NBCRNA

National Board of Certification & Recertification for Nurse Anesthetists

Annual NCE and SEE Report

Calendar Year 2024

January 1, 2024 - December 31, 2024

Summary of NCE and SEE Performance and Clinical Experience

Table of Contents

Introduction

This report presents a summary of information on individual performance on the National Certification Examination (NCE) and the Self-Evaluation Examination (SEE) in the calendar year 2024 (CY2024), January 1, 2024, through December 31, 2024. It should be noted that starting in 2019, the NBCRNA has transitioned to align its fiscal year (FY) with the calendar year (CY).

Performance on the NCE is summarized first, with pass/fail outcomes presented according to several demographic variables: gender, age, clinical background, and type of graduate degree. Trend data summarizing pass rates over the past five years are also provided in the last column of each table for each demographic. Readers should note that there was no change to the NCE passing standard in 2024. The passing standard was last changed on January 1, 2014; the NBCRNA Board of Directors reviewed the results of the 2023 standard setting study and voted to retain the standard established in 2023.

NCE pass rate summaries are followed by an analysis of candidates' responses on a satisfaction survey administered at the end of the NCE. The survey requested information pertaining to candidates' satisfaction with their registration and test experience. Additionally, descriptive statistics (e.g., mean, standard deviation) are provided for the number of cases performed in various clinical areas by students of nurse anesthesia educational programs who graduated in 2024.

Finally, information about scaled scores for the SEE is presented in the last part of the report, summarizing performance by gender, age, clinical background, type of graduate degree, and year in program. Trend data summarizing the past five years in each demographic subgroup are also provided in the final column of each table.

Candidate Performance on the NCE

The information in **Table 1** addresses the performance of candidates on the NCE during the CY2024 reporting period. Pass rates appear separately for first-time candidates versus repeat candidates, based on the passing standard that took effect on January 1, 2014. The pass rate for the 2,740 first-time candidates is 89.3%. The pass rate is lower for repeat examinees, consistent with the previous year's data.

The CY2024 first-time pass rate (89.3%) is higher than the CY2023 pass rate (84.9%). The cumulative first-time pass rate averaged over the previous five years is 84.7% as shown in the final column of **Table 1.** First-time examinee pass rates for the NCE, by year since 2008, can be found in **Table A1** in Appendix A of this report.

The total numbers of NCE candidates testing decreased in 2024 (3,279 CY2024 vs. 3,613 in CY2023), of which were in 2024 2,740 were first-time candidates, whereas in CY 2023 2,883 were first-time takers.

Table 1. Pass/Fail Summary for NCE Candidates, 2024

First-Time Candidates		Frequency	Percent	5-year Trend %
	Pass	2,446	89.3%	84.7%
	Fail	294	10.7%	15.3%
	Total	**2,740**	**100.0%**	**100.0%**
Repeat Candidates		**Frequency**	**Percent**	**5-year Trend %**
	Pass	325	60.3%	59.7%
	Fail	214	39.7%	40.3%
	Total	**539**	**100.0%**	**100.0%**

The NCE total scores and domain-level information for first-time candidates can be found in **Table A2** of Appendix A.

Table 2 shows the distribution of test length and pass/fail status. Only *first-time* candidates are included in Table 2. Of the candidates who passed, the majority (69.5%) were administered 70 items (not including the 30 unscored pretest items). Only 2.9% of NCE candidates failed the test in 70 items. Approximately 12.4% of the candidates took the maximum test length of 140 items.

The number of candidates getting a score determination in 70 items increased in CY2024 over CY2023. In 2024, 72.4% of candidates fell into this category compared to 58.7% in CY2023. The five-year trend is 64.1%.

