

THE GAP ANALYSIS PROJECT

Building a Better Model to Support
Internationally Educated Health Professionals
to become Respiratory Therapists in Ontario



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COLLEGE OF RESPIRATORY THERAPISTS OF ONTARIO

ORDRE DES THÉRAPEUTES RESPIRATOIRES DE L'ONTARIO

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Executive Summary

The Gap Analysis Project (GAP) was undertaken in order to better understand why internationally educated applicants to the College of Respiratory Therapists of Ontario (CRTO) were struggling with the College's prior learning assessment (PLA) process and so few were successfully becoming registered as respiratory therapists in Ontario.

The original assumption regarding the GAP was that the analysis of the CRTO PLA process and assessments would identify learning gaps that could then be filled through the development of a respiratory therapy bridging program. It was assumed that eligibility criteria for entry into such a program would be determined, that a respiratory therapy (RT) bridging program would likely use available curricula from Ontario RT programs, supplemented by additional curricula if required, and that an RT bridging program could be delivered by one or more schools in Ontario.

The research undertaken as part of the GAP included a detailed analysis of the profile of PLA candidates and the PLA process, assessment and outcomes over a 10-year period. Application data indicated that the CRTO received only about 20 applications from internationally educated health professionals per year. Approximately half of all CRTO applicants were not internationally educated respiratory therapists, but had originally been educated in other health professions, primarily as doctors. These applicants were therefore seeking to transition to a new profession in a new country through the PLA process.

While there were a number of useful findings regarding the CRTO PLA, the most significant was that only eight internationally educated applicants had become registered as RTs through this process during the period studied.

The PLA assessments revealed that majority of PLA candidates had gaps in core, foundation areas of respiratory theory and practice, including:

- Ventilation Management
- Airway Management
- General Therapeutics
- Cardiac Diagnostic Testing
- Pulmonary Diagnostic Testing
- Pharmacology
- Anaesthesia Assistance
- Hemodynamic Monitoring
- Blood Analysis
- Patient/Client Assessment

Methodology

During the course of the Gap Analysis Project, the project manager acted as the principal researcher and collected relevant data and information for the analysis through a number of methods and sources. These included:

- Consultations with all project partners to guide the work;
- Review of the CRTO PLA policies and process 1999-2009;
- File review of all PLA candidate files 1999-2008;
- Review and analysis of all available PLA Self- , Stage 1 and Stage 2 assessments (1999-2008);
- Review of PLA outcomes;
- Interviews with staff of the Michener Institute for Applied Health Sciences;
- Electronic survey of PLA Stage 3 clinical assessors;
- Interviews with PLA Stage 3 clinical assessors;
- Electronic survey of PLA candidates;
- Interviews with Michener pilot RT bridging program participants;
- Review of the Colleges Integrating Immigrants to Employment (CIITE) Project Outcomes;
- Review of curriculum information from Ontario full-time respiratory therapy programs;
- Review of academic policies of Ontario full-time respiratory therapy programs; and
- Review of program information from selected respiratory therapy programs in other Canadian jurisdictions.

| School | Location | Institution funded by: |
|--|-----------|--|
| Algonquin College | Ottawa | Ministry of Training, Colleges and Universities (MTCU) |
| Canadore College | North Bay | MTCU |
| La Cité Collégiale | Ottawa | MTCU |
| Conestoga College | Kitchener | MTCU |
| Fanshawe College | London | MTCU |
| Michener Institute for Applied Health Sciences | Toronto | Ministry of Health and Long-term Care (MoHLTC) |

Respiratory Therapy is a profession that requires a great deal of clinical education and this is delivered both through simulation laboratory experiences at schools, but also through clinical practice placements of several months duration offered in conjunction with teaching and community hospitals and other health care organizations. Due to high demands on teaching hospitals and other factors such as funding models, schools have reported some difficulties in finding clinical placements for students in respiratory therapy programs.

While all accredited RT programs in Canada prepare students to develop the RT entry-to-practice competencies, a review of Ontario RT programs revealed that the program curricula are organized and delivered quite differently from school to school. Programs take between 6 – 8 semesters to complete, subjects are introduced during different semesters in the program and programs may differ slightly in their emphases and their use of clinical simulation.

An overview of academic policies was undertaken as part of the GAP research. This revealed that all schools delivering respiratory therapy education in Ontario have policies that allow them to recognize prior learning in some way, whether through credit transfer, course exemptions, advanced standing or college-specific PLA processes that may involve assessments such as a challenge examination. In addition, schools have requirements regarding how much of a program must be completed at their institution to enable students to graduate with their diploma. The requirements regarding this vary by school, with no school requiring more than 50% of a program⁴ be completed at their institution.

⁴There are a number of conditions regarding this, and learners would have to be eligible to transfer a sufficient proportion of the program to meet the school's requirements.

| Country Where Education Completed, Grouped by Country all PLA-eligible Applicants: 1999 - 2008 | | | | |
|---|-----------|--|---|------------|
| Country | RT | MD with RT or Anaesthesia specialty | MD with no RT or Anaesthesia specialty | Total |
| Philippines | 55 | 1 | 2 | 58 |
| India | 4 | 9 | 5 | 18 |
| China | 0 | 2 | 14 | 16 |
| United States | 9 | 0 | 0 | 9 |
| Bangladesh | 0 | 1 | 4 | 5 |
| Colombia | 4 | 0 | 1 | 5 |
| Iran | 0 | 1 | 3 | 4 |
| Yugoslavia | 0 | 0 | 2 | 2 |
| Pakistan | 0 | 1 | 1 | 2 |
| Russia | 0 | 1 | 1 | 2 |
| Taiwan | 1 | 0 | 1 | 2 |
| Turkey | 0 | 1 | 1 | 2 |
| Albania | 0 | 2 | 0 | 2 |
| Ukraine | 0 | 2 | 0 | 2 |
| Afghanistan | 0 | 0 | 1 | 1 |
| Brazil | 0 | 0 | 1 | 1 |
| Canada (Quebec) | 0 | 0 | 1 | 1 |
| Egypt | 0 | 0 | 1 | 1 |
| Lebanon | 0 | 0 | 1 | 1 |
| Romania | 0 | 0 | 1 | 1 |
| Syria | 0 | 0 | 1 | 1 |
| Belarus/Japan | 0 | 1 | 0 | 1 |
| Ecuador | 1 | 0 | 0 | 1 |
| Haiti | 0 | 1 | 0 | 1 |
| Sri Lanka | 0 | 1 | 0 | 1 |
| Total | 74 | 24 | 42 | 140 |

It is significant to note that RT-educated applicants in the sample had completed their respiratory therapy education in only five countries. In all, IERT applicants completed their RT education in one of only 15 schools world-wide (6 schools in the Philippines; five schools in the U.S.; two schools in India and one school in each of Columbia and Ecuador).

| Programs Completed by International Educated Respiratory Therapy (IERT) Applicants | | |
|--|--|---|
| Country | Type of Program ⁹ | School |
| Philippines | Diploma or Bachelor's Degree (RT) | Emilio Aguinaldo College |
| Philippines | Bachelor's Degree (RT) | University of Perpetual Help |
| Philippines | Associate or Bachelor's Degree (RT) | St. Jude College |
| Philippines | Bachelor's Degree (RT) | De La Salle University |
| Philippines | Bachelor's Degree (RT) | Pines City Educational Center |
| Philippines | Certificate or Diploma (RT) | Mary Chiles College |
| USA | Associate Degree (RT) | ATI Health Education Centers |
| USA | Associate Degree (RT) | San Joaquin Valley College |
| USA | Associate Degree (RT) | College of DuPage |
| USA | Associate Degree (RT) | Bergen Community College |
| USA | Associate Degree (RT) | California College |
| India | Bachelor's Degree (Allied Health Sciences – Respiratory Care Technology) | Sri Ramachandra Medical College |
| India | Bachelor of Respiratory Therapy | Manipal College of Allied Health Sciences |
| Columbia | Bachelor's Degree (RT) | University Foundation Andean Area |
| Ecuador | Bachelor of Science | University of Cuenca |

⁹ Education programs differ between countries and a Bachelor's degree from another country may not be assessed as equivalent to an Ontario undergraduate degree. In the Philippines, for example, the entry requirement for university programs is the completion of a high school diploma (*Katibayan*) which consists of ten years of elementary and secondary education. In considering this entry level, credential evaluation may indicate that such a program is equivalent to completion of an Ontario secondary school education and a two-year college diploma.

| Country where education was completed CRTO PLA Candidates ¹³ : 1999 - 2008 | | |
|--|-----------|--------------|
| Country | # | % |
| Philippines | 33 | 41.3 |
| India | 14 | 17.5 |
| China | 8 | 10.0 |
| Bangladesh | 5 | 6.3 |
| Colombia | 4 | 5.0 |
| United States | 3 | 3.8 |
| Iran | 2 | 2.5 |
| Albania | 2 | 2.5 |
| Ukraine | 2 | 2.5 |
| Belarus/Japan | 1 | 1.3 |
| Romania | 1 | 1.3 |
| Pakistan | 1 | 1.3 |
| Lebanon | 1 | 1.3 |
| Brazil | 1 | 1.3 |
| Turkey | 1 | 1.3 |
| Sri Lanka | 1 | 1.3 |
| Total | 80 | 100.0 |

As can be seen in the following table, half of the applicants who completed some of the PLA process were RTs, the vast majority of them educated in the Philippines. There were also a handful of RT candidates from India, Colombia and the U.S. who completed some PLA.

The other half of the applicants who completed some PLA were IEHPs (mainly physicians) and had completed their education in one or more of 14 different countries. While 18 of these physicians had completed specialities in respiratory- or anaesthesia-related specialities, the others had not and were generalists, physicians with other specialities or other IEHPs.

¹³ This table refers only to eligible candidates who completed some or all of the PLA process. Many eligible candidates did not attempt PLA.

| Profile of 8 Successful PLA Candidates | | | | |
|--|--------|--|-----------------------------------|--------|
| Education completed | Number | | Country where education completed | Number |
| Respiratory Therapy (RT): | 2 | | China | 2 |
| MD (resp./anaesthesia): | 2 | | India | 2 |
| MD (non-RT): | 3 | | Iran | 1 |
| Anaesthesia Technician: | 1 | | Philippines | 1 |
| | | | Ukraine | 1 |
| | | | U.S. | 1 |

The following table puts these numbers in the context of all PLA candidates.

| PLA Process Result – all PLA Candidates | | | | | |
|---|----------------|----------------|--------------|--------------|--------------|
| Country | # Unsuccessful | % Unsuccessful | # Successful | % Successful | Total |
| Philippines | 32 | 97.0 | 1 | 3.0 | 100.0 |
| India | 12 | 85.7 | 2 | 14.3 | 100.0 |
| China | 6 | 75.0 | 2 | 25.0 | 100.0 |
| Bangladesh | 5 | 100.0 | 0 | 0.0 | 100.0 |
| Colombia | 4 | 100.0 | 0 | 0.0 | 100.0 |
| United States | 2 | 66.7 | 1 | 33.3 | 100.0 |
| Albania | 2 | 100.0 | 0 | 0.0 | 100.0 |
| Iran | 1 | 50.0 | 1 | 50.0 | 100.0 |
| Ukraine | 1 | 50.0 | 1 | 50.0 | 100.0 |
| Belarus/Japan | 1 | 100.0 | 0 | 0.0 | 100.0 |
| Brazil | 1 | 100.0 | 0 | 0.0 | 100.0 |
| Lebanon | 1 | 100.0 | 0 | 0.0 | 100.0 |
| Pakistan | 1 | 100.0 | 0 | 0.0 | 100.0 |
| Romania | 1 | 100.0 | 0 | 0.0 | 100.0 |
| Sri Lanka | 1 | 100.0 | 0 | 0.0 | 100.0 |
| Turkey | 1 | 100.0 | 0 | 0.0 | 100.0 |
| Total | 72 | 90.0 | 8 | 10.0 | 100.0 |

the categories for Stage 1 charts are ordered from greatest weight to least weight in terms of the CBRC. Gaps unrelated to the NCP were infrequently noted and are included at the bottom of the chart.

As with the Self-assessment data, the Stage 1 results are grouped as follows:

- All PLA candidates;
- RT-educated candidates vs. MD-educated candidates with RT or Anaesthesia background;
- RT-educated candidates vs. MD-educated candidates without RT or Anaesthesia background; and,
- Successful vs. Unsuccessful/Incomplete PLA applicants.

Gaps Identified: All PLA Candidates

Overall, the competency areas where gaps were most frequently identified in the Stage 1 Assessments were:

1. Ventilation Management (gap identified in 83% of assessments)
2. Cardiac Diagnostic Testing (gap identified in 78% of assessments)
3. Pulmonary Diagnostic Testing (gap identified in 74% of assessments)
4. Pharmacology (gap identified in 68% of assessments)
5. Anaesthesia Assistance (gap identified in 67% of assessments)
6. Hemodynamic Monitoring (gap identified in 64% of assessments)
7. Patient/Client Assessment (gap identified in 57% of assessments)

Ventilation Management is the area most frequently identified as a gap in the assessments, and is also the most highly weighted competency of the CBRC. Similarly, other frequently identified gap areas correspond to competencies with high weight on the CBRC.

Gaps Identified: RT vs. MDs with RT or Anaesthesia background

When the assessments of PLA candidates with a respiratory care educational background were compared to those with a medical background with an RT or Anaesthesia speciality, some differences can be observed. RT candidates were less likely to have gaps identified in Ventilation Management, Patient/Client Assessment or Basic Respiratory Care but more likely than the comparator group of PLA candidates to have gaps identified in Blood Analysis, Anaesthesia Assistance and Pharmacology.

Gaps Identified: RT vs. MDs without RT or Anaesthesia background + other IEHPs

When the assessment of PLA candidates with a respiratory care educational background were compared to those with a medical background without an RT or Anaesthesia speciality and other IEHPs¹⁵, IERT candidates were less likely to have gaps identified in Ventilation Management, Basic Respiratory Care or Pulmonary Diagnostic Testing. However, IERT candidates were more likely than the comparator group of IEHPs to have gaps identified in Patient/Client Assessment, Blood Analysis, Anaesthesia Assistance, Pharmacology, Cardiac diagnostic Testing, Hemodynamic Monitoring and Communications.

Gaps Identified: Successful vs. Unsuccessful/Incomplete

It is quite interesting to look at the assessment of successful PLA candidates (those who eventually successfully completed all stages and were registered with the CRTO) as opposed to those who did not complete PLA or were unsuccessful. One of the significant observations is that even PLA candidates who were ultimately successful did have identified gaps. In fact, successful PLA candidates were actually more likely to have gaps identified in the competency areas of Ventilation Management, Basic Respiratory Care, Pharmacology and Medical Gas Therapy. Successful candidates were however, much less likely to have gaps identified in Patient/Client Assessment, Pulmonary Diagnostic Testing, Blood Analysis, Anaesthesia Assistance, Cardiac Diagnostic Testing and Hemodynamic Monitoring.

Summary of Stage 1 Interview and Feedback Findings:

The observations that can be drawn from these Stage 1 Assessments are:

- All PLA candidates were assessed as having learning gaps, the majority in core, foundational competency areas of RT practice.
- While there were variations in the gaps identified for PLA candidates with an RT- vs. non-RT educational background the sample size was too small and the variability too great to identify distinct trends.
- It is significant that even PLA candidates who were ultimately successful had identified learning gaps in foundational areas of RT practice. This may indicate that these candidates may not have necessarily had a stronger RT-related knowledge or competency base, but that overall strengths in other competency areas or the ability/ willingness to complete whatever additional education was necessary may have led to successful outcomes for these candidates.

¹⁵ This included Anaesthesia and Medical Technicians.

Stage 2 Didactic Assessments

The Stage 2 Didactic Assessment is administered to PLA candidates who have completed Stage 1 and usually completed additional courses and/or self-study. PLA candidates decide, usually in consultation with the school, at what point they will attempt this assessment. The Stage 2 Didactic Assessment is the same test that must be completed by the students in the full-time RT program at the end of their 3 years of study¹⁶, in order to graduate. During the time period in consideration (1999 – 2008), the sections of the exam were based on the Canadian Society of Respiratory Therapists (CSRT) 2000-2005 Occupational Profile¹⁷.

Students are required to obtain a score of 60% on this assessment in order to pass. PLA candidates are allowed to attempt this assessment only twice. If they fail twice they are not allowed to proceed in the PLA process. This is in effect the first stage at which PLA candidates can be stopped in the PLA process. PLA candidates must pass the Stage 2 Didactic Assessment before being allowed to progress to the Stage 3 Clinical Assessment.

Methodology

In all, overall scores were obtained for 28 PLA candidates. Breakdown scores, which provide the scores on specific sections of the assessment, were available for only 14 PLA Stage 2 exam writers. In order to demonstrate the relative importance of these sections, the competencies were placed in order in the charts consistent with the weighting of these items on the CBRC.

Additionally, the results were grouped to look at the overall and section marks scores by:

- All PLA candidates;
- RT-educated candidates vs. MD-educated candidates with RT or Anaesthesia background;
- RT-educated candidates vs. MD-educated candidates without RT or Anaesthesia background; and,
- Successful vs. Unsuccessful/Incomplete PLA applicants.

¹⁶ This may partly account for the low success rate on this assessment. While full-time RT students attempt this exam after successfully completing three years of study including clinical placement, PLA candidates, many of whom are not RTs, must pass this prior to being exposed to an RT clinical placement experience in Canada.

¹⁷ 2000 – 2005 Occupational Profile, Canadian Society of Respiratory Therapists.

Overall scores provide only a broad overview of average scores. The sample size is too small, especially when broken down by comparator group, to draw firm conclusions regarding trends in areas of weakness or “gaps”.

(Didactic) assessment marks (see Figures 23 – 26, Appendix 4) were compared as total marks and section marks.

Overall performance on Stage 2 Didactic Assessment: All PLA Candidates

The overall average score of all PLA candidates who attempted the Stage 2 Didactic Assessment was 55.1%. When the distribution of exam scores on the Stage 2 Didactic Assessment are looked at overall (Figures 21 – 22, Appendix 4) it can be seen that the marks are skewed on the low side, with some PLA candidates scoring as low as between 35 – 39% and no exam writers scoring above 75%. As can be observed in Figure 22, Appendix 4, even some individuals who passed Stage 2 were ultimately unsuccessful in successfully completing the PLA process and becoming registered. In discussion with assessors at the Michener Institute, this is consistent with their observation that even individuals who pass the Stage 2 Didactic Assessment “squeaked through” and were not necessarily candidates with strong RT-related competencies. When performance on specific areas of the Stage 2 Didactic Assessment exam are looked at (see Figure 23, Appendix 4), the scores on areas that are heavily weighted on the CBRC were quite low, and significantly below the 60% pass rate.

For example:

1. Ventilation Management: 45.8%
2. Airway Management: 54.7%
3. Patient Evaluation: 49.5%
4. General Therapeutics: 44.7%
5. Pulmonary Diagnostic Testing: 46.4%
6. Health and Safety: 53.4%
7. Blood Analysis: 53.7%

Didactic Assessment Scores: IERT vs. MDs with RT or Anaesthesia background (Figure 24, Appendix 4)

Caution should be used when observing these results, as few section marks were available and therefore the total sample size is extremely small ($n = 11$). A basic observation is that PLA candidates who were MDs with RT or Anaesthesia background scored significantly higher overall (63.9% vs. 49.9%) and on virtually every area of this assessment as compared to PLA candidates with an RT background.

Survey of CRTO PLA Clinical Assessors

In March 2010 an electronic survey was distributed to CRTO members who were believed to have supervised PLA candidates completing their Stage 3 Clinical Assessments between 1999-2009¹⁸.

The purpose of the survey was to gain a better understanding of their assessment of the strengths and weaknesses of CRTO PLA candidates they had supervised and to find out whether they had any observations or recommendations regarding the PLA process that could be useful for shaping a future model.

In all the CRTO distributed the survey to 35 of its members who were believed to have supervised PLA candidates completing their Stage 3 Clinical Assessments between 1999-2009 and for whom valid e-mail addresses were available. In all 16 individuals responded to the survey, a response rate of 46%. Of the 16 respondents, 13 confirmed that they had supervised PLA candidates and three indicated that they had not, and were therefore exited from the survey. The survey is included as Appendix 5.

Some of the highlights of the survey responses included:

- A quarter of respondents indicated they had supervised one IEHP, with the remainder indicating they had supervised more than one. Three clinical assessors had supervised five or more IEHP PLA candidates.
- The majority reported that their supervisory experience was recent, the greatest activity had occurred in 2008, when eight individuals indicated they had supervised a candidate in that year.
- When asked to rate the competencies of PLA candidates they had supervised, respondents were able to report only on those areas of practice that they had supervised; therefore the responses were few in some areas.
- The assessors rated the performance of PLA candidates as satisfactory or strong in the majority of competency areas. The exceptions were: Health Education, Prevention and Promotion; Consultation/Collaboration; Ventilation Management; and Communications.
- Assessors indicated that securing clinical placements seemed to be difficult for the PLA candidates and some seemed unprepared for this stage. Some reported that PLA candidates had difficulties with airway management and ventilation; on the other hand one assessor reported that IEHPs who were educated as Anaesthesiologists had excellent skills in airway management.

¹⁸ For the purpose of this information-gathering exercise, the data sample was expanded to include 1999 data.

educated in other countries were not used to the technical skills, critical thinking, and independent, therapeutic role played by RTs in Ontario practice. Several reported that, in the country where they had completed their education, RTs generally had a very restricted and technical role.

In general, the assessor observed that internationally educated doctors seemed to have fairly good assessment and patient care knowledge, but they lacked the RT technical skills; IEHPs educated as anaesthetists generally had stronger trouble-shooting and technical skills than other PLA candidates.

In all, from 1999-2009 two candidates of the candidates she assessed in the NICU successfully completed their placements and ultimately became registered with the CRTO as RTs; at least one candidate was still in process at the time of the interview. It was noted that both of the successful PLA candidates had previously been educated and had worked professionally as anaesthetists before coming to Canada, and that they had completed a number of Access and Options courses and completed a great deal of self-study.

This clinical assessor had also supervised three internationally educated doctors completing the full-time Michener RT program who were unsuccessful in their NICU clinical placement, though no further observations were provided regarding this.

This clinical assessor recommended that the content of an education program for IEHPs include:

- orientation to the role of respiratory therapists in Ontario healthcare;
- education in basic respiratory therapy theory, practice and technology;
- practice using the technology of respiratory therapy care (ventilators etc.); and
- health-care communications training that would include specific orientation and practice in the style and culture of health-care and inter-professional communications in Canada (not just health-care terminology or English as a Second Language).

The successful PLA candidates were not hired by this hospital as there were no vacant positions available when they were looking for employment.

Second interview:

This clinical assessor worked in a Toronto-area community (non-teaching) hospital and had supervised two PLA candidates in their clinical placements. These placements took place between 2002 - 2006. One other IEHP had successfully registered as a respiratory therapist in previous years, and she acted as a clinical assessor/preceptor for one of the candidates.

As this facility is not a teaching hospital, they have not in the past usually supervised students in clinical placement, though recently they have begun to provide clinical placements for one of the community colleges offering a full-time RT program. The PLA candidates underwent their supervised placements one at a time over 24 weeks, and this facility was able to provide them clinical rotations in all required areas except for paediatrics and the Neonatal Intensive Care Unit.

The clinical assessor's main observations were that PLA candidates struggled in the beginning of their clinical placements and took longer to successfully demonstrate the required RT competencies and complete the clinical placements than full-time students generally would. It was further indicated that while the IEHPs supervised had RT theoretical knowledge and good assessment and patient care skills, they lacked technical skills in respiratory therapy and had difficulties at first applying theory to practice. This assessor also mentioned that in a community hospital setting RTs practice quite independently and therefore the candidates had to really work on developing their critical thinking and confidence in order to practice in a self-directed way.

Communications issues related to culture, rather than to English language ability, presented some difficulty in the clinical placements. In one case there were some conflicts and misunderstandings between a preceptor and one of the PLA candidates that appeared to result from them coming from cultures with very different communication styles. The hospital, with the assistance of the Michener Institute, was able to assist the candidate and preceptor in working through and resolving the conflict and it became an important learning experience for all.

The clinical assessor's recommendations regarding the content of an education program for IEHPs is that they be provided:

- greater orientation to the role of respiratory therapists in Ontario healthcare, perhaps including job-shadowing;
- education in basic respiratory therapy practice;
- access to simulated clinical practice to develop familiarity with respiratory therapy technology (ventilators etc.) prior to entry to clinical placement; and
- learning about communications within the healthcare team in Ontario.

This assessor was very positive about the potential benefits of providing mentoring as an additional support to IEHPs, and indicated that this community hospital has a well-developed mentorship/preceptorship training program.

Both of the PLA candidates who completed their Stage 3 clinical placements were successful and have been hired by the hospital. One has completed additional education in order to qualify to be an Anaesthesia Assistant.

Survey of CRTO PLA Candidates

In March 2010 an electronic survey was distributed to 80 PLA candidates who had been involved in the process between 1999 – 2009¹⁹ and for whom CRTO had valid e-mail addresses.

The purpose of this survey was to gather additional profile information regarding the PLA candidates and to learn more about their experience of the PLA process and the pilot RT bridging program (if applicable) and to find out whether they had any observations or recommendations that could be useful for shaping the development of a future model. This survey is attached as Appendix 6.

In all 31 individuals responded to the survey, a response rate of almost 39%. The respondents were reflective of the overall population of CRTO applicants who attempted PLA; the largest group of respondents were educated in the Philippines (13) with the next largest groups of respondents having been educated in India (4) and Bangladesh (4). Four U.S.-educated applicants also completed the survey, with the remainder having completed their education in a number of different countries.

Some of the highlights of the survey responses included:

- Almost 57% reported having completed respiratory therapy education.
- Most respondents were not recent graduates. Only two had graduated in 2007, with the rest reporting having completed their education in 2003 or earlier (as far back as 1983). The most frequently reported years of graduation were 1997, 1995 and 1994.
- Almost two-thirds of respondents (19) reported having been registered in their profession before coming to Canada. A third (10) reported that their health profession was not regulated in the country where they had completed their education (likely RT graduates from countries other than the U.S.).
- Most respondents (27) reported having worked in their profession for a year or more before immigrating; only two indicated that they had not worked in their profession at all.
- Most respondents came to Canada as Independent/Professional class migrants (almost 59%) with the next largest group being Family class (24%) followed by Live-in Caregiver (10%).
- 45% of respondents had come to Canada alone, with the remainder reporting having immigrated with other family members such as a spouse, children or extended family.

¹⁹ For the purpose of this information-gathering exercise, the data sample was expanded to include 1999 data.

Michener Institute Pilot RT Bridging Program

Since 2002 the Michener Institute for Applied Health Sciences has offered the Access and Options (A & O) program to allow IEHPs in three professions (Medical Radiation Technology, Medical Laboratory Sciences and Respiratory Therapy) to take orientation and review courses to help prepare them for professional registration in Ontario. For a number of years IERTs and IEHPs going through CRTO PLA at the Michener Institute would be directed or recommended, after the Stage 1 Assessment, to take a number of A & O courses to help prepare them for the Stage 2 Didactic assessment.

The A & O courses were designed primarily as review courses, under the assumption that IEHPs had knowledge and skills of the content and needed mainly to refresh their knowledge and become familiar with the practice of their profession in the Canadian context.

Through the experience of delivering A & O courses for several years, the Michener Institute recognized that the majority of CRTO PLA candidates had substantial learning gaps in respiratory therapy theoretical knowledge and hands-on clinical skills and competencies that could not be met by the few courses available to them or through self-study. In 2008-2009 an RT bridging program was developed and piloted (see program outline as Appendix 7) to better meet the learning needs of PLA candidates.

The program was delivered mostly part-time, except for the Simulated Clinical portion, in which the bridging students were integrated into courses with the third-year full-time RT students for a period of 15 weeks. The theory and Simulated Clinical components of the program comprised a maximum of 405 hours of instruction, and participants were not allowed to progress to a clinical placement in a hospital setting unless they passed the Simulated Clinical courses and the Stage 2 Didactic examination.

The Michener RT Bridging Program, while not officially considered part of the PLA process, was designed to be taken in “lock-step” with the PLA process. The theoretical courses and Simulated Clinical were designed to be taken between Stages 1 and 2, and the PLA Stage 2 Didactic Assessment was used to determine whether participants could move on to the clinical placement (considered for these candidates to be Stage 3 of the PLA). All of the bridging program participants were already involved in the PLA process and many had already taken a number of Access and Options courses before entering the bridging program.

The bridging program tuition costs were approximately \$5,500. This did not include related costs such as mask fitting, books or the costs of the Stage 3 clinical placement, if they became eligible to advance to that stage. As it was offered as a pilot and largely part-time program, participants were ineligible for the Ontario Student Assistance Program (OSAP) or other forms of student aid, though some were able to secure lines of credit.

As part of the program was delivered full-time during the day, some participants also left paid employment or reduced their number of working hours to accommodate the study schedule.

Unfortunately, the results of the pilot bridging program were disappointing. By the end of the pilot year, initially only two candidates out of seven met all requirements to progress to the Stage 3 clinical placement.

There were a number of difficult issues that arose regarding the pilot delivery. For example, due to time constraints, learners completed the Clinical Simulation courses just a few days prior to sitting the Didactic exam (PLA Stage 2 assessment). This meant that individuals were allowed to attempt the Stage 2 Didactic exam before learning that some of them had failed a Clinical Simulation course. The Michener bridging program requirements indicated that learners were required to pass the Clinical Simulation courses *and* the Stage 2 Didactic assessment before proceeding to Stage 3. This created a great deal of confusion, as the PLA process allows a candidate who has passed Stage 2 to proceed to Stage 3.

By September 2009 when the results of the Michener RT Bridging Program were known, the College was quite concerned that applicants were dedicating a great deal of effort and financial resources to the PLA and bridging program²⁰ without success. Therefore, the College recommended that the Michener Institute pause intake into the bridging program until the completion of the Gap Analysis Project (GAP).

After a significant amount of discussion and compromise, a few more participants were ultimately allowed to proceed to Stage 3 in Fall 2009. As of May 2010 only one of the bridging program participants has successfully completed their Stage 3 Clinical Assessment and become eligible for CRTO registration.

Due to the many issues associated with the pilot delivery of the program, some CRTO applicants have felt that they were not treated fairly or were misled in terms of the process and the likelihood that they would be successful. A number of applicants have now exhausted their PLA opportunities and at least one has been refused registration.

As part of the GAP, the Project Manager undertook interviews with Michener staff and bridging program participants in order to learn about the challenges, strengths, weaknesses and general experience of this pilot bridging program initiative. As the Michener Institute is also one of the Partners on the GAP, the input of staff has provided on-going valuable insight and recommendations throughout the project on how to proceed with the development of an educational model for the future.

