National Nursing Education Annual Report: 2020 – 2021 Aggregate Data

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Introduction

In the fall of 2020, NCSBN launched the Annual Report Program (ARP) for nursing regulatory bodies (NRBs) in the U.S. In this program, NCSBN collects the nursing education annual report data that most NRBs require. The goals of this new program are twofold. First, NCSBN is assisting the NRBs with this time-consuming data collection. Secondly, NCSBN is then creating the first-ever nursing education database for the nursing community. The ARP team has developed evidence-based core questions that are asked among all the participating NRBs, thereby collecting consistent data that can be compared nationally.

Besides demographic data, all the questions are based on the quality indicators and warning signs reported in NCSBN Regulatory Guidelines (Spector et al., 2020). Each NRB also has the opportunity to submit their own additional questions (AQs). NCSBN then cleans, verifies and analyzes the data for each NRB. The NRBs receive a final report of their state's data, with asterisks by those programs that don't fully meet certain key evidence-based quality indicators. Armed with the annual report data, the NRBs and programs can work together to identify needed improvements *before* NCLEX pass rates and other outcomes fall below standards. NCLEX pass rates are lagging indicators, meaning that they don't begin to fall until other key quality indicators have not been met.

Annually, NCSBN will disseminate a report of the aggregate data, which the NRBs can compare to their programs' data. Additionally, each participating program receives a report of their data before they submit their survey, so they can compare their findings to the other programs in the ARP. This is a win-win situation for NRBs and nursing programs. This is the first report of aggregate data from the 2020-2021 year.

Background

The core questions in the annual report surveys are all based on the robust research study NCSBN conducted from 2018-2020 (Spector et al., 2020). In 2017 NCSBN's Board of Directors charged a committee, which included NCSBN's membership and representatives from the American Association of Colleges of Nursing (AACN) and the National League for Nursing (NLN), with providing the NRBs with evidence-based and legally defensible quality indicators of nursing education programs that they could use when approving their nursing education programs.

After completing an integrative literature review, using a recognized method of rating the evidence, the committee concluded that there currently is not robust evidence on nursing education quality indicators and warning signs. Therefore, NCSBN's research team embarked on a two-year journey to provide NRBs with nursing program quality indicators. This comprehensive, mixed-methods study was published in 2020, and it consisted of four national studies (see Figure 1.): an integrative literature review; a national Delphi study with educators, regulators and those who practice with new graduates; a five-year quantitative study of NRB annual report data; and a five-year qualitative study of NRB site visit documents. A link to the annual report core questions can be found here (website is being updated; will be linked in October, via a new Annual Report webpage.)

Evidence-Based
Approval

5-Year
Annual
Reports

Figure 1. Summary of Research Supporting Evidence-Based Approval

Data from 2020-21 Participating NRBs

There were 20 NRBs participating in 2020-21. It should be noted that many NRBs and their nursing programs were overwhelmed because of the pandemic, and some wanted to delay their participation. In Mississippi the LPN/VN programs are approved by the NRB, while the RN programs are approved by the Mississippi Institutions of Higher Learning. Since NCSBN sent out two separate surveys in that state and provided separate reports, they were counted as two NRBs. Data were collected on diploma, LPN/VN, associate degree, baccalaureate degree, accelerated BSN and masters entry programs. Of the 20 NRBs participating, there were:

- 843 nursing programs;
- 112,147 students enrolled in their programs;
- 8,263 full-time faculty;
- 3,104 part-time faculty;
- and 7,768 clinical adjunct faculty.

The results of the 16 COVID-19 questions will be reported elsewhere.