Table 2. Pass/Fail Summary by Test Length for First-Time NCE Candidates, 2024

	Frequency	Percent	5-year Trend %
Pass in 70 items	1,906	69.5%	60.0%
Pass in 71 to 139 items	322	11.8%	14.4%
Pass in 140 items	218	8.0%	11.0%
Fail in 70 items	80	2.9%	4.1%
Fail in 71 to 139 items	93	3.4%	3.7%
Fail in 140 items	121	4.4%	6.8%
Total	**2,740**	**100.0%**	**100.0%**

Demographic Characteristics of NCE Candidate Population, 2024

The next several tables present pass rates on the NCE grouped by gender, age, clinical background, and degree earned. Only *first-time* candidates are included in these tables. **Table 3** indicates that 65.1% of the NCE candidates were female and 34.8% were male. The pass rates for females in 2024 were higher than in 2023 (88.4% vs. 82.0%), and males continued to show a slightly higher pass rate than females: 2024 (91.0% vs. 88.4% for male and female, respectively); 2023 (85.1% vs. 82.0%); 2022 (85.4% vs. 82.0%); 2021 (85.7% vs. 83.0%); 2020 (86.3% vs. 84.6%), consistent with the five-year trend (final column of Table 3).

Table 3. Gender of NCE Candidates, 2024

	Pass		Fail		Total		5-year Trend
Gender	N	Percent	N	Percent	N	Percent	Pass %
Female	1,577	88.4%	207	11.6%	1,784	65.1%	84.5%
Male	867	91.0%	86	9.0%	953	34.8%	86.8%
Other	2	66.7%	1	33.3%	3	0.1%	84.2%
Total	**2,446**	**89.3%**	**294**	**10.7%**	**2,740**	**100.00%**	**85.4%**

Table 4 presents the pass rate by age group. The pass rate decreased as examinee age increased, both for the 2024 sample and the five-year trend analysis. Younger students tend to perform better on the NCE. The average age of the 2024 *first-time* NCE candidates was 31.7 years.

Table 4. Age of NCE Candidates, 2024

	Pass		Fail		Total		5-year Trend
Age	N	Percent	N	Percent	N	Percent	Pass %
Under 30	987	92.6%	79	7.4%	1,066	100%	91.5%
30 - 35	1,071	89.2%	130	10.8%	1,201	100%	86.9%
36 - 39	246	85.7%	41	14.3%	287	100%	82.0%
40 or more	142	76.3%	44	23.7%	186	100%	73.5%
Total	**2,446**	**89.3%**	**294**	**10.7%**	**2,740**	**100%**	**85.4%**

Table 5 displays pass rates for candidates' clinical background. Approximately 14.2% of the candidates reported their clinical background as ICU/CCU, decreasing from 16.5% in 2023. Pass rate comparisons between different clinical settings should be made with caution, however, because some subgroups for the 2024 data feature small sample sizes. Also, the clinical background categories tend not to be mutually exclusive. While examinees report their clinical background as discrete categories, actual experience may be more diverse and complex (e.g., SICU in some facilities may include CVICU patients, and many other permutations can exist). Finally, this data is self-reported and could be subject to inaccuracies.

When comparing pass rates across clinical background subgroups, readers are advised to refer to the 5-year trend column of Table 5. The pass rates in this column are more reliable for comparisons because they are based on a much larger sample. For instance, over the past five years, first-time NCE examinees with CCU, Neuro ICU, PICU, OR, and NICU clinical backgrounds, respectively, have demonstrated the highest rates of success on the NCE.