²⁰ The cost of the PLA process was \$100. and \$250. for Stage 1 and 2 assessments respectively; the Stage 3 clinical assessment could take several months and cost several thousand dollars to complete (\$190./wk for 20 or more weeks). Applicants who had undertaken PLA, Access and Options courses and the bridging program have reported spending over \$10,000 -\$14,000 or more, usually without successfully attaining registration.

- All mentioned that they needed a thorough orientation to the simulated clinical setting in order to become familiar with this type of learning, the technology and the expectations of them and their performance as learners.
- One IEHP mentioned that they did not have sufficient preparatory learning or experience with oxygen cylinders, arterial blood gas testing or ventilators before going into this section.
- One participant mentioned only having had the opportunity to perform suctioning once in this section, and felt that this was insufficient before entering clinical placement in a hospital.
- Some felt that the expectations of them were not clear.
- All mentioned that they really needed more time to learn and practice before being assessed.
- Most felt that the simulation setting was unrealistic and that they would be able to perform better in a clinical practice setting.
- Most indicated that there were communications issues as they weren't sure how they were supposed to communicate within the team and mentioned issues like making eye contact, being assertive etc.
- All felt that there were real challenges to being integrated into the simulation with 3rd year full-time students without having taken any courses with them previously. They felt that they were compared unfavourably to the full-time students and that even though other students and some clinical instructors were helpful and patient. The bridging participants were of the view that others perceived them as a burden.

Feedback regarding PLA Stage 2 didactic assessment

- One participant reported having had insufficient time (a few days) between the end of the Simulation Section and the Didactic Assessment and felt that his/her performance would have been better if provided more time to prepare.
- One participant mentioned the time limit and felt s/he would have performed better with more time allowed.
- One participant mentioned that it would be more appropriate to take this assessment after having completed clinical placement.

RT Education Models for IEHPs in other Canadian Provinces

Collège Rosemont (Quebec) RT Bridging Program

Since 2003, the Quebec regulatory body, *L'Ordre professionnel des inhalothérapeutes du Québec* (OPIQ) in Quebec, has developed collaborative relationships with colleges (CEGEPs, which are *collèges d'enseignement général et professionnel*) to enable IERTs and IEHPs to complete additional education to meet the education requirement of registration. Until recently, OPIQ and the colleges used a program integration model to enable internationally educated RTs and other health professionals undertake the additional education required to “bridge” to RT practice. Most applicants were referred to Collège Rosemont in Montreal to do this.

As part of this process, OPIQ would initially review the applicant’s file and provide him/her direction regarding which courses they would be required to complete in order to be considered to have met the education requirement for RT registration.

At Collège Rosemont, internationally educated applicants were integrated into the full-time respiratory therapy program, taking only the courses they had been directed to take by OPIQ. However, as they may have needed to complete courses in any of the years (first to third) of the program, it might take an individual the full three years, studying part-time, to complete the required courses. Such students received and completed their clinical placements in the same manner as the full-time CEGEP students. The cost of CEGEP education is very modest – from approximately \$118 - \$300 per semester (costs are lower for full-time students and higher for part-time studies).

This program integration model of education, while not expeditious, has proven quite successful. As of the end of 2009 15 internationally educated candidates were registered OPIQ members. In all, by the end of 2009 59 IERT/IEHP applicants had been referred to Collège Rosemont for additional studies.

In 2008, as part of a previous research project²¹ the principal researcher held a small focus group with a group of Quebec RTs who had originally completed their education in Morocco, had successfully gone through the program integration at Collège Rosemont, and were now OPIQ members. Their comments on the process are relevant to the GAP.

²¹ National Alliance of Respiratory Therapy Regulatory Bodies (NARTRB), 2008. *Access Issues Regarding Internationally Educated Health Professionals and the Respiratory Therapy Profession in Canada*. This report can be found at: <http://www.nartrb.ca/eng/documents/NAReportEnglishFinalApril4.pdf>.

While their experiences were varied, and one of them described hers as a “trial by fire” they were generally quite satisfied with the process. They felt that being in the classroom with Quebec students provided them with an acculturation experience that was sometimes difficult but ultimately valuable and expressed that it helped them to be very prepared to work in the Quebec health-care system. They appreciated going through the same clinical placements as their Quebec classmates and were quite eloquent about what they had learned about patient-centred care and inter-professional collaboration. All were employed full-time as respiratory therapists.

To build on this success, with a slightly different model, OPIQ has now developed a new program. In 2008-2009 OPIQ and Collège Rosemont, received funding from the Ministry of Immigration and Cultural Communities to design a bridging program (*programme de formation d'appoint*) for IERTs and IEHPs. This program began enrolment in January 2010 and the first cohort of 16 learners began the program in April 2010. This program is designed primarily to meet the educational needs of applicants educated in Morocco, Tunisia and Algeria²² and is anticipated to take 12 months for learners to complete.

It is important to note that this program is significantly different from the Michener program, partly due to the structure of post-secondary and RT education in Quebec. As mentioned, the tuition fees for CEGEP education in Quebec are very low, making this education option more affordable and accessible to new immigrants. IEHPs enrolling in the Collège Rosemont program are required to pay \$118 per semester. Most courses include both theory and clinical components, so the development of clinical skills is integrated throughout the program. The total number of hours of instruction is also significantly higher (almost triple) of what was offered in the Michener program, as can be seen in the program outline below.

²² Individuals educated in these countries make up 90% of OPIQ's IEHP applicants.

Some Context Issues

In addition to the initiatives already indicated in previous sections of this report, there have been a number of other important efforts undertaken in recent years directly related to the issue of access for internationally educated applicants to the respiratory therapy profession in Canada.

Recent CRTO Research

In addition to the GAP research, in 2009-2010 CRTO also contracted a researcher to undertake a Situational Analysis which consisted of an overview of current challenges and issues affecting the CRTO's handling of applications for registration from applicants educated outside of Canada or registered in another Canadian province outside of Ontario. This paper also identified trends, developments and initiatives that might be useful to the CRTO in managing these issues and handling these challenges. This paper described many of the challenges inherent to the PLA process identified in this paper, but also looked at labour mobility issues, policies regarding U.S. educated applicants, self-assessment and re-entry issues and fairness initiatives. This research supported and provided context, both directly related and complementary to, the GAP research.

National Alliance of Respiratory Therapy Regulatory Bodies

Since 2007, the National Alliance of Respiratory Therapy Regulatory Bodies (NARTRB) has been awarded substantial funding from the Foreign Credential Recognition (FCR) Program of the Ministry of Human Resources and Skills Development (HRSDC) Canada to investigate issues related to the entry of internationally educated health professionals into the profession of respiratory therapy in Canada.

This work has resulted in the publication of a national research report²⁷ identifying the challenges faced by IEHPs seeking to become RTs in Canada, holding a Learning Days²⁸ mini-conference that allowed stakeholders to share information regarding initiatives and challenges, and the development of a revised National Competency Profile²⁹ for the respiratory therapy profession. The Alliance is currently undertaking additional national research regarding certification, credentialing and examination processes, including a comparison of some U.S. and Canadian processes.

The CRTO is a very active participant in the Alliance's Foreign Credential Recognition project activities and is aware that the development of GAP recommendations and

²⁷ National Alliance of Respiratory Therapy Regulatory Bodies (NARTRB), 2008. *Access Issues Regarding Internationally Educated Health Professionals and the Respiratory Therapy Profession in Canada*. This report can be found at: <http://www.nartrb.ca/eng/documents/NAReportEnglishFinalApril4.pdf>.

²⁸ <http://www.nartrb.ca/eng/learning-days.php>

²⁹ <http://www.nartrb.ca/eng/documents/2011NCPfinal.pdf>

- The first stage was a didactic assessment. The tool for this stage was completed and was piloted. Unfortunately, none of the candidates successfully passed this stage.
- The second stage was a series of simulated scenarios. While these were developed and several participants agreed to participate in piloting them, the candidates were felt to have insufficient theoretical knowledge to be successful. Therefore, stage 2 was not piloted.
- The third stage was anticipated to be clinical assessment which was neither completed nor piloted.

Based on the colleges' analysis and other learning in the pilot, the conclusion was that a bridging program would be necessary for IEHPs to be successfully registered to practice RT in Canada. The CIITE work reinforces the finding of the GAP analysis – that many IEHPs have large gaps in foundational respiratory-therapy related knowledge and skills and substantial additional education would be required by the majority of applicants to enable them to acquire the competencies required to practice the profession in Ontario.

CIITE was an important partner on the GAP and the didactic assessment tool and simulated clinical scenarios developed through CIITE may be suitable to be adapted and used as part of the proposed new educational model.

Developments and Issues in Respiratory Therapy Education in Ontario

During the course of the Gap Analysis Project, many discussions were held with education partners to better understand the current context regarding respiratory therapy education in Ontario. In this respect, it was invaluable to the project to have the active participation of educators on the Partners Group.

A number of issues that arose during discussions with the Partners highlighted the diversity between the full-time respiratory therapy programs and also indicated that full-time RT programs are undergoing a great deal of change at present. Some current issues and activities include:

- In addition to the Ontario College Application Service (OCAS) process, colleges use different processes or tools to determine admissions to respiratory therapy programs. These include: the use of the Health Occupations Aptitude Examination (HOAE), the Otis-Lennon School Ability Test (OLSAT); different language fluency tests (required by la Cité Collégiale in both official languages); the use of multiple-mini interviews as part of the entry assessment etc.
- Some colleges are also considering making changes to their admissions requirements in the near future.

Considerations Regarding an Appropriate Education Model

The original assumption regarding the Gap Analysis Project was that the analysis of the CRTO PLA process and assessments would identify learning gaps that could then be filled through the development of a respiratory therapy bridging program. It was assumed that such a bridging program would likely use available curricula from RT schools in Ontario, supplemented by additional curricula if required.

However, upon completing the research a number of issues became apparent:

- In Ontario, respiratory therapy is an allied health profession with a relatively small number of members and an average of only about 20 internationally-educated applicants per year.
- Internationally educated applicants to the CRTO come from various countries and various health education backgrounds; approximately half of the applicants have not completed respiratory therapy education and have no work experience as respiratory therapists.
- The learning needs of applicants are different, depending on their educational background, and successful PLA candidates completed a number of different courses and self-study to prepare themselves for the Stage 3 Clinical Assessment.
- Very few (eight) PLA candidates successfully completed PLA and become registered as RTs from 1999-2008. Those who were successful included both those with an RT background and those with various medical degrees.
- Most PLA candidates had gaps in core, foundational respiratory therapy competencies such as:
 - Ventilation Management
 - Airway Management
 - General Therapeutics
 - Cardiac Diagnostic Testing
 - Pulmonary Diagnostic Testing
 - Pharmacology
 - Anaesthesia Assistance
 - Hemodynamic Monitoring
 - Blood Analysis
 - Patient/Client Assessment

These are competencies that are required for safe and effective patient care and, for the majority of IERT/IEHP applicants, need to be developed, not just reviewed.

Respiratory Therapy Program Model Options for IERTs/IEHPs

| | 1. Separate Bridging Program for IEHPs | 2. Supported Integration into Full-time Program | 3. Regular Entry into Full-time Program |
|---------------------------------------|---|---|--|
| Program description | Usually substantially shorter than a full-time program (i.e. 1 year or less in duration). Provides review/orientation to Ontario practice, fills small competency gaps. | Requires completion of majority of a full-time program. IEHPs would be granted course exemptions / advanced standing and complete additional education as required. Sufficient proportion of program completed to meet residency requirements & be granted diploma. | Requires completion of a complete full-time program. No course exemptions or advanced standing provided. IEHP completes all required courses of a diploma program |
| Appropriate IEHP learner group | Sufficient number of IEHPs with similar learning needs to warrant the creation of a separate program. | <ul style="list-style-type: none"> • Insufficient number of applicants to create a cohort (fewer than 10 per year). • IEHPs with different educational backgrounds, learning needs. | <ul style="list-style-type: none"> • Insufficient number of applicants to create a cohort (fewer than 10 per year). • IEHPs with different educational backgrounds, learning needs. |
| Entry Criteria | IEHPs with RT education w/ limited gaps, have met language fluency requirement. | IEHPs with RT education w/ large gaps or medical education; have met language fluency requirement; recent practice/graduation; have completed courses eligible for course exemptions, advanced standing. | IEHPs able to meet minimum full-time (f-t) program admission requirements. Not recent in practice/graduation. Few to no courses eligible for course exemptions, advanced standing |
| Infrastructure | Requires school to set up a separate program stream: eligibility criteria; intake; class; classroom; instructors and clinical placements. | Uses already-existing college policies regarding course exemptions / advanced standing, residency requirements to integrate and have IEHPs graduate from program as part of regular f-t cohort. | No change or additional efforts - IEHPs apply through OCAS, enter and graduate from program as part of regular f-t cohort. |
| Capacity Issues | Requires school to dedicate time and resources to developing a separate program stream. | <ul style="list-style-type: none"> • Requires school to work closely with IEHPs to determine course exemptions & advanced standing. • Requires willingness to provide support: provision of advising/support services to integrate IEHPs into f-t program and enhance student success. • May enable school to fill “empty” seats in 2nd or 3rd year, due to student attrition. | <ul style="list-style-type: none"> • Requires no change, but schools may want to ensure admission processes provide equal access to entry for IEHPs, or whether an alternative (e.g. # of seats set aside for IEHPs) is required. • Advising/support services for IEHPs may be needed to enhance IEHP student success. |

| Respiratory Therapy Program Model Options for IERTs/IEHPs | | | |
|--|--|---|--|
| | 1. Separate Bridging Program for IEHPs | 2. Supported Integration into Full-time Program | 3. Regular Entry into Full-time Program |
| Clinical education | Bridging program able to provide clinical education. | Clinical education provided as part of regular, f-t program. | Clinical education provided as part of regular, f-t program. |
| Educational Outcomes | Learning sufficient to attain same RT entry-to-practice (ETP) competencies as f-t program. | Must achieve RT ETP competencies to successfully complete program. | Must achieve RT ETP competencies to successfully complete program. |
| Credential | Certificate of course or program completion – usually no diploma. | RT Diploma | RT Diploma |
| Cost | Possibly \$5,500+ ³⁵ | Regular tuition ³⁶ (reduced, as fewer courses completed). | Regular tuition |
| Financial aid | Usually not eligible for “regular” government financial aid (OSAP, Ontario Special Bursary Program, Canada Student Loans etc.) | Depending on course load per semester, eligible for government financial aid, subject to same criteria as other students. | Eligible for government financial aid, subject to same criteria as other students. |

³⁵ Based on fees charged for Michener pilot RT bridging program. This does not include the costs of books etc.

³⁶ Tuition varies by school (may be as low as \$1200./semester; however, this does not include the costs of books, supplies etc. which may be \$1000.+).

Model Options

Option 1 **Separate Bridging Program for IEHPs:**

In considering the three model options, the Partners concluded that it is neither recommended nor feasible to try to develop a separate bridging program for internationally educated applicants wishing to enter respiratory therapy practice in Ontario. The number of internationally educated applicants to the profession is few, and those who have completed respiratory therapy education are even fewer. The GAP review of PLA assessments, evidence from the Michener pilot bridging program and results of the CIITE project suggest that the large majority of IEHP applicants have substantial gaps in foundational respiratory therapy competencies. This evidence also indicates that these learning needs cannot usually be met by review and orientation courses. A bridging program would not be suitable for internationally educated doctors transitioning to the respiratory therapy profession as they are seeking entry to a different profession and require foundational respiratory therapy education.

Option 2 **Supported Integration into Full-time Program**

The second option was developed in consultation with the partners as a new and innovative access model. This option was considered to be the most feasible option given the few numbers and the learning needs of applicants. It was also felt that this model could, with willingness and additional resources, be a model that respiratory therapy programs across Ontario could endorse.

This model would establish a direct access partnership between the CRTO and the colleges that would allow the CRTO to pre-screen CRTO (IEHP) applicants and in this way allow eligible IEHP candidates to gain admission to the program through a letter of direction from the CRTO rather than the Ontario College Application Service (OCAS) application process. In all other ways this model works within the existing academic structures of existing college RT programs, but establishes eligibility criteria for entry and requires a solid commitment by colleges to recognize as much of the applicant's prior learning as possible, within their own academic policies.

This option is similar to the program integration model used previously in Quebec to allow access to the full-time respiratory therapy for IEHPs. This process did not necessarily shorten the length of time between entry and completion of the program, but did allow learners to complete a

lighter course load, participate in clinical placements alongside other students and meet the registration requirement to become registered as RTs. It also provided a clear path and a timeline for program completion. This model would require applicants to complete the majority of a full-time program, but they could be granted exemptions for individual courses and/or advanced standing based on the education they had previously completed. Exemptions that might be granted could include Anatomy, Physiology, Pathophysiology and General Education courses³⁷.

As part of this partnership model, CRTO could support IEHPs in the process in a number of ways, including working with and advising colleges on appropriate exemptions to ensure that candidates gain the greatest amount of credit possible for previous study. One of the advantages of this model is that it would not be dependent on one school in one geographic region as a delivery partner – a number of colleges in Ontario could agree to partner with CRTO to allow access in this way. Another advantage is that eligible CRTO IEHP applicants would become regular students and eligible for financial aid under the same criteria as others in the program.

Option 3 Regular Entry into Full-time Program

Education Partners involved in the project reported that over the last few years a number of internationally educated candidates have applied to and completed their full-time programs. This has been and remains an option for any IERT or IEHP willing to complete a full three-year program and still may be the most appropriate option for some applicants. This could include those who have very large learning gaps, have been out of professional practice for many years or never practised after graduation or who would have difficulty integrating into a full-time program due to language fluency issues (such applicants could potentially complete available English language classes at a college as a pre-requisite to entering a full-time program at the same school).

While completion of a full program may seem like a lengthy and somewhat costly path to RT registration, the GAP research has indicated that many candidates are transitioning to a different type and level of respiratory therapy practice or changing professions altogether. As mentioned above, some applicants may have never practised their profession after graduating or have not practised for many years; the

³⁷ In keeping with the requirements of the Ministry of Training, Colleges and Universities, students in college respiratory therapy programs are required to complete four General Education courses as part of their diploma program. IEHPs that have already completed post-secondary education might be eligible for exemption for these courses.

Further Elaboration of a Supported Integration Model

In considering model option two as the most feasible option, a couple of additional questions arose:

- How could this model provide more support to IEHPs? and
- Is this an appropriate model for the few CRTO applicants, such as the U.S.-educated respiratory therapists, who may have only small, specific learning gaps?

In consideration of these questions, the model was further elaborated to include an option for some applicants with small, specific gaps to be directed to complete a few courses to meet the education program requirements, and others to be directed to the supported integration process or to completion of a full-time program.

In addition, it was felt that the model could be enhanced by providing additional supports, such as orientation to the profession of respiratory therapy, mentoring and group supports. The identification of these as appropriate supports have come largely from the feedback from educators and clinical assessors and are congruent with some of the recommendations developed through the National Alliance of Respiratory Therapy Regulatory Bodies' 2008 national research report.

The suggested Guidelines for a Supported Integration Process are included as Appendix 9 and the basic model for such a process is outlined on the following page.

While a basic supported integration model could be created through changes to CRTO registration policy and the negotiation of memoranda of understanding between the CRTO and schools delivering respiratory therapy education across Ontario, the full development of such a model would involve substantial additional development and would require additional financial resources.

The eligible criteria for applicants to enter an RT Supported Integration Process would be that the applicant:

- is an international RT or medical graduate;
- has practised with appropriate registration/licensure if he/she practised in their profession;
- meets CRTO language fluency requirement;
- has graduated and/or practised in their profession within past 5 years; and
- has completed education that could be eligible for advanced standing, credit transfer, exemption etc.

| PROPOSED SUPPORTED RESPIRATORY THERAPY INTEGRATION PROCESS MODEL | | | | |
|--|-----------------------|--|--|---|
| Timeline | Step | Activities | | |
| Any time | 1. Application | Applicant applies to the CRTO. | | |
| Within current CRTO guidelines | 2. Assessment | CRTO reviews all required documents, including credential and language fluency assessments, and does program review (of RT programs only ³⁹) and possibly experience review ⁴⁰ . | | |
| | 3. Decision | Applicant provided one of three decisions: | | |
| | | 1- Substantially RT education – some additional education required. Type of applicant: <ul style="list-style-type: none"> • International RT graduate. • Has practised with appropriate registration if he/she has worked as a respiratory therapist. • Meets CRTO language fluency requirement. • Has graduated and/or practised within past 2 years. • Lacking only specific program content (i.e. Anaesthesia, clinical exposure in specific practice area). | 2- Education not equivalent – applicant eligible for advanced standing and integration to full-time program. Type of applicant: <ul style="list-style-type: none"> • International RT or Medical graduate. • Has practised with appropriate registration if he/she practised in their profession. • Meets CRTO language fluency requirement • Has graduated and/or practised within past 5 years. • Has completed education that could be eligible for advanced standing, credit transfer, exemption etc. | 3 - Education not equivalent – applicant not eligible for advanced standing. Type of applicant: <ul style="list-style-type: none"> • Any applicant. • Education program not equivalent. • Does not meet CRTO language fluency requirement. • Has not practised or graduated within 5 or more years. |

³⁹ As the College regulates the practice of respiratory therapy and has in-depth knowledge of RT education programs, it has the capacity only to review respiratory therapy education programs for equivalency. Applicants with other health profession backgrounds will not be considered to have equivalent education but may be eligible for supported integration and the school will determine course exemptions.

⁴⁰ This would require some enhancement of the current CRTO program review assessment process.

PROPOSED SUPPORTED RESPIRATORY THERAPY INTEGRATION PROCESS MODEL

| Timeline | Step | Activities | | |
|--|--|---|--|---|
| Anytime - as soon as assessment complete | 4. CRTO direction to applicant | <ul style="list-style-type: none"> Directed to successfully complete specific additional education in order to meet equivalency to Ontario RT program. CRTO provides letter of direction to applicant for submission to RT school. School determines when applicant can start courses. | <ul style="list-style-type: none"> Provided opportunity to participate in supported integration to full-time program CRTO provides letter of direction to applicant for submission to school that has signed CRTO MOU. School grants admission based on CRTO direction⁴¹ and commits to integrating applicant as soon as feasible. | <ul style="list-style-type: none"> Directed to enrol in full-time RT program Applicant must apply through OCAS and go through regular RT program application process. |
| Spring | 5. RT Orientation Program (Non-credit) This may include: <ol style="list-style-type: none"> Intro. to RT practice in Ontario; Intro. to the Cdn. health care system; Health care specific communication | Optional for these applicants. | <ul style="list-style-type: none"> Mandatory for supported integration candidates – does not provide credit or advanced standing in full-time program. Includes completion of an RT assessment tool (adapted from CIITE didactic assessment tool) as a final step. | Not required but available for these applicants – <u>does not</u> provide credit or advanced standing in full-time program. |

⁴¹ Applicant does not have to apply through Ontario College Application Service (OCAS).

PROPOSED SUPPORTED RESPIRATORY THERAPY INTEGRATION PROCESS MODEL

| Timeline | Step | Activities | | |
|--|--|--|---|---|
| Any time before start of integration into full-time program. | 6. School's assessment re. integration to full-time program | N/A | <ul style="list-style-type: none"> • School reviews RT assessment and uses it to guide other assessments (transcript review, PLA, challenge exams, etc.) to determine advanced standing, exemptions and credit transfer. • School provides applicant clear direction re. courses that must be completed within the full-time program and when individual can anticipate completing the program. • Information copied to CRTO so that CRTO can track for evaluation purposes. | N/A |
| From when RT Orientation completed to CRTO registration | 7. On-going Supports provided | Mentoring & group support available | Mentoring & group support available | Mentoring & group support available |
| <1 – 3 years | 8. Completion of required education | Applicant completes required courses and provides evidence to CRTO in order to meet education requirement of registration. | Applicant completes required courses and graduates with Ontario RT diploma. | Applicant completes required courses and graduates with Ontario RT diploma. |
| On-going | 9. Evaluations | CRTO, in collaboration with partner educational institutions, to monitor on-going successes and challenges, education completion, CRTO registration. | | |

THE GAP ANALYSIS PROJECT

APPENDIX 1

Partners Group Members



CRTO Gaps Analysis Project Partners Group Members

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Jacqueline Bernard, Faculty in Respiratory Therapy Program

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Respiratory Therapy Program and Coordinator of the PLA Process
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THE GAP ANALYSIS PROJECT

APPENDIX 2

Additional Education Completed by
CRTO Applicants 1999 – 2008:

Successfully Completed PLA and
Became Registered RTs



**Additional Education Completed¹ by CRTO Applicants 1999 – 2008:
Successfully Completed PLA and Became Registered RTs**

| Michener Course Name | # course hours | Courses completed by successful PLA Candidates (numbered, de-identified) | | | | | |
|--|-------------------|--|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 |
| Interprofessional Course on Healthcare in Canada | 30 | x | x | x | | | x |
| Exam assessment only | 2 | | | | | x | |
| Cardiac Testing/Cardiac Physiology, taking & interpreting Electrocardiograms | 30 | | | x | | | |
| Pharmacology Review | 20 | | | x | | | |
| Pulmonary Function Testing <i>Review</i> | 20 | x | | | | | x |
| Pulmonary Function Testing <i>Full Course</i> | 50 | | | | x | | x |
| Principles of Mechanical Ventilation Review | 40 | | | x | | | |
| Anaesthesia Technology, Pharmacology and Monitoring | 40 | x | | | | | x |
| Anaesthesia | 55 | | | x | | | |
| Pathophysiology Review | 20 | | | x | | | |
| Neonatal Resuscitation (NRP) | 8 | x | | | | | |
| Neonatal / Paediatrics | 10 | | | x | | | |
| STABLE Transport Program | 8 | x | | | | | |
| Exam Preparation | 6 | | | x | | | x |
| Continuing Care | 10 | | | x | | | x |
| Labs for ventilation, RT equipment, PFT, neonatal-paediatrics in full-time program | ~26 hrs / subject | | x | | | | |

¹ This table contains available information regarding six of the eight successful PLA candidates. Data may be incomplete; the purpose is to show the range of additional education completed.

THE GAP ANALYSIS PROJECT

APPENDIX 3

Prior Learning Assessment Self-assessment Form



College of Respiratory Therapists of Ontario

Ordre des thérapeutes respiratoires de l'Ontario

APPLICANT NAME: _____

PRIOR LEARNING ASSESSMENT SELF-ASSESSMENT FORM

The purpose of this checklist is to assist you in identifying the experience you have had in practising respiratory care/therapy and the degree to which there is overlap in the theoretical and clinical performance elements identified in the CRTO Entry to Practice Competencies document with your experience. The purpose of a Prior Learning Assessment (PLA) is to establish whether or not an applicant, who does not meet the educational program requirements set out in clause 54(2) of Ontario Regulation 596/94 under the *Respiratory Therapy Act*, possesses the minimum entry to practice competencies (i.e., knowledge, skills and abilities/judgement) to safely practice the profession in Ontario.

The documents you submit will be reviewed to determine the degree to which you have been practising respiratory care/therapy. The purpose of this self-assessment, together with the screening test, is to:

- i. To determine your readiness to progress to Stage 2 of the PLA process, and;
- ii. To assist you in preparing for Stage 2 of the PLA process, the *Didactic Assessment*, by,
 - a) Identifying any broad areas of weakness or deficiencies in the applicant's knowledge or skill when compared to the CRTO Entry to Practice Competencies; and
 - b) Providing suggestions as to how the weaknesses or deficiencies might be addressed.

The Michener Institute will contact you to make arrangements for an interview and feedback session at a mutually convenient time.

Once the interview and feedback stage is successfully completed then you may complete the didactic assessment. If you successfully complete the didactic assessment, you will then be eligible for the clinical assessment. The clinical assessment will be scheduled at a time convenient to both you and any potential clinical sites (e.g., hospital, clinic, pulmonary function laboratory).

When your assessment is completed The Michener Institute will discuss the results of the assessment with you and your file will be forwarded to the College's Registration Committee. The Registration Committee will review the results of your PLA assessment and any other documents submitted by you and make a determination as to whether or not you will be given a certificate of registration.

You will receive the Registration Committee's decision in writing.

Use the following table to indicate what theory related to respiratory care you possess whether or not that exposure was through a formal educational program.

