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An ESP Approach to Teaching Nursing Students the Quality of Clinical Nursing Notes Writing

Dr. Rawda Bashir Abdalla Ahmed Department of English, Northern College of Nursing, Saudi Arabi

Eman Huwaidi Al-Enezi,

Northern College of Nursing, Saudi Arabi

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ABSTRACT: For nursing students in the education system in Saudi Arabia, English-language writing skills, whether for general or specific purposes, have long been ignored, which may jeopardize their success in medical-oriented courses and their future careers. This study designed clinical nursing note-writing course (CNNWC) for university nursing students and explored the teaching outcomes of its implementation. The three main objectives were to (a) examine the effectiveness of the CNNWC in enhancing learners' competencies; (b) survey learners' satisfaction with the CNNWC, and (c) investigate learners' perceptions of the CNNWC. In this action research, 47 students practiced four writing tasks while guided with four teaching tools, namely, multiple revisions, peer review activities, and direct and indirect teacher feedback, for a semester. External examiners included a language teacher and a nursing professional, and the data-collection instruments used included a writing competence scale and a course satisfaction questionnaire. The results showed that the learners' writing competence significantly improved after the CNNWC. They also demonstrated a fair level of satisfaction toward the CNNWC. The learners indicated a preference for feedback from the teacher rather than from peers, and they perceived vocabulary capability to be crucial. ESP/ENP teachers are advised to consider the implementation of the CNNWC when designing syllabi.

KEYWORDS: clinical note writing, nursing education; EFL; ESP; ENP

INTRODUCTION

Teaching the quality of writing clinical notes to nursing students is both rewarding and challenging. Students are excited to learn history taking and physical exams as they begin to feel more like nurses in training. It is surprising though how often students are taken aback by the extent of writing involved [1]. In teaching writing clinical notes some students are not realize how

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much writing there is in nursing so, teacher need to emphasize the importance of good writing. The clinical note assignments and debriefs in the clinical skills course illustrate how writing, especially quality writing, is essential to nursing. even in the era of electronic medical records (EMRs), if student cannot write well, their notes are well note translate to a good clinic record [4]. In the field of English for specific purposes (ESP), workplace English for medical and nursing professionals is a crucial subject that deserves more attention from language researchers and educators [7]. Yet within the healthcare create itself, English for nursing purposes (ENP) has traditionally been the primary focus of research. Meanwhile, English for nursing purposes (ENP) has recently been recognized as part of EMP [2].

that emphases are placed on the reading and writing skills required to meet physicians' needs [4,5]. On the other hand, English for Nursing purposes (ENP) has typically focused on the listening and speaking skills needed to communicate with foreign patients and their families in clinical settings [1,6]. Despite these focuses, the accurate understanding and use of English in written documents, such as doctor's orders, admission notes, patient histories, and so forth, are still important for nurses [6]. However, English writing skills training for nurses, including nursing note writing, has long been ignored in the research context [7]. Some may argue that local nurses do not need such writing skills, as they are not competent enough to handle this difficult productive skill. In addition, nursing school curricula rarely include writing skills training due to the scarcity of educational resources. However, considering globalization and increased needs for nursing professionals in Saudi Arabia, addressing to the English for Nursing purposes related needs has become increasingly important.

Nevertheless, most discussions of ENP seem to focus on nurses practicing in ESL (English as a second language) contexts in which most people are native speakers of English [3], whereas little literature can be found regarding nurses living in countries where English is spoken as a foreign language (EFL) [3]. Regarding the teaching and learning of ESP language skills in the EFL context of Saudi, the previous literature on EMP has indicated that emphases are placed on the reading and writing skills required to meet physicians' needs [4,5]. On the other hand, ENP has typically focused on the listening and speaking skills needed to communicate with foreign patients and their families in clinical settings [1,6]. Despite these focuses, the accurate understanding and use of English in written documents, such as doctor's orders, admission notes, patient histories, and so forth, are still important for nurses [6]. However, English writing skills training for nurses, including nursing note writing, has long been ignored in the research context [7]. Some may argue that local nurses do not need such writing skills, as they are not competent enough to handle this difficult productive skill. In addition, nursing school curricula rarely include writing skills training due to the scarcity of educational resources. However, considering globalization and increased needs for nursing professionals in Saudi Arabia, addressing ENP-related needs has become increasingly important. For EFL nurses who would like to go abroad for nursing work, ENP can be an indispensable skill. Relatedly, clinical nursing note-writing training seems to be a niche worth exploring to compensate for the current lack of ENP knowledge among many nurses.

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Therefore, this study utilized a design of action research under the theoretical framework of PACK model (pedagogical, and content knowledge) in clinical nursing note writing course (CNNWC). The main aim of the study was to design and implement Quality Clinical Nursing Notes Writing Course (QCNNWC), and the three primary, related objectives were: (a) to examine the effectiveness of the QCNNWC in enhancing nursing students' writing competencies; (b) to survey the nursing students' satisfaction with the QCNNWC; and (c) to investigate the nursing students' perceptions of the QCNNWC.

Research Questions

1.To what extent do the quality clinical notes writing enhancing nursing students' writing competencies.

2. What are the factors that strength nursing students writing competence to achieve quality of clinical notes writing?

LITERATURE REVIEW

Needs Analysis of Clinical Nursing Note Writing

The quality of critical nursing notes (or documentation) is a critical indicator of the quality of patient care [8,9]. Clinically speaking, nursing notes are the main source of information directly pertaining to patients and thus can have a substantial effect on the quality of nursing care. Relatedly, critical nursing notes generally must be completed and filed according to relatively high standards in order to ensure the quality and safety of medical services [8]. At present, medical institutions around the world are increasingly focusing on improving the quality of nursing notes writing. The quality of such documentation can be judged in terms of three main aspects: the content, the documenting process, and the format or structure [9]. The content focuses on the completeness and accuracy of authentic data in the clinical setting. The documenting process emphasizes the integrity of the patient's data and the regularity of the data in the patient's record. The format/structure pertains to the presentation of patient information, such as its legibility and integrity.

Critical nursing note writing has a unique form of grammar, which is different from that in general writing, as the purpose of such notes is to communicate with other medical professionals in the most efficient way. The typical form of such notes is similar to that of the "telegraphs" used in the maritime or navigation industries, and readability for the general public is not of primary concern [10]. Yu, Su, and Chen [10] proposed 8 grammatical features in nursing note writing, including omitting the subject, omitting the object, omitting the subject and verb, omitting articles, omitting the verb "be", writing in the passive voice, using abbreviations, and writing with one tense. In addition, at the diction level, some higher frequency words, such as patients (PTs), doctors (Dr.), and nurses (N), are frequently abbreviated or even replaced with ellipses. The nursing note is an important medical record that helps to connect nurses working in different shifts. As each note is patient-care centered, the paragraph construction is typically based on the nursing care history of

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a specific case during a given work shift. The work shift is normally divided into day shift, evening shift, and midnight (or night) shift. The note may consist of a message indicating what has been done in this shift, and what needs to be carried out during the next shift. Thus, the effectiveness and efficiency of nursing note writing are crucial for the transition of nursing works. The conciseness and precision of the nursing notes expression become critical for clinical practice. Besides, nursing notes can be kept as an official document for future reference in case any argument should occur among staff or patients [11].

English as Foreign Language (EFL) Teaching and Learning Writing

In the process of learning how to write, particularly at the revision stage, teachers' feedback and comments play a crucial role for student writers. Various categorizations of teachers' comments and feedback have been proposed, for example, stand for or against the teachers' comments, praise versus criticism; oral and written responses; end and side commentary; responses only to linguistic errors and/or to content; explicit versus implicit suggestions; sentence-level or ideas and organization; personalized versus group feedback; expert or non-expert readers' feedback; peer's versus teacher's comments; diagnostic chart employment; minimal marking strategy; and code correction system [12]. Although there are disagreements among these approaches, generally, the effect of a teacher's comments and feedback is context-specific and is subject to the learners, teacher, classroom setting, culture, objectives, goals, and so on [13].

Feedback and comments from a teacher focusing on grammatical errors are helpful for EFL learners' improvement in learning to write. Some writing scholars, such as Lee [14], have lodged the criticism that writing teachers put too much emphasis on their students' grammatical problems; nevertheless, expert writers' feedback and comments on student-writers' syntax errors are still welcomed by both learners and teachers [15]. Hamed Mahvelati [16] and Han and Hyland [17] argued that learners valued grammatical corrections and feedback more highly than feedback regarding the other dimensions of writing. Research conducted in EFL contexts in Asian countries, such as Taiwan [18], has also tended to conclude that linguistic knowledge, especially regarding grammatical rules and vocabulary usage, is the most problematic area for students' writing. The authors of such research have suggested, relatedly, that although learners with different levels of English proficiency might have different major difficulties, for novice learners, writing performance will be greatly constrained by their linguistic knowledge or lack thereof [18]. A combination of indirect and direct feedback is suggested for the remediation of writing errors/mistakes. Direct correction involves the underlining, highlighting, and explicit correction of incorrect word choices or grammatical errors by writing teachers, while indirect correction refers to situations when teachers provide more implicit hints, such as placing a question mark next to, inserting an arrow next to, or underlining words or phrases containing errors/mistakes without also providing specific corrections for them [19]. Responding to advocates of direct correction, some researchers have suggested that teachers should avoid providing the correct linguistic forms/ideas directly and immediately. Instead, student writers should be allowed to have more time and space to learn via critical thinking, reflection, and self-exploration [15]. The utilization of a coding

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Publication of the European Centre for Research Training and Development-UK system that gives the students indirect hints about their errors/mistakes has been recommended in more recent research [20]. Similar to the other arguments regarding two extremes of useful teaching techniques, both direct and indirect correction can be worthwhile in different times, settings, and teaching contexts [21]. Thus, writing teachers should attempt to find a suitable way to integrate these two strategies.

Peer Review Activities

Peer review, also termed peer feedback or peer response, has been discussed in the literature regarding English writing teaching and learning over the past two decades. The earlier interest in PR was in regard to its use in traditional classroom settings, and both college-level and secondary students' writing learning seemed to benefit from this technique [22]. A large number of empirical studies concluded that PR supports the enhancement of writing learners' capabilities and efficacy in terms of cognitive, affective, social, and linguistic perspectives [23]. Through the process of drafting, peer-reviewing, giving/receiving feedback, and revision, learners can simultaneously increase their awareness of their audiences, develop positive attitudes about learning writing skills, develop critical thinking abilities, complement their second language acquisition, pay greater attention to their own writing, and even help improve their own speaking skills [23]. Likewise, both teachers' comments and PR are feedback worth considering in terms of their effects on student writing. Some studies have shown that student-writers prefer their teachers' comments to responses from their peers, while a few others have suggested that PR is beneficial for the construction of the writing process [25]. Taking a middle path, EFL writing learners can properly take advantage of both forms of feedback to improve their writing skills, especially in different social and cultural teaching contexts [13].

METHODOLOGY

Research Design

This action research aims to develop and implement a clinical nursing note-writing course (CNNWC) applying the PACK (Pedagogical Content Knowledge) model as the research framework. (See Figure 1). The action research method was one in which the researchers repetitively revised and improved the teaching actions through the snail process of planning, implementation, observation, evaluation, and reflection [34]. Aside from the cycle of action research, the PACK model [35]. integrated various pieces of knowledge in the teaching and learning processes, including pedagogy, content knowledge, pedagogy, pedagogical content, content knowledge, and pedagogical content [7]. A comprehensive instruction method integrated with various teaching strategies and writing tasks was designed for the special needs in the ESP/ENP context. The research procedure of this CNNWC is shown in Figure 2.

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Figure 1. The research framework of this CNNWC course.

Participants



Figure 2. Research procedure of this CNNWC course.

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The participants consisted of 47 nursing majors. To recruit nursing students who were interested in learning clinical nursing note writing, one classroom consisting of 47 students in the research context was conveniently sampled at the target College. As the regulations of the relevant IRB (Institutional Research Board) stipulate 20 years of age as the age of adulthood, we only invited 2-year vocational students who had already completed 4- year junior college programs to take part in the study. Most of the students were females, while all the participants were aged from 21 to 25 years old, with the majority being 21 years old.

Normally, nursing students attending Northern College of Nursing in Saudi Arabia have good levels of nursing professional knowledge but are less competent in English as a foreign language. They have studied nursing specialties intensely (for at least 20 h per week) for over 3 years and have obtained nursing licenses issued by the relevant agencies governmental Saudi Arabia. To pass the national licensure examinations written in English, nursing students need to be competent in nursing professional knowledge. However, most nurses are not competent enough in English to comprehend the English versions of these tests [5,6] although most have studied English as a foreign language for at 8 years, including 3 years in junior high school and 3 years in a 4-year junior college program with 3 h lectures every week.

The nursing students' EGP proficiency was not satisfactory. The university graduation threshold of EGP was GEPT (General English Proficiency Test) elementary level, CEFR (Common European Framework of Reference for Languages) A2, or TOEIC (Test of English for International Communication) 235 with 115 in listening and 125 in reading minimally. Under this requirement, less than 20% of students could pass it. Most of them chose to take another ESP /ENP vocabulary test named, PVQC (Professional vocabulary Quotient Credential), or a campus English test held by the college. Of this language examination, writing skills is excluded, and nursing students are often beginners in writing English [7, 13, 18]. The nursing students' English test scores at the university are shown in Appendix D.

Four Teaching Strategies

The first strategy consisted of the writing of multiple drafts for each writing task's teaching and learning. One potential feature of the process writing approach was the production of multiple drafts during the writing teaching and learning progression [39]. As writing can be seen as a process of thinking, reflection, and discovery, revisions of the drafts according to the feedback and comments inside and outside of the writers' cognitions were a must. The nursing students started by writing their first drafts and then give them to the peers of each student then gave him/her first-time feedback to help improve the quality of the given first draft. then Second drafts after corrective revisions were made. The teachers' indirect feedback and comments were then used as a reference in making further corrections. Third drafts were then prepared based on the teachers' implicit feedback. The teacher then proofread these third drafts to identify previously unidentified errors and provide direct feedback accordingly (see Figure 3). These four rounds of revisions

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should have enabled the learners to obtain insights regarding their linguistic errors as well as nursing knowledge expressions.



Figure 3. Multiple drafts teaching strategy.

The five repeated writing cycles correspond to the design of five writing tasks that are stated in the latter section of "nursing note-writing tasks". As action research design, the five writing cycles also served another purpose of a spiral cycle of planning implementation-observation-correction as shown in Figure 1 The focus of the feedback and comments become slightly different in each round as the nursing students were learning progressively.

The second strategy consisted of the use of intra-group peer review activities. Although the appropriate use of PR (peer review) in the field of EFL writing is debatable, a recent study showed that the integration of PR with teacher feedback (TF) yielded better results than the use of TF alone [13]. The value of PR seems to lie in providing more effort and study time for the learners to think and reflect. Therefore, we designed an intra-group PR activity with three to four members for each group (see Appendix B). To ensure its success, PR training was supplied at the beginning of the course, which was intended to enable the nursing students to become familiar with the feedback forms and techniques (see Appendix B).

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The third strategy consisted of providing indirect comments and feedback from the teacher. The value of and appropriate way to provide written corrective feedback (CF) have long been discussed in the field of English language teaching [12], with the importance of CF for the learning of writing being commonly acknowledged. When acting as mediators, models, experts, and facilitators, language teachers' linguistic knowledge is doubtless helpful for the stages of drafting and revising. Since we took on the notion of process writing emphasizing the feature of discovery in this study, it was thought that the teacher's indirect feedback could provide more time and space for the novice writers to solve the problems that the teacher identified. To achieve this, the teacher only marked "codes" on errors and mistakes instead of giving the "right answers" immediately. Such codes could consist of, for example, "TS" for a tense error, "SP" for a misspelling, "SV" for the incorrect use of a singular verb, and "PP" for the incorrect use of a preposition, etc. The students could then try to find out the correct answers from their peers, friends or even the teacher.

The fourth strategy used consisted of the teacher providing direct feedback and comments. Following the stage of indirect feedback, which allowed the students to discover their own mistakes, the teacher performed final checks and provided CF explicitly. Ideally, the final drafts should have been readable without too many errors, and we expected better results after more of the writing tasks had already been completed. The final drafts were assessed by an external examiner to obtain a more objective judgment of the quality of the given task.

Clinical Nursing Note-Writing Tasks

Contently, there were five writing tasks that the students completed to practice writing—two took place before the midterm test, and the other three were performed after that (see Appendix A). The topics for these five nursing-note writing tasks covered five major scenarios of medicine [40]. All the drafts, including revisions, were kept. Two formats of tasks serving different teaching purposes were given for each writing topic: one for EGP, which entailed writing in a formal and full writing style, and the other for ESP/ENP, which entailed writing in an informal style with abbreviations (see Appendix B)

The topic of the first task dealt with the digestive system (which was covered in a gastrointestinal unit). The learners were taught about the conventions of nursing notes written regarding a scenario of an associated specialty. In the scenario, a patient with liver cirrhosis is visiting the gastroenterology department. Some gastrointestinal symptoms, such as passing black stool and vomiting blood clots, were described when admitting the patient to the hospital. Vital signs taking was then practiced, and the results were recorded accordingly. The same was done with physical examinations. After receiving the doctor's diagnosis and order, further treatments and caring procedures were carried out. Finally, discharge teaching was provided once the patient was qualified to be discharged. Such a typical cycle of nursing care routines was integrated into the writing activity.

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Consequently, the second topic was related to the heart and circulation systems (which was covered in a cardiovascular unit). In this unit, a patient with chest pain, cold sweats, difficulty breathing, and feeling faint at work was the focus. Diagnostic tests demonstrated some more causes of associated disorders in depth. The administration and teaching of medications for different types of cardiovascular patients were demonstrated and performed. The students also learned how to take nursing notes for these procedures. The third topic was related to a respiratory unit concerning the lungs and breathing system. For this scenario, a male patient had been coughing for half a year and had coughed up dark red sputum occasionally. He was diagnosed with tuberculosis (TB) and was cured in a respiratory ward with special equipment. For public safety reasons, he was traced for at least 6 months after being discharged. Note-taking regarding all the symptoms, medications, treatments, and healthcare teaching was included in the task. The fourth topic was related to a colon and rectal surgery unit dealing with a patient suffering from colon cancer, and the fifth was related to a breast surgery unit about treating a female client who was experiencing symptoms of breast cancer. All eight tasks covering various topics had been carefully designed, tested, and widely adopted and taught in the teaching context in Saudi Arabia. As they have been part of an ESP textbook published for over 10 years, such a rigorous development process had been experienced, including expert consultation, large-scale implementation, and continuous revisions, that the validity and reliability of the tasks should have been achieved to some extent.

Data Collection and Processing

Learners' Competencies

To assess the progress of the various learners' learning, three nursing note-writing examinations were conducted as pre-, mid-, and post-tests (see Appendix A). To comply with the process writing approach, one more mid-term test was also set up as a form of measurement feedback along with the commonly applied pre- and post-tests. The pretest topic was a patient with prostate problems, which provided a medical context for a urological unit [40]. In the middle of the course, the nursing students were tested on the topic of a patient suffering from diabetes mellitus, a scenario from an endocrine unit. At the end of the training sessions, they were tested on the topic of a patient with a stroke, a scenario from a cardiovascular unit [40]

A set of competence criteria specified for the nursing note writing was designed by the researchers. While the conventions of nationwide EFL writing-test criteria, which contain the six dimensions of "content", "structure", "grammar", "diction", "mechanics", and "holistic" [41], were used in designing this set, a few aspects of those criteria were subsequently modified. As the medical and nursing context had been fully given and the writing purpose was to communicate with the nursing professionals, the "structure" dimension dealing with the structure of topic/concluding/developmental sentences was not particularly crucial anymore. On the other hand, the ESP/ENP grammar used was quite different from that of EGP, as nursing note writing omits subjects/objects/articles for the sake of conciseness and briefness. Additionally, abbreviations of regular words and terms are also frequently shown on nursing notes such that the "diction" dimension needed to be slightly modified as well, while the "mechanics" dimension dealt

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Publication of the European Centre for Research Training and Development-UK with the punctuation, capital letters, transitional words, and discourse markers. The peer review form showed detailed items of the assessment criteria (Appendix B). As indicated in that form, the evaluation criteria covered five dimensions—"content", "grammar", "diction", "mechanics", and "holistic"—based on five scales of competence from 0 (lowest) to 5 (highest).

Learners' Perspectives

A course satisfaction questionnaire (CSQ) was designed by the researchers to investigate the learners' perceptions of the teaching course. The CSQ consisted of a quantitative survey containing 26 items to assess the learners' satisfaction levels. To increase the validity and reliability, three experts, including a nursing professor, a medical doctor, and a linguist, were involved to provide suggestions for the CSQ. A pilot survey with 15 students before the commencement of the study revealed satisfactory reliability of Cronbach's alpha value as 0.93. The original version of the quantitative section contained 30 items, which were reduced to 26 after the analysis of EFA (explorative factor analysis) of this CSQ.

Data Processing

Quantitative statistical analyses, including descriptive and interpretive statistics, were performed using SPSS version 21. A repeated-measure MANOVA (Multivariate Analysis of Variance) was opted for since the five measurements of the learners' writing competencies were included as dependent variables. Then, post hoc analyses were performed to further compare the effects in every competence dimension (i.e., content, grammar, diction, mechanics, and holistic). The significance level was set at 5% (p = 0.05). Qualitatively, the CSQ was analyzed by means of content analyses [42]. The six steps involved were: (a) each original record was read carefully and repeatedly to comprehend each learner's perceptions; (b) specific comments and repeated descriptions were marked; (c) patterns of perceptions were coded to form a subtheme; (d) relationships between each subtheme were examined carefully; (e) higher-level themes were established based on the context of the subthemes; and (f) the themes of learners' perceptions were reviewed again.

RESULTS AND DISCUSSION

Learners' Writing Competencies

The learners' competencies about both EGP and ESP/ENP nursing note writing exhibited significant improvement after they had completed the semester long CNNWC. The results of the repeated-measures multivariate analysis of variance (MANOVA) shown in Table 1 demonstrated they had achieved statistically significant improvement in both EGP and ESP/ENP nursing note writing (p < 0.001). This suggests that the learners' writing competencies had been enhanced for at least one among the three repeated measurements. The results thus suggest that the CNNWC was an effective approach for helping improve the nursing students' writing competencies.

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Format	Effects	Test Method	Value	F Value	df	Р	Partial η 2	Observed Power
EGP	Within subjects	Wills' Lambda	0.042	165.503	6	0.000 **	0.956	1.000
	Between Subjects	Wilks' Lambda	0.130	23.775	11	0.000 **	0.870	1.000
ESP/ENP	within Subjects	Wilks 'Lambda	0.002	1250.84	5	0.000**	0.996	1.000
	Between Subjects	Wilks Lambda	0.003	5176.303	10	0.000**	0.995	1.000

Publication of the European Centre for Research Training and Development-UK Table 1. Three times repeated-measure MANOVA (pre-, middle-, and post-test)

Judging from the F values obtained, the students achieved much higher scores for the ESP/ENP format than for the EGP format, indicating differing effects for the two formats. Specifically, the learners had more significant progress in learning ESP/ENP than in learning EGP.

To further investigate which part of the CNNWC might have best helped the learners to boost their performances, the descriptive statistics might supply another form of evidence. Table 2 shows that the learners' writing performances for both the EGP and ESP/ENP formats exhibited significant improvements between the pre-test and mid-test in every dimension; however, their scores were maintained on a similar level between mid-test and post-test. At the beginning of the course, the learners seemed not yet ready to combine their previous knowledge about the nursing professionor the schemata—with the English language [8]. The schemata knowledge may contain, for example, clinical scenarios, caring procedures, medical terminologies, patient communications, etc. [5]. The pre-test performance was miserable in general, as most of the nursing students could not write sufficiently well to meet the criteria designed for either format. The scores were poor for the ESP/ENP format, with the pre-test mean score being 0.22 (holistic), which implied that the English teacher gave the nursing students extremely low marks ranging from 0 to 0.6. On the other hand, for the EGP format, the pre-test mean was 1.67, and the highest scores were as high as 3.5. Regardless of the potential bias perceived by the assessors, the nursing students had some thoughts about the EGP already but no idea at all in terms of the ESP/ENP. As such, most of the learners left their papers empty for the ESP/ENP format or wrote the same content for both formats.

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Table 2. Descriptive statistics of the pre-test, middle-test, and post-tests.

Format C	Test Irder	Dime	nsion	N	Min	Max	Mean	SD	Format	Test Orde	Dimensio r	n	N	Min	Max	Mean	SD
<u>.</u>		Cont	ent	47	0.0	4.5	2.02	1.24			Conter	t	47	0.0	0.8	0.25	0.27
		Struc	ture	47	0.0	4.5	2.09	1.26			Structu	re	47	0.0	0.6	0.20	0.21
Pre-te	est	Gram	mar	47	0.0	3.2	1.51	0.95		Pre-test	Gramm	ar	47	0.0	0.8	0.26	0.24
		Dictio	m	47	0.0	3.5	1.61	0.97			Diction		47	0.0	0.6	0.18	0.19
		Mecha	nics	47	0.0	1.8	1.22	0.54			Mechan	ics	47	0.0	0.6	0.18	0.20
		Holist	ic	47	0.0	3.5	1.69	0.95			Holistic		47	0.0	0.6	0.22	0.22
EGP		Conten		47	1.6	4.5	3.26	0.56			Content	47	3.0) 4.	2	3.61	0.37
LOF		tructur		47	1.6	4.2	3.27	0.55			Structure	47	3.0			3.48	0.42
Mid-test		ramma	T	7	1.2	3.2	2.14	0.41	ESP/ENP		Grammar	47	4.2			4.78	0.27
1110 1001	·	iction	4	- C	1.2	3.6	2.18	0.50	1001 / 101 11	Mid-test	Diction	47	3.0			3.67	0.31
		echani			1.0	2.0	1.81	0.25			Mechanics	47	3.0	4.0		3.40	0.30
		olistic	4	7	1.3	3.4	2.53	0.37			Holistic	47	3.3	4.2		3.79	0.25
	Co	ntent	47		1.0	5.0	3.53	0.93	_	<u> 7</u>	Content	47	3.0	4.8		3.83	0.37
	- 107.00	ucture	47		.0	5.0	3.06	1.00			Structure	47	2.2	4.4		3.51	0.45
	1000	mmar	47	1		5.0	2.51	1.11			Grammar	47	4.2	5.0		1.82	0.21
Post-test	Di	ction	47	1		4.0	1.92	0.83	1	Post-test	Diction	47	2.0	4.8		.67	0.47
	Mec	hanics	47	1.0)	5.0	2.80	1.16		Ν	fechanics	47	2.0	4.6	1	3.54	0.59
	Hol	listic	47	1.	0	5.0	2.88	0.90		I	Iolistic	47	2.8	4.7		3.88	0.35

Nevertheless, following the CNNWC instruction, the learners exhibited significant progress, from turning in almost-blank papers to being novice writers after merely two practice tasks. Their mean EGP score increased to 2.54, and their mean ESP/ENP score reached 3.78 (holistic) for the midtest. Obviously, the learners' performance in the ESP/ENP format had tremendously advanced to fairly high levels based on their new knowledge of how nursing-note grammar rules are combined with medical terminologies and abbreviations [10]. One possible cause for the relatively high jump in the ESP/ENP scores might be that the ESP/ENP writing required different knowledge (i.e., the schemata) from that required for the EGP writing [1]. Moreover, the learners' weaknesses in EGP vocabulary and EGP grammar were not critical hindrances in performing the ESP/ENP tasks [1]. Once the nursing students understood the rules and requirements of the ESP/ENP format, the "underestimate" of their competencies at the beginning was rapidly improved upon [10]. On the other hand, enhancement was also observed for the EGP format despite the lack of EGP linguistic capabilities having potentially curtailed the learners' progress to a certain extent compared with the ESP/ENP format [18]. Furthermore, from the mid-test to post-test, the learners' performances remained on roughly the same level without showing statistically significant progress. Despite this, the nursing students had still gained slight improvements in both the EGP P (holistic = 2.88) and ESP/ENP (holistic = 3.88) formats at the end of the CNNWC. As this course was mainly aimed at enhancing the nursing students' writing competencies regarding nursing notes, the post-test outcomes were gratifying to the extent that they improved from nearly zero to grades of 4 out of 5

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for the ESP/ENP format. The teaching goal was thus partially satisfied. For EGP performance, on the other hand, EFL vocabulary and grammar competencies were not easy to develop in a short period [7]. our students are becoming fast learners in some ways but are also less patient about completing learning drills. They thus tended to perform problem-solving more effectively than engaging in traditional forms of practice [32]. As such, once they believed they had comprehended the major features of writing a nursing note, they could lose interest and focus.

Additionally, the EGP test results show that the mean scores for "diction" and "structure" decreased in the post-test compared to the mid-test although they were still higher than the pretest. Regarding the diction dimension, the nursing students' EGP vocabulary competencies were not sufficient in general [5]. At the beginning of the EGP writings, they tended to use simple words so that they did not make many errors and mistakes, and they might focus more on the words' choices and spelling. However, after three more rounds of practice, they became more familiar with the writing formats so that they might start to use some relatively difficult words to try to correspond to their cognitive thoughts. Under this circumstance, they might make more mistakes. In terms of the "structure" dimension, the draft of topic/developmental/concluding sentences was the focus. Since their native language, Arabic, does not have this kind of structure, students found it easy to forget this dimension. Without repeated reminders of this dimension, they showed a decrease at the post-test. Besides, students had to pay more attention to the other four dimensions in which we could observe improvements. The two dimensions of "diction" and "structure" were relatively ignored.

Learners' Satisfaction Levels with the Course

The participating nursing students indicated a moderate level of satisfaction (mean = 3.77) with the CNNWC as measured by the CSQ, and the questionnaire had good reliability (Cronbach's α = 0.93). The result is consistent with some previous studies in a similar research context [7,13]. Table 3 ranks the 26 items of the CSQ sorted by mean scores. The learners tended to agree that they learned more from the language teacher than from their peers, which has been well discussed in the literature [16]. The teacher efforts and guidance were generally recognized by the learners, and most of the positive attitudes stemmed from this (e.g., item 20 = 4.27; item 22 = 4.24). In contrast, the learners did not like the feedback from their peers such that most of the lower scores were generated from the associated questions (e.g., item 2 = 3.04; item 7 = 3.24). The hesitation toward peer review/feedback has been repeatedly reported by the previous research [25]. Meanwhile, regarding the syllabus and course design, the learners had relatively neutral but still positive levels of satisfaction (e.g., item 15 = 3.78; item 14 = 3.73).

Learners' Perceptions toward the Writing Course

After a qualitative analysis of the six open-ended questions embedded in the CSQ was performed, the results were briefly discussed. The first question asked the participants about their preference way in writing nots. Most of the students responded that they preferred writing paper-pen writing. Their responses, for example, included:

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"I can improve my handwriting and memorizing vocabulary. This helpful and useful." (ID.13). When I need a word to express my thought, I can look it up in the dictionary immediately. = and can help me increase the amount of vocabulary effectively." (ID. 7). and the tasks can be revised/proofread/marked efficiently." (ID. 20)

Table 3. Descriptive statistics of the course satisfaction questionnaire.

Mean	Lowest	Highest	Range	Low/High	Variance	Items	Ν	Cronbach'sa	
3.77	3.04	4.25	1.20	1.37	0.106	26	47	0.93	
Item				Questions			Mean	S.D.	
20	I feel that	I have learned mo	re from teachers'	feedback than I	from my class	smates.	4.27	0.75	
22	When I an	n correcting my w	riting, I will take	into account the	e opinions of to	eachers	4.24	0.62	
11	In the pro	cess of writing, I f	eel that I need to	strengthen my	grammar and v	ocabulary.	4.22	0.62	
8	The feedba	ck from the classn	nates is very helpf	ul for my writin	ng improvemen	nt.	4.16	0.62	
12		semester, I have b		9. · · · · · · · · · · · · · · · · · · ·	-		4.14	0.64	
25		nt of classmates' fe					4.08	0.78	
21		the implementation	다 옷에 가지 않는 것 같아요. 아들에 걸 것을 했다.		ara yany halofi	l for our	4.02	0.71	
21	100 million (100 m	er the English clas		Odek activities o	are very neipro		4.02	0.71	
13	Since this	semester, classma	tes have been ver	serious about	writing activity	ies.	4.00	0.64	
23		The design of classmates' feedback is very appropriate.							
26	The amoun	The amount of teacher feedback is very appropriate.							
9		ck from the teache			improvement.		3.92	0.70	
24	The guidar	nce and response o	f the teacher's fee	dback are very	appropriate.		3.90	0.79	
6	I believe it	is important to lea	arn how to accept	writing feedba	ck from others		3.88	0.63	
15	In general,	the implementation	on of writing activ	ities helps me i	improve my Er	nglish writing skills.	3.78	0.62	
14	In general,	the implementation	on of writing activ	ities is very he	lpful for my E	nglish improvement.	3.73	0.63	
3	I really like	to receive writing	feedback and op	inions from the	classmates.		3.71	0.76	
5	I believe th	at learning how to	give feedback to	others' writing	is very import	ant.	3.69	0.79	
4	I really like	to receive feedba	k and comments	from the teache	ar.		3.61	0.72	
16	In general,	the implementatio	n of writing activ	ities is very help	pful for my fut	ure clinical work.	3.59	0.73	
1	It is a very o	demanding and ver	ry difficult learnin	ng activity.			3.59	0.83	
19	Created a g	ood English learni	ng environment.				3.53	0.79	
18	For English	courses, it is very	appropriate.				3.51	0.76	
17	Gave me a l	Gave me a lot of motivation to improve my English.							
10	I have benefi	ited a lot from the	writing feedback	to my classmate	es.		3.29	0.73	
7	The feedback	c from the students	is very helpful fo	or my writing in	provement.		3.24	0.74	
2		o receive writing f					3.04	0.57	

These statements demonstrated not only the