Table 5. Clinical Background of NCE Candidates, 2024

| Clinical Background | Pass | | Fail | | Total | | 5-year Trend |
	N	Percent	N	Percent	N	Percent	Pass %
CCU	204	92.7%	16	7.3%	220	8.0%	86.9%
ER	176	88.4%	23	11.6%	199	7.3%	83.1%
ICU/CCU	337	86.4%	53	13.6%	390	14.2%	83.9%
MICU	246	86.6%	38	13.4%	284	10.4%	84.2%
NEURO ICU	178	90.4%	19	9.6%	197	7.2%	86.0%
NICU	199	89.2%	24	10.8%	223	8.1%	87.4%
OR	186	90.3%	20	9.7%	206	7.5%	86.6%
PACU	103	89.6%	12	10.4%	115	4.2%	84.5%
PICU	186	90.7%	19	9.3%	205	7.5%	88.2%
SICU	184	88.5%	24	11.5%	208	7.6%	87.5%
TRAUMA ICU	244	88.1%	33	11.9%	277	10.1%	85.3%
Other	203	94.0%	13	6.0%	216	7.9%	87.0%
Total	**2,446**	**89.3%**	**294**	**10.7%**	**2,740**	**100%**	**85.4%**

Table 6 displays distribution of pass rates by degree attained. Of 2,740 first-time NCE takers in 2024, 0.9% (n=24) were from programs that awarded a Master of Science in Nursing degree; 2.1% (n=58) graduated from programs awarding a Master of Science in Nurse Anesthesia degree; 0.6% (n=17) were from other master's programs; and 96.4% (n=2,641) were from programs that awarded a doctoral degree. This is a 14.8 percentage-point increase from the 81.6% that doctoral candidates comprised in 2023.

When comparing pass rates across clinical background subgroups, pass rate differences across degrees should be viewed with caution because some demographic subgroups feature small sample sizes (Table 6). Readers are advised to refer to the 5-year Trend column of Table 6. For instance, over the past five years, first-time NCE examinees coming out of doctoral programs appear to exhibit the highest rates of success on the NCE.

Table 6. Types of Graduate Degrees Reported by NCE Candidates, CY 2024

Degree Upon Completion	Pass		Fail		Total		5-year Trend
	N	Percent	N	Percent	N	Percent	Pass %
MS Nursing	17	70.8%	7	29.2%	24	0.9%	86.1%
MS Nurse Anesthesia	35	60.3%	23	39.7%	58	2.1%	76.3%
Other Masters	13	76.5%	4	23.5%	17	0.6%	81.2%
Doctoral Degree	2,381	90.2%	260	9.8%	2,641	96.4%	86.9%
Total	**2,446**	**89.3%**	**294**	**10.7%**	**2,740**	**100.0%**	**85.4%**

Descriptive Information on Number of Clinical Experiences, 2024

The tables in this section report data collected about the number of anesthesia cases performed in clinical areas, as submitted by program directors to the NBCRNA for individuals completing nurse anesthesia programs in the reporting period. *This data reflects records of clinical experiences submitted for individuals with a graduation date in 2024, and not the sample of NCE candidates during this time frame.* As a result, sample sizes presented in this section (2,180) will not equal the number of first-time NCE candidates (2,740) as reported in Tables 1 through 6.

The columns are the same in Tables 7 through 15, presenting the following information:
- The first column contains the clinical area in which cases were performed.
- The *N* column represents the number of master's or doctoral records submitted in the reporting period.
- The *Number of Cases Required* column indicates the minimum number of cases that must be completed by an applicant for the applicant to be deemed eligible to take the NCE. If a minimum number of cases is not required, a "0" is entered in this column.
- The *Mean* column indicates the average number of cases reported on the 2024 records.
- The *Standard Deviation* column describes the dispersion in the number of cases reported on the 2024 records.
- The *Median* column indicates the median number of cases (50th percentile) reported on the records in the reporting period. Half the records contained values higher than this number and half contained a value below this number.
- The *Minimum* column indicates the smallest number of cases reported on the 2024 records.