For example: If you possess knowledge about the anatomy and physiology of the cardiorespiratory system (heart and lungs) but not the central nervous system, you would start to complete the table as follows:

| | <i>Ye s</i> | <i>No</i> |
|---|-----------------|-----------|
| <i>I have a broad understanding of human anatomy and physiology related to the:</i> | | |
| <i>Cardiorespiratory system</i> | <i>U</i> | |
| <i>Central nervous system</i> | | <i>U</i> |

| | Yes | No |
|--|------------|-----------|
| I have a broad understanding of human anatomy and physiology related to the: | | |
| Cardiorespiratory system (1) | | |
| Central nervous system (1) | | |
| Renal system (1) | | |
| Other body systems (2) | | |
| I have a broad understanding of human pathophysiology and its impact on normal function, diagnostic testing and therapeutic modalities related to: | | |
| Injury, the inflammatory response and healing (2) | | |
| Neonatal disorders (respiratory distress, meconium aspiration, asphyxia, etc.)(1) | | |
| Pediatric disorders (croup, asthma, epiglottitis, etc.) (1) | | |
| Adult disorders (asthma, bronchitis, emphysema, cardiac failure, chest trauma, etc.) (1) | | |
| Acid/base, fluid and electrolyte balance and imbalance (1) | | |
| Infectious diseases (2) | | |
| Drug overdoses (2) | | |
| I have a broad understanding of pharmacokinetics, pharmacodynamics, and administration of drugs related to: | | |
| Conversions, dosages and drug names (2) | | |
| Pharmacokinetics, pharmacodynamics, drug action, and drug effects (2) | | |
| Drug administration (2) | | |
| Drug administration specifically by inhalation (1) | | |
| Bronchodilators (1) | | |
| Corticosteroids, mucokinetics, antihistamines, anti-infectives, and leukotriene antagonists (1) | | |
| Cardiotonics, antiarrhythmics, antianginals, vasoactive agents, and diuretics (2) | | |

| | Yes | No |
|---|-----|----|
| Anticoagulants and thrombolytics (2) | | |
| Analgesics, antagonists, sedatives, anaesthetics, and muscle relaxants (2) | | |
| Substance abuse (2) | | |
| I have a broad understanding of wellness and health promotion and the mechanisms established to provide a safe environment for the provision of health care including: | | |
| Health care delivery models, respiratory therapist role, health promotion, and health education (2) | | |
| Rehabilitation programs (2) | | |
| Stressors, coping, shift work, and strategies to reduce the negative impacts of stress and shift work (2) | | |
| Health care worker protection (2) | | |
| I have a broad understanding of the application of basic sciences related to: | | |
| Gas laws, fluid and gas dynamics, gas analysis, conversions, and electrical principles (1) | | |
| I have a broad understanding of medical gases and their use related to: | | |
| Characteristics, manufacture, storage, distribution, and safety of oxygen, medical gases, cylinders, and cryogenic units (1) | | |
| Transport Canada and Canadian Standards Association (CSA) codes (3) | | |
| Use and precautions of medical gas cylinders, O ₂ concentrators, cryogenic units and their adjuncts (1) | | |
| I have a broad understanding of pathogens related to their: | | |
| Growth and spread (1) | | |
| Control and impact on health (2) | | |
| I have a broad understanding of the application, diagnostic or therapeutic value, limitations, and adaptation for various populations of the following modalities and/or equipment: | | |
| Airways - adult, pediatric and neonatal (1) | | |
| Adjunctive and non-adjunctive emergency and non-emergency airway management (1) | | |
| Anaesthetic gas machines (1) | | |
| Mechanical Ventilation (1) | | |
| Anaesthetic management (2) | | |
| Blood gas analyzers and blood assessment, blood gas analysis, metabolic testing (2) | | |
| Vascular cannulas or lines (2) | | |
| Cardiac assessment, cardiac dysrhythmias, ACLS/BCLS and defibrillation (1) | | |
| Hemodynamic monitors (2) | | |
| Physical assessment (1) | | |
| Pulmonary diagnostic and/or monitoring equipment and procedures (2) | | |
| Chest care techniques (e.g., vibration, percussion, incentive spirometry)(2) | | |
| Vapour and aerosols (1) | | |

| | Yes | No |
|--|-----|----|
| Imaging procedures and chest x-rays (1) | | |
| Medical gas therapy equipment (1) | | |
| Medical gas analyzers (2) | | |
| CPAP (1) | | |
| Medical gases (1) | | |
| Travelling with oxygen (2) | | |
| Suction and drainage (1) | | |
| Assisted ventilation (1) | | |
| Principles of mechanical ventilation (1) | | |
| I have a broad understanding of the ethical, legal, political and social parameters in Ontario related to: | | |
| Professional self regulation (2) | | |
| <i>Regulated Health Professions Act</i> (2) | | |
| <i>Respiratory Therapy Act</i> (2) | | |
| <i>Health Care Consent Act</i> (2) | | |
| Related legislation (e.g., <i>Public Hospitals Act, Child and Family Services Act</i>) (2) | | |
| College of Respiratory Therapists of Ontario regulations, standards and guidelines (2) | | |
| Ontario health care system (2) | | |

Use the following table to indicate what practical experience you have had related to respiratory care. Include any experience that you received during a formal educational program.

Indicate how often you performed the activity (daily, weekly, monthly, etc) by selecting the appropriate column and indicate the patient population with the use of a AN@, AC@, and/or AA@ in that column. If you have not performed the activity, leave the section blank.

| N ' with neonates C ' with children A ' with adults | Frequency in the last 24 months | | | | Frequency in the past 24 to 60 months (5 years) | | | | Never |
|---|---------------------------------|-------------------------------|---------------------------------|----------------|---|-------------------------------|---------------------------------|----------------|-------|
| | > once a day | < once a day > once a week | < once a week > once a month | < once a month | > once a day | < once a day > once a week | < once a week > once a month | < once a month | |
| Administering drugs or fluids by inhalation | | | | | | | | | |
| Administering drugs or fluids by instillation | | | | | | | | | |
| Administering drugs or fluids (intravascular, intramuscular, topically, etc) | | | | | | | | | |
| Administering volatile anesthetic agents | | | | | | | | | |
| Skin allergy testing | | | | | | | | | |
| Establishing airway patency without adjunctive equipment | | | | | | | | | |
| Managing obstructed and non-obstructed airways during cardiopulmonary resuscitation | | | | | | | | | |
| Managing nasopharyngeal and oropharyngeal airways | | | | | | | | | |
| Managing endotracheal tubes | | | | | | | | | |
| Inserting and removing nasotracheal and oropharyngeal airways | | | | | | | | | |
| Inserting and removing endotracheal tubes | | | | | | | | | |
| Inserting, managing and removing laryngeal masks | | | | | | | | | |
| Managing tracheostomy tubes | | | | | | | | | |
| Changing tracheostomy tubes | | | | | | | | | |
| Performing drug, equipment and patient preparation for anaesthesia | | | | | | | | | |
| Performing anaesthesia induction by inhalation and injection | | | | | | | | | |
| Performing intra-operative patient maintenance and monitoring | | | | | | | | | |
| Managing post-operative emergence and recovery | | | | | | | | | |
| Performing blood gas analysis | | | | | | | | | |
| Performing arterial blood sampling | | | | | | | | | |

| N ' with neonates C ' with children A ' with adults | Frequency in the last 24 months | | | | Frequency in the past 24 to 60 months (5 years) | | | | Never |
|--|---------------------------------|-------------------------------|---------------------------------|----------------|---|-------------------------------|---------------------------------|----------------|-------|
| | > once a day | < once a day > once a week | < once a week > once a month | < once a month | > once a day | < once a day > once a week | < once a week > once a month | < once a month | |
| Performing arterial line blood sampling | | | | | | | | | |
| Performing capillary blood sampling | | | | | | | | | |
| Performing venous blood sampling | | | | | | | | | |
| Performing venous line blood sampling | | | | | | | | | |
| Performing umbilical line blood sampling | | | | | | | | | |
| Inserting, manipulating, repositioning and removing arterial lines | | | | | | | | | |
| Inserting, manipulating, repositioning and removing venous lines | | | | | | | | | |
| Inserting, manipulating, repositioning and removing umbilical lines | | | | | | | | | |
| Inserting, manipulating, repositioning and removing central lines | | | | | | | | | |
| Performing electrocardiography | | | | | | | | | |
| Performing stress testing | | | | | | | | | |
| Performing Holter monitoring | | | | | | | | | |
| Performing cardiac compressions during cardiopulmonary resuscitation | | | | | | | | | |
| Intervening with cardiac dysrhythmias | | | | | | | | | |
| Performing echocardiography | | | | | | | | | |
| Performing hemodynamic monitoring | | | | | | | | | |
| Performing physical assessments | | | | | | | | | |
| Performing chest assessments | | | | | | | | | |
| Performing activities of daily living assessments | | | | | | | | | |
| Performing chest palpation | | | | | | | | | |
| Performing chest percussion | | | | | | | | | |
| Performing capnography | | | | | | | | | |
| Performing oximetry | | | | | | | | | |
| Performing transcutaneous monitoring | | | | | | | | | |
| Performing spirometry | | | | | | | | | |
| Performing lung volume assessments | | | | | | | | | |
| Performing diffusion capacity assessments | | | | | | | | | |

| N ' with neonates C ' with children A ' with adults | Frequency in the last 24 months | | | | Frequency in the past 24 to 60 months (5 years) | | | | Never |
|---|---------------------------------|-------------------------------|---------------------------------|----------------|---|-------------------------------|---------------------------------|----------------|-------|
| | > once a day | < once a day > once a week | < once a week > once a month | < once a month | > once a day | < once a day > once a week | < once a week > once a month | < once a month | |
| Performing bronchoprovocation assessments | | | | | | | | | |
| Performing body plethysmography | | | | | | | | | |
| Performing adult polysomnography | | | | | | | | | |
| Performing pulmonary exercise testing | | | | | | | | | |
| Performing vibration, percussion, postural drainage, incentive spirometry and assisted coughing | | | | | | | | | |
| Administering aerosol and humidity therapy | | | | | | | | | |
| Using flowmeters, pressure reducing valves, regulators and blenders | | | | | | | | | |
| Performing medical gas analysis | | | | | | | | | |
| Initiating, maintaining and weaning CPAP | | | | | | | | | |
| Providing patient education | | | | | | | | | |
| Performing oropharyngeal, nasopharyngeal and tracheal suctioning | | | | | | | | | |
| Performing thoracic and gastric suction or drainage | | | | | | | | | |
| Inserting, maintaining and removing nasogastric tubes | | | | | | | | | |
| Inserting, aspirating from, repositioning and removing chest tubes | | | | | | | | | |
| Transporting patients between facilities | | | | | | | | | |
| Initiating, maintaining, and weaning from manual ventilation | | | | | | | | | |
| Initiating, maintaining, and weaning from non-invasive positive pressure ventilation | | | | | | | | | |
| Initiating, maintaining, and weaning from invasive positive pressure ventilation | | | | | | | | | |
| Initiating, maintaining, and weaning from negative pressure ventilation | | | | | | | | | |
| Performing patient/client assessments | | | | | | | | | |

I declare/hereby certify that this form is complete and correct to the best of my knowledge and belief. I further authorize the CRTO to release the information included in this form and any other documentation submitted as part of my application to the CRTO for registration or Prior Learning Assessment to any educational facility engaged by the CRTO to conduct Prior Learning Assessments.

Signature: _____

Date: _____

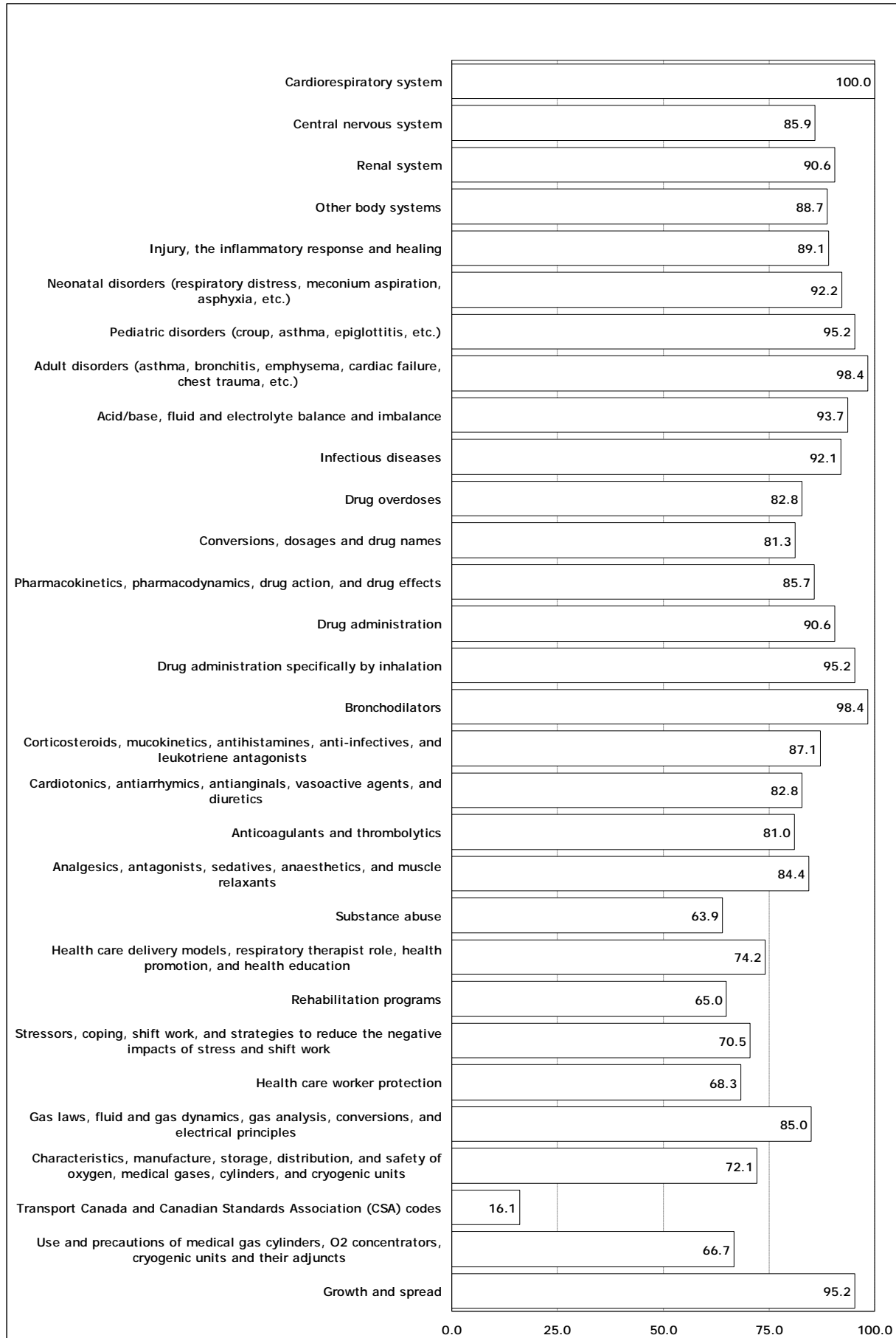
THE GAP ANALYSIS PROJECT

APPENDIX 4

GAP Assessment Charts



FIGURE 1: Percentage of Yes Responses to Self-Assessment Questions 1 to 60 - Overall, N=64



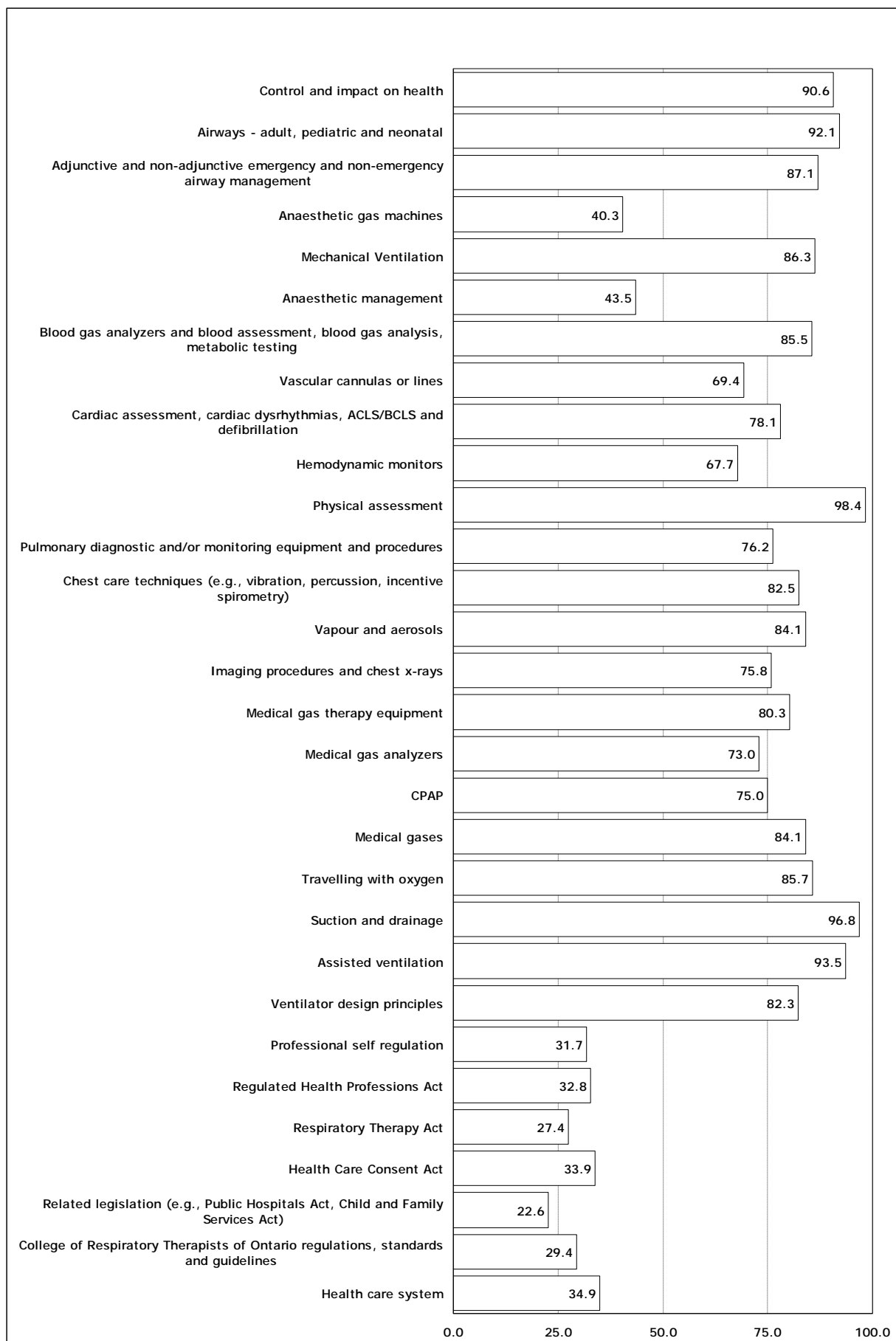
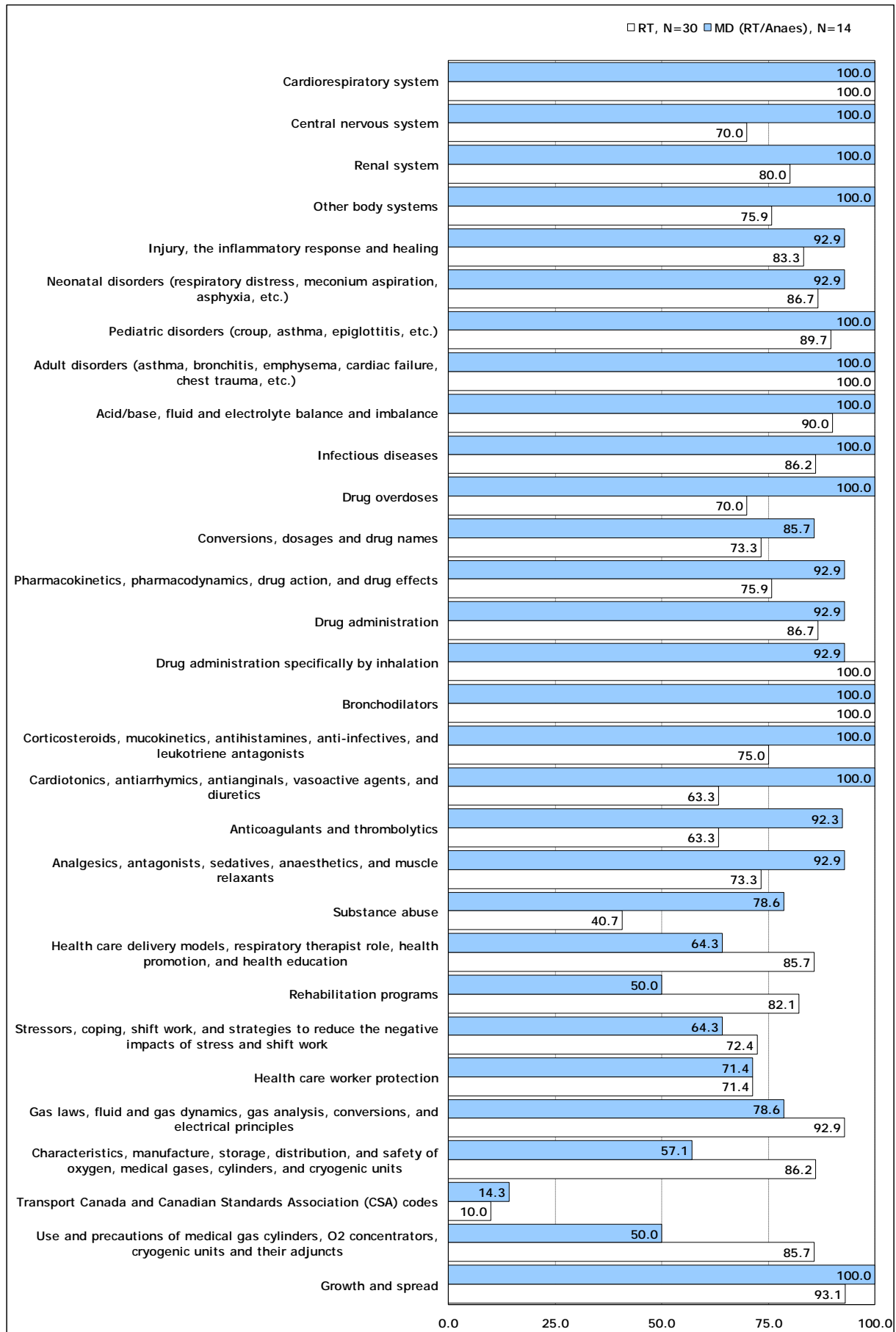


FIGURE 2: Percentage of Yes Responses to Self-Assessment Questions 1 to 60



□ RT, N=30 □ MD (RT/Anaes), N=14

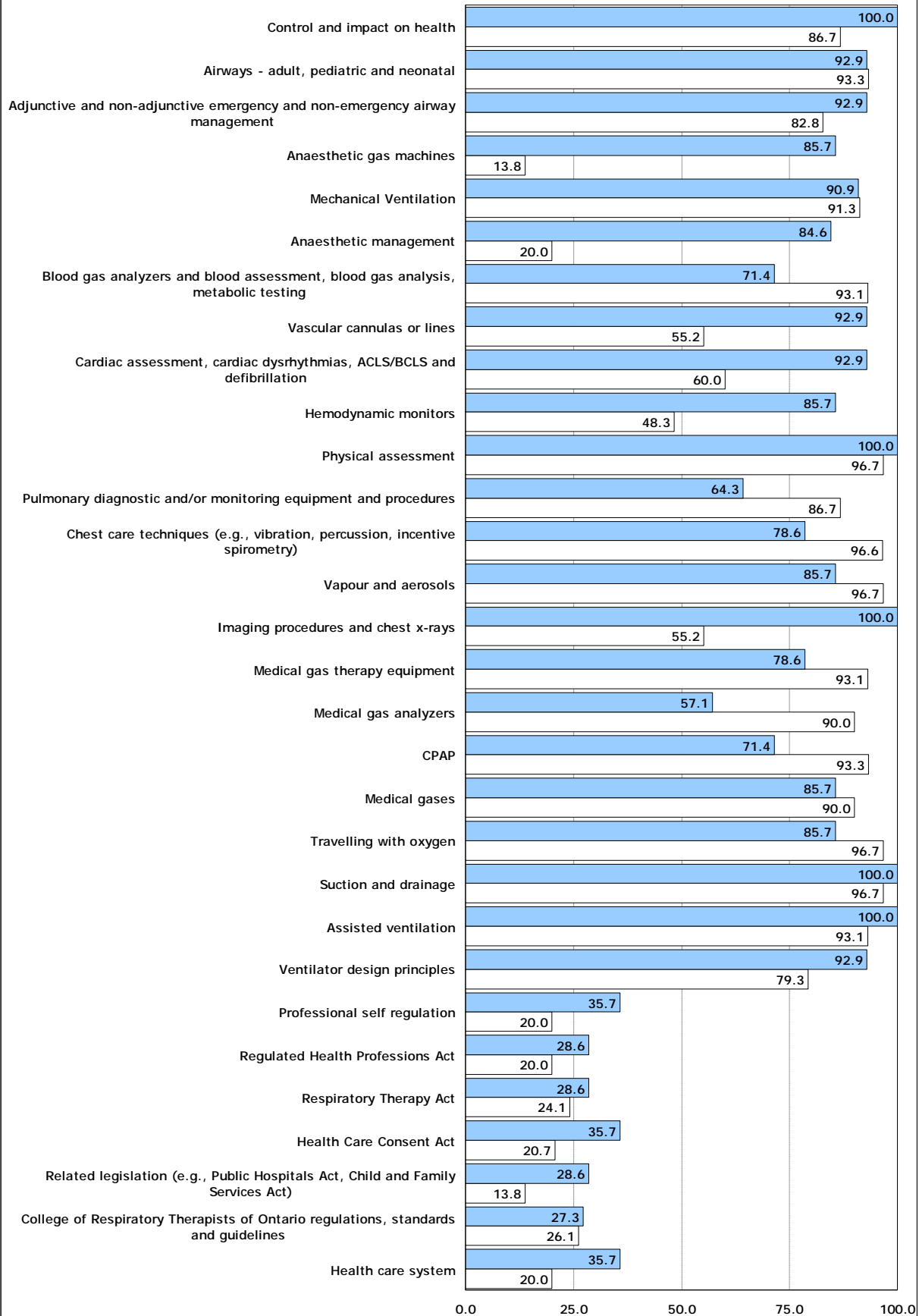
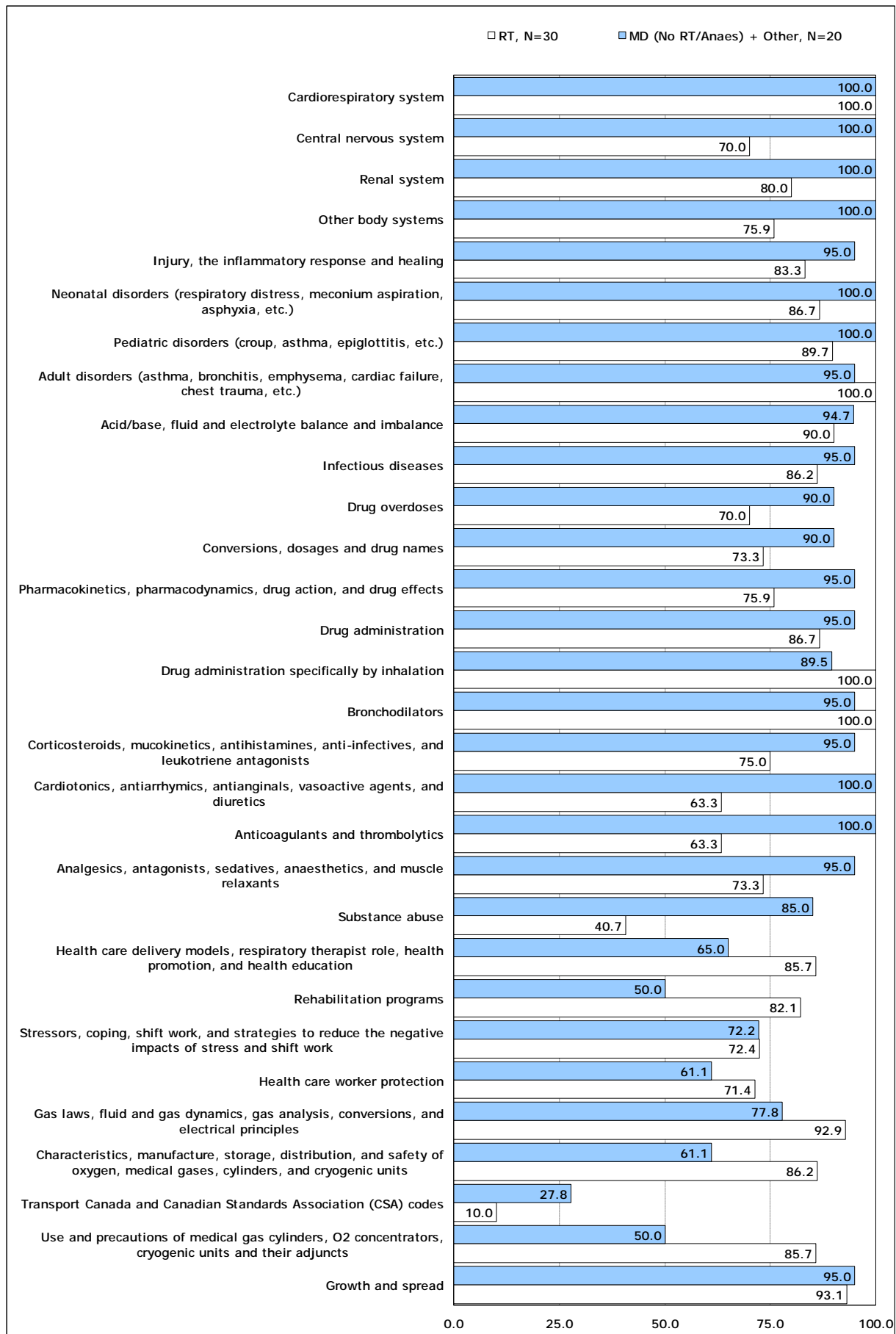


