High Cut Score Success (# of programs below CoARC threshold)	**Institutional Type (N=400)**	Mean TMC High Cut Score Success (# of programs below CoARC threshold)
Four-Year College or University (n=88)	86% (3)	Four-Year College or University (n=90)	85% (5)	Four-Year College or University (n=95)	85% (10)	Four-Year College or University (n=93)	89% (4)
Career or Technical College (n=9)	82%	Career or Technical College (n=9)	85%	Career or Technical College (n=4)	87%	Career or Technical College (n=9)	88%
Community or Junior College (n=243)	84% (17)	Community or Junior College (n=244)	83% (18)	Community or Junior College (n=238)	86% (13)	Community or Junior College (n=235)	87% (9)
Academic HSC/Medical Center (n=8)	88%	Academic HSC/Medical Center (n=8)	84% (1)	Academic HSC/Medical Center (n=10)	89%	Academic HSC/Medical Center (n=7)	93%
Technical or Vocational School (n=50)	77% (2)	Technical or Vocational School (n=51)	77% (6)	Technical or Vocational School (n=55)	80% (4)	Technical or Vocational School (n=54)	82% (3)
U.S. Military (n=2)	83%	U.S. Military (n=2)	79%	U.S. Military (n=2)	79%	U.S. Military (n=2)	76%

Table 30 compares TMC High Cut Score data in relation to institutional type for the 2023 RCS. RC entry into practice programs located in Academic HCS/Medical Center institutions demonstrated the highest mean TMC High Cut Score Success at 88%. RC entry into practice programs located in Technical or Vocational Schools have the lowest mean TMC High Cut Score Success at 77%.

For the 2023 RCS, 17 of the 30 programs below the CoARC threshold of 57% were located at a Community or Junior College, three were at a Four-Year College or University, and two were at a Technical or Vocational School.

Table 31 – TMC High Cut Score Success by Institutional Control for the 2020 through 2023 RCS								
Institutional Control (N=400)	**2023 RCS** Mean TMC High Cut Score Success **(# of programs below CoARC threshold)**	**Institutional Control (N=404)**	**2022 RCS** Mean TMC High Cut Score Success **(# of programs below CoARC threshold)**	**Institutional Control (N=404)**	**2021 RCS** Mean TMC High Cut Score Success **(# of programs below CoARC threshold)**	**Institutional Control (N=400)**	**2020 RCS** Mean TMC High Cut Score Success **(# of programs below CoARC threshold)**	
Public/Not-For-Profit (n=326)	84% **(15)**	Public/Not-For-Profit (n=327)	84% **(20)**	Public/Not-For-Profit (n=325)	86% **(21)**	Public/Not-For-Profit (n=319)	87% **(11)**	
Private/For-Profit (Proprietary) (n=39)	76% **(3)**	Private/For-Profit (Proprietary) (n=41)	77% **(5)**	Private/For-Profit (Proprietary) (n=41)	80% **(1)**	Private/For-Profit (Proprietary) (n=42)	81% **(4)**	
Private/Not-For-Profit (n=33)	81% **(4)**	Private/Not-For-Profit (n=34)	81% **(5)**	Private/Not-For-Profit (n=32)	81% **(5)**	Private/Not-For-Profit (n=37)	85% **(1)**	
Federal Government (n=2)	83%	Federal Government (n=2)	79%	Federal Government (n=6)	77%	Federal Government (n=2)	76%	

Table 31 compares TMC High Cut Score Success data in relation to institutional control/funding for the 2023 RCS. RC entry into practice programs controlled/funded by Public/Not-For-Profit sector demonstrated the highest mean TMC High Cut Score Success at 84%. Programs controlled/funded by Private/For-Profit (Proprietary) institutions demonstrated the lowest mean TMC High Cut Score Success at 76%.

For the 2023 RCS, 15 of the 22 programs below the CoARC threshold of 60% were controlled/funded by Public/Not-For-Profit institutions, three programs by Private/For-Profit (Proprietary) institutions, and four by a Private/Not-For-Profit institution.