Table 7. Sections I, II and III: Clinical Experience

Area	N	Number of Cases Required	Mean	Standard Deviation	Median	Minimum
Total Number of Cases	2,180	600	911.0	149.1	888.5	600
Total Hours of Anesthesia	2,180	0	1,801.6	382.4	1,739.0	322
Total Clinical Hours	2,180	0	2,725.4	353.4	2,693.5	1328

Table 8. Section IV: Patient Physical Status

Area	N	Number of Cases Required	Mean	Standard Deviation	Median	Minimum
Class I	2,180	0	75.0	35.8	69.0	5
Class II	2,180	0	349.6	91.5	339.5	96
Class III-VI Total	2,180	200	486.3	110.1	477.0	210
Class III	2,180	50	401.1	93.7	392.0	151
Class IV	2,180	10	81.6	34.8	76.0	19
Class V	2,180	0	3.2	3.5	2.0	0
Class VI	2,180	0	0.5	0.9	0	0

Table 9. Section V: Special Cases

Area	N	Number of Cases Required	Mean	Standard Deviation	Median	Minimum
Geriatric, 65+ years	2,180	100	305.5	81.8	297.0	103
Pediatric, 2-12 years	2,180	30	70.2	30.5	64.0	30
Pediatric, under 2 years	2,180	10	21.2	10.9	18.0	10
Neonatal, under 4 weeks	2,180	0	1.0	1.7	0	0
Trauma/Emergency	2,180	30	53.0	20.7	48.0	30
Obstetrical Management	2,180	30	66.3	31.6	58.0	30
Cesarean delivery	2,180	10	31.9	15.5	28.0	10
Analgesia for labor	2,180	10	34.1	21.3	28.0	10
Pain Management Encounters	2,180	15	53.6	45.3	41.0	15

Table 10. Section VI: Anatomical Categories

Area	N	Number of Cases Required	Mean	Standard Deviation	Median	Minimum
Intra-abdominal	2,180	75	191.3	63.9	179.5	80
Intracranial Total	2,180	5	14.9	7.7	13.0	5
Intracranial Open	2,180	3	10.5	5.7	9.0	3
Intracranial Closed	2,180	0	4.4	4.5	3.0	0
Oropharyngeal	2,180	20	101.6	51.4	94.0	20
Intrathoracic Total	2,180	15	48.3	22.0	44.0	15
Heart	2,180	5	32.0	17.7	29.0	5
Open Heart Total	2,180	5	14.3	8.1	13.0	5
Open Heart with CPB	2,180	0	12.7	7.4	11.0	1
Open Heart without CPB	2,180	0	1.6	2.7	1.0	0
Closed Heart	2,180	0	17.7	14.7	15.0	0
Lung	2,180	5	10.9	6.0	9.0	5
Other	2,180	0	6.1	12.7	4.0	0
Neck	2,180	5	22.6	10.2	21.0	5
Neuroskeletal	2,180	20	46.2	24.4	41.0	20
Vascular	2,180	10	40.0	19.3	37.0	10

Table 11. Section VII: Methods of Anesthesia

Area	N	Number of Cases Required	Mean	Standard Deviation	Median	Minimum
General Anesthesia	2,180	400	657.8	120.2	640	400
Inhalation Induction	2,180	25	81.3	42.9	73	25
Mask Management	2,180	25	64.1	71.1	43	25
Supraglottic Airway Devices (total of a & b)	2,180	35	123.7	50.7	116	35
a. Laryngeal mask	2,180	0	118.9	50.2	112.5	4
b. Other	2,180	0	4.9	18.0	0	0
Tracheal Intubation (total of a & b)	2,180	250	424.7	82.2	417	251
a. Oral	2,180	0	407.1	79.6	400	237
b. Nasal	2,180	0	16.1	13.9	13	0
Alternative Tracheal Intub/Endo (total of a & b)	2,180	25	99.9	65.4	84	25
a. Endoscopic techniques, total	2,180	5	19	36.0	9	5
1. Actual Placement	2,180	0	16.4	36.3	7	0
2. Simulated Placement	2,180	0	2.6	3.8	1	0
3. Airway Assessment	2,180	0	10.4	33.6	6	0
b. Other techniques	2,180	5	80.8	60.5	68	5
Emergence from Anesthesia	2,180	300	615.5	140.3	594	300
Regional Techniques	2,180					
Actual Administration (total of a, b, c & d)	2,180	35	148.8	78.0	131	35
a. Spinal (total of 1 & 2)	2,180	10	50.0	27.9	44	10
1. Spinal Anesthesia	2,180	0	45.5	25.8	40	1
2. Spinal Pain Management	2,180	0	4.5	9.1	1	0
b. Epidural (total of 1 & 2)	2,180	10	33.1	20.9	27	10
1. Epidural Anesthesia	2,180	0	8.1	11.5	4	0
2. Epidural Pain Management	2,180	0	25.0	18.6	20	0
c. Peripheral (total of 1, 2, 3 & 4)	2,180	10	56.7	48.1	43	10
1. Anesthesia Upper	2,180	0	10.1	12.3	6	0
2. Anesthesia Lower	2,180	0	11.5	16.6	6	0
3. Pain Management Upper	2,180	0	12.1	15.8	7	0
4. Pain Management Lower	2,180	0	22.7	27.1	14	0
d. Other	2,180					
1. Anesthesia	2,180	0	21.6	26.2	14	0
2. Pain Management	2,180	0	34.8	38.9	22	0
Management (total of 1 & 2)	2,180	35	94.8	60.3	77	35
1. Anesthesia	2,180	0	48.2	41.7	38	0
2. Pain Management	2,180	0	46.6	38.4	36	0
Moderate/deep sedation	2,180	25	152.0	99.7	130	25