FIGURE 3: Percentage of Yes Responses to Self-Assessment Questions 1 to 60



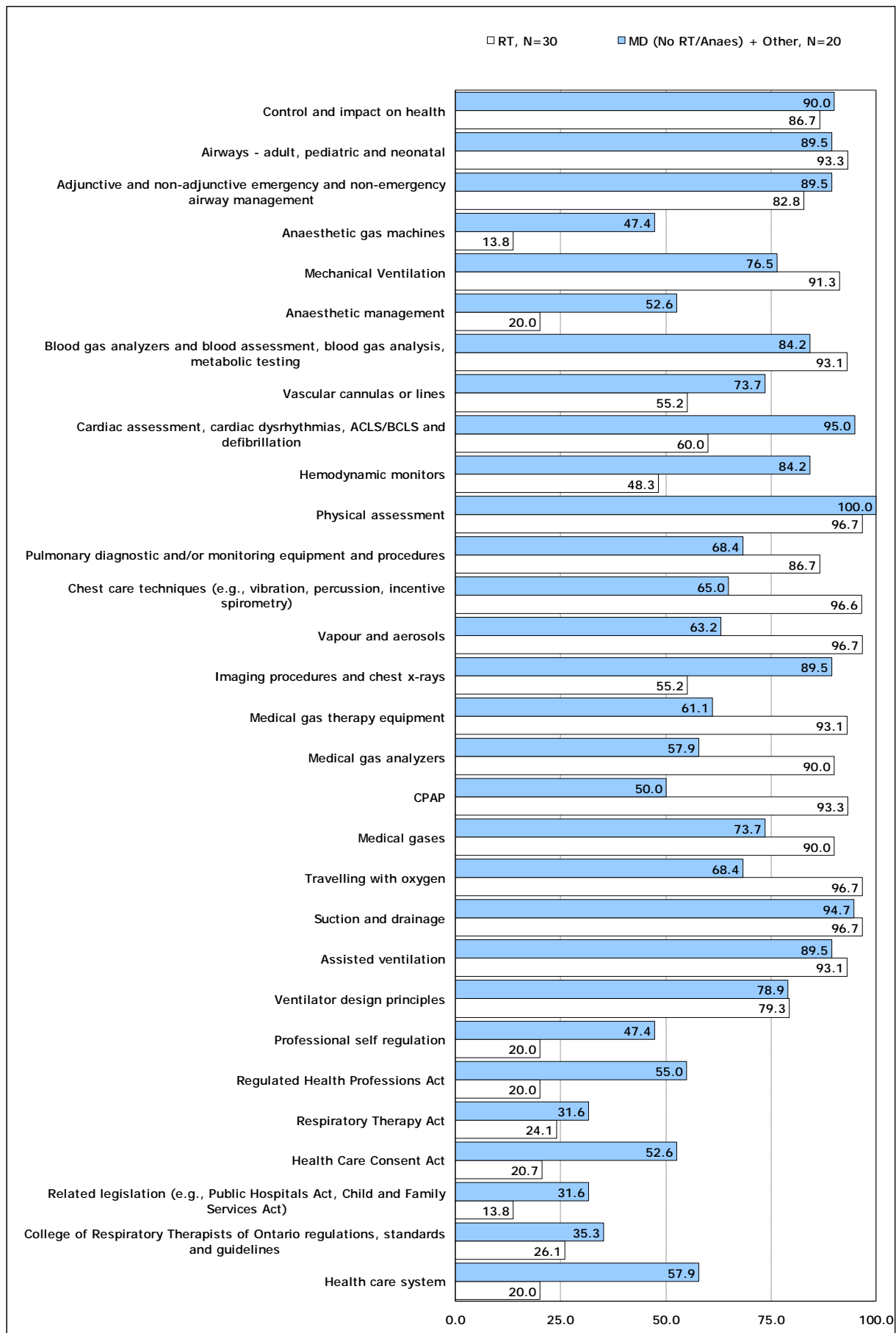
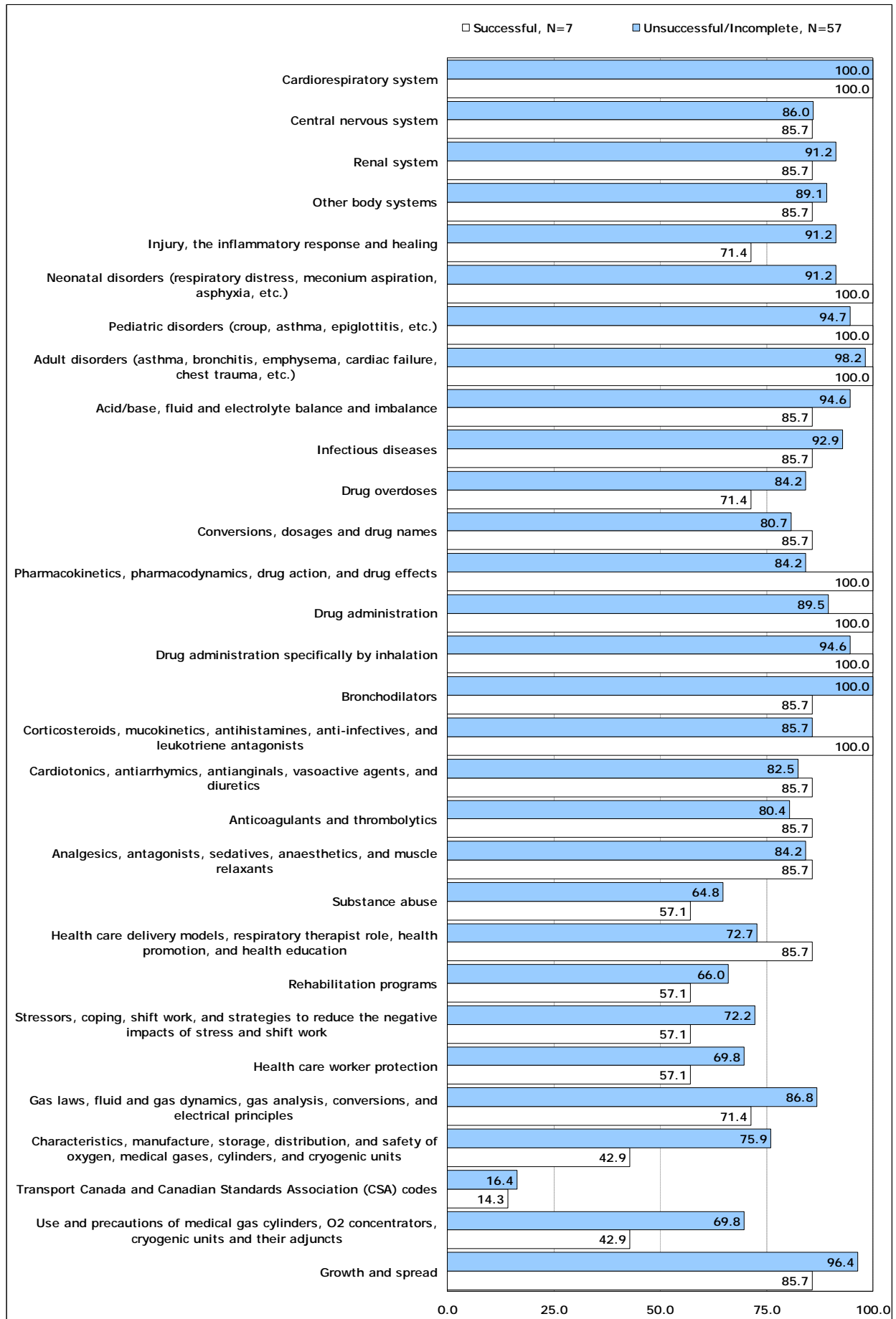


FIGURE 4: Percentage of Yes Responses to Self-Assessment Questions 1 to 60



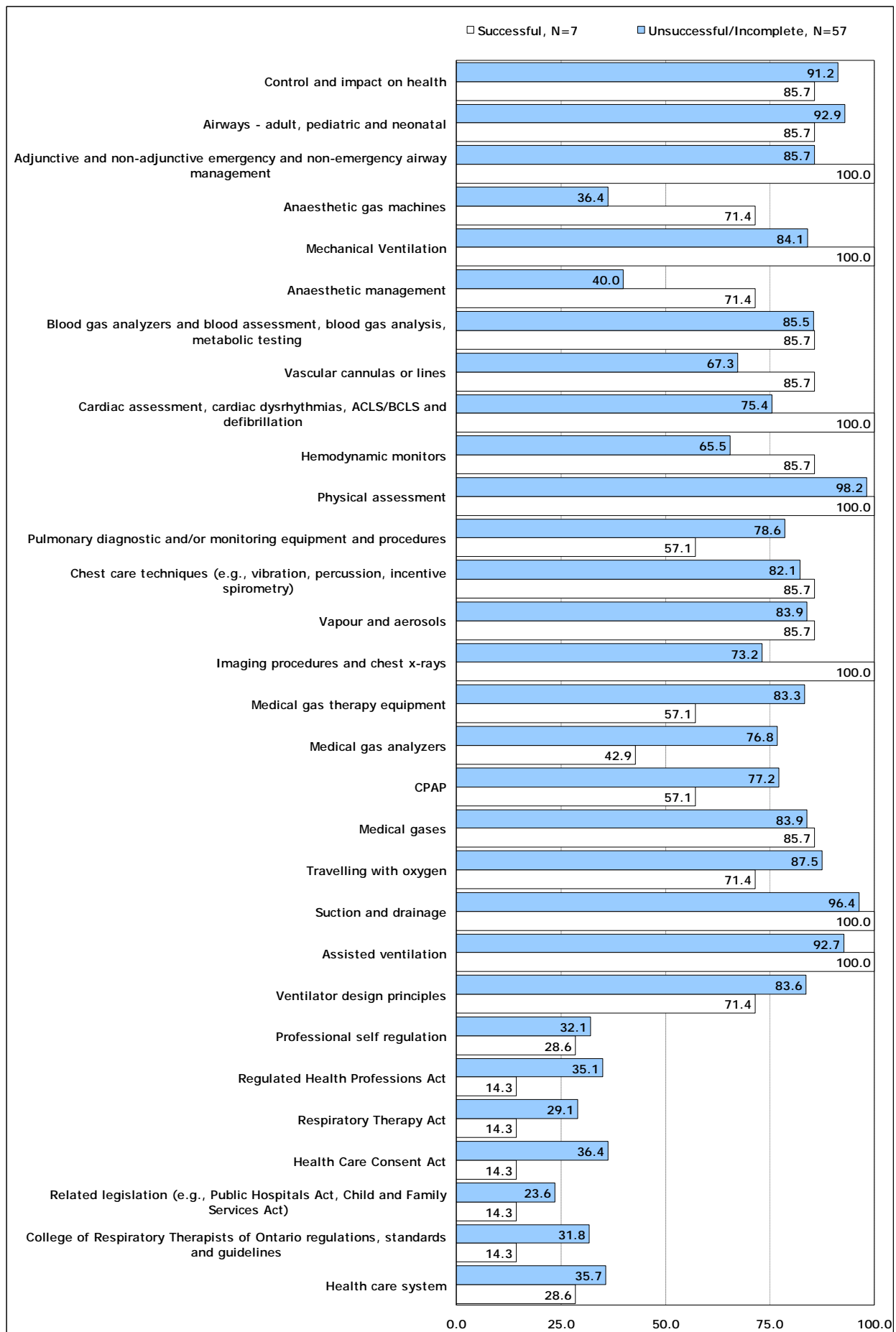
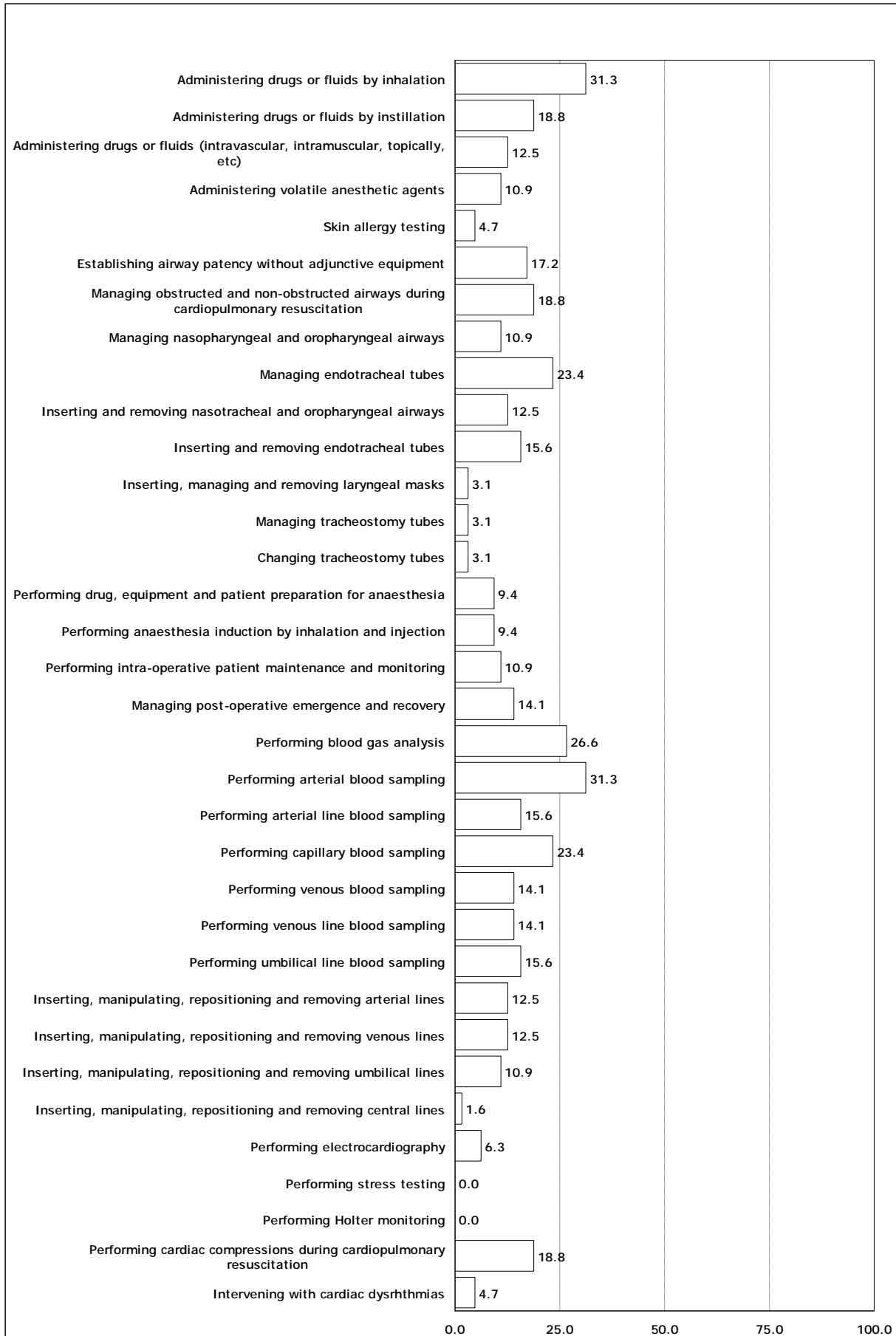


FIGURE 5: Percentage of Any Frequency Responses to Self-Assessment Questions 61 to 127 for Neonates Overall, N=64



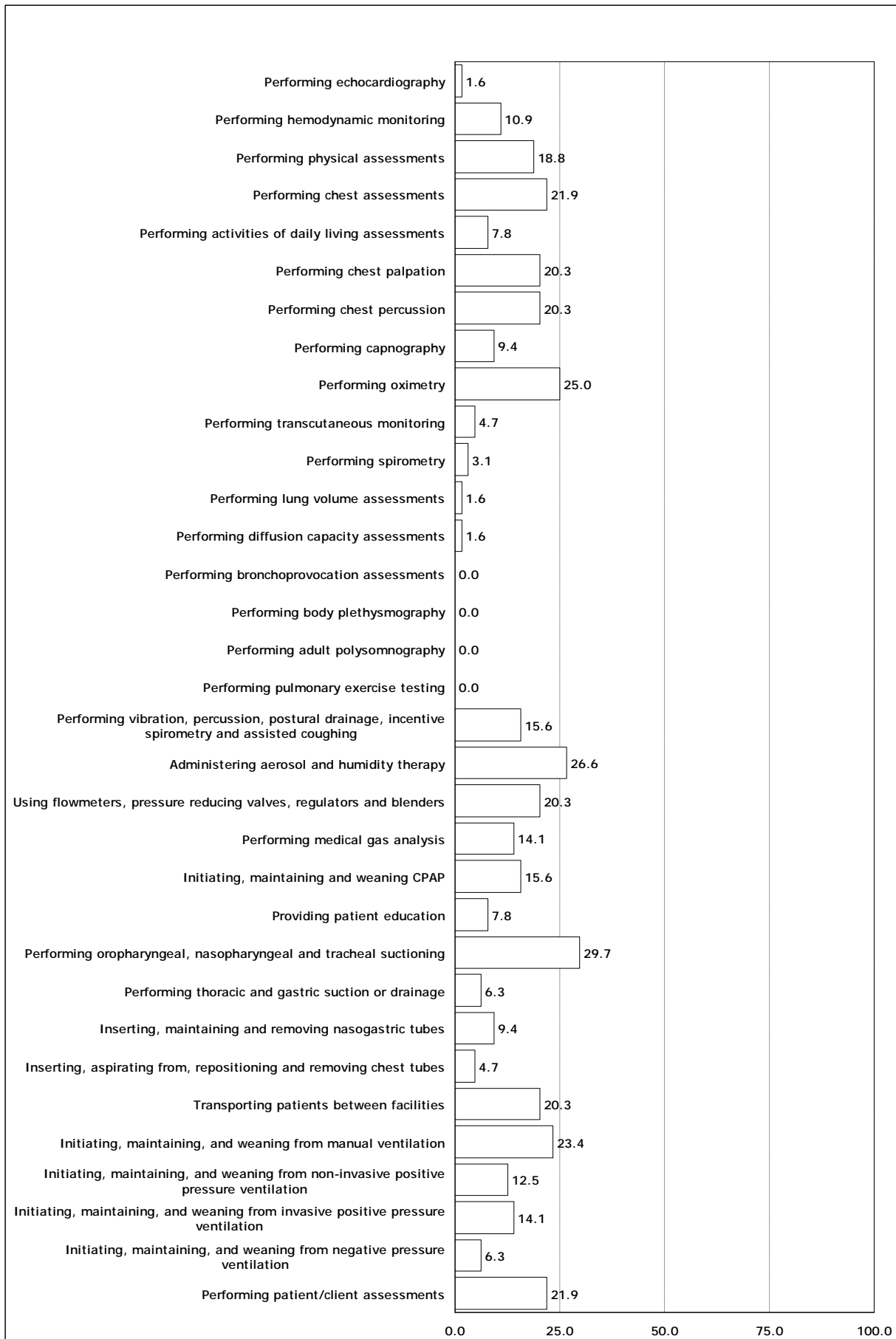


FIGURE 6: Percentage of Any Frequency Responses to Self-Assessment Questions 61 to 127 for Neonates



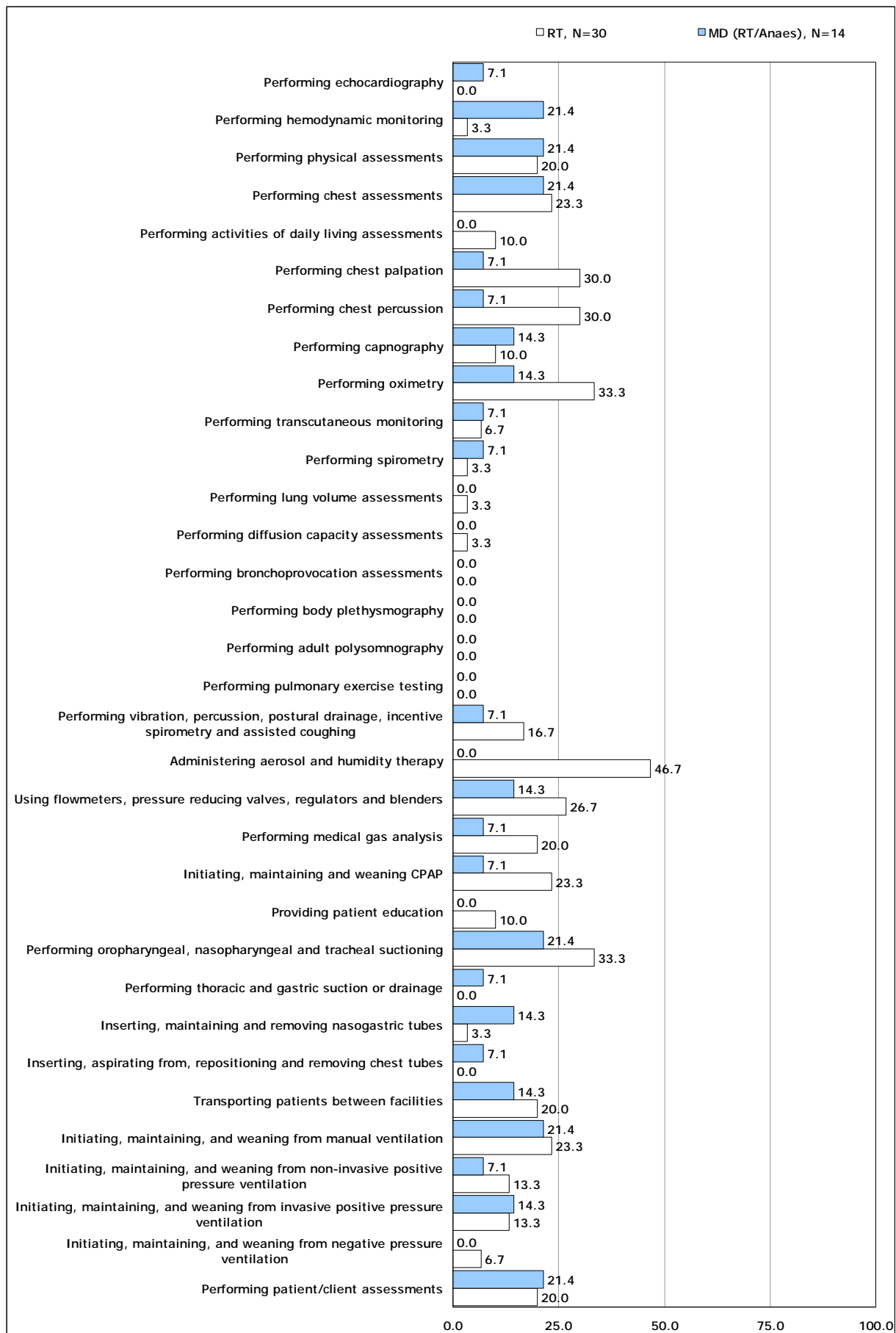


FIGURE 7: Percentage of Any Frequency Responses to Self-Assessment Questions 61 to 127 for Neonates



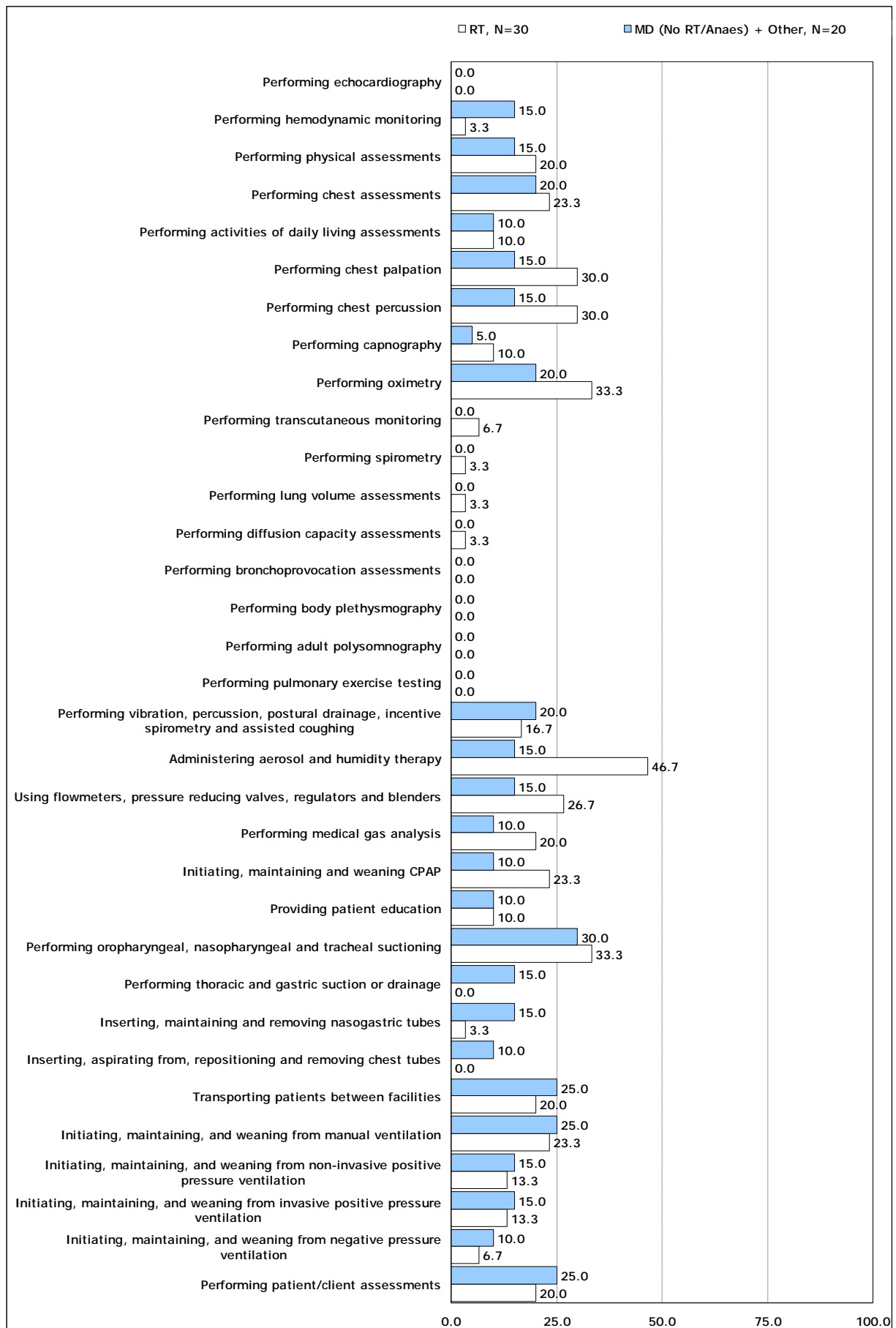
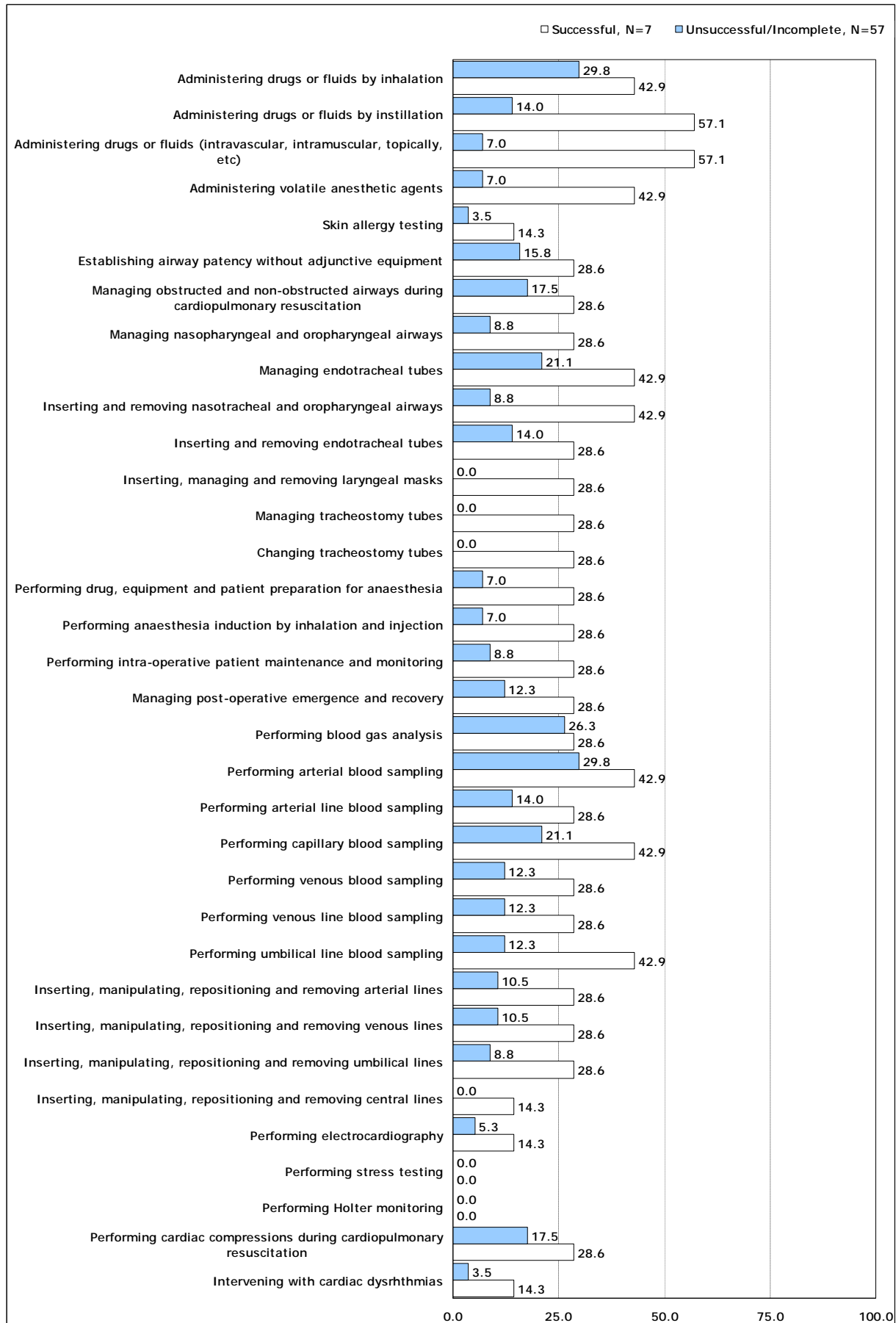


FIGURE 8: Percentage of Any Frequency Responses to Self-Assessment Questions 61 to 127 for Neonates



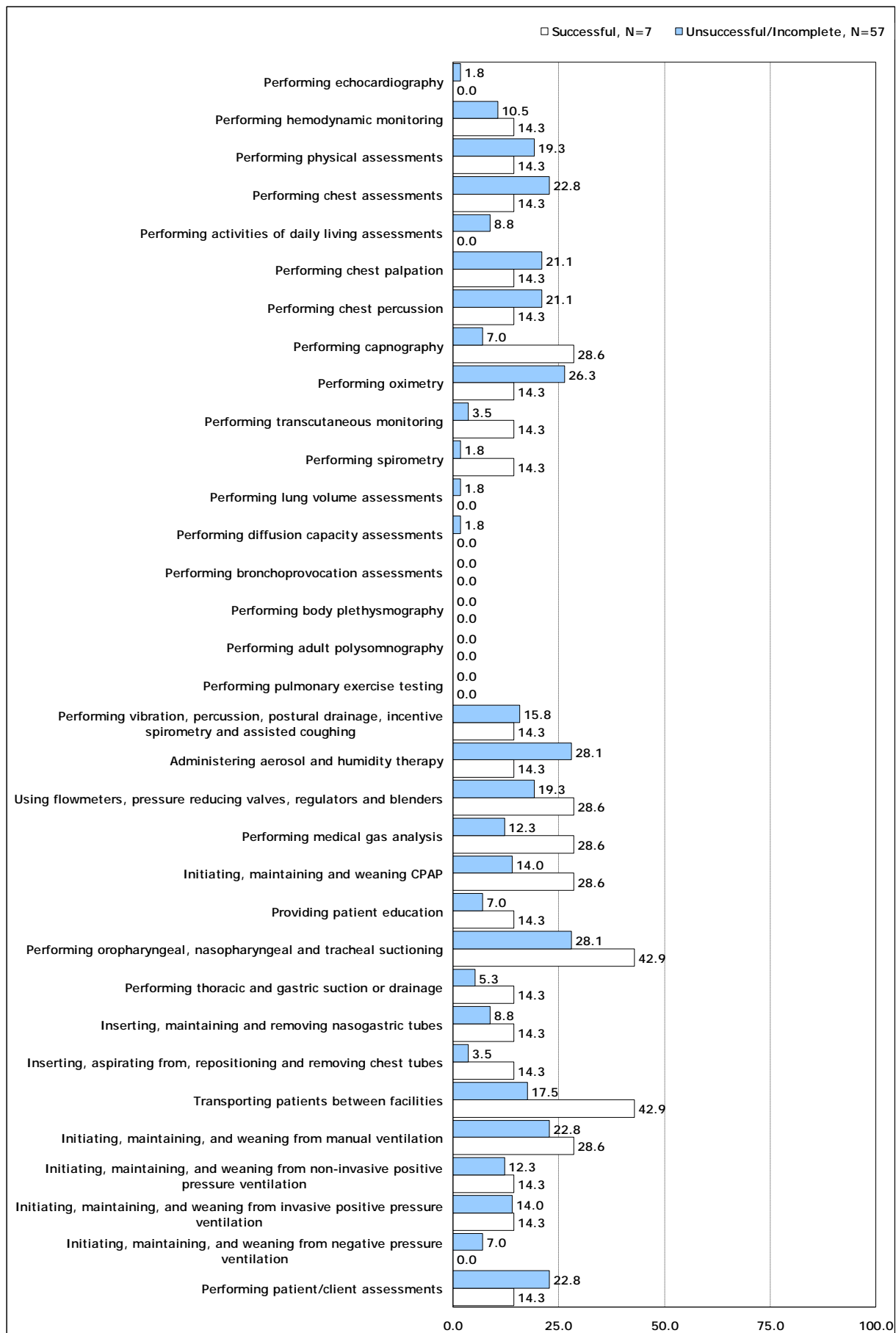


FIGURE 9: Percentage of Any Frequency Responses to Self-Assessment Questions 61 to 127 for Children Overall, N=64