RRT Credentialing Success

RRT Credentialing Success is defined by the CoARC as the percentage of graduates who earn the RRT credential by achieving the high cut score on the Therapist Multiple-Choice Examination (TMC) and subsequently passing the Clinical Simulation Examination (CSE), regardless of the number of TMC or CSE exam attempts. RRT credentialing success is derived by dividing the total number of those achieving the RRT (numerator) by the # of graduates (denominator) in each three-year reporting period. Note: This metric is not the same as the NBRC RRT pass rate, which measures the number of candidates passing the exam divided by the number of candidates attempting the exam. The Therapist Multiple-Choice (TMC) Examination administered by the NBRC is designed to measure the essential knowledge, skills, and abilities acquired by graduates of entry-level respiratory therapy educational programs and determine their eligibility for the Clinical Simulation Examination. The RRT credential is required in Ohio, California, Oregon, Arizona, New Jersey, West Virginia, and New Mexico to enter practice. Accordingly, graduates of CoARC-accredited programs in other states can choose to forego the CSE examination after earning the CRT credential and still obtain a license to practice. While programs are required to provide RRT outcomes data on the RCS, no threshold for this outcome has been established by the CoARC. Accordingly, no accreditation actions are taken based on RRT credentialing success. For more information related to this outcome measure, download the *CoARC's Position Statement Regarding Exam-based Outcome Measures* available at www.coarc.com.

Table 32 – RRT Credentialing Success for 2013 RCS through 2023 RCS				
Reporting Years (# of programs submitting)	**Mean (SD)**	**Maximum Value**	**Minimum Value**	**CoARC Threshold**
2013 RCS Data from 1/1/10 to 12/31/12 (N=422)	63.4% (22.1)	100%	0%	N/A
2014 RCS Data from 1/1/11 to 12/31/13 (N=424)	67.9% (21.3)	100%	0%	N/A
2015 RCS Data from 1/1/12 to 12/31/14 (N=434)	70.5% (20.4)	100%	11%	N/A
2016 RCS Data from 1/1/13 to 12/31/15 (N=433)	72.7% (20.0)	100%	16%	N/A
2017 RCS Data from 1/1/14 to 12/31/16 (N=421)	75.1% (19.0)	100%	14%	N/A
2018 RCS Data from 1/1/15 to 12/31/17 (N=419)	80.2% (17.6)	100%	0%	N/A
2019 RCS Data from 1/1/16 to 12/31/18 (N=400)	80.0% (18)	100%	0%	N/A
2020 RCS Data from 1/1/17 to 12/31/19 (N=400)	78.0% (19)	100%	14%	N/A
2021 RCS Data from 1/1/18 to 12/31/20 (N=404)	75.7% (20)	100%	12%	N/A
2022 RCS Data from 1/1/19 to 12/31/21 (N=404)	72% (21)	100%	0%	N/A
2023 RCS Data from 1/1/20 to 12/31/2 (N=400)	72% (20)	100%	0%	N/A

2023 RCS data on RRT credentialing success (**Table 32**) show a total of 400 entry into practice programs reporting data. The mean RRT credentialing success was 72%, with the highest rate (100%) achieved by 11 programs and the lowest rate of 0% (n=1). Compared to 2022, the 2023 data stayed the same, but with

an overall increase of 8.6% since the 2013 RCS. The number of programs reporting the highest RRT credentialing success rate (100%) increased from 7 for the 2012 RCS to 13 for the 2013 RCS, to 19 for the 2014 RCS, to 23 for the 2015 RCS, to 28 for the 2016 RCS, to 19 for the 2017 RCS, to 34 for 2018 RCS, and decreased to 32 for the 2019 RCS then to 29 for the 2020 RCS, then to 25 for the 2021 RCS, 18 for the 2022 RCS and 11 for the 2023 RCS.