Please see Table 1. for the program demographics. The majority of diploma, bachelors, accelerated BSN (ABSN) and master's entry programs are urban, while the majority of LPN/VN and associates programs are rural. Many programs are publicly owned, though 51% of bachelors programs are private not-for-profit. It is also noteworthy that 10% of the associates programs are private for-profit programs. While the majority of programs provide in-person learning, ABSN programs report that 60.9% are hybrid, though the number of ABSN programs is low. A vast majority of programs offer simulation. Most of the nursing programs in this database do not provide ESL support services for their students. With an increasing focus on diversity in nursing, perhaps programs should consider adding an ESL program for their students. A majority of the nursing program directors do not also have administrative authority over allied health programs. With the exception of LPN/VN and ABSN programs, most programs have an assistant/associate director, and a vast majority have dedicated administrative support. Most of the programs provide orientation and mentoring of new faculty, as well as orientation of part-time and adjunct clinical faculty.

Table 1. Program Demographics

| | LPN/VN | Diploma | Associates | Bachelors | Accelerated BSN | Master's Entry |
|--|--------------|------------|--------------|--------------|--------------------|----------------|
| N | 275 | 7 | 326 | 208 | 23 | 4 |
| Geographic Location | n (%) | n (%) | n (%) | n (%) | n (%) | n (%) |
| Urban | 84 (30.5%) | 3 (42.9%) | 98 (30.1%) | 84 (40.4%) | 16 (69.6%) | 2 (50.0%) |
| Suburban | 53 (19.3%) | 2 (28.6%) | 69 (21.2%) | 52 (25.0%) | 5 (21.7%) | 2 (50.0%) |
| Rural | 135 (49.1%) | 2 (28.6%) | 150 (46.0%) | 68 (32.7%) | 1 (4.3%) | 0 (0.0%) |
| Other | 3 (1.1%) | 0 (0.0%) | 9 (2.8%) | 4 (1.9%) | 1 (4.3%) | 0 (0.0%) |
| | | | | | | |
| Institutional Ownership | n (%) | n (%) | n (%) | n (%) | n (%) | n (%) |
| Public | 243 (88.4%) | 2 (28.6%) | 269 (82.5%) | 85 (40.9%) | 9 (39.1%) | 2 (50.0%) |
| Private Not for Profit | 10 (3.6%) | 2 (28.6%) | 24 (7.4%) | 106 (51.0%) | 7 (30.4%) | 2 (50.0%) |
| Private for Profit | 22 (8.0%) | 3 (42.9%) | 33 (10.1%) | 17 (8.2%) | 7 (30.4%) | 0 (0.0%) |
| Learning Modalities | n (%) | n (%) | n (%) | n (%) | n (%) | n (%) |
| In-Person | 189 (68.7%) | 5 (71.4%) | 178 (54.6%) | 106 (51.0%) | 9 (39.1%) | 3 (75.0%) |
| Only | (/-// | - (/ 0) | (2 110,0) | (2 2.0 / 0 / | (22.270) | - () |
| Online Only | 0 (0.0%) | 0 (0.0%) | 2 (0.6%) | 2 (1.0%) | 0 (0.0%) | 0 (0.0%) |
| Hybrid | 86 (31.3%) | 2 (28.6%) | 146 (44.8%) | 100 (48.1%) | 14 (60.9%) | 1 (25.0%) |
| | | | • | T | T | 1 |
| ESL Services | n (%) | n (%) | n (%) | n (%) | n (%) | n (%) |
| Yes | 126 (45.8%) | 2 (28.6%) | 157 (48.2%) | 89 (42.8%) | 7 (30.4%) | 1 (25.0%) |
| No | 149 (54.2%) | 5 (71.4%) | 169 (51.8%) | 119 (57.2%) | 16 (69.6%) | 3 (75.0%) |
| Simulated Clinical | | | | | | |
| Experience Offered | n (%) | n (%) | n (%) | n (%) | n (%) | n (%) |
| Yes | 244 (88.7%) | 7 (100.0%) | 311 (95.4%) | 203 (97.6%) | 23 (100.0%) | 4 (100.0%) |
| No | 31 (11.3%) | 0 (0.0%) | 15 (4.6%) | 5 (2.4%) | 0 (0.0%) | 0 (0.0%) |
| Director Has Administrative Responsibility for Allied Health | n (%) | n (%) | n (%) | n (%) | n (%) | n (%) |
| Yes | 85 (30.9%) | 1 (14.3%) | 77 (23.6%) | 12 (5.8%) | 1 (4.3%) | 0 (0.0%) |
| No | 190 (69.1%) | 6 (85.7%) | 249 (76.4%) | 196 (94.2%) | 22 (95.7%) | 4 (100.0%) |
| 110 | 170 (071170) | 0 (001770) | 219 (101110) | 150 (5270) | 22 (50.170) | . (100.070) |
| Program Has Assistant/Associate | | | | | | |
| Director | n (%) | n (%) | n (%) | n (%) | n (%) | n (%) |
| Yes | 49 (17.8%) | 4 (57.1%) | 80 (24.5%) | 91 (43.8%) | 7 (30.4%) | 2 (50.0%) |
| No | 226 (82.2%) | 3 (42.9%) | 246 (75.5%) | 117 (56.3%) | 16 (69.6%) | 2 (50.0%) |
| Director Has Dedicated Administrative Support | n (%) | n (%) | n (%) | n (%) | n (%) | n (%) |
| Yes | 236 (85.8%) | 7 (100.0%) | 295 (90.5%) | 185 (88.9%) | 18 (78.3%) | 4 (100.0%) |
| No | 39 (14.2%) | 0 (0.0%) | 31 (9.5%) | 23 (11.1%) | 5 (21.7%) | 0 (0.0%) |
| Formal Orientation for New Adjunct Clinical | | | | | | |
| Faculty | n (%) | n (%) | n (%) | n (%) | n (%) | n (%) |
| Yes | 241 (87.6%) | 6 (85.7%) | 288 (88.3%) | 192 (92.3%) | 22 (95.7%) | 3 (75.0%) |
| No | 34 (12.4%) | 1 (14.3%) | 38 (11.7%) | 16 (7.7%) | 1 (4.3%) | 1 (25.0%) |
| Formal Orientation for New Full-Time Faculty | n (%) | n (%) | n (%) | n (%) | n (%) | n (%) |
| | | | | ` ' | | |