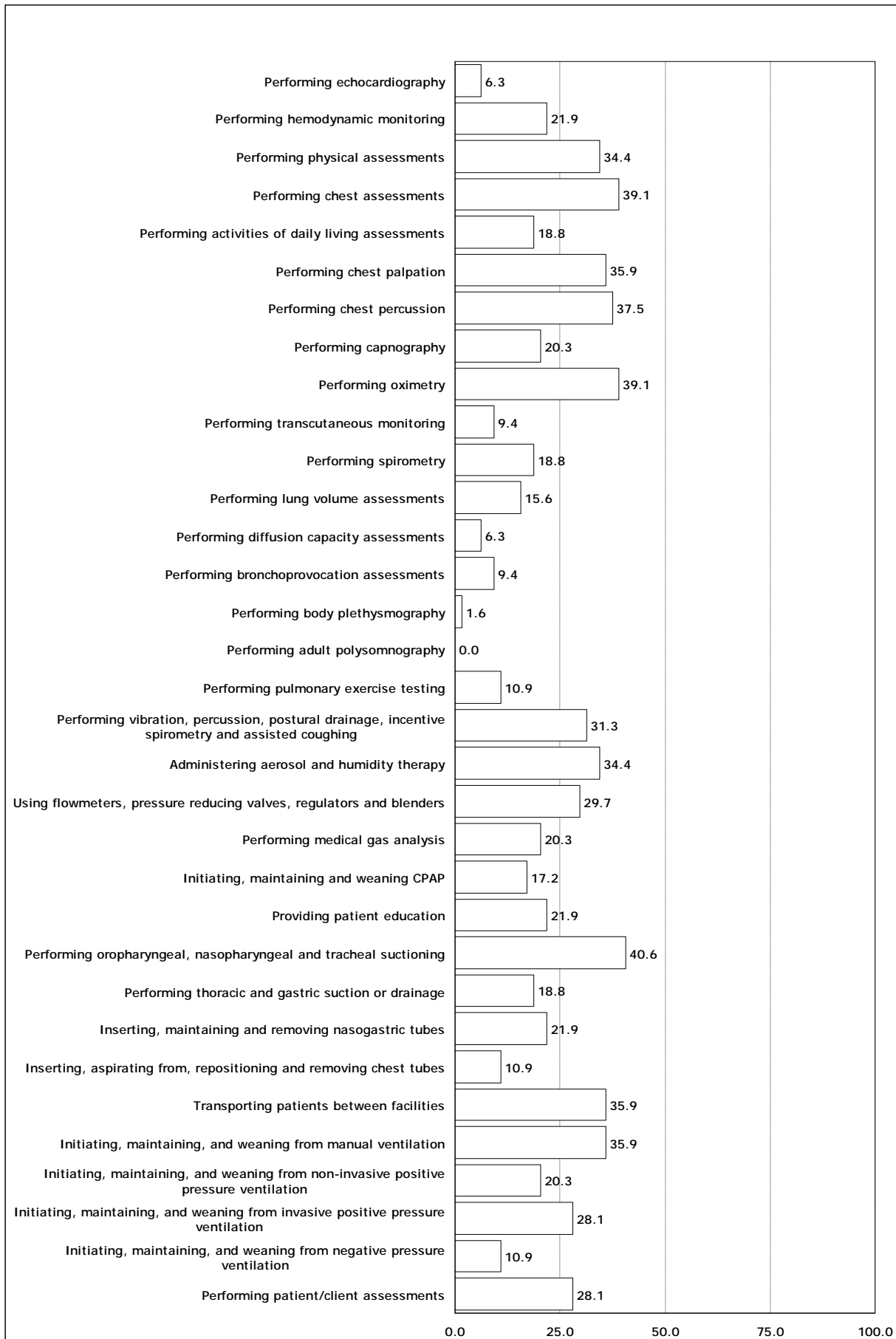
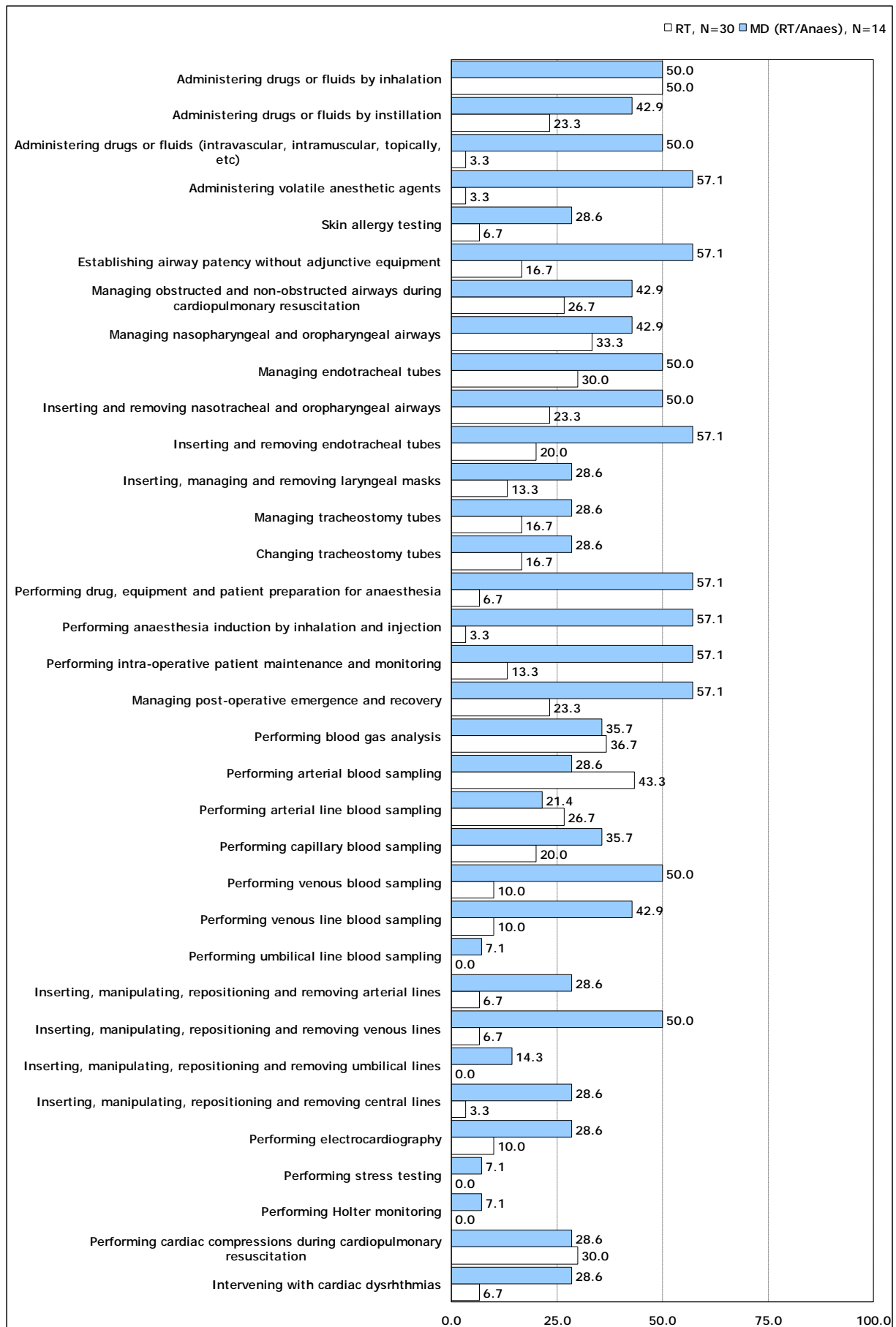


FIGURE 10: Percentage of Any Frequency Responses to Self-Assessment Questions 61 to 127 for Children



□ RT, N=30 □ MD (RT/Anaes), N=14

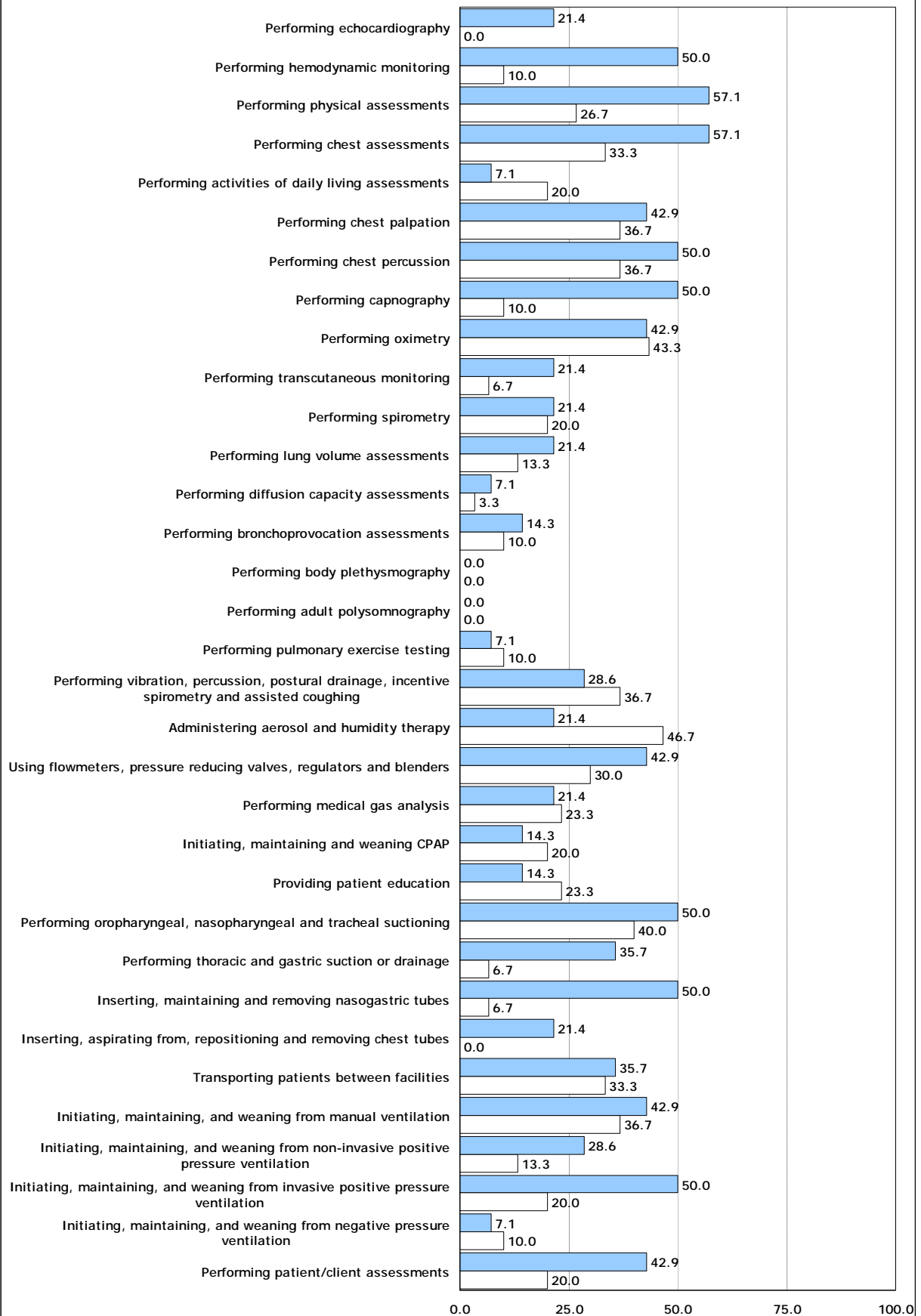


FIGURE 11: Percentage of Any Frequency Responses to Self-Assessment Questions 61 to 127 for Children



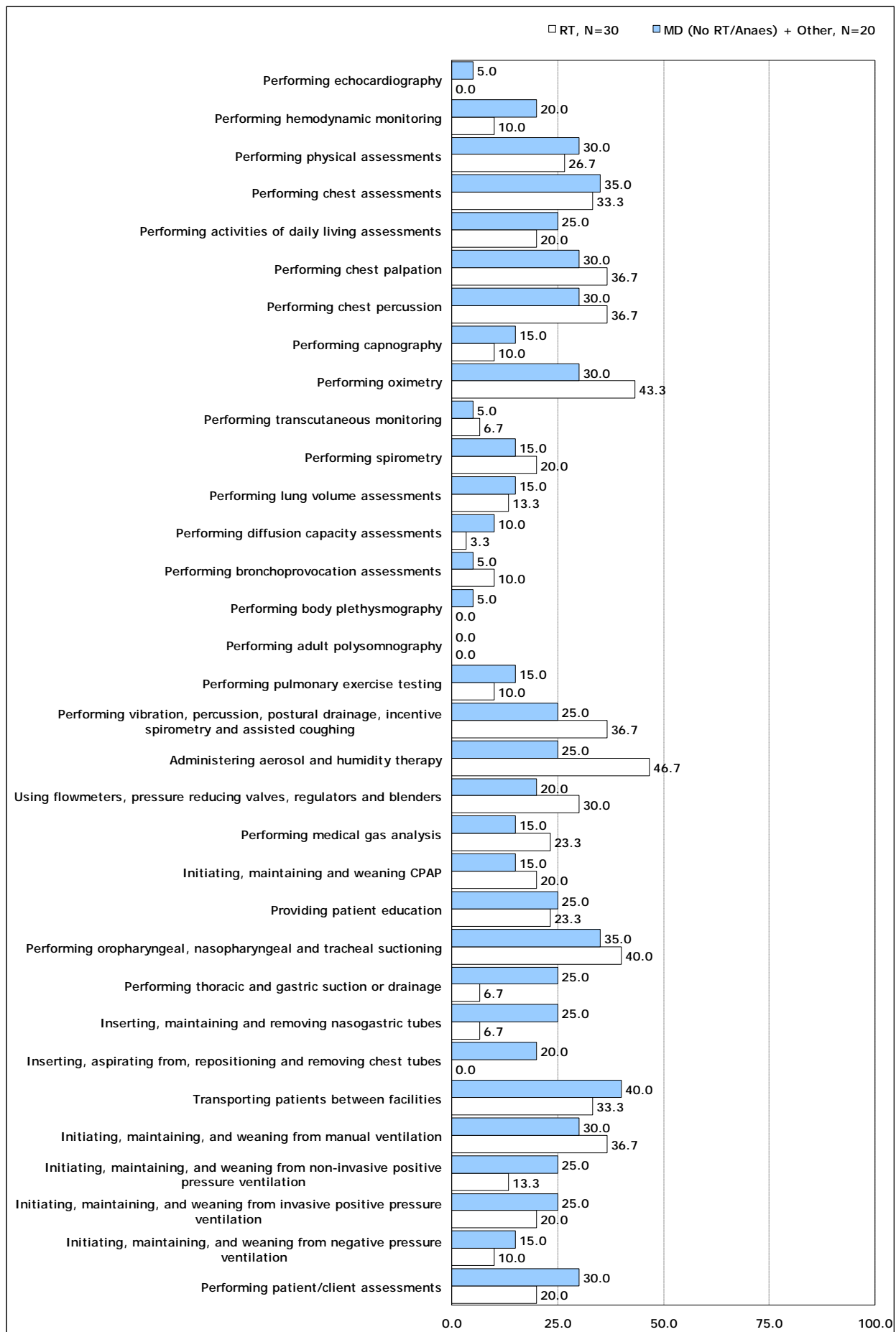
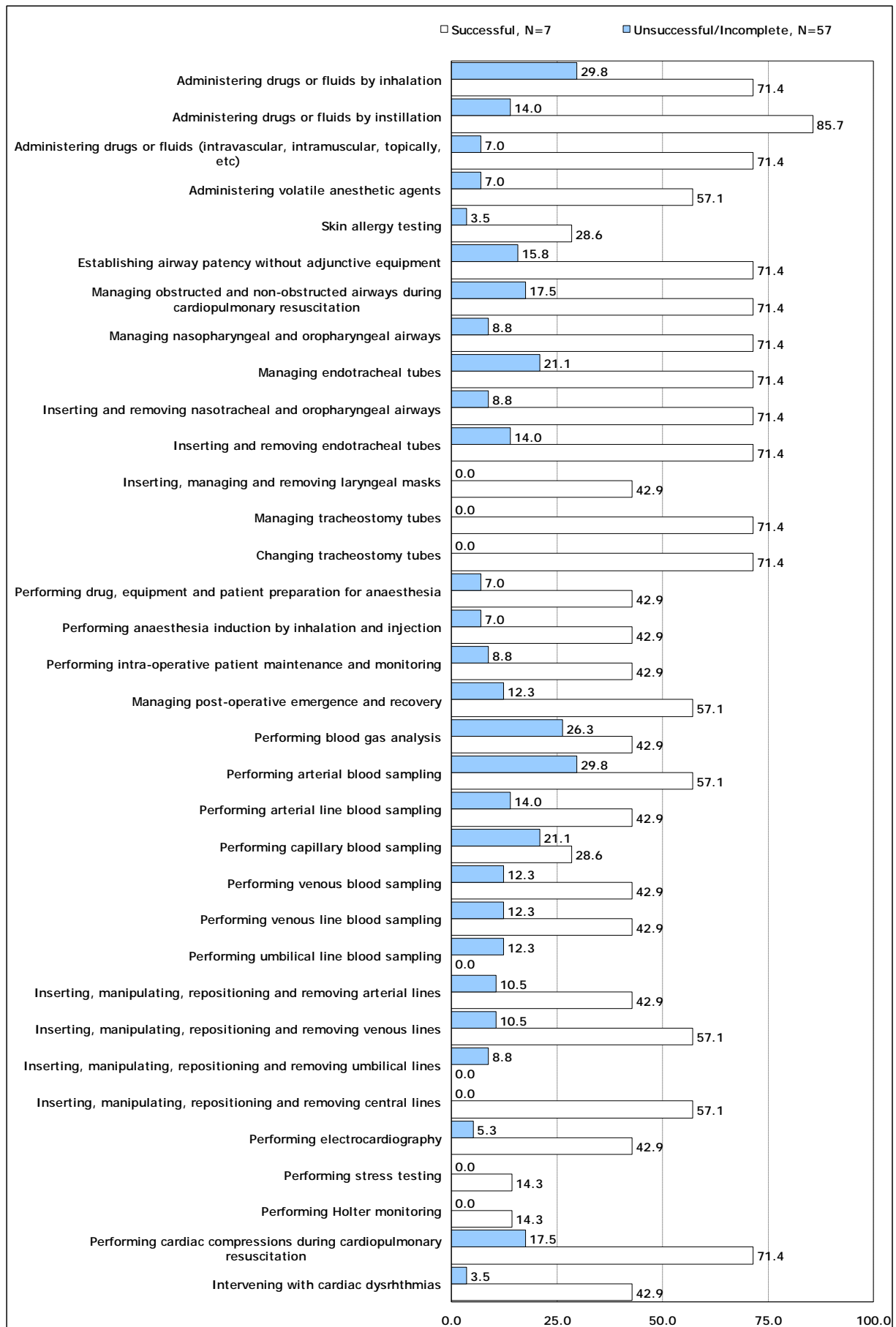


FIGURE 12: Percentage of Any Frequency Responses to Self-Assessment Questions 61 to 127 for Children



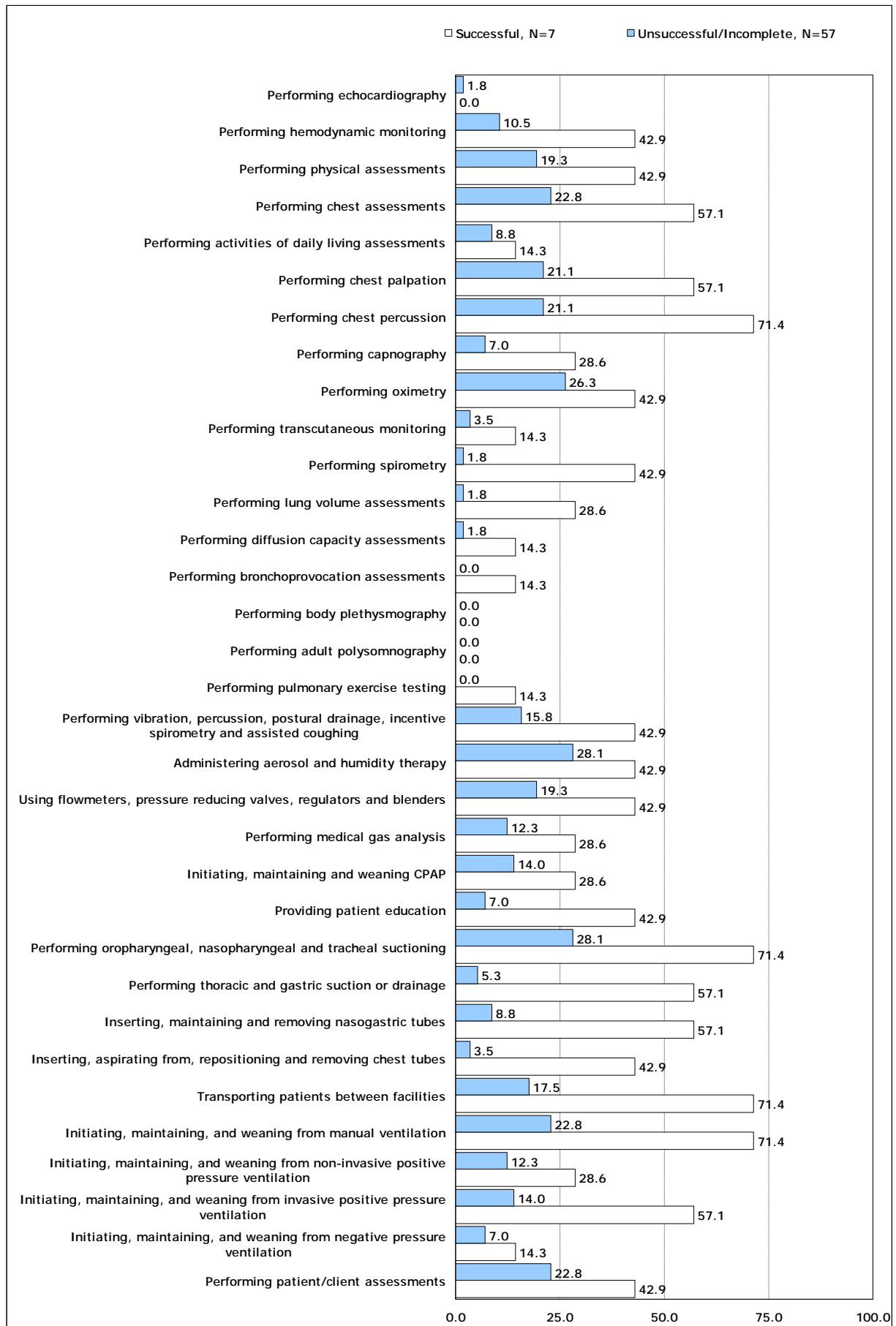
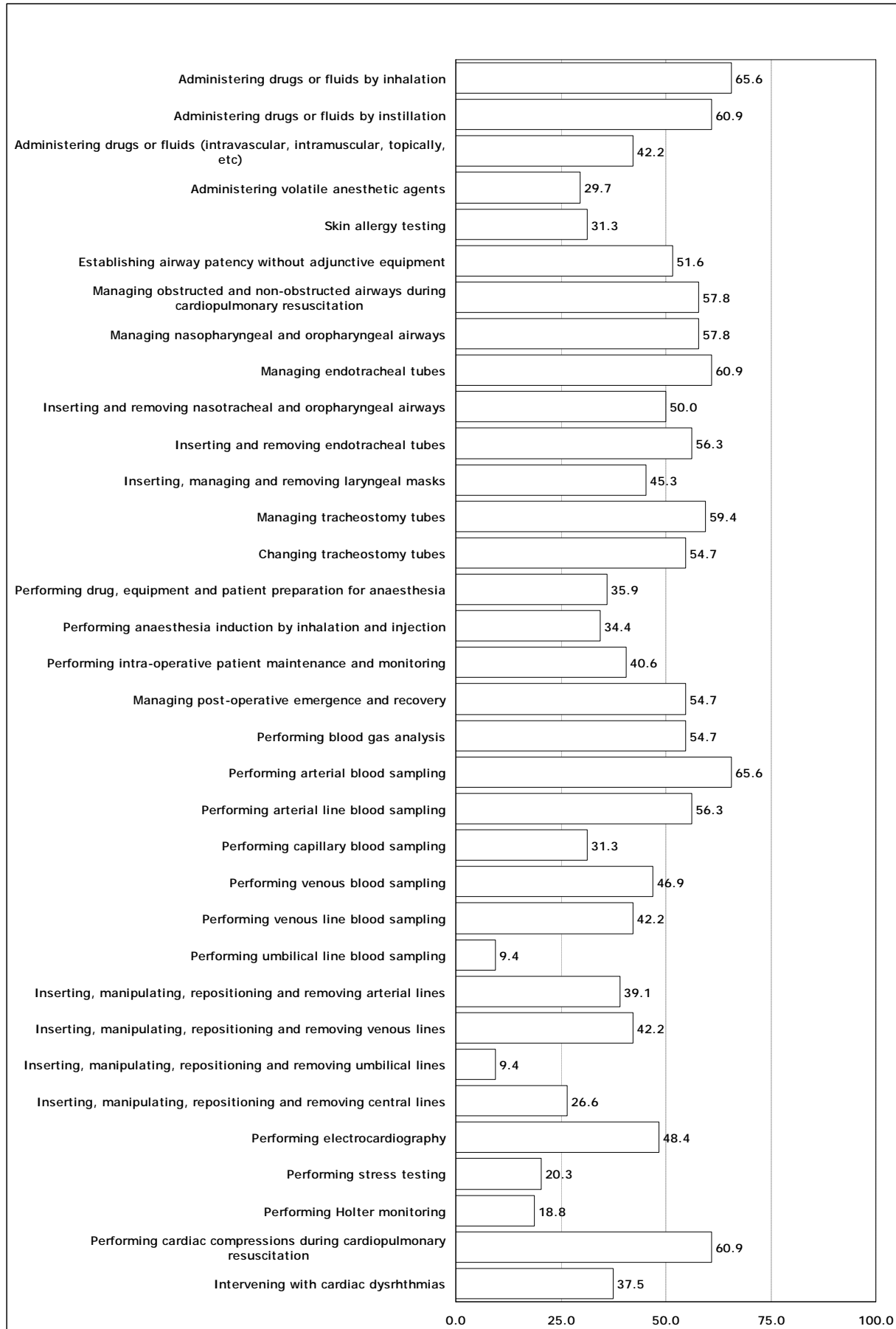


FIGURE 13: Percentage of Any Frequency Responses to Self-Assessment Questions 61 to 127 for Adults Overall, N=64