RRT Credentialing Success by Degree Offered, Institutional Type, and Institutional Control/Funding

Table 33 –RRT Credentialing Success by Degree Offered for 2020 RCS through 2023 RCS							
Degree Offered (N=400)	**2023 RCS** Mean RRT Success	**Degree Offered (N=404)**	**2022 RCS** Mean RRT Success	**Degree Offered (N=404)**	**2021 RCS** Mean RRT Success	**Degree Offered (N=400)**	**2020 RCS** Mean RRT Success
Associate (n=330)	70%	Associate (n=335)	71%	Associate (n=334)	75%	Associate (n=332)	77%
Baccalaureate (n=65)	77%	Baccalaureate (n=63)	77%	Baccalaureate (n=65)	81%	Baccalaureate (n=63)	85%
Masters (n=5)	93%	Masters (n=6)	94%	Masters (n=5)	86%	Masters (n=5)	95%

Table 33 compares entry into practice RRT credentialing success data in relation to the degree offered for the 2020 RCS through the 2023 RCS. For the 2023 RCS, RC programs offering master's degrees had the highest mean RRT credentialing success (93%). RC programs offering associate degrees had the lowest mean RRT credentialing success (70%). There was no increase in any of the program's means in RRT credentialing success compared to 2022 RCS data.

Table 34 – RRT Credentialing Success by Institutional Type for 2020 RCS through 2023 RCS							
Institutional Type (N=400)	**2023 RCS** Mean RRT Success	**Institutional Type (N=404)**	**2022 RCS** Mean RRT Success	**Institutional Type (N=404)**	**2021 RCS** Mean RRT Success	**Institutional Type (N=400)**	**2020 RCS** Mean RRT Success
Four-Year College or University (n=88)	76%	Four-Year College or University (n=90)	77%	Four-Year College or University (n=95)	76%	Four-Year College or University (n=93)	81%
Career or Technical College (n=9)	68%	Career or Technical College (n=9)	70%	Career or Technical College (n=4)	80%	Career or Technical College (n=9)	76%
Community or Junior College (n=243)	72%	Community or Junior College (n=244)	72%	Community or Junior College (n=238)	77%	Community or Junior College (n=235)	78%
Academic HSC/Medical Center (n=8)	79%	Academic HSC/Medical Center (n=8)	74%	Academic HSC/Medical Center (n=10)	83%	Academic HSC/Medical Center (n=7)	88%
Technical or Vocational School (n=50)	65%	Technical or Vocational School (n=51)	66%	Technical or Vocational School (n=55)	70%	Technical or Vocational School (n=54)	75%
U.S. Military (n=2)	57%	U.S. Military (n=2)	55%	U.S. Military (n=2)	52%	U.S. Military (n=2)	42%

Table 34 compares RRT credentialing success data in relation to institutional type for the 2020 RCS through the 2023 RCS. For the 2023 RCS, entry into practice programs located in Academic HSC/Medical Centers had the highest mean RRT credentialing success at 79%. Programs located at U.S. Military facilities

had the lowest mean RRT credentialing success at 57%. Increases in mean RRT credentialing success occurred in Academic HSC/Medical Centers compared to 2022 RCS data.

Table 35 – RRT Credentialing Success by Institutional Control for 2020 RCS through 2023 RCS							
Institutional Control (N=400)	2023 RCS Mean RRT Success	Institutional Control (N=404)	2022 RCS Mean RRT Success	Institutional Control (N=404)	2021 RCS Mean RRT Success	Institutional Control (N=400)	2020 RCS Mean RRT Success
Public/Not-For-Profit (n=326)	73%	Public/Not-For-Profit (n=327)	74%	Public/Not-For-Profit (n=325)	77%	Public/Not-For-Profit (n=319)	80%
Private/For-Profit (Proprietary) (n=39)	66%	Private/For-Profit (Proprietary) (n=41)	67%	Private/For-Profit (Proprietary) (n=41)	72%	Private/For-Profit (Proprietary) (n=42)	73%
Private/Not-For-Profit (n=33)	66%	Private/Not-For-Profit (n=34)	66%	Private/Not-For-Profit (n=32)	69%	Private/Not-For-Profit (n=37)	74%
Federal Government (n=2)	57%	Federal Government (n=2)	55%	Federal Government (n=6)	59%	Federal Government (n=2)	42%