| Yes | 265 (96.4%) | 7 (100.0%) | 318 (97.5%) | 202 (97.1%) | 22 (95.7%) | 4 (100.0%) |
|------------------------|-------------|------------|-------------|-------------|------------|------------|
| No | 10 (3.6%) | 0 (0.0%) | 8 (2.5%) | 6 (2.9%) | 1 (4.3%) | 0 (0.0%) |
| | | | | | | |
| Formal Orientation for | | | | | | |
| New Part-Time | n (%) | n (%) | n (%) | n (%) | n (%) | n (%) |
| Faculty | | | | | | |
| Yes | 233 (84.7%) | 7 (100.0%) | 274 (84.0%) | 183 (88.0%) | 20 (87.0%) | 4 (100.0%) |
| No | 42 (15.3%) | 0 (0.0%) | 52 (16.0%) | 25 (12.0%) | 3 (13.0%) | 0 (0.0%) |
| | | | | | | |
| Formal Mentoring for | | | | | | |
| New Full-Time Faculty | n (%) | n (%) | n (%) | n (%) | n (%) | n (%) |
| Yes | 244 (88.7%) | 7 (100.0%) | 310 (95.1%) | 192 (92.3%) | 20 (87.0%) | 4 (100.0%) |
| No | 31 (11.3%) | 0 (0.0%) | 16 (4.9%) | 16 (7.7%) | 3 (13.0%) | 0 (0.0%) |

The number of clinical hours has been discussed in the literature, though at this time there are no evidence supporting a minimum number of clinical hours. Currently, in the U.S. only 13 NRBs require specific numbers of clinical hours (NCSBN, 2021). In this database, the mean number of hours across all programs (LPN,VN; diploma; associates; bachelors; and master's entry was:

- 472.97 for direct care clinical experiences;
- 69.62 for simulation;
- 115.72 for skills labs.
- 658.31 for total clinical hours (direct care, simulation and skills labs)

Please see Table 2. for the distribution of hours among the program types.