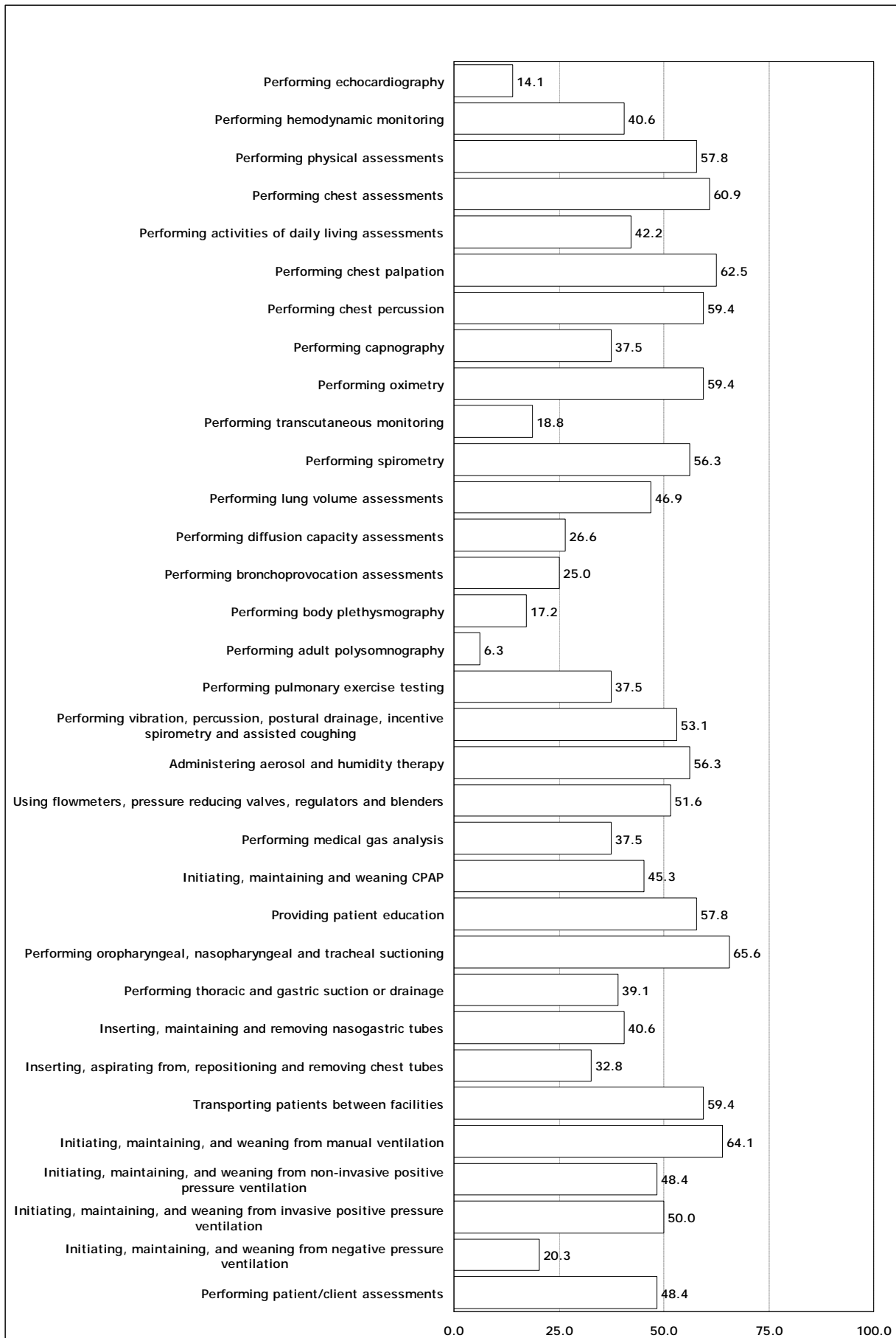
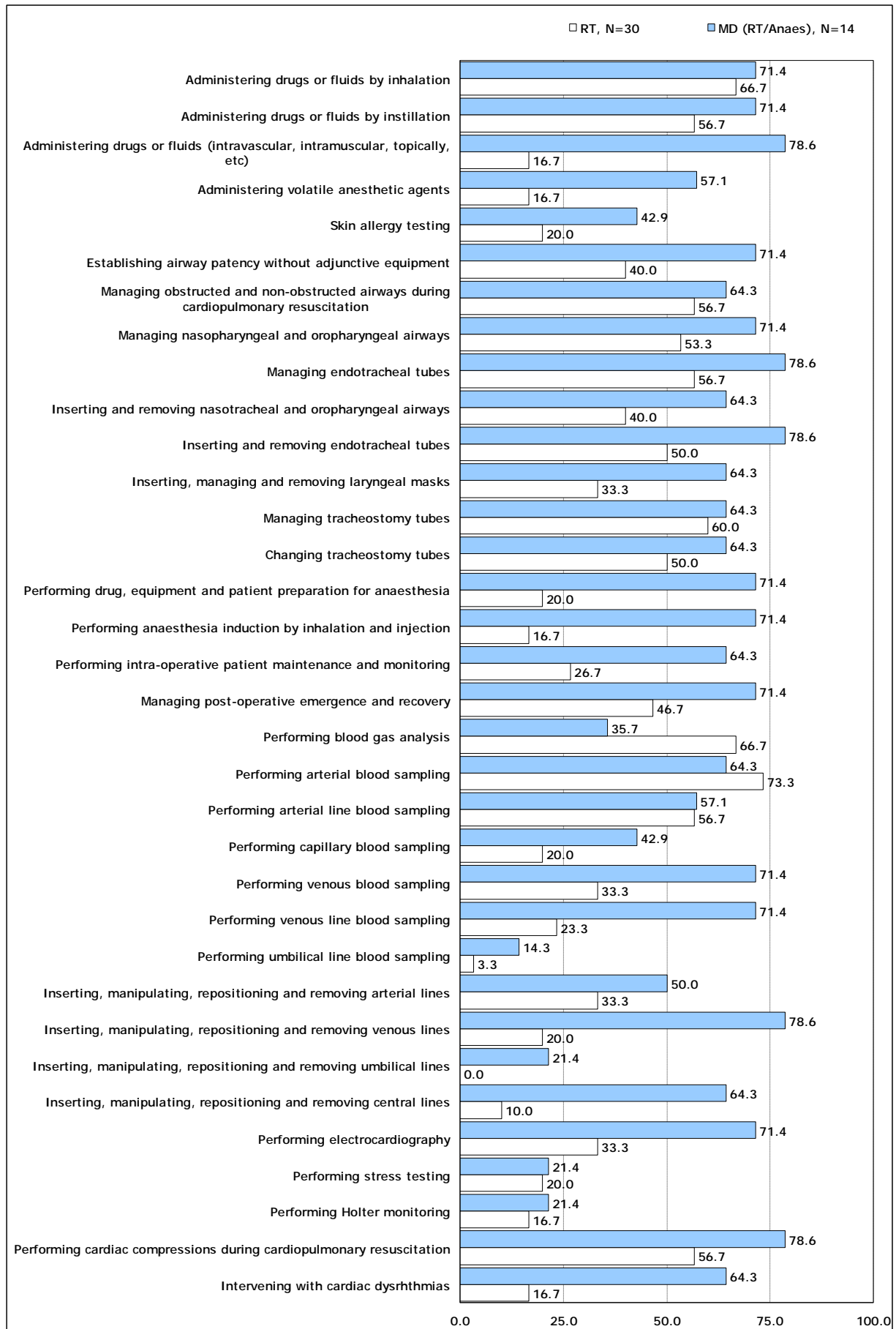


FIGURE 14: Percentage of Any Frequency Responses to Self-Assessment Questions 61 to 127 for Adults



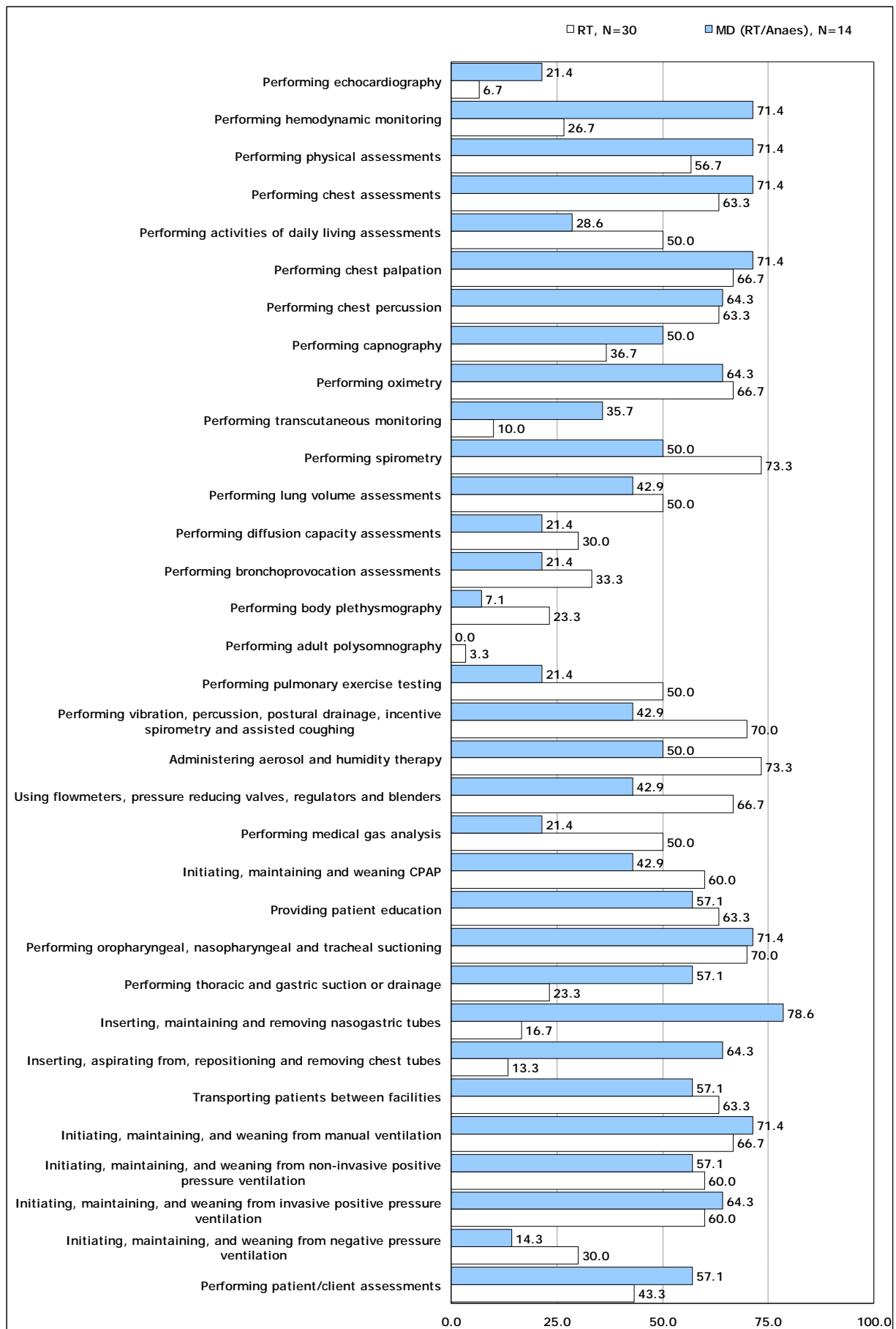
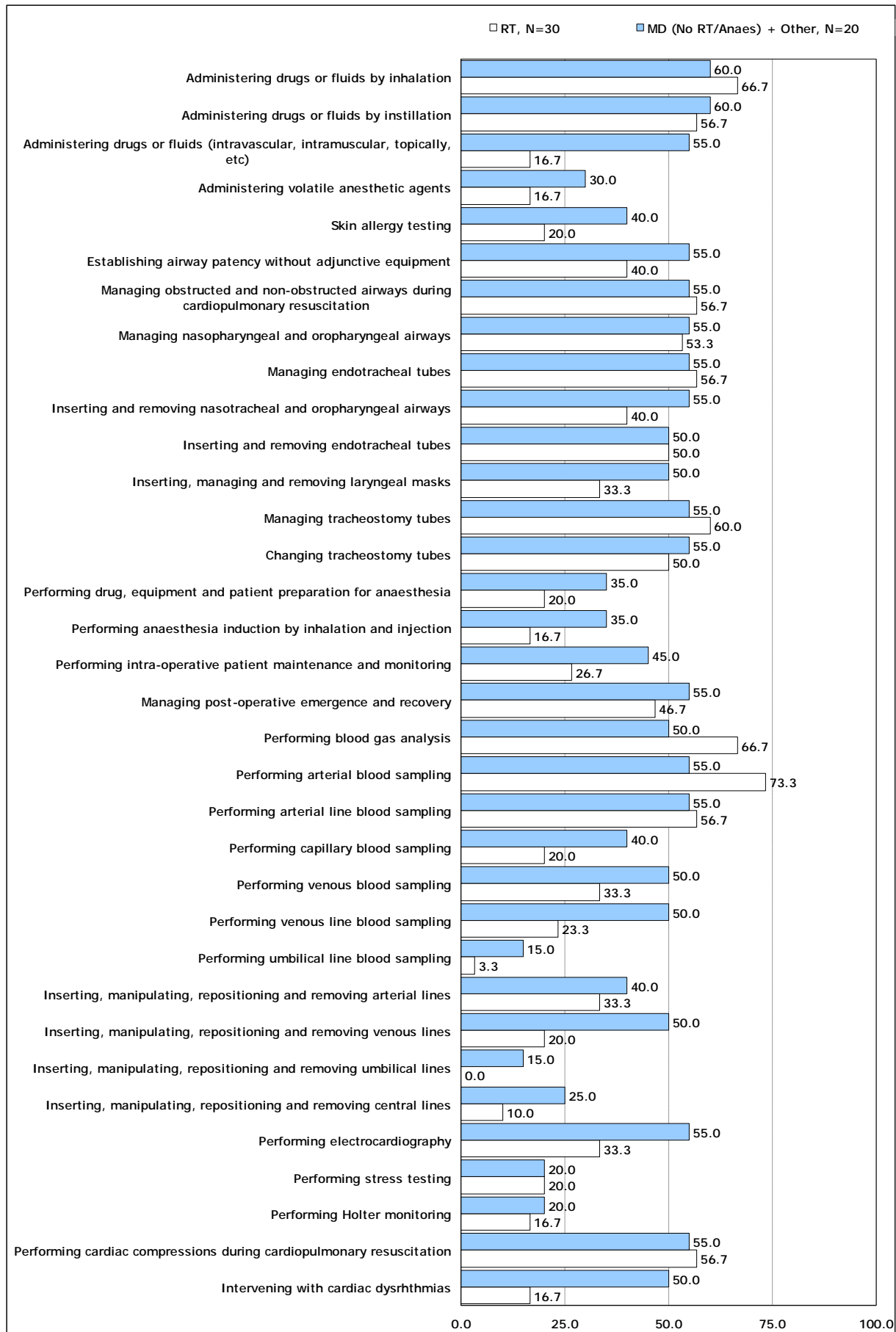


FIGURE 15: Percentage of Any Frequency Responses to Self-Assessment Questions 61 to 127 for Adults



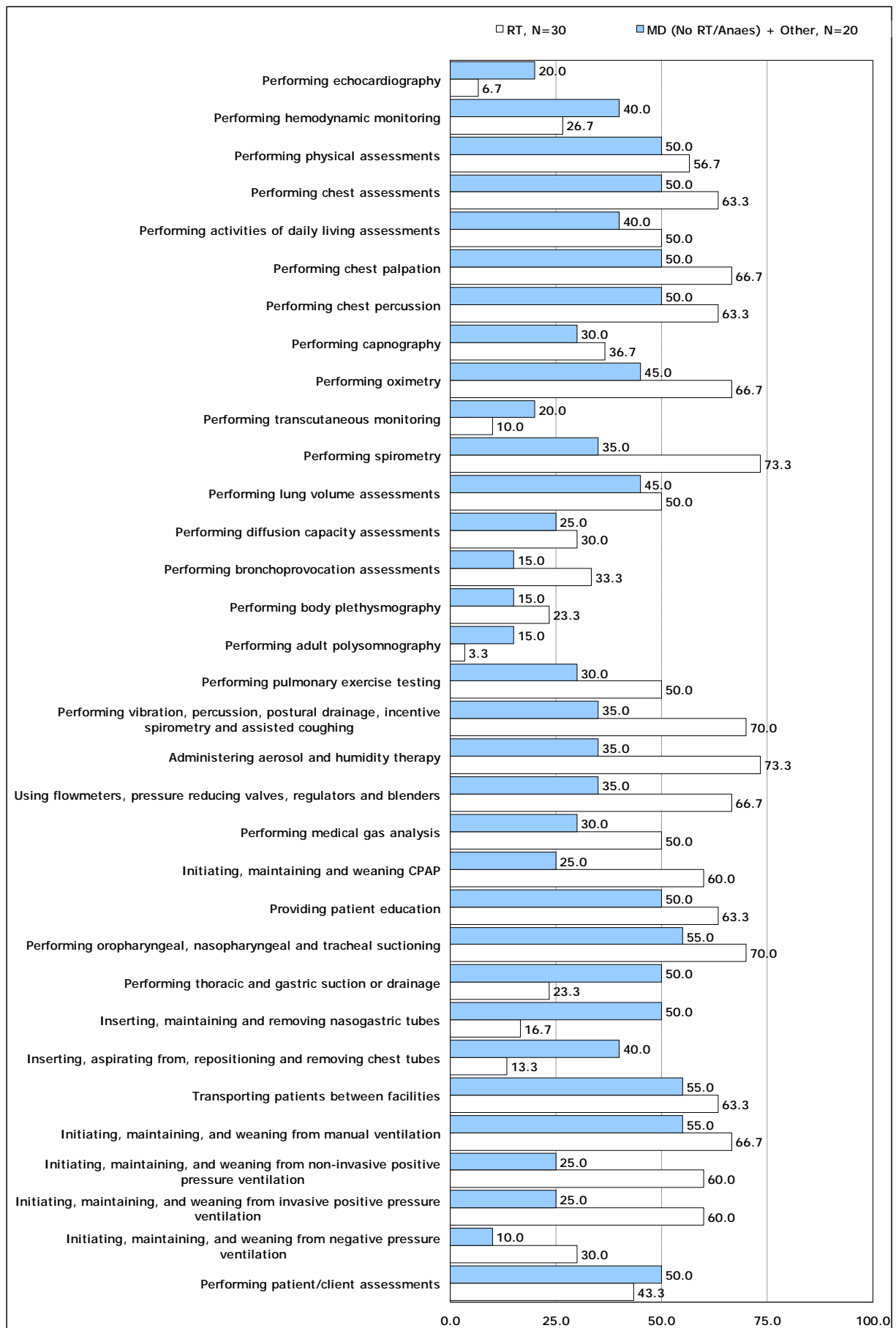
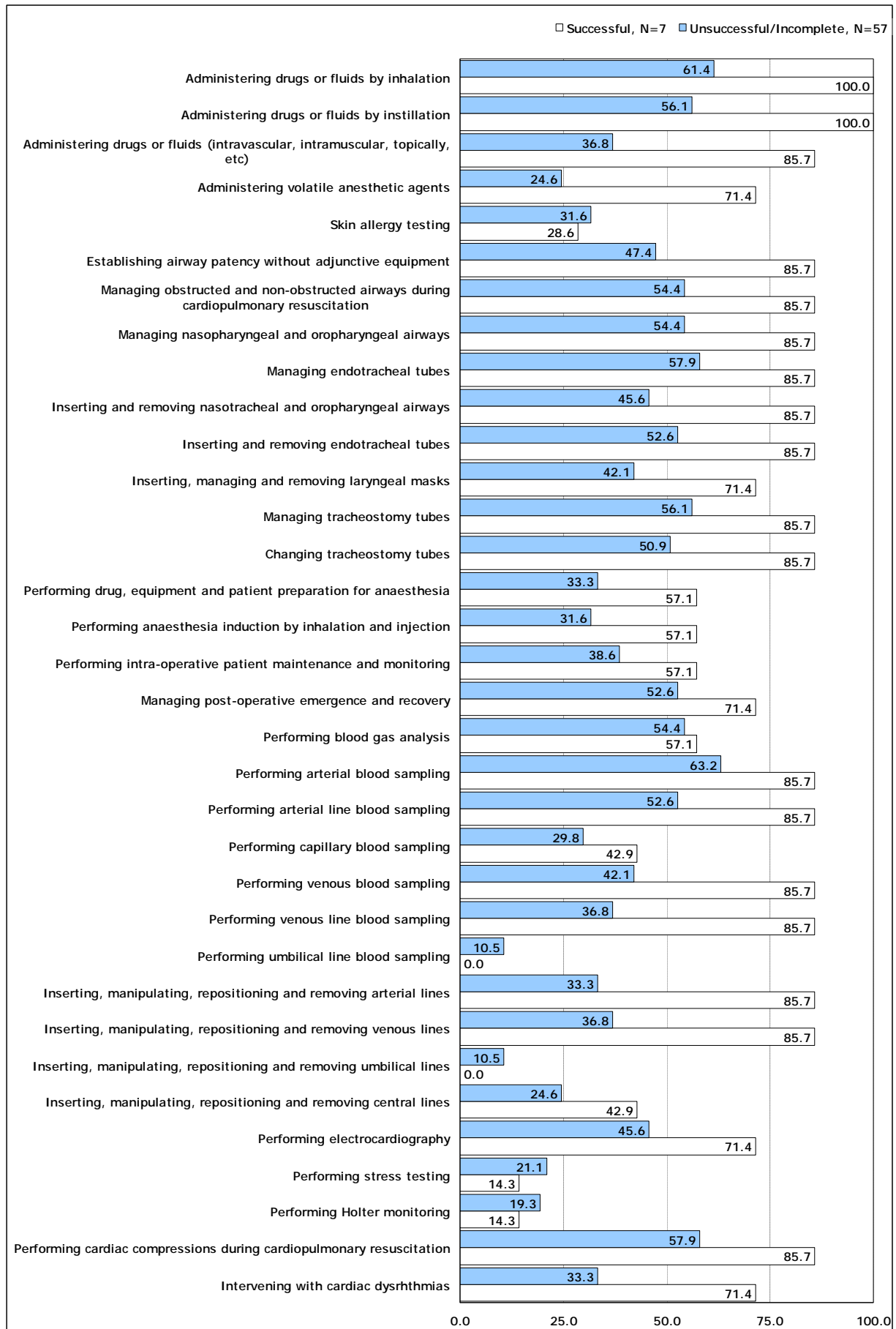


FIGURE 16: Percentage of Any Frequency Responses to Self-Assessment Questions 61 to 127 for Adults



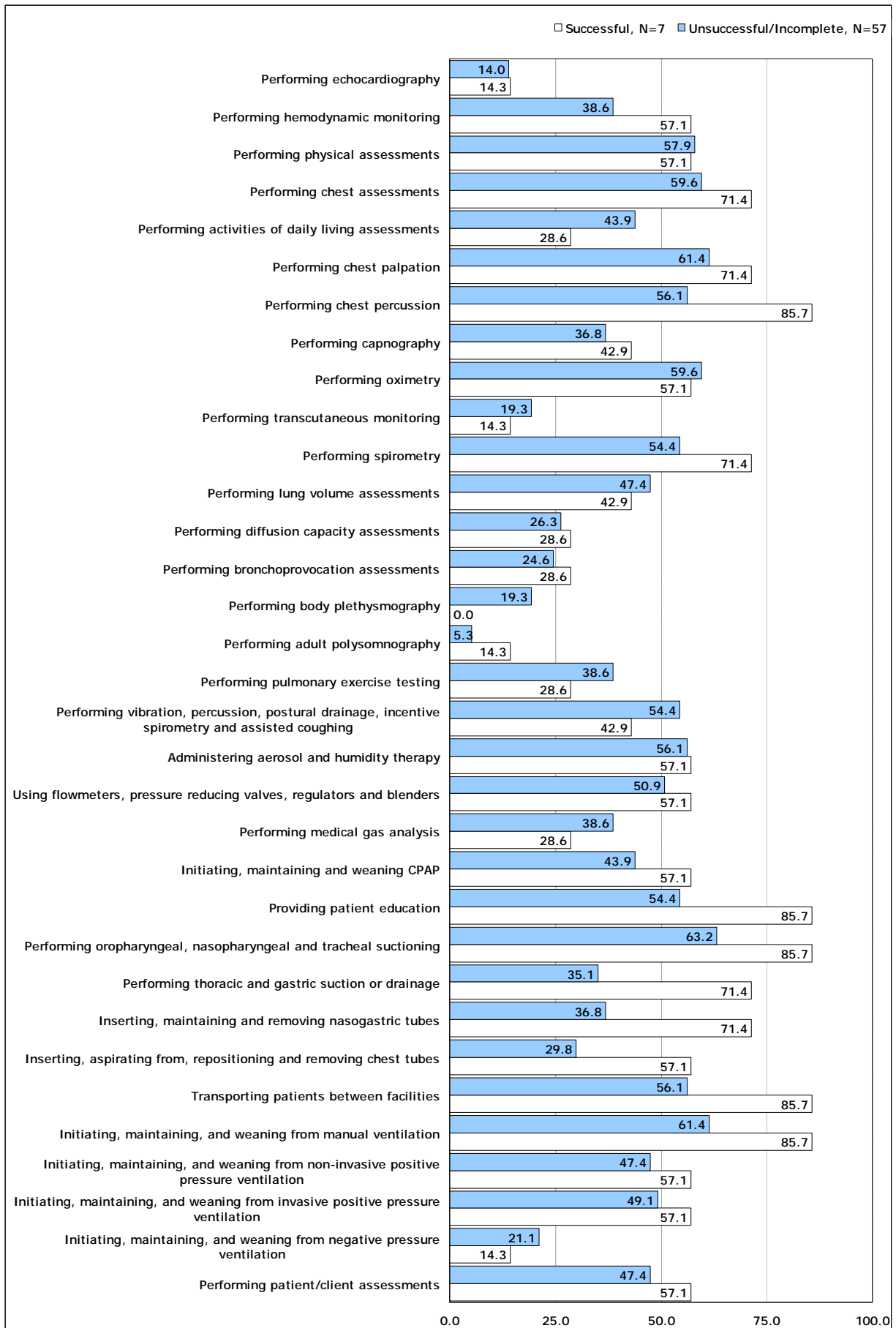


FIGURE 17: Percentage of Candidates with Gaps Identified at Stage 1 Assessment
 NCP Categories Ordered from Largest Entry-to-Practice Exam Weight to Smallest
 Overall, N=69

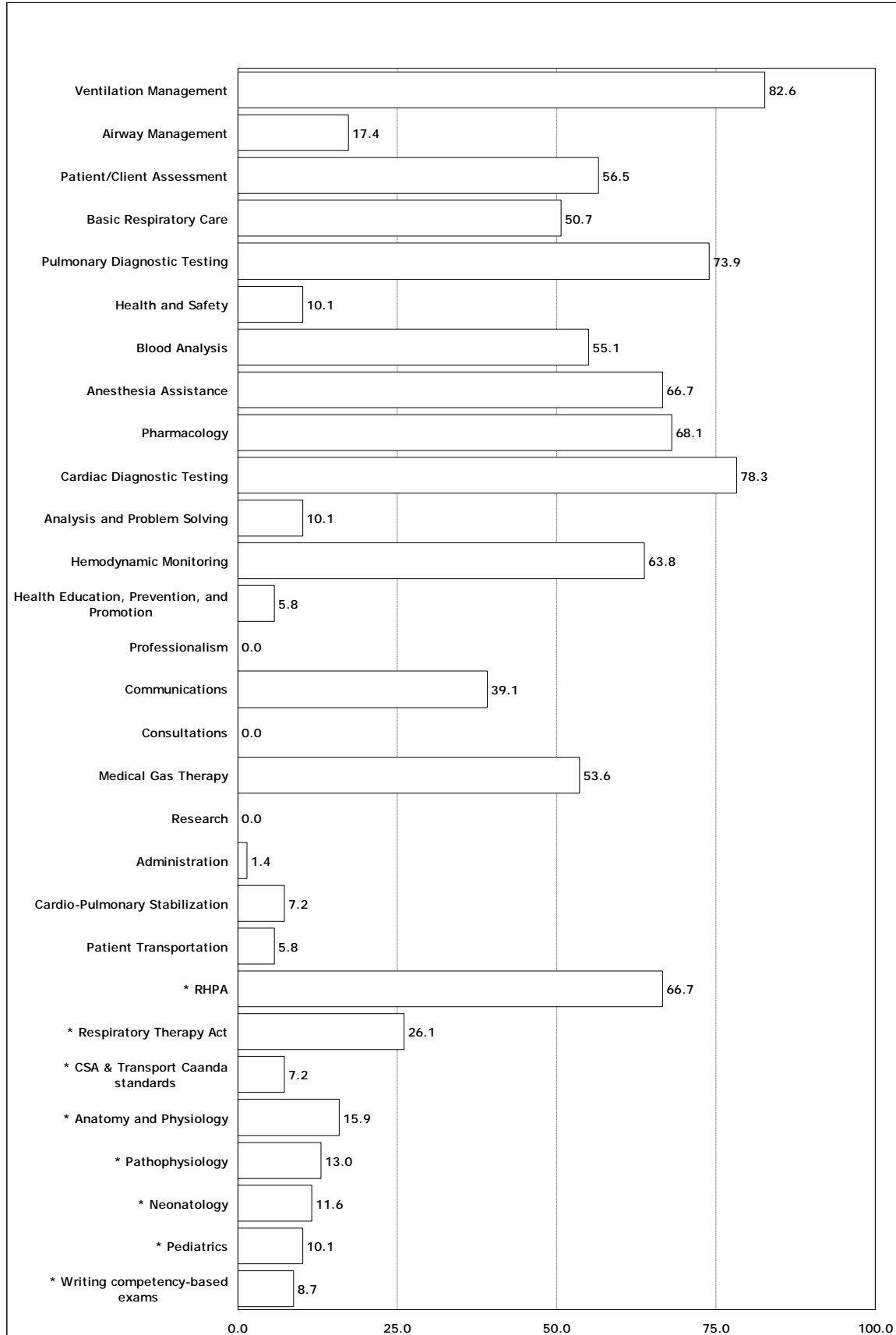


FIGURE 18: Percentage of Candidates with Gaps Identified at Stage 1 Assessment
NCP Categories Ordered from Largest Entry-to-Practice Exam Weight to Smallest

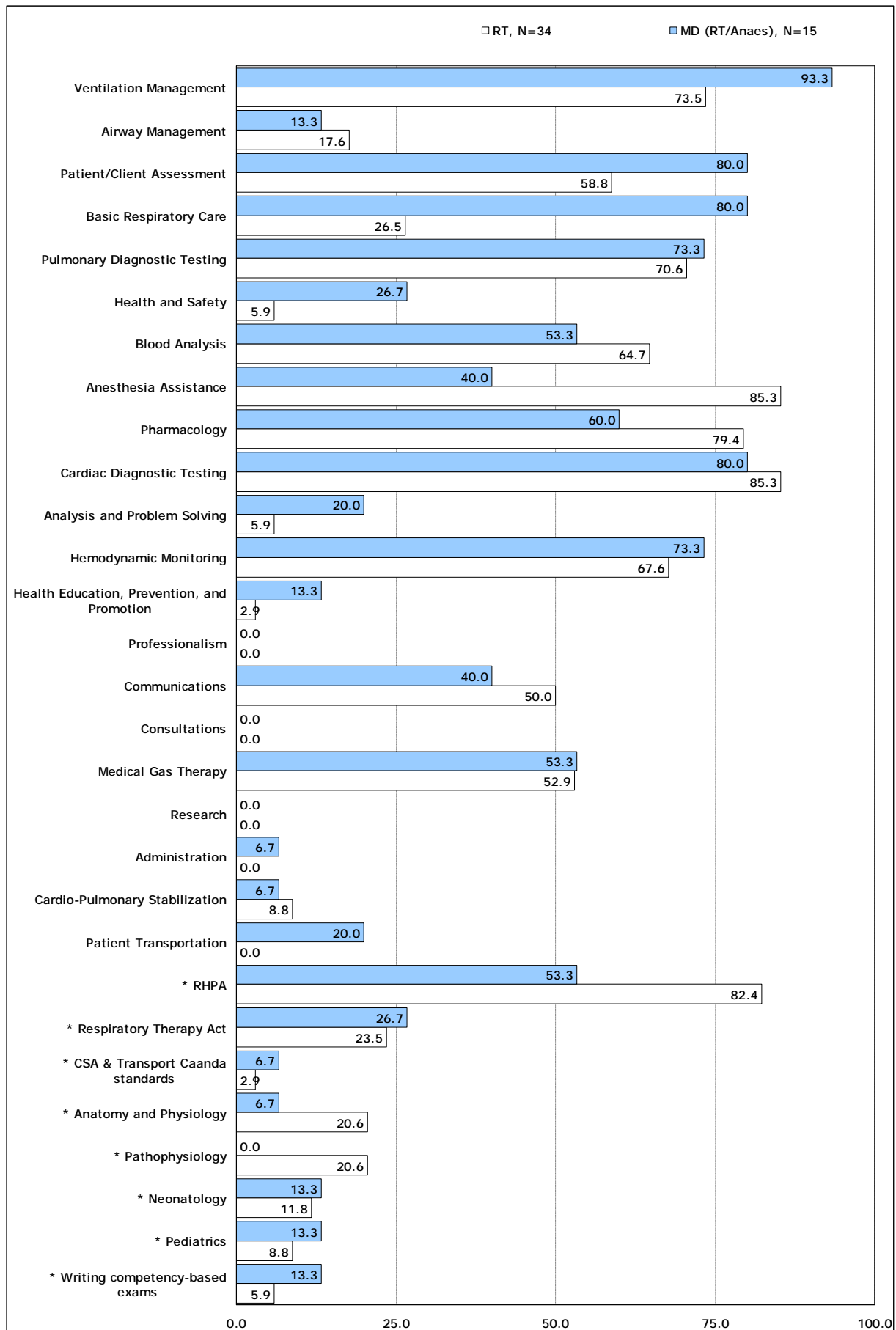


FIGURE 19: Percentage of Candidates with Gaps Identified at Stage 1 Assessment
 NCP Categories Ordered from Largest Entry-to-Practice Exam Weight to Smallest