Table 12. Section VIII: Arterial Technique

Area	N	Number of Cases Required	Mean	Standard Deviation	Median	Minimum
Arterial Puncture/Catheter Insertion	2,180	25	58.1	26.1	53.0	25
Intraarterial Blood Pressure Monitoring	2,180	30	82.2	27.8	78.5	30

Table 13. Section IX: Central Venous Pressure Catheter

Area	N	Number of Cases Required	Mean	Standard Deviation	Median	Minimum
Placement—Non-PICC (total of a & b)	2,180	10	15.0	7.2	13	10
a. Non-PICC, Actual	2,180	0	10.5	8.6	10	0
b. Non-PICC, Simulated	2,180	0	4.5	4.3	3	0
Placement—PICC (total of a & b)	2,180	0	0.5	1.6	0	0
a. PICC, Actual	2,180	0	0.3	1.2	0	0
b. PICC, Simulated	2,180	0	0.1	0.9	0	0
Monitoring	2,180	15	21.7	8.4	19	15

Table 14. Section X: Pulmonary Artery Catheter

Area	N	Number of Cases Required	Mean	Standard Deviation	Median	Minimum
Placement	2,180	0	4.9	5.8	3	0
Monitoring	2,180	0	9.9	7.3	9	0

Table 15. Section XI: Other

Area	N	Number of Cases Required	Mean	Standard Deviation	Median	Minimum
Ultrasound (US)-Guided Techniques (total of a & b)	2,180	0	79.1	67.9	63	0
a. Regional	2,180	0	51.2	56.1	34	0
b. Vascular	2,180	0	27.9	25.4	21	0
Intravenous Catheter Placement	2,180	100	171.2	85.0	146	100
Advanced Noninvasive Hemodynamic Monitoring	2,180	0	21.7	103.1	2	0

NCE Exit Survey Results

Candidates provide important ongoing sources of evaluative information about the examination process. This information serves as essential input for the continuous quality improvement initiatives of the NBCRNA. Candidates are asked to complete a post-examination survey regarding their testing experience. The post-examination survey addressed the following four areas:

- Pre-examination activities such as scheduling, registration, locating the testing center, and interaction with test center staff;
- Examination and testing experience such as content fairness, content readability, test-center experience, and use of testing software;
- Examinee perception of the alternative question formats; and
- Personal preparation prior to examination.

Most of the questions employ a Likert-type rating scale, where respondents are asked to indicate their level of agreement with the survey statements. For the purposes of this report, the Likert response categories, *Strongly Agree* and *Agree,* are combined into a single *Agree* category, and *Strongly Disagree* and *Disagree* are combined into *Disagree*. Completion of the survey is not required as part of the examination process and is not part of the three-hour time limit for the NCE.