Table 2. Breakdown of Program Hours by Program Type

| | LPN/VN | Diploma | Associates | Bachelors | Accelerated BSN | Master's Entry |
|---------------------------------|---------|---------|------------|-----------|--------------------|----------------|
| N | 275 | 7 | 326 | 208 | 23 | 4 |
| Direct Patient Care Hour | s | | | | | |
| Mean | 386.3 | 530.21 | 437.61 | 625.64 | 578.85 | 665 |
| SD | ±169.14 | ±303.9 | ±173.05 | ±202.57 | ±192.3 | ±200.32 |
| Simulation Hours | | | | | | |
| Mean | 54.63 | 35 | 69.9 | 85.66 | 113.91 | 50 |
| SD | ±63.74 | ±37.92 | ±85.45 | ±69.52 | ±109.5 | ±28.19 |
| Skills Lab Hours | | | | | | |
| Mean | 124.27 | 113.64 | 110.12 | 112.13 | 119.46 | 153.75 |
| SD | ±126.24 | ±68.34 | ±78.04 | ±63.76 | ±67.61 | ±123.37 |

It should be noted that the survey question asked for typical (or pre-pandemic) hours as the pandemic adversely affected direct patient care clinical hours because practice facilities closed their doors to student nurses (NCSBN, 2022). Additionally, it also impacted simulation and skills lab hours because of social distancing requirements in many states.

Direct care clinical hours have been decreasing over the years. See Table 3. for 2010 and 2017 data from an NCSBN national sample (Smiley, 2019), as compared to 2020-21 data from the Annual Report database. One answer could be that programs are using more simulation to replace direct care clinical hours. The evidence supports replacing at up to 50% of clinical experiences with simulation, if nationally adopted simulation guidelines are followed (Hayden et al., 2014; NCSBN, 2016). However, looking at the mean number of simulation hours, both among all programs and for individual program types, the simulation hours are also relatively low. Indeed, Hungerford et al. (2019) found that, when comparing nursing education program clinical hours among the U.S., Australia, New Zealand and the U.K., the U.S. has

the lowest number of clinical hours in RN prelicensure programs¹. This trend of clinical hours (skills labs, simulation and direct care hours) bears watching in the future.

Table 3. Clinical Hours from 2010 – 2021

| | 2010 (median hours) | 2017 (median hours) | 2020-21 (mean hours) |
|----------------|----------------------|---------------------|----------------------|
| Master's entry | 770 | 780 | 665 |
| Bachelors | 765 | 712 | 625.64 |
| Associates | 628 | 573 | 437.61 |
| Diploma | 720 | 683 | 530.21 |
| LPN/VN | (data not collected) | 565 | 386.3 |

Based on NCSBN's 2020 study of nursing education quality indicators (Spector et al., 2020), we have identified eight key quality indicators for nursing programs. BONs and nursing programs can use these key indicators when evaluating programs so that changes can be made before the programs fall below standards. Please see Table 4. for a comparison of the quality indicators for each type of program. Below is a summary of the key quality indicators that were reported in the 2020-21 Annual Report Surveys:

- 1. The majority of associates, bachelors, ABSN and master's entry programs are nationally nursing accredited. LPN/VN and diploma programs need further work in this area.
- 2. The vast majority of the programs have full approval status at their BON.
- 3. Many of the programs experienced major organizational changes during the year being surveyed, which have been linked to poorer outcomes. Some of these changes would include new director or assistant/associate director, staff or faculty layoff, change in university/college leadership, collapsing programs, economic efficiencies, etc. Our research suggests that his lack of upper administrative support has led to poorer outcomes.
- 4. Programs with three or more directors in five years have been linked to poorer outcomes.
- 5. All of the programs had at least 50% direct care clinical experiences, which were linked to better outcomes.
- 6. 35% full-time faculty in a nursing program is linked to better outcomes. 26.3% of the programs in the database had less than 35% full-time faculty, which could lead to poorer outcomes.
- 7. While our study did not find graduation rates to be a quality indicator, the national nursing accreditors, the USDE and many BONs use it as an outcome. The accreditors and USDE cite 70% graduation rate, or above, as meeting their requirements. As can be seen, many in this database did not reach this level.
- 8. Lastly, programs that are younger than 7 years old have been linked to poorer outcomes and might need more frequent oversight. While the vast majority of programs in this sample are long-standing, there were some categories with more than 10% of the programs being new.

Table 4. Key Quality Indicators

| | LPN/VN | Diploma | Associates | Bachelors | Accelerated BSN | Master's Entry | Grand Total |
|----------------------|-------------|-----------|-------------|-------------|--------------------|-------------------|-------------|
| N | 275 | 7 | 326 | 208 | 23 | 4 | 843 |
| | | | | | | | |
| Accreditation Status | n (%) | n (%) | n (%) | n (%) | n (%) | n (%) | n (%) |
| Yes | 47 (17.1%) | 3 (42.9%) | 236 (72.4%) | 201 (96.6%) | 23 (100.0%) | 4 (100.0%) | 514 (61.0%) |
| No | 228 (82.9%) | 4 (57.1%) | 90 (27.6%) | 7 (3.4%) | 0 (0.0%) | 0 (0.0%) | 329 (39.0%) |
| | | | | | | | |
| Programs' Approval | | | | | | | |
| Status | n (%) | n (%) | n (%) | n (%) | n (%) | n (%) | n (%) |
| Fully Approved | 261 (94.9%) | 6 (85.7%) | 291 (89.3%) | 191 (91.8%) | 22 (95.7%) | 4 (100.0%) | 775 (91.9%) |
| Not approved/ | 14 (5.1%) | 1 (14.3%) | 35 (10.7%) | 17 (8.2%) | 1 (4.3%) | 0 (0.0%) | 68 (8.1%) |
| Conditional/ | | | | | | | |
| Probationary | | | | | | | |

¹ Australia mandates 800 hours; New Zealand mandates 1100 hours; the United Kingdom mandates 2300 hours.

