

## Case Study

# Helping Students Achieve First-Time NCLEX Success

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### SUMMARY OF FINDINGS

- 100% of the class passed the NCLEX on their first attempt had an average PassPoint Mastery Level of 5.39.
- Those students who used the new practice exam feature in PassPoint reported that it helped prepare them for the exam.
- Students took an average of 8.91 practice exams in PassPoint.

### Course

Nursing 436 is an NCLEX course for graduating seniors. During the course, students take three ATI predictor tests. In the spring, there were 17 students in the class.

### PassPoint Implementation

During spring 2013, Professor Orm created three exam assignments in PassPoint and ten ML assignments. Professor Orm guided her students towards areas to focus on for their continued NCLEX prep after they graduate. She checked the How is My Class Doing? page in prepU NCLEX 10,000 only after each predictor test was taken in order to view the student usage and mastery.

One group of 14 students in the spring 2013 436 course was given access to PassPoint.



## Usage and Mastery Data

Data below include NCLEX 10,000 usage ( $N = 17$ ) as well as PassPoint usage for this group ( $N = 14$ ).

	N	Min	Max	M	SD
Number of Log Ins (10k)	17	23.00	98.00	43.94	20.83
Number of quizzes (10k)	17	92.00	295.00	175.47	60.65
Number of questions (10k)	17	1299.00	2916.00	1821.41	511.67
ML (10k)	17	3.90	6.60	5.39	.94
Chapters quizzed (10k)	17	10.00	29.00	26.29	5.47
Client Needs Quizzed (10k)	17	.00	8.00	2.47	2.85

Students answered an average of 1,821.41 questions ( $SD = 511.67$ ) and had an overall average ML of 5.39 ( $SD = 0.94$ ).

	N	Min	Max	M	SD
PassPoint Log Ins	14	1.00	34.00	11.50	10.60
PassPoint Quizzes	14	.00	71.00	8.21	18.76
PassPoint quiz Questions	14	.00	830.00	91.43	217.84
PassPoint ML	14	.00	5.70	1.78	1.82

Quizzes and questions answered in the practice quizzing area of PassPoint are shown in Table 2. Given that students had already been using NCLEX 10,000, it is not surprising that the quizzing activity in PassPoint was lower. Of the 14 students who used PassPoint at all (for quizzing), 11 took at least one practice exam. Three students logged into PassPoint and took some quizzes but did not utilize the exam feature.

	N	Min	Max	M	SD
Number of Practice Exams	11	1.00	30.00	8.91	8.86
Number of Practice Exam Questions	11	75.00	2575.00	773.18	761.37
Practice exam ML	11	7.00	8.00	7.80	.31
Remediation Link Access	11	.00	5.00	.64	1.50

The frequency of practice exam usage is shown in Figure 1.

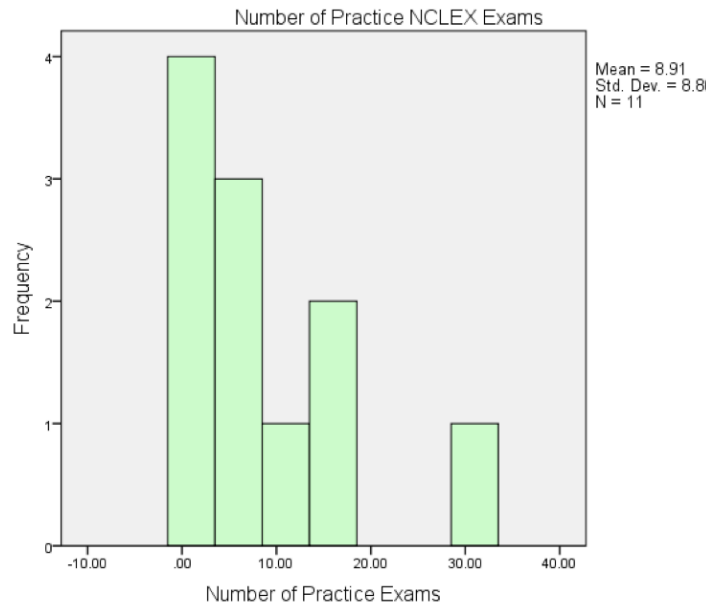


Figure 1: Frequency of Practice Exam Usage

Of the students who tried PassPoint, 8 students responded to a survey in which they were asked about their NCLEX outcomes. All students passed the NCLEX exam and passed after having answered an average 156 questions (median = 142.5). NCLEX 10,000 and PassPoint usage for these 8 students is shown below (see Table 4 and Table 5).

	N	Min	Max	M	SD
Number of Log Ins (10k)	8	27.00	79.00	42.63	18.48
Number of quizzes (10k)	8	97.00	295.00	177.25	63.16
Number of questions (10k)	8	1311.00	2564.00	1904.75	419.02
ML (10k)	8	3.90	6.60	5.11	1.14
Chapters quizzed (10k)	8	10.00	29.00	26.63	6.72
Client Needs Quizzed (10k)	8	.00	7.00	3.38	2.72

	N	Min	Max	M	SD
PassPoint Log Ins	8	1.00	23.00	12.38	10.11
PassPoint Quizzes	8	.00	71.00	11.63	24.51
PassPoint quiz Questions	8	.00	830.00	135.63	284.87
PassPoint ML	8	.00	5.70	2.01	1.99
PassPoint Chapters	8	.00	14.00	3.38	5.53
PassPoint Client Needs	8	.00	8.00	2.13	3.14
Number of Practice Exams	8	1.00	30.00	9.25	9.84
Number of Practice Exam Questions	8	75.00	2575.00	819.38	846.26
Practice exam ML	8	7.65	8.00	7.95	.12
Remediation Link Access	8	.00	1.00	.25	.46

Students who used PassPoint and passed the NCLEX had a practice quizzing average ML of 5.11 ( $SD = 1.14$ ) and a practice exam average ML of 7.95 ( $SD = .12$ ).

A total of 13 students responded to the survey and indicated they had passed the NCLEX. As mentioned above, only 8 of those used PassPoint. Professor Orm reported that 100% of the students passed the NCLEX, although we only received survey data from 13.

### Student comments

Relating to how useful PassPoint was in helping prepare for the NCLEX:

- It helped with answering questions and being able to sit there for long periods of time to gain endurance
- It helped when doing question after question.
- The comprehensive NCLEX-like exams were helpful.
- I really liked the PassPoint Mastery Level that we were able to use. I liked that it gave us a set amount of questions, like on the NCLEX, and adapted to questions based on how you answered them.
- I like how it showed your progress and the different levels of improvement.
- I thought the new, adaptive program was awesome! Not only were the questions and question content extremely similar to what I encountered on the NCLEX, it was such a confidence booster to be able to see the questions trend after taking it and seeing them above the pass line. A couple times while taking the NCLEX I started to feel like I was not doing well and then I'd remember how many times I felt like that while doing the PassPoint adaptive tests and then had been pleasantly surprised at how well I did at the end. All I did for preparation was PassPoint and I felt it was absolutely adequate. Many of the questions I had on the NCLEX were almost identical to many of the questions I'd had doing PassPoint.
- The competency of PassPoint allowed me to see where I stood compared to the passing standard of the NCLEX.
- Using PassPoint helped keep me focused on answering questions. PassPoint helped to keep my mind fresh of material.
- Yes, I believe practice questions are an excellent resource to use for preparation. I also think it is great to start doing practice questions early in your nursing courses and all throughout.
- PassPoint's new adaptive testing and the ability to take 265 questions was good practice for the NCLEX in my opinion. Taking longer tests really tested my patience and helped me prepare for my exam.