Table 35 compares RRT credentialing success data in relation to institutional control/funding for the 2020 RCS through the 2023 RCS. For the 2023 RCS, entry into practice programs controlled/funded by public/not-for-profit institutions demonstrates the highest mean RRT credentialing success (73%). Programs controlled/funded by the federal government demonstrated the lowest mean RRT credentialing success rate (57%). Decreases in mean RRT credentialing success occurred in entry into practice programs controlled/funded by public/not-for-profit, and private/for-profit (proprietary) institutions compared to the 2022 RCS data. An increase in mean RRT credentialing success occurred in entry into practice programs controlled/funded by the federal government compared to the 2023 RCS data.

Overall Graduate Satisfaction

The CoARC evaluates overall graduate satisfaction based on a CoARC-developed survey which uses a 5-point Likert scale. Programs administer the survey to employed program graduates six (6) to twelve (12) months after graduation. The CoARC-established threshold for this outcome is 80%, meaning that, for the question specifically assessing the subject, 80% of returned graduate surveys must rate overall satisfaction at three or higher on a 5-point Likert scale. The survey template is available at www.coarc.com.

Table 36 – RC Overall Graduate Satisfaction for the 2020 through the 2023 RCS					
Reporting Years (# of programs submitted)	Mean (SD)	Maximum Value	Minimum Value	CoARC Threshold	# of Programs Below Threshold
2020 RCS Data from 1/1/17 to 12/31/19 (N=392)	99% (4)	100%	50%	80%	2
2021 RCS Data from 1/1/18 to 12/31/20 (N=404)	99% (3)	100%	67%	80%	3
2022 RCS Data from 1/1/19 to 12/31/21 (N=404)	99% (3)	100%	73%	80%	4
2023 RCS Data from 1/1/20 to 12/31/22 (N=401)	99% (4)	100%	50%	80%	3

The 2023 RCS includes results on overall graduate satisfaction from 401 programs reporting data (**Table 36**). Mean overall graduate satisfaction was 99%, with the highest value of 100% (n=358) and the lowest value of 50% (n=1). Results from three programs (0.7% of total) were below the CoARC-established threshold of 80%. As per CoARC Standard 3.09, these programs began a dialogue with the CoARC to develop an appropriate plan of action (i.e., a progress report) for program improvement.

Overall Employer Satisfaction

The CoARC evaluates overall employer satisfaction based on a CoARC-developed survey which uses a 5-point Likert scale. Programs administer the survey to employers of their graduates six (6) to twelve (12) months after graduation. The CoARC-established threshold for this outcome is 80%, meaning that, for the question specifically assessing this subject, 80% of returned surveys must rate overall employer satisfaction with program graduates at three or higher on a 5-point Likert scale.

Table 37 – RC Overall Employer Satisfaction for the 2020 through the 2023 RCS					
Reporting Years (# of programs submitted)	Mean (SD)	Maximum Value	Minimum Value	CoARC Threshold	# of Programs Below Threshold
2020 RCS Data from 1/1/17 to 12/31/19 (N=391)	99% (5)	100%	43%	80%	4
2021 RCS Data from 1/1/18 to 12/31/20 (N=413)	99% (5)	100%	0%	80%	1
2022 RCS Data from 1/1/19 to 12/31/21 (N=404)	99% (2)	100%	81%	80%	0
2023 RCS Data from 1/1/20 to 12/31/22 (N=401)	99% (3)	100%	81%	80%	0

The 2023 RCS includes results on overall employer satisfaction from 401 programs reporting data (**Table 37**). Mean overall employer satisfaction was 99%, with the highest value of 100% (n=345) and the lowest value of 81% (n=1). No programs were below the CoARC-established threshold of 80%.

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