| | <u> </u> | | | 1 | 1 | | 1 |
|---------------------------------|-------------|--------------|---------------|-------------|------------|------------|------------------|
| or Warning Status | | | | | | | |
| Siaius | | | | | | | |
| Experienced Major | | | | | | | |
| Organizational | | | | | | | |
| Changes | n (%) | n (%) | n (%) | n (%) | n (%) | n (%) | n (%) |
| Yes | 140 (50.9%) | 4 (57.1%) | 155 (47.5%) | 113 (54.3%) | 18 (78.3%) | 4 (100.0%) | 434 (51.5%) |
| No | 135 (49.1%) | 3 (42.9%) | 171 (52.5%) | 95 (45.7%) | 5 (21.7%) | 0 (0.0%) | 409 (48.5%) |
| Director Turnover | n (%) | n (%) | n (%) | n (%) | n (%) | n (%) | n (%) |
| Less Than or | 257 (93.5%) | 6 (85.7%) | 293 (89.9%) | 193 (92.8%) | 18 (78.3%) | 4 (100.0%) | 771 (91.5%) |
| Equal to Three | (, | (| (31 11 11) | (* *****) | (, | | (, |
| Directors Over | | | | | | | |
| the Past Five | | | | | | | |
| Years | 40 (4.5.1) | 4 (4 (2)) | 22 (12 12) | 17 (7 00) | | 0 (0 0 0) | 53 (0.51) |
| More than Three | 18 (6.5%) | 1 (14.3%) | 33 (10.1%) | 15 (7.2%) | 5 (21.7%) | 0 (0.0%) | 72 (8.5%) |
| Directors Over the Past Five | | | | | | | |
| rne Fasi Five Years | | | | | | | |
| rears | | 1 | | | | | |
| Less Than Fifty | | | | | | | |
| Percent (50%) | | | | | | | |
| Direct Care Clinical | | | | | | | |
| Experience | n (%) | n (%) | n (%) | n (%) | n (%) | n (%) | n (%) |
| Greater Than 50% Direct | 247 (89.9%) | 7 (100.0%) | 304 (93.3%) | 204 (98.1%) | 21 (91.3%) | 4 (100.0%) | 787 (93.4%) |
| Care Clinical | | | | | | | |
| Experience | | | | | | | |
| Less Than 50% | 28 (10.2%) | 0 (0.0%) | 22 (6.7%) | 4 (1.9%) | 2 (8.7%) | 0 (0.0%) | 56 (6.6%) |
| Direct Care | _== (===,=, | (313,73) | == (*** /** / | (213,74) | _ (***,**) | | (0.070) |
| Clinical | | | | | | | |
| Experience | | | | | | | |
| Less Than Thirty- | Ī | 1 | | | | | |
| Five Percent (35%) | | | | | | | |
| Full-Time Faculty | n (%) | n (%) | n (%) | n (%) | n (%) | n (%) | n (%) |
| Greater Than | 218 (79.3%) | 4 (57.1%) | 239 (73.3%) | 146 (70.2%) | 12 (52.2%) | 2 (50.0%) | 621 (73.7%) |
| 35% Full-Time | | | | | | | |
| Faculty | | | | | | | |
| Less Than 35% | 57 (20.7%) | 3 (42.9%) | 87 (26.7%) | 62 (29.8%) | 11 (47.8%) | 2 (50.0%) | 222 (26.3%) |
| Full-Time Faculty | | | | | | | |
| Тасину | | 1 | | | | | |
| Less Than Seventy | | | | | | | |
| Percent (70%) | | | | | | | |
| Graduation Rate | n (%) | n (%) | n (%) | n (%) | n (%) | n (%) | n (%) |
| Greater Than 70% | 134 (48.7%) | 1 (14.3%) | 200 (61.3%) | 137 (65.9%) | 15 (65.2%) | 3 (75.0%) | 490 (58.1%) |
| Graduation | | | | | | | |
| Rate | | | | | | | |
| Less Than | 141 (51.3%) | 6 (85.7%) | 126 (38.7%) | 71 (34.1%) | 8 (34.8%) | 1 (25.0%) | 353 (41.9%) |
| 70% | | | | , , | | | |
| Graduation | | | | | | | |
| Rate | | | | | | | |
| Риссиона | I | 1 | | 1 | 1 | | |
| Programs Established Before | n (%) | n (%) | n (%) | n (%) | n (%) | n (%) | n (%) |
| 2016/After 2015 | 11 (/0) | 11 (/0) | 11 (/0) | 11 (/0) | 11 (/0) | 11 (/0) | H (/0) |
| Before 2016 | 260 (94.5%) | 7 (100.0%) | 296 (90.8%) | 182 (87.5%) | 19 (82.6%) | 3 (75.0%) | 767(91.0%) |
| After 2015 | 15 (5.5%) | 0 (0.0%) | 30 (9.2%) | 26 (12.5%) | 4 (17.4%) | 1 (25.0%) | 76 (9.0%) |
| | | | | | | | |

There were other quality indicators that emerged from the Spector et al. (2020) study that would provide some direction to BONs and nursing programs when evaluating programs. Program changes could be made, based on the evidence (see Table 5.).

In this category, most LPN/VN programs and all other nursing programs provide disability support services to their students. Most programs provide services for students in low socio-economic classes. Remediation is provided for students who need support in most programs, though 15% do not. Fewer than 80% of the programs have a formal remediation process for students who report errors or near misses in their clinical experiences, which may be an area programs could focus more on, making sure to encourage a just culture in the nursing program. It is not surprising that only 22% of simulation faculty are certified and 4.9% of simulation centers are accredited since these opportunities are relatively new to nursing education. However, this may be a focus in the future for nursing education.

Table 5. Other Quality Indicators

| | LPN/VN | Diploma | Associates | Bachelors | Accelerated BSN | Master's Entry | Grand Total |
|--|-------------|--|--------------|--------------|--------------------|-------------------|-------------|
| N | 275 | 7 | 326 | 208 | 23 | 4 | 843 |
| | | | | I | I | | |
| Disability Support | | | | (2.1) | | | |
| Services | n (%) | n (%) | n (%) | n (%) | n (%) | n (%) | n (%) |
| Yes | 270 (98.2%) | 7 (100.0%) | 326 (100.0%) | 208 (100.0%) | 23 (100.0%) | 4 (100.0%) | 838 (99.4%) |
| No | 5 (1.8%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 5 (0.6%) |
| Services for Low | | | | | | | |
| Socioeconomic Class | | | | | | | |
| Students | n (%) | n (%) | n (%) | n (%) | n (%) | n (%) | n (%) |
| Yes | 253 (92.0%) | 6 (85.7%) | 312 (95.7%) | 195 (93.8%) | 19 (82.6%) | 4 (100.0%) | 789 (93.6%) |
| No | 22 (8.0%) | 1 (14.3%) | 14 (4.3%) | 13 (6.3%) | 4 (17.4%) | 0 (0.0%) | 54 (6.4%) |
| Formal Remediation | | | | | | | |
| Process for Students | | | | | | | |
| Needing Academic | | | | | | | |
| Support | n (%) | n (%) | n (%) | n (%) | n (%) | n (%) | n (%) |
| Yes | 234 (85.1%) | 6 (85.7%) | 275 (84.4%) | 178 (85.6%) | 20 (87.0%) | 4 (100.0%) | 717 (85.1%) |
| No | 41 (14.9%) | 1 (14.3%) | 51 (15.6%) | 30 (14.4%) | 3 (13.0%) | 0 (0.0%) | 126 (14.9%) |
| | , | , | , | | | , , , | , , |
| Formal Remediation Process for Students | | | | | | | |
| Committing | | | | | | | |
| Errors/Near Misses | n (%) | n (%) | n (%) | n (%) | n (%) | n (%) | n (%) |
| Yes | 220 (80.0%) | 4 (57.1%) | 257 (78.8%) | 165 (79.3%) | 20 (87.0%) | 4 (100.0%) | 670 (79.5%) |
| No | 55 (20.0%) | 3 (42.9%) | 69 (21.2%) | 43 (20.7%) | 3 (13.0%) | 0 (0.0%) | 173 (20.5%) |
| Certified Simulation | | 1 | | | | | |
| Faculty | n (%) | n (%) | n (%) | n (%) | n (%) | n (%) | n (%) |
| Yes | 33 (12.0%) | 2 (28.6%) | 71 (21.8%) | 71 (34.1%) | 11 (47.8%) | 3 (75.0%) | 191 (22.7%) |
| No | 211 (76.7%) | 5 (71.4%) | 240 (73.6%) | 132 (63.5%) | 12 (52.2%) | 1 (25.0%) | 601 (71.3%) |
| Does not offer | 31 (11.3%) | 0 (0.0%) | 15 (4.6%) | 5 (2.4%) | 0 (0.0%) | 0 (0.0%) | 51 (6.0%) |
| simulated clinical | 31 (11.370) | 0 (0.070) | 13 (4.070) | 3 (2.470) | 0 (0.070) | 0 (0.070) | 31 (0.070) |
| experience | | | | | | | |
| emperionee | | I <u>. </u> | | | | | |
| Accredited | (0.1) | (0.1) | (0.1) | (0.1) | (0.() | (0.1) | (0.() |
| Simulation Lab | n (%) | n (%) | n (%) | n (%) | n (%) | n (%) | n (%) |
| Yes | 9 (3.3%) | 0 (0.0%) | 13 (4.0%) | 15 (7.2%) | 3 (13.0%) | 1 (25.0%) | 41 (4.9%) |
| No | 235 (85.5%) | 7 (100.0%) | 298 (91.4%) | 188 (90.4%) | 20 (87.0%) | 3 (100.0%) | 751 (89.1%) |
| Does not offer simulated clinical experience | 31 (11.3%) | 0 (0.0%) | 15 (4.6%) | 5 (2.4%) | 0 (0.0%) | 0 (0.0%) | 51 (6.0%) |
| спрененсе | | I. | | l | | 1 | I |