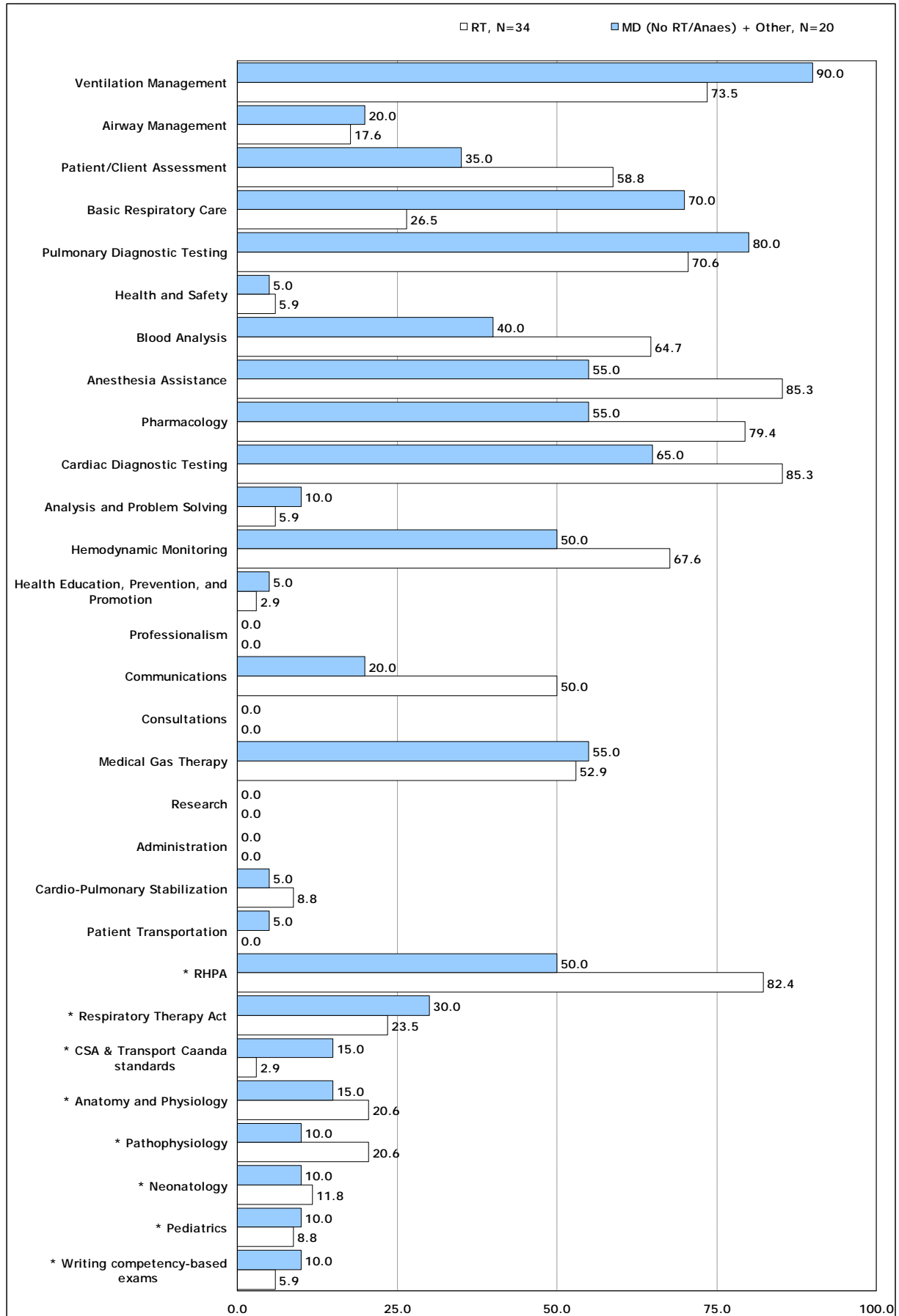


Figure 20: Percentage of Candidates with Gaps Identified at Stage 1 Assessment
 NCP Categories Ordered from Largest Entry-to-Practice Exam Weight to Smallest

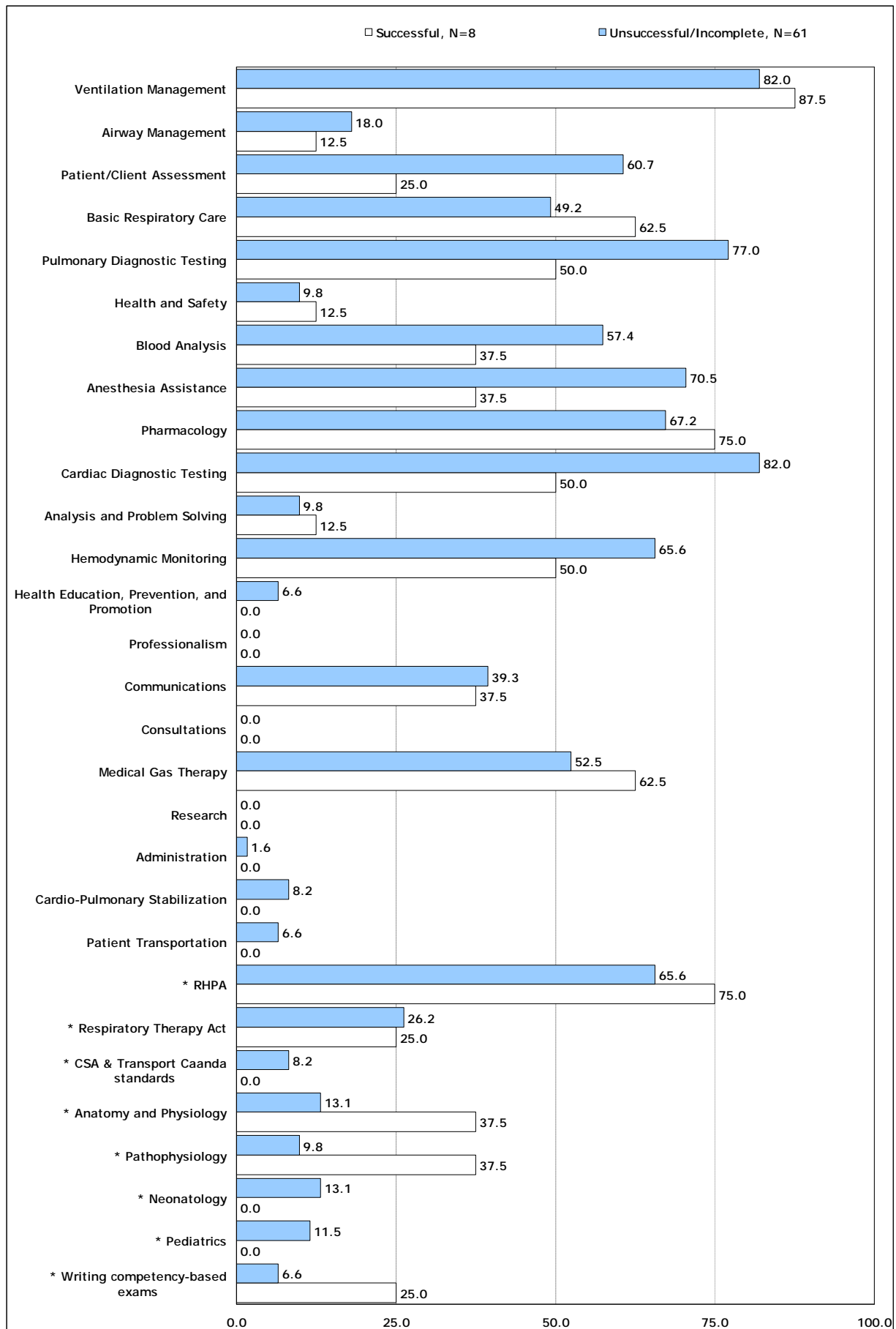


FIGURE 21: Distribution of Scores on Stage 2 Assessment
Overall, N=28

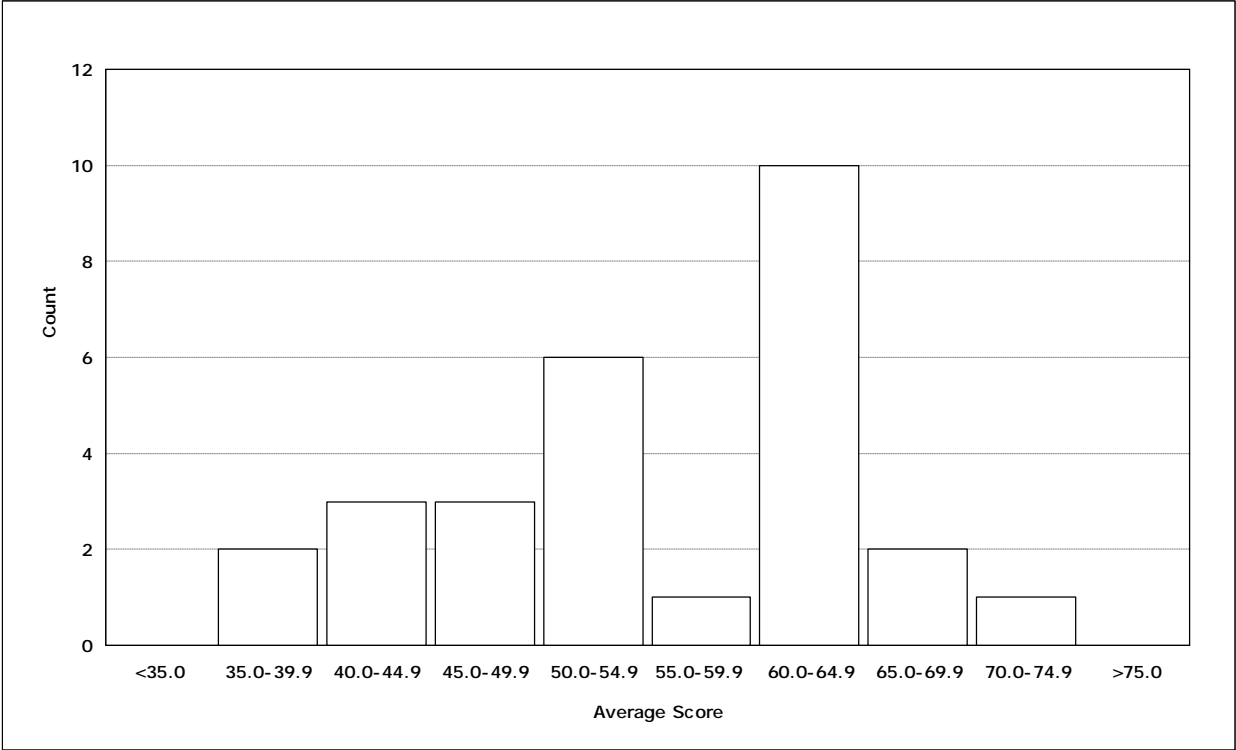


FIGURE 22: Distribution of Scores on Stage 2 Assessment

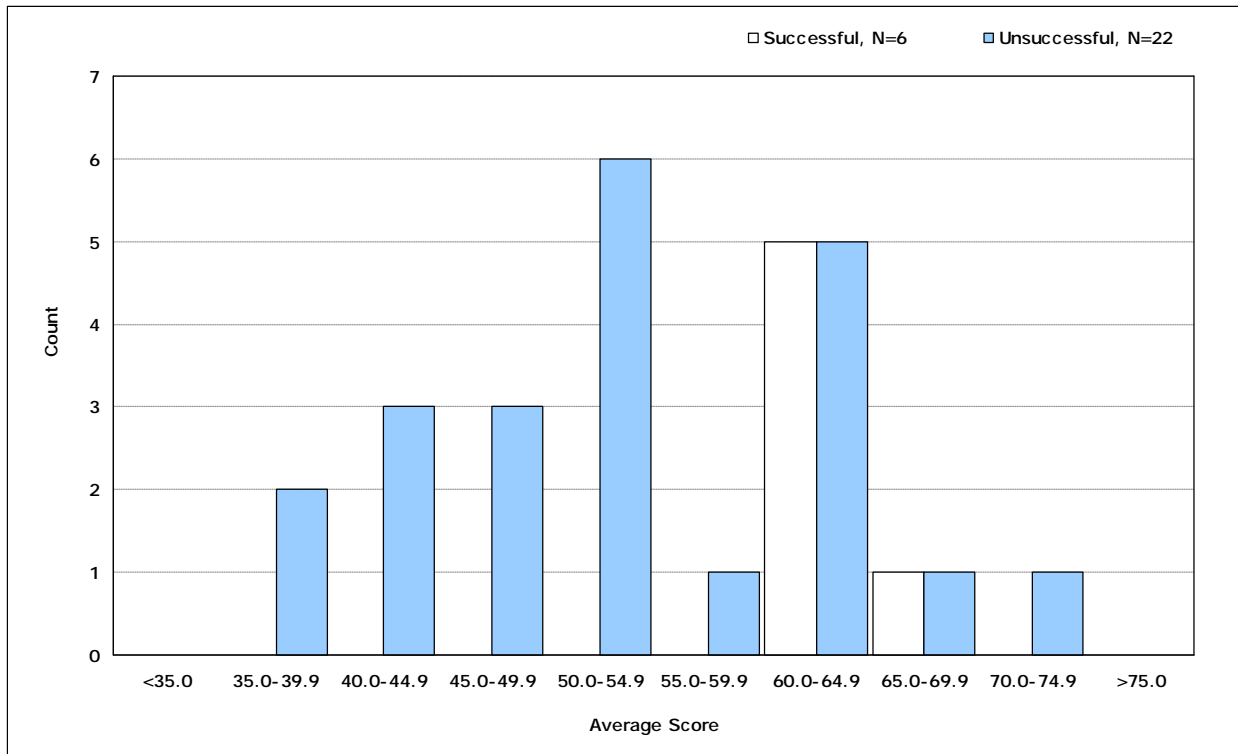


FIGURE 23: Average Scores on Stage 2 Assessment
 Categories Ordered from Largest Stage 2 Weight to Smallest
 N=28 for Total Score, N=14 for Breakdown Scores

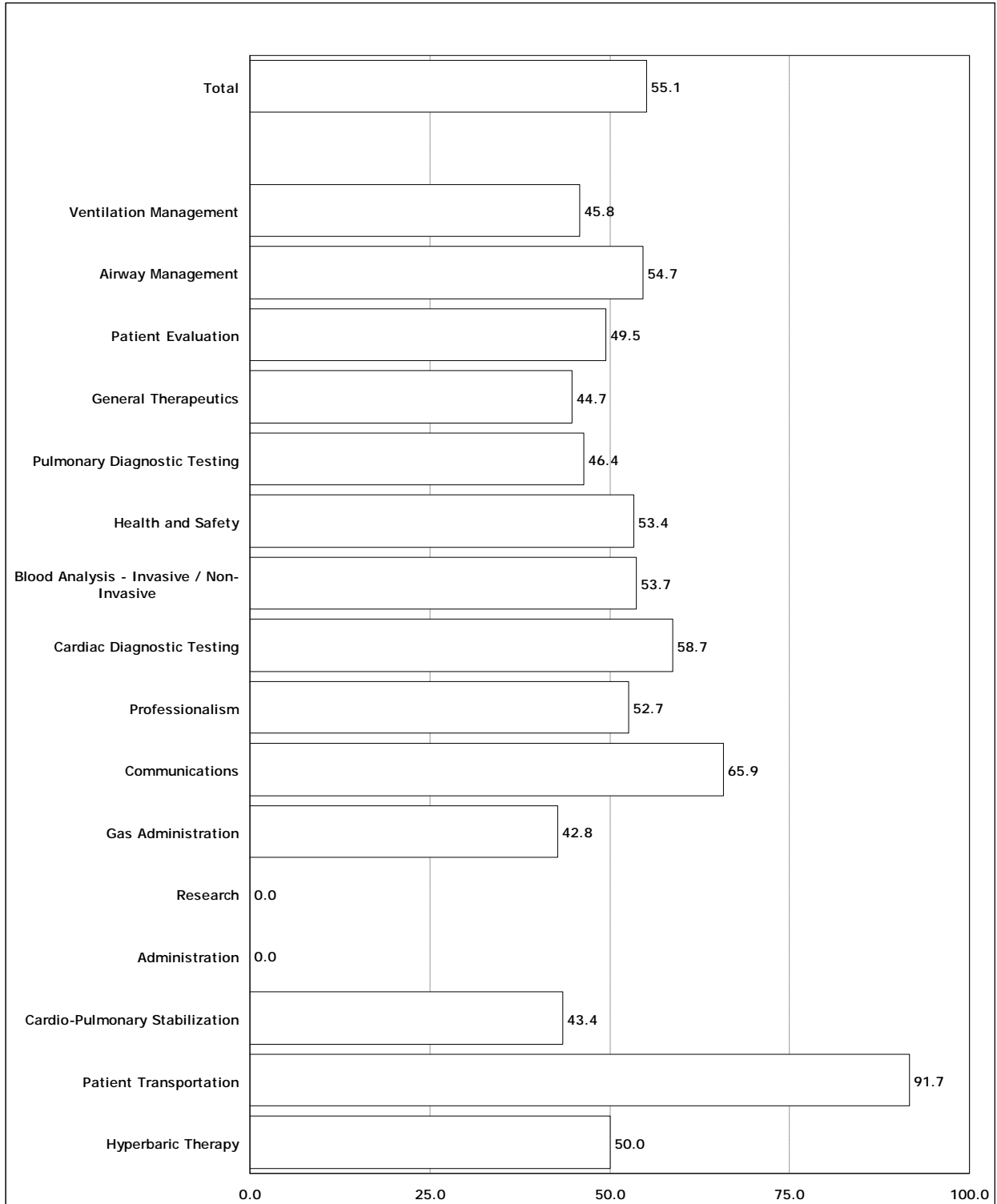


FIGURE 24: Average Scores on Stage 2 Assessment
 Categories Ordered from Largest Stage 2 Weight to Smallest

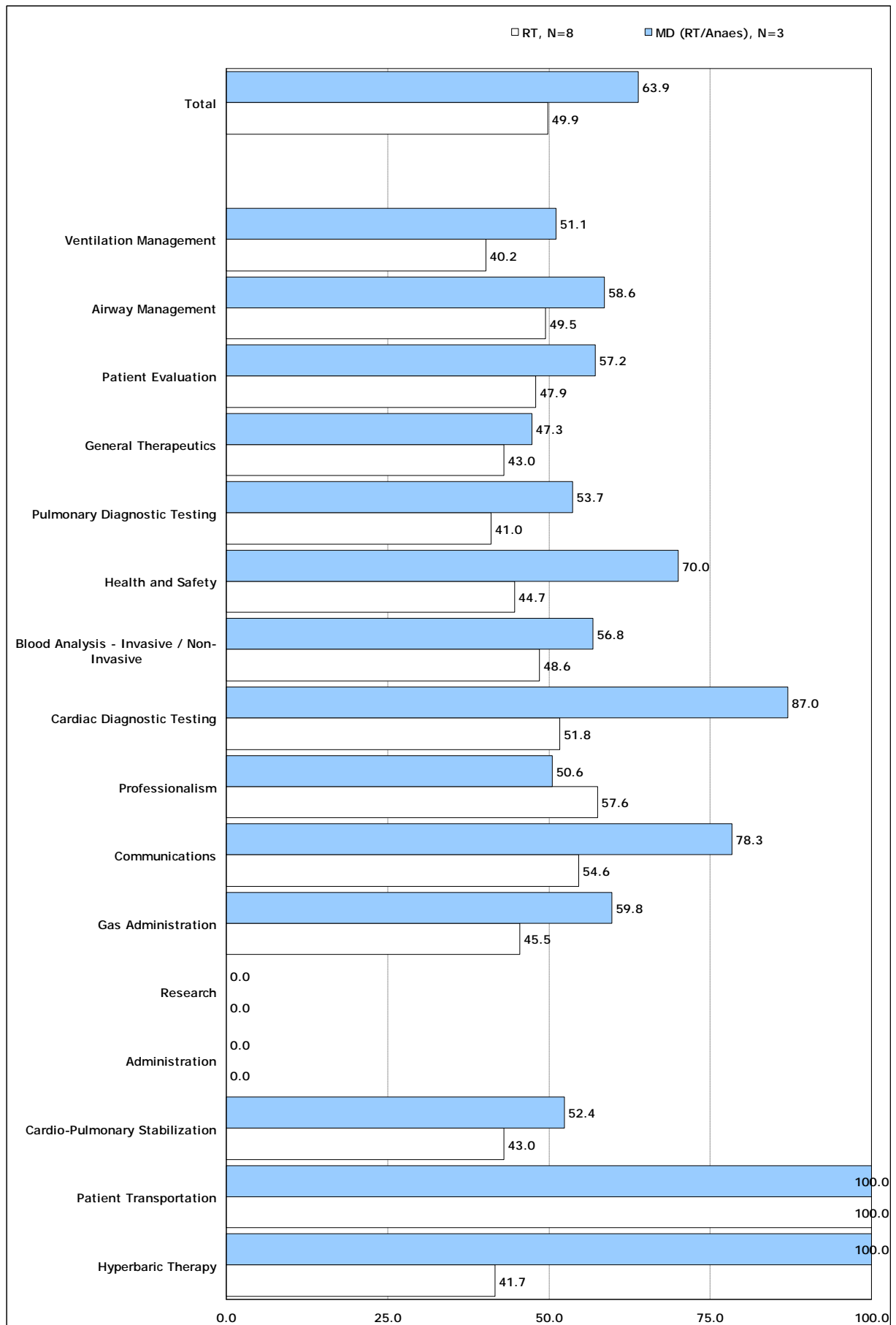


FIGURE 25: Average Scores on Stage 2 Assessment
 Categories Ordered from Largest Stage 2 Weight to Smallest

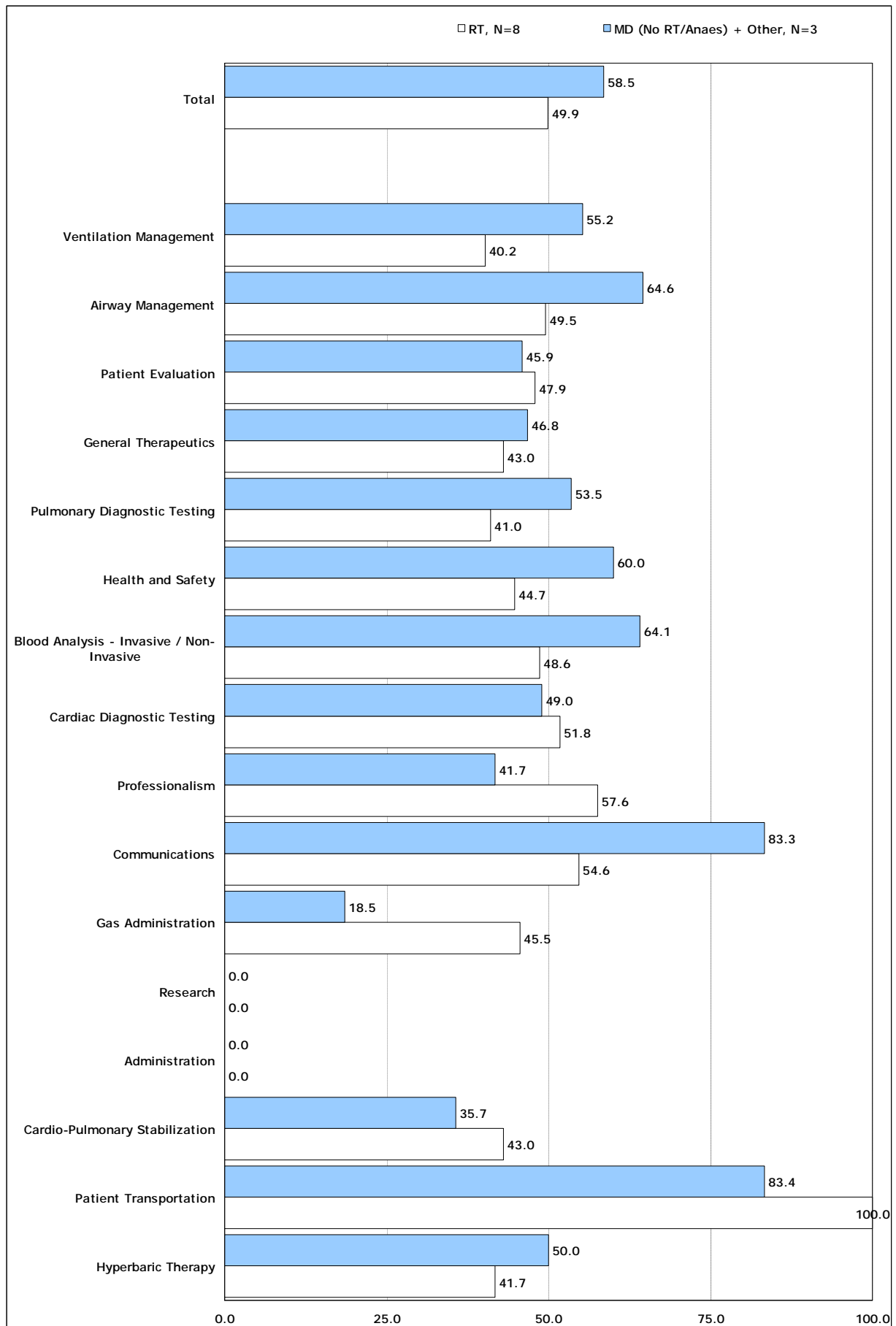
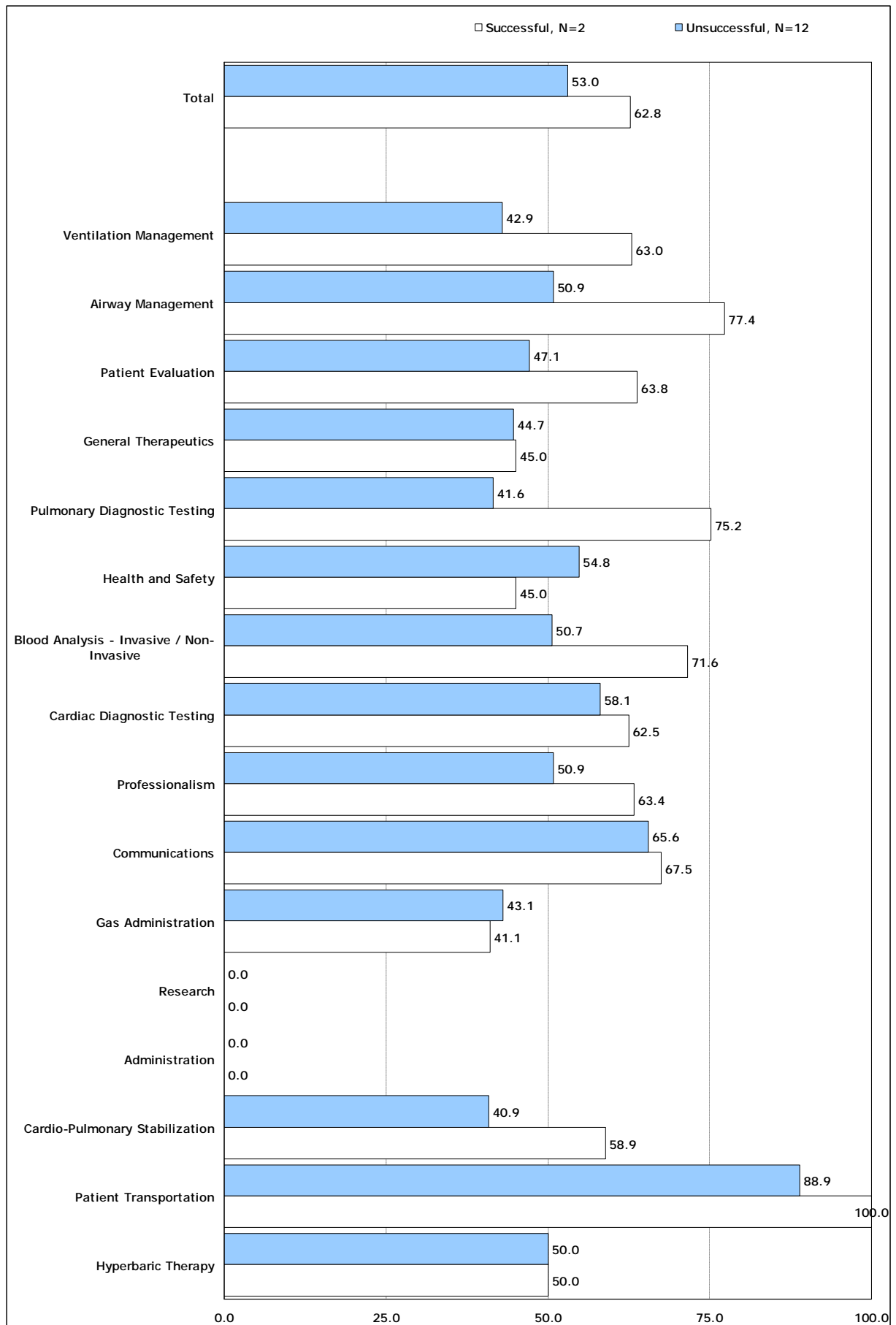


FIGURE 26: Average Scores on Stage 2 Assessment
 Categories Ordered from Largest Stage 2 Weight to Smallest



THE GAP ANALYSIS PROJECT

APPENDIX 5

Survey of Clinical Assessors



Survey of Clinical Assessors

1. Introduction

You are being contacted in relation to a research project currently being undertaken by the College of Respiratory Therapists of Ontario (CRTO). The CRTO has had a prior learning assessment (PLA) process for internationally educated applicants since 1999. This process included three stages, the penultimate one being the Stage 3 Clinical Assessment.

Unfortunately, only a few internationally educated applicants have successfully completed all stages of the process and become registered as RTs in Ontario.

For this reason, CRTO is currently undertaking a Gap Analysis Project (GAP) to better understand the learning needs of internationally educated health professionals (IEHPs) seeking RT registration in Ontario. The purpose of this project is to design a new educational model to better meet the needs of these applicants.

As part of this project, we are gathering feedback from educational partners and RTs in clinical practice settings who participated in supervising and/or assessing IEHPs completing the Stage 3 Clinical Assessment of the PLA.

As you may have previously been involved in this process, we are asking you to please complete this survey and provide your observations and recommendations. This survey should take no more than 7 - 10 minutes to complete.