Responses were analyzed based NCE candidates who were administered the exit survey during the period of CY2024. The responses represent tests administered. If a candidate tested more than once during 2024, their responses would be counted each time they completed the survey.

Candidates continue to indicate satisfaction with scheduling dates and locations. Dates were rated acceptable by 86.6% of candidates while location was acceptable by 90.5% of candidates. Regardless of how they responded, candidates can contact the NBCRNA office after each test administration to address any problems or concerns.

Table 16. Responses to Survey Questions: Scheduling and Registration

Survey Question	Agree		Disagree	
	Count	Percent	Count	Percent
I was able to schedule an acceptable test date.	2,844	86.6%	437	13.3%
I was able to schedule an acceptable test center location.	2,971	90.5%	309	9.4%
The exam reservation process was easy to use.	3,186	97.1%	94	2.9%
The test center was easy to locate.	3,244	98.8%	36	1.1%
The testing center registration/check-in process was handled in a professional and efficient manner.	3,243	98.8%	37	1.1%

Six items relate to topics such as content alignment with curricula, content readability, and test-center operations. **Table 17** summarizes the responses to these survey items. Overall, the CY2024 NCE candidates were satisfied with their testing experience (98.0% agreement). Agreement concerning the content alignment with curricula decreased from 93.7% in CY2023 to 91.8% in CY2024. Content readability slightly increased from 94.3% in CY2023 to 95.3% in CY2024.

Table 17. Responses to Survey Questions: Examination and Testing Experience

Survey Question	Agree		Disagree	
	Count	Percent	Count	Percent
The questions on my test today reflected the knowledge and subject matter I have been taught in my educational program.	3,012	91.8%	268	8.2%
The graphs, figures, and diagrams in the questions were legible.	3,127	95.3%	153	4.7%
The graphs, figures, and diagrams in the questions fit onto the screen.	3,174	96.7%	106	3.2%
My testing environment was clean, quiet, and comfortable.	3,238	98.6%	42	1.3%
I encountered no technical problems with the test administration software.	3,223	98.2%	57	1.7%
Overall, I was satisfied with my testing experience.	3,217	98.0%	63	1.9%

In addition to traditional multiple-choice items, the NCE includes the following alternative-item formats.

- Multiple correct response (MCR): the key is a *set* of options. Examinees are instructed how many options to select.
- Short answer/calculation (SA): there are no options to select—the key is a short numerical response.
- Drag and drop (DND): options are ordered or matched using the mouse.
- Hotspot (HS): the key is a region on an image that must be selected with the mouse. Boundaries indicating keyable areas are hidden from examinees.

Table 18 summarizes candidate ability to understand and respond to alternative items. Overall, candidates continue to respond positively with 99.1% agreeing that they understand how to use alternative items compared to 99.0% in CY2023.

Table 18. Responses to Survey Questions: Alternative Item Formats

Survey Question	Agree		Disagree	
	Count	Percent	Count	Percent
I understood how to respond to the questions in the alternative formats.	3,254	99.1%	26	0.2%

Responses to items regarding NCE preparation are summarized in **Table 19**. Of the NCE examinees tested in CY2024, 84.6% agreed that the SEE helped them in their certification examination preparation. This is an increase from 84.1% in CY2023 but continues the steady increase in the past several years (from under 60% in FY2017).

Table 19. Responses to Survey Questions: Preparation for the NCE

Survey Question	Response	Count	Percent
Taking the SEE helped prepare me to take the certification examination.	Agree	2,777	84.6%
	Disagree	475	14.5%

Demographic Characteristics of the SEE Examinee Population, 2024

The following section summarizes examinee performance on the SEE according to demographics and program year. Variables include gender, age, clinical background, and degree. Scores are from CY2024 with a column on the right of each table displaying five-year trend averages (Year 2020 through 2024; January 1, 2020–December 31, 2024, *N* = 29,775). Year 1 and 2 cohorts were combined due to the small size of the Year 1 group (n = 3; 0.04% of 2024 SEE examinees). Program year was calculated based on each examinee's testing date relative to their stated program start date. **Table A3** (Appendix A) provides SEE domain-level scores by program year.