Conclusion

In the 2020-21 Annual Report Program, we collected core data from 843 nursing programs, based on quality indicators and warning signs identified in a national, four-part study (Spector et al., 2020). Nursing programs and BONs can use these aggregate data to evaluate their programs, make recommendations for improvement, and compare their results to programs from across the nation. As more states join this program (we have 30 participating states in 2021-22), our data will be even more robust. It is our goal to eventually have all states and territories participating in this national nursing education database.

Some of the areas where improvement is need were identified as:

- more time is needed in clinical experiences (skills labs, simulation and direct care clinical experiences);
- decreasing director turnover is a concern;
- more simulation faculty should become certified and simulation centers should become accredited;
- increased resources for students with ESLare needed;
- LPN/VN programs should be accredited at a higher level;
- at least 35% of faculty should be full-time;
- graduation rates should increase;
- higher administrative support of nursing programs should increase.

As we continue to build this nursing education database, programs will be able to compare their results from year to year to identify the results of improvements they have made. This database is a major contribution to nursing education and we are grateful to the BONs and nursing programs that have participated.

References

- Hayden, J.K., Smiley, R.A., Alexander, M., Kardong-Edgren, S., & Jeffries, P.R. (2014). The NCSBN national simulation study: A longitudinal, randomized, controlled study replacing clinical hours with simulation in prelicensure nursing education programs. Retrieved from https://www.ncsbn.org/public-files/JNR_Simulation_Supplement.pdf.
- Hungerford, C., Blanchard, D., Bragg, S., Coates, A., & Kim, T. (2019). An international scoping exercise examining practice experience hours completed by nursing students. *Journal of Nursing Education*, 58(1), 33-41.
- NCSBN. (2016). National Simulation Guidelines for Prelicensure Nursing Education Programs. Retrieved from https://www.ncsbn.org/null/null/national-simulation-guidelines.
- NCSBN. (2021). Member Board Profiles. Retrieved from https://www.ncsbn.org/public-files/2021_Education_Survey.pdf.
- NCSBN. (2022). The NCSBN Environmental Scan: Resiliency, Achievement, and Public Protection. Retrieved from https://www.journalofnursingregulation.com/action/showPdf?pii=S2155-8256%2822%2900015-1.
- Smiley. R.A. (2019). Survey of simulation use in prelicensure nursing programs: Changes and advancements 2010 2017. *Journal of Nursing Regulation*, 9(4), 48-61.
- Spector, N., Silvestre, J., Alexander, M., Martin, B., Hooper, J.I., Squires, A., & Ojemeni, M. (2020). NCSBN regulatory guidelines and evidence-based quality indicators for nursing education programs. *Journal of Nursing Regulation*, 11(2), S1-S64.
 - https://www.ncsbn.org/Spector_NCSBN_Regulatory_Guidelines_and_Evidence_Based_Quality_Indicators_for_Nursing_education_programs.pdf