2. Your Experience Supervising Internationally Educated RT Applicants

1. How many individual internationally educated RT applicants have you supervised and/or assessed in clinical practice?

None

One

Two

Three

Four

Five or more

3.

Survey of Clinical Assessors

2. If you can recall, in what years did you supervise and/or assess internationally educated RT applicants (please check all that apply)?

- 1999
- 2000
- 2001
- 2002
- 2003
- 2004
- 2005
- 2006
- 2007
- 2008
- 2009
- 2010
- I don't remember

4. Competency Strengths

Survey of Clinical Assessors

3. In your experience, how would you rate the competencies of the internationally educated health professional (IEHP) you supervised or assessed? If you supervised or assessed several IEHPs, please provide general observations. There is also a subsequent question where you may add more detail.

| | Don't remember | Not applicable - did not observe/assess | Weak | Satisfactory | Strong |
|--|-------------------|---|------|--------------|--------|
| HEALTH AND SAFETY: Apply preventative measures associated with asepsis, health, welfare and safety in the clinical setting | jn | jn | jn | jn | jn |
| HEALTH EDUCATION, PREVENTION & PROMOTION: Educate patients, families, colleagues and health care professionals concerning respiratory care in a clinical setting | jn | jn | jn | jn | jn |
| PATIENT/CLIENT ASSESSMENT: Conduct patient assessment in a clinical setting | jn | jn | jn | jn | jn |
| CONSULTATIONS/COLLABORATION: Provide consultation concerning patient care to colleagues and health care team members in a clinical setting | jn | jn | jn | jn | jn |
| BLOOD ANALYSIS: Procure blood samples from various sites in a simulated clinical setting | jn | jn | jn | jn | jn |
| PULMONARY DIAGNOSTIC TESTING: Perform pulmonary diagnostic testing on patients in a clinical setting | jn | jn | jn | jn | jn |
| CARDIAC DIAGNOSTIC TESTING: Perform cardiac diagnostic testing on patients in a simulated clinical setting | jn | jn | jn | jn | jn |
| RESPIRATORY CARE PROCEDURES: Perform basic respiratory care procedures on patients in a clinical setting | jn | jn | jn | jn | jn |
| CPR – ARTIFICIAL VENTILATION: Perform airway management techniques on patients in a clinical setting | jn | jn | jn | jn | jn |
| VENTILATION MANAGEMENT: Optimize pulmonary ventilation on patients in a clinical setting | jn | jn | jn | jn | jn |
| MEDICAL GAS THERAPY: Apply medical gas therapy for specific patients needs in a clinical setting | jn | jn | jn | jn | jn |
| ANAESTHESIA: Perform anaesthesia assistance in a clinical setting | jn | jn | jn | jn | jn |
| PHARMACOLOGY: Administer pharmaceutical substances for specific applications on patients in a clinical setting | jn | jn | jn | jn | jn |
| PATIENT TRANSPORTATION: Manage patient transport in a clinical setting. | jn | jn | jn | jn | jn |
| Exhibit profesional behaviour with patients, | jn | jn | jn | jn | jn |

Survey of Clinical Assessors

families, colleagues and health care professionals in a clinical setting.

Use professional language, behaviour & attire.

jñ

jñ

jñ

jñ

jñ

Perform work with care, dexterity & precision.

jñ

jñ

jñ

jñ

jñ

Communicate professionally in writing, verbally and non-verbally with patients, families, colleagues and health care professionals in a clinical setting.

jñ

jñ

jñ

jñ

jñ

Assess one's own thinking throughout the steps and processes used in problem solving and decision making in a clinical setting.

jñ

jñ

jñ

jñ

jñ

4. Please indicate any additional or more detailed comments you may have regarding your experience of supervising/assessing the performance of I EHPs undertaking the Stage 3 clinical assessment.

5. Learning Needs of I EHPs

Survey of Clinical Assessors

5. Have you observed that the I EHP(s) you have supervised/assessed have learning gaps in the following areas?:

| | Don't remember | Not applicable - did not observe/assess | Small gaps - not significant | Some gaps - skills development recommended | Large gaps - could cause practice / safety concerns |
|--|----------------|---|------------------------------|--|---|
| English Language (written) | jn | jn | jn | jn | jn |
| English language (spoken) | jn | jn | jn | jn | jn |
| English language (listening/comprehension) | jn | jn | jn | jn | jn |
| General health care communications skills | jn | jn | jn | jn | jn |
| Ventilation Management | jn | jn | jn | jn | jn |
| Airway Management | jn | jn | jn | jn | jn |
| Patient/Client Assessment | jn | jn | jn | jn | jn |
| Basic Respiratory Care | jn | jn | jn | jn | jn |
| Pulmonary Diagnostic Testing | jn | jn | jn | jn | jn |
| Health and Safety | jn | jn | jn | jn | jn |
| Blood Analysis | jn | jn | jn | jn | jn |
| Anaesthesia Assistance | jn | jn | jn | jn | jn |
| Pharmacology | jn | jn | jn | jn | jn |
| Cardiac Diagnostic Testing | jn | jn | jn | jn | jn |
| Analysis and Problem Solving | jn | jn | jn | jn | jn |
| Hemodynamic Monitoring | jn | jn | jn | jn | jn |
| Health Education, Prevention & Promotion | jn | jn | jn | jn | jn |
| Consultations | jn | jn | jn | jn | jn |
| Medical Gas Therapy | jn | jn | jn | jn | jn |
| Research | jn | jn | jn | jn | jn |
| Administration | jn | jn | jn | jn | jn |
| Cardio-pulmonary Stabilization | jn | jn | jn | jn | jn |
| Patient Transportation | jn | jn | jn | jn | jn |
| RHPA | jn | jn | jn | jn | jn |
| Respiratory Therapy Act | jn | jn | jn | jn | jn |
| CSA & Transport Canada Standards | jn | jn | jn | jn | jn |

Survey of Clinical Assessors

| | | | | | |
|----------------------|----|----|----|----|----|
| Anatomy & Physiology | jn | jn | jn | jn | jn |
| Pathophysiology | jn | jn | jn | jn | jn |
| Neonatology | jn | jn | jn | jn | jn |
| Pediatrics | jn | jn | jn | jn | jn |

6. Recommendations

6. In my opinion the best way to meet the learning needs of IEHPs is:

- To continue with the CRTO PLA process as it has been delivered.
- To have IEHPs complete required "bridging education" (some theoretical courses and a clinical placement) before they attempt the clinical assessment.
- To offer IEHPs advanced standing for previous studies and the opportunity to integrate into the full-time RT program, where they will then complete the program as Ontario graduates.
- To have IEHPs complete all courses in the 3-year full-time RT program.
- I don't know.
- Other.

7. Other suggestions for meeting the learning needs of IEHP applicants

7. If you indicated Other, what other ways do you suggest the learning needs of IEHPs could be met?

8. Contact

8. If you would like to be contacted for a telephone interview regarding your experience supervising and assessing IEHPs completing their Clinical Assessment, please provide your contact information (Name, title, telephone and e-mail address):

9. Thank you!

Thank you for taking part in this survey. Your observations and recommendations are very valuable to

Survey of Clinical Assessors

the development of a new model to meet the needs of qualified internationally educated health professionals seeking to become your RT colleagues in future.

10. Exiting survey

Your participation in the survey is now complete. You will now be re-directed to the CRTO home page.

COLLEGE OF RESPIRATORY THERAPISTS OF ONTARIO

THE GAP ANALYSIS PROJECT

APPENDIX 6

Survey of CRTO PLA Candidates



Survey of CRTO PLA Candidates

1. Introduction

You are being contacted regarding a research project currently being undertaken by the College of Respiratory Therapists of Ontario (CRTO). The CRTO has had a prior learning assessment (PLA) process for internationally educated applicants since 1999.

A few internationally educated applicants have successfully completed all stages of the process and become registered as RTs in Ontario. However, many applicants did not complete the PLA process, experienced difficulty with it or were not successful.

CRTO is currently undertaking a Gap Analysis Project (GAP) to better understand the learning needs of internationally educated health professionals (IEHPs) seeking RT registration in Ontario. The purpose of this project is to design a new educational model that may be able to better meet the needs of IEHP applicants.

As part of this project, we are gathering feedback from individuals who applied to the CRTO and completed some or all stages of the PLA process.

As you have been or are currently involved in this process, we are asking you to please complete this survey and provide your observations and recommendations. This survey should take no more than 10 - 12 minutes to complete.

Your feedback is very valuable to the project.

2. CRTO PLA Participant Profile

In this section of the survey, we would like to know more about the applicants who attempted the CRTO Prior Learning Assessment (PLA).

- * 1. In what countr(ies) did you complete your health sciences education before coming to Canada?

2. What type of education program did you complete?

- Respiratory Therapy
- Anaesthesia Technician
- Medicine (Anaesthesia)
- Medicine (Respirology)
- Medicine (Generalist)
- Medicine (other type of specialist)

Survey of CRTO PLA Candidates

3. In what year did you graduate with your diploma/degree?

2009

2008

2007

2006

2005

2004

2003

2002

2001

2000

1999

1998

1997

1996

1995

1994

1993

1992

1991

1990

1989

1988

1987

1986

1985

1984

1983

1982

1981

Survey of CRTO PLA Candidates

1980

Previous to 1980

4. Were you registered/licensed to practice in your health profession before coming to Canada?

Yes

Not applicable - the health profession is not regulated in the country where I completed my education.

No

5. For how many years did you work in your health profession before coming to Canada?

0 - I did not work in my profession after graduating

Less than one year

Between 1 - 2 years

Between 2 - 3 years

Between 3 - 4 years

Between 4 - 5 years

Between 5 - 6 years

Between 6 - 7 years

Between 7 - 8 years

Between 8 - 9 years

Between 9 - 10 years

More than 10 years

6. Under what immigration class did you come to Canada?

Student

Live-in Caregiver

Independent/Professional

Family

Refugee

Other

Survey of CRTO PLA Candidates

7. Please indicate who came to Canada with you when you immigrated:

- No one - I came by myself
- My husband/wife/partner
- My husband/wife/partner and children
- My children only
- Other family members (e.g. parent, uncle, aunt, cousin)

8. In what year did you immigrate to Canada?

9. How many years had you been out of your profession (not practising) when you applied to CRTO to be registered as a respiratory therapist?

- Not applicable - I applied while I was still practising in another country.
- Less than 1 year
- Between 1 - 2 years
- Between 2 - 3 years
- Between 3 - 4 years
- Between 4 - 5 years
- Between 5 - 6 years
- Between 6 - 7 years
- Between 7 - 8 years
- Between 8 - 9 years
- Between 9 - 10 years
- More than 10 years

3. The CRTO Registration / PLA Process

10. When you were immigrating to Canada, what health career did you expect/want to have in Canada?

- Respiratory Therapist
- Anaesthesiologist
- Other Doctor
- Other health professional

Survey of CRTO PLA Candidates

11. In what year did you apply to the CRTO for registration?

12. Before applying to the CRTO, had you applied for registration/licensure with another regulatory body in Canada?

Yes

No

4. Experience applying for registration/licensure with another regulatory body

13. To what other regulatory body did you apply for licensure/registration?

College of Physicians and Surgeons of Ontario

Other licensing body for medical doctors

Other

14. In what year did you apply to another regulatory body for registration?

15. What was the result of your application to a different health regulatory college (not CRTO)?

I was offered registration/licensure

I am continuing to try to register in the other profession

I did not complete the registration/licensure process and have stopped trying

I was refused registration

None of the above

5. Costs

Survey of CRTO PLA Candidates

16. Please indicate all of the steps of the CRTO registration and PLA process that you completed and for which you had to pay (check all that apply):

- Translation of college/university documents
- Test of English as a Second Language (TOEFL, IELTS, MELAB etc.)
- Stage 1 PLA (Interview & Feedback)
- Stage 2 PLA (Didactic Exam)
- Stage 3 PLA (Clinical Assessment)
- Access & Options courses
- Mask Fitting
- First Aid course
- CPR course
- Michener Pilot RT Bridging Program courses
- RT courses at a community college (other than the Michener)

Survey of CRTO PLA Candidates

17. Please provide an estimate of the total amount of money you spent related to the CRTO registration/PLA process (this would include all of the costs associated with assessments, courses etc. indicated in the previous question, plus books and supplies).

Less than \$500

Less than \$1,000.

\$1,000 - \$2,000

\$2,000 - \$3,000

\$3,000 - \$4,000

\$4,000 - \$5,000

\$5,000 - \$6,000

\$6,000 - \$7,000

\$7,000 - \$8,000

\$8,000 - \$9,000

\$9,000 - \$10,000

\$10,000 - \$11,000

\$11,000 - \$12,000

\$12,000 - \$13,000

\$13,000 - \$14,000

More than \$14,000

6. CRTO PLA Process

Survey of CRTO PLA Candidates

18. Please describe your current status regarding CRTO registration

- I am currently a General Class member of CRTO
- I am currently a Graduate member of CRTO
- I was a CRTO member previously but I am not a member now
- I am registered as a respiratory therapist in a different Canadian province
- I was refused registration
- I withdrew my application
- My application file was closed
- I am still completing the registration process

19. If you did not complete all the stages of the CRTO PLA process, what do you think were the main reasons you did not continue (indicate all that apply)?

- It was taking too long
- It was costing too much money
- I didn't think that I would be successful
- I failed the Stage 2 Didactic exam twice, so was not allowed to continue
- I had other responsibilities (e.g. family, job) so could not spend the time required to complete it
- I decided that it wasn't worth the effort
- I found other work that was good, so decided not to pursue RT registration
- I became registered in another health profession

7. Recommendations

Survey of CRTO PLA Candidates

20. In my opinion the best way to prepare IEHPs to become respiratory therapists in Ontario is:

To continue with the PLA process as it is.

To have IEHPs complete required "bridging education" (some theoretical course and a clinical component) before they attempt the clinical assessment.

To offer IEHPs advanced standing for previous studies and the opportunity to integrate into the full-time program, where they will then complete the program as Ontario graduates.

To have IEHPs complete all courses in the 3-year full-time RT program.

I don't know

Other

21. If you indicated Other, what other ways do you suggest the learning needs of IEHPs could be met?

22. Please provide any other comments you have regarding the CRTO PLA process.

8. Thank you!

Thank you for completing this survey. Your time and effort is very much appreciated. The information you have provided will be carefully considered as part of the CRTO Gap Analysis Project. You will now be re-directed to the CRTO home web page.

THE GAP ANALYSIS PROJECT

APPENDIX 7

Michener RT Bridging Program
2008-2009



Michener RT Bridging Program 2008-2009

| PLA Stage 1 – INTERVIEW | | | |
|---|---|------------------|--|
| <p>Applicants are given a recommendation to proceed through PLA or not based on the findings of the Stage 1 assessment, e.g. currency of experience, type and length of experience, profession, MCQ results. If the assessment suggested that the individual would be able to successfully challenge PLA they were given options and the Bridging was one option. Criteria was based upon the recommendation/ referral by PLA. During 2008-2009 two individuals who were not formally part of the Bridging program due to lack of recommendation did take the courses in the hope of achieving success. Other individuals also took the courses who were not part of the PLA process for various reasons.</p> | | | |
| Stage 1 of Bridging: Course Section: Four week-end subject review courses. | Classroom / Clinical Hours ¹ | Required course | Evaluation: Pass/fail, % mark or other |
| AORS803 - Respiratory Care | 24 hours: 12 hours class/12 hours lab | Yes | % grade ² |
| AORS804 - Ventilation | 36 hours: 18 hours class/18 hours lab | Yes | % grade |
| AORS805 - Anaesthesia | 36 hours: 18 hours class/18 hours lab | Yes ³ | % grade |
| AORS806 - Neonatal / Paediatric Respiratory Care | 36 hours: 18 hours class/18 hours lab | Yes | % grade |
| RS823 Pulmonary Function Testing | 24 hours: 12 hours class/12 hours lab | No | % grade |
| AOIS113 - Preparation for Practice in Canadian Health Care | 24 hours: in-class only | Yes ⁴ | Attendance |
| Total number of hours for Course Section of Bridging: | Maximum 180 hours: <ul style="list-style-type: none"> • 102 hours classroom • 78 hours lab | | |

¹ In addition to classroom/lab learning, all courses included self study

² 60% is required to pass all Michener courses

³ During the 2008-2009 pilot, one student had taken a similar course and passed a “pretest” so was exempted from the course.

⁴ Though participants might be given “Advanced Standing” if they already had experience in Canadian healthcare or had taken a similar course.

| | | | |
|---|--|-------------------|-------------------------|
| <p>Simulation Section: Two 15-week courses AORSSC100 - Simulated Clinical</p> <ul style="list-style-type: none"> • One course is a discipline specific course with integration into the full time RT student body. • The second is interprofessional in nature with students in the other disciplines at Michener. • Students MUST successfully pass this section AND PLA Stage 2 assessment to be eligible for the CLINICAL SECTION | <p>RT Simulation in ICU/Paed/ED/Wards/OR/ED/PFT/CST/Home</p> <p>12 weeks X 9 hours/wk clinical simulation (108 hours) plus 3 hours X 9 weeks classroom instruction (36 hours) = 144 hrs.</p> <p>Plus potential additional 2-3 weeks of “remediation” = maximum 180 hrs</p> <p>Simulation in team meetings (QA) and with simulated patient in various settings</p> <p>14 weeks X 3 didactic = 42 hours plus potentially one additional week of “remediation” = maximum 45 hours</p> | <p>Yes</p> | <p>Pass/Fail</p> |
| <p>Total number of hours Simulation Section</p> | <p>Maximum 225 hours</p> | | |
| <p>Courses + Simulation Section of Bridging Program Total number of hours:</p> | <p>Maximum 405 hours</p> | | |
| <p>PLA Stage 2 – DIDACTIC ASSESSMENT</p> | | | |
| <p>Participants must pass this assessment and the Simulation Section to be allowed to continue to Stage 3 clinical placement</p> | <p>Two-part exam:</p> <p>Paper 1 Technical and Theory: 2 hr - 100 multiple choice questions (MCQs), mapped to the RT National Competency Profile (NCP).</p> <p>Paper 2 Case Study: 4 hr - 150 MCQs, mapped to the RT NCP.</p> | <p>Yes</p> | <p>% grade</p> |

| PLA Stage 3 – CLINICAL SECTION | | | |
|--|---|-------------------|---|
| <p>30* weeks of clinical placement (based on student need) – AORSCL100 - Clinical Rotation</p> <ul style="list-style-type: none"> • Students will be placed in Ontario clinical settings to obtain clinical learning and workplace experience. • Hours are specific to the clinical placement and include 8 and 12 hour shifts (days or nights) and up to 35 hrs per week. PLA Stage Three assessment occurs simultaneously within this section. • Students MUST successfully complete Stage Three to receive Graduate registration with the CRTO and to be eligible to write the Canadian Board for Respiratory Care (CBRC) national examination. | <p>This is a mandatory course as PLA candidates will NOT be able to achieve competency without some education.</p> <p>*Bridging students are sent out with the full time students and therefore their schedule is 30 weeks. However they do not have to complete the full 30 weeks if they can demonstrate competence in each area before that time. In the past ~24 wks was required, based on a 35-hour work week.</p> <p>30 weeks X 35 hours = maximum 1,050 hours.</p> | <p>Yes</p> | <p>Student must successfully demonstrate competencies.</p> |

APPENDIX 8

CIITE Respiratory Therapy Competency Assessment Pilot Process

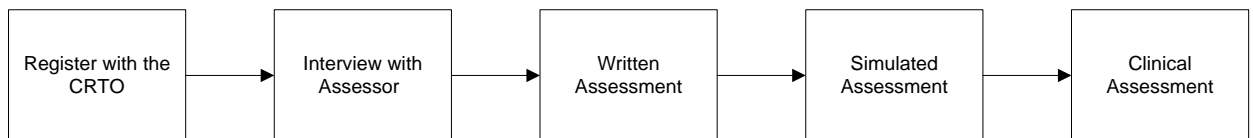


Respiratory Therapy Competency Assessment Pilot (Algonquin, La Cité, and Fanshawe)

Overview of the Competency Assessment for Potential Candidates

The Respiratory Therapy Competency Assessment pilot will assess candidates' skills and knowledge (acquired in the classroom or on the job) against the competencies needed to practice Respiratory Therapy in Ontario. The outcome of the competency assessment will either be referral to further training to fill gaps or recognition that the candidate has demonstrated the College of Respiratory Therapists of Ontario (CRTO) competency requirements. The colleges are still in discussion about the format this recognition will take. Regardless of the format of the recognition, if a candidate successfully completes the entire competency assessment they will be eligible to take the entrance exam at the CRTO.

The basic process is outlined below.



Before the interview with an Assessor at one of the pilot colleges (Algonquin, La Cité or Fanshawe) potential candidates must apply and obtain approval from the CRTO for prior learning assessment.

Website – www.crto.on.ca **Phone** – (416) 591-7800

Interview

The interview will take approximately 2 hours. Candidates should come prepared to the interview with the following:

- English/French language test results
- Credentials which have been evaluated by WES, ICAS or Comparative Education Services (University of Toronto)
- Transcripts and course outlines (if you have them)

Written Assessment

The written assessment will take place **January 31, 2009** at **La Cite, Fanshawe and Algonquin**. After the candidates complete the assessment they will meet with the Assessor again to discuss their results.

If the candidate is successful on the written test they will continue to the simulated assessment. If the candidate is unsuccessful they will be referred to training, which will most likely be entry to a college program. A candidate who is unsuccessful on the written assessment will not be granted course exemption as a result of the written assessment.

Simulated Assessment

The simulated assessments will take place after January 31th, 2009 and will likely occur on the weekends. The candidate will be asked to demonstrate their skills and knowledge in simulated scenarios. Candidates will be provided with the list of competencies to be tested and the appropriate flow chart from the Canadian Society of Respiratory Therapists (CSRT). Because a candidate must pass all the simulations in order to continue to the clinical assessment, if a candidate is unsuccessful on one of the simulations, they will meet again with their Assessor to determine their next steps –which could include referral to training. The candidate can then choose to continue with the simulated assessments in order to identify any other gaps that need to be filled. Continuing with the simulations will be time consuming but would be useful in the assessing the candidate’s training needs.

Clinical Assessment

If the candidate is successful on all the simulated assessments, they will move onto the clinical assessment. The candidate will be asked to demonstrate a set of competencies in a hospital setting. Candidates will be provided with a list of competencies to be tested and the appropriate flow chart from the Canadian Society of Respiratory Therapists (CSRT). If a candidate successfully demonstrates all the competencies in the clinical assessment they will receive recognition (format to be determined) and be forwarded as a candidate for the entry to practice examination at the CRTO. If the candidate is unsuccessful at any of the competencies at this stage they will be referred to training to fill gaps.

Criteria to Participate in the Pilot

- **Language Requirements**– Potential candidates need to provide evidence of English/French language proficiency.

English Language Tests and Scores:

- CanTEST: Reading: 4 Writing: 4 Listening: 4 Speaking: 4.5
- International English Language Testing System (IELTS): Overall band score: 7
- Michener English Language Assessment (MELA):
- Reading: 8 Writing: 8 Listening: 9 Speaking: 9
- Michigan English Language Assessment Battery (MELAB)
- Total score at least 85, plus an oral rating of at least 3
- Test of English as Foreign Language TOEFL – Internet based Total: 92 - Reading: 21 Writing: 21 Listening: 21 Speaking: 24
- TOEFL – Paper based 580 plus Test of Spoken English (TSE) 50
- TOEFL – Computer based 237 plus Test of Spoken English (TSE) 50

French Language Test and Scores:

- Test pour étudiants et stagiaires au Canada (TEStCan) - A minimum score of 5 in each category.
- **Previous Education and Experience** - Candidates should hold a degree and work experience in a career similar to Respiratory Therapy. Work experience should be recent (within the last 5 years). The fields which will be considered are:
 - Critical care/Intensive Care specialist
 - Anesthesiologist
 - Anesthesiologist Assistant
 - Foreign trained Respiratory Therapist

THE GAP ANALYSIS PROJECT

APPENDIX 9

Guidelines for the Supported Integration of Internationally Educated Health Professionals to Ontario Respiratory Therapy Programs



Guidelines for the Supported Integration of Internationally Educated Health Professionals to Ontario Respiratory Therapy Programs¹

The Respiratory Therapy Supported Integration Process (RT-SIP) is designed to provide internationally educated respiratory therapists (IERTs) and other internationally educated health professionals (IEHPs) with the opportunity to gain the knowledge, skills and judgment in the context of the Canadian health care system to:

- acquire the entry to practice competencies of the respiratory therapy profession;
- meet the education requirement for CRTO registration and eligibility to write the Canadian Board for Respiratory Care (CBRC) national exam; and
- successfully transition to the Ontario healthcare practice setting.

An RT Supported Integration Process (SIP) should assess and evaluate the unique needs of IERTs/IEHPs. Colleges providing integration opportunities agree to recognize the prior knowledge and experience of IERTs/IEHPs within the context of each their own institution's policies in order to support the efficient movement of such applicants through their programs with a minimum of curriculum duplication. In addition, the proposed RT-SIP, features five specific supports to help IERTs and IEHPs successfully complete their RT education in Ontario, register with the CRTO and become a part of the RT workforce in Ontario.

It is proposed that these processes be undertaken in close collaboration between post-secondary institutions and the CRTO, formalized by a Memorandum of Understanding (MOU).

Process

An RT integration process should support IERTs/IEHPs along the pathway from initial application and assessment to successful program completion. A variety of stakeholders, including the regulatory body, post-secondary institutions and clinical practice settings should collaborate to ensure the process is achievable, coordinated and transparent and that challenges are identified and resolved in a collaborative manner.

A program integration model should aim to address all steps of the educational process and provide supports to enhance IEHP success in completing respiratory therapy education in Ontario:

1. Pre-entry (assessment)

An initial assessment will be done by the CRTO to:

- Verify that the IERT/IEHP is a graduate of an accredited health sciences program;

¹ This document has been developed partly based on the draft *Guidelines for Medical Radiation Technology Bridging Programs* developed by the Canadian Association of Medical Radiation Technologists.

- Conduct a program² (and experience³) review;
- Verify recent, relevant professional work experience;
- Receive evidence regarding language proficiency;
- Determine eligibility for the Supported Integration option; and
- Provide appropriate applicants a letter of eligibility for supported integration into a full-time Ontario RT program, or provide direction to another option.

2. Facilitated entry to an Ontario RT Program (Support 1)

To promote access for applicants who have already successfully completed post-secondary education programs and have practised in their profession recently (within the past five years) IERTs/IEHPs may be allowed entry into the program through an alternative application process to the regular competitive program for Canadian-educated applicants. All eligible applicants will be those who would meet the “regular” minimum eligibility criteria for entry into the RT programs (minimum education attainment and language fluency etc.). This process will be determined in collaboration between CRTO and participating schools and formalized in the MOU.

3. RT Program Orientation (Support 2)

IERTs and IEHPs eligible for the RT Supported Integration Process will be required to participate in an RT orientation program, once it is developed and made available.

This orientation program is anticipated to be non-credit, coordinated by CRTO and delivered at a central site prior to integration candidates beginning their studies at any of the participating community colleges. This is one of the key supports to enable them to better understand the role, scope and standards of practice of respiratory therapists working within the Ontario health care system and to enhance their opportunity to successfully integrate into an Ontario RT program.

This orientation may include:

1. Introduction to the practice of respiratory therapy in Ontario (e.g. CRTO RT video, lectures, a hospital tour, hands-on experience in a simulation lab, a self-assessment).
2. Introduction to the Canadian health care system, including:
 - Culture and diversity;
 - Ethics and accountability;
 - Patient centered practice;
 - Inter-professional/collaborative care; and

² The CRTO will only undertake reviews of respiratory therapy programs.

³ This will require an enhancement to the current CRTO program review process.

- Professionalism and reflective practice.
3. Health care specific communications.
 4. Didactic assessment of RT competencies.

Completion of an assessment (the CIITE Didactic assessment tool may be adapted and mapped to the RT National Competency Profile for this purpose) may be the final step so that this assessment may be used to guide colleges' assessment of an applicant's prior learning.

4. Recognition of Prior Learning (Support 3)

Participating schools commit to systematically using their institution's policies regarding prior learning assessment, advanced standing and credit exemptions to recognize, to the maximum extent possible, the prior knowledge and experience of IERTs/IEHPs entering their RT programs.

Participating schools ensure that resources to support these processes are available and fully utilized. The goal is to consistently and fairly recognize the prior learning of applicants in order to support the efficient movement of such applicants through their programs with a minimum of curriculum duplication.

5. Program Integration (delivery)

Once registered, IERTs/IEHPs will be regular students of the post-secondary institution, subject to the same academic policies, and with all of the same rights, privileges, responsibilities, obligations and access to student supports and financial aid.

Participating schools also commit to sharing information regarding the courses of study IEHPs have been directed to complete, in order that CRTO may develop a body of knowledge regarding the exemptions/advanced standing provided to IEHPs and the required courses they must complete.

6. Mentorship (Support 4)

A support that may be quite useful for IERTs and IEHPs going through the SIP is to be matched with a mentor or to participate in group-mentoring. Ideally mentorship would help applicants have personal contact with a practising respiratory therapist and help them feel less isolated and more professionally included as they go through their respiratory therapy education program in Ontario. The development of this support will be explored by CRTO and its key stakeholder partners.

7. Group Support (Support 5)

An additional support that could be developed would be a group support mechanism to enable internationally educated applicants completing respiratory therapy education to connect and communicate. This could be provided through in-person meetings or on-line social networking, and would ideally be moderated or coordinated with the support of a practising respiratory therapist or RT educator. Such a support, particularly if developed as an on-line exchange, could be provincial or national in scope, so that internationally educated candidates from any region could communicate with a network with others going through the same educational

process. This support could help individuals completing respiratory therapy education feel less isolated and could lead to the development of useful exchange of information and mutual encouragement. The development of this support will be explored by CRTO and its key stakeholder partners.

8. Evaluation

The success of the RT supported integration process will be carefully evaluated to gauge appropriateness and success or to identify additional needed supports. This will be accomplished through:

1. Quarterly conference calls and/or meetings between CRTO and all participating schools to discuss and document successes and challenges;
2. Documentation of attrition rates as compared to Ontario program entrants and documentation of reasons for failure to complete;
3. Graduation rates;
4. CBRC pass rates; and
5. Employment rates.

Sustainability

- The sustainability of the SIP will be considered as part of on-going evaluation.

Program format

As with all Ontario RT Programs, the curriculum:

- must include a didactic component;
- must include a clinical placement/learning component; and
- may include simulation-based learning.

In addition, participating schools:

- may consider the additional supports (language or other) and social and economic circumstances of IERTs/IEHPs.