Table 20 summarizes SEE scores by gender and program year. SEE examinees self-reported as 64.6% female, 35.3% male, and 0.2% other. The mean total scores increased from 415.0 (n = 1,820) for the combined Year 1 & 2 group to 431.4 (n = 5,165) for Year 3 and above, with an overall mean of 426.2 (n = 6,985). The five-year trend (last column) follows a similar pattern, showing mean scores of 411.7 for Year 1 & 2, 431.4 for Year 3 and above, and 426.2 overall.

Table 20. SEE Candidate Performance by Gender and Program Year, 2024

Program Year	Gender	Count	Mean	Standard Deviation	5-year Trend Mean
Year 1 & 2	Female	1,174	408.7	42.2	406.2
	Male	644	417.3	45.3	417.5
	Other	2	398.5	12.0	406.2
	Total	**1,820**	**411.7**	**43.5**	**415.0**
Year 3 and above	Female	3,396	428.8	39.9	427.6
	Male	1,759	436.3	40.8	435.0
	Other	10	423.4	48.1	436.5
	Total	**5,165**	**431.4**	**40.4**	**430.3**
Total	Female	4,569	423.6	41.4	421.0
	Male	2,403	431.2	42.9	429.3
	Other	13	423.2	45.2	425.3
	Total	**6,985**	**426.2**	**42.1**	**424.1**

Table 21 summarizes SEE scores by age group and program year. The mean age of year 1 and 2 SEE examinees was 31.3 years. The mean age of year-3 and above SEE examinees was 32.6 years. The mean age of all SEE examinees during the period was 32.3 years, compared to first-time NCE examinees (33.5 years) over the same period. The largest age groups were composed of examinees between the ages of 30 - 35 (46.8%) and examinees under the age of 30 (32.5%) In 2024, younger examinees scored higher than older examinees overall and within the same training year. Similar results were found in the five-year trending sample.

Table 21. SEE Candidate Performance by Age and Program Year, 2024

Program Year	Age	Count	Mean	Standard Deviation	5-year Trend Mean
Year 1 & 2	Under 30	772	414.3	43.9	413.2
	30 - 35	749	411.9	42.4	412.2
	36 - 39	180	404.3	44.8	408.5
	40 or above	119	405.1	44.0	402.0
	Total	**1,820**	**411.7**	**43.5**	**415.0**
Year 3 and above	Under 30	1,498	436.7	40.7	429.0
	30 - 35	2,519	431.9	39.7	426.7
	36 - 39	654	424.6	40.8	423.2
	40 or above	494	421.2	39.2	418.2
	Total	**5,165**	**431.4**	**40.4**	**430.3**
Total	Under 30	2,270	429.1	43.2	427.1
	30 - 35	3,268	427.4	41.2	425.6
	36 - 39	834	420.2	42.5	422.1
	40 or above	613	418.0	40.7	417.3
	Total	**6,985**	**426.2**	**42.1**	**424.1**

Table 22 displays summaries of SEE scores by clinical background and program year. Overall, the most identified clinical settings were ICU/CCU (10.7%) and MICU (9.5%).

When comparing SEE performance across clinical background subgroups, be aware of the small counts which can make comparisons spurious. The five-year trend columns and overall means tend to be more reliable because they are based on much larger sample sizes.

Table 22. SEE Candidate Performance by Clinical Background and Program Year, 2024

Program Year	Clinical Background	Count	Mean	Std Dev	5-Yr Mean
Year 1 & 2	CCU	156	412.7	44.8	410.8
	ER	144	407.8	43.4	410.8
	ICU/CCU	159	412.0	42.8	409.9
	MICU	148	413.5	43.5	411.4
	NEURO ICU	154	417.1	44.5	412.4
	NICU	160	415.0	39.4	408.0
	OR	165	409.0	43.0	408.3
	PACU	130	408.7	40.1	408.8
	PICU	170	413.0	45.8	411.8
	SICU	125	414.3	45.4	411.2
	TRAUMA ICU	149	409.0	46.0	412.1
	Other	160	408.5	43.1	408.2
	NA (Not available)	0	-	-	-
	Total	**1,820**	**411.7**	**43.5**	**415.0**
Year 3 & Above	CCU	447	431.0	39.8	431.5
	ER	429	430.8	39.7	428.6
	ICU/CCU	586	431.9	40.8	430.4
	MICU	517	431.6	38.6	429.4
	NEURO ICU	453	432.5	40.7	429.4
	NICU	398	429.6	42.1	429.2
	OR	398	431.7	41.4	427.4
	PACU	366	429.2	40.7	429.3
	PICU	398	431.3	39.9	429.6
	SICU	468	431.8	40.4	431.6
	TRAUMA ICU	402	432.5	40.5	434.2
	Other	298	432.1	40.8	429.7
	NA	5	-	-	-
	Total	**5,165**	**431.4**	**40.4**	**430.3**
Total	CCU	603	426.3	41.9	425.3
	ER	573	425.0	41.8	422.4
	ICU/CCU	745	427.6	42.0	424.7
	MICU	665	427.5	40.4	424.4
	NEURO ICU	607	428.6	42.2	424.2
	NICU	558	425.4	41.8	421.5
	OR	563	425.0	43.0	420.3
	PACU	496	423.9	41.5	421.8
	PICU	568	425.8	42.6	423.2
	SICU	593	428.1	42.1	425.5
	TRAUMA ICU	551	426.1	43.3	426.9
	Other	458	423.8	43.0	420.8
	NA	0	-	-	-
	Total	**6,985**	**426.2**	**42.1**	**424.1**

Appendix A - Additional NCE and SEE Performance Data

Table A1. NCE Pass Rate Trends—First-Time Candidates 2008 through December 31, 2024

Reporting Period	Percent Passing
2008* (Graduates 2007 – 2008)	89.9
2009 (Graduates after 2008)	87.7
2010	88.9
2011	89.1
FY2012	88.5
FY2013	88.4
FY2014**	87.8
FY2015	85.0
FY2016	84.5
FY2017	82.6
FY2018	84.3
CY2019	84.4
CY2020	85.2
CY2021	84.1
CY 2022	84.0
CY 2023	84.9
CY 2024	89.3

*Passing standard increased in August 2008
**Passing standard increased in January 2014

Table A2. Descriptive Statistics for NCE Total and Domain-Level Scores—First-Time Candidates 2024 (January 1, 2024 – December 31, 2024)

	Mean	Standard Deviation
Total Score	496.0	46.4
Basic Science	492.6	64.2
Equipment, Instrumentation and Technology	508.1	65.6
General Principles of Anesthesia	497.3	53.0
Anesthesia for Surgical Procedures and Special Populations	495.4	56.5

Table A3. Descriptive Statistics for SEE Scores and Domain-Level Information, 2024 (January 1, 2024 – December 31, 2024)

	1st & 2nd Year in Program		3rd Year and Above in Program		All	
	Avg	SD	Avg	SD	Avg	SD
Total Score	411.7	43.5	431.4	40.4	426.2	42.1
Basic Science	413.6	51.8	428.1	48.0	424.3	49.4
Equipment, Instrumentation and Technology	411.6	47.7	434.6	45.8	428.6	47.4
General Principles of Anesthesia	414.1	48.4	432.8	45.3	427.9	46.8
Anesthesia for Surgical Procedures and Special Populations	410.9	47.9	432.8	45.4	427.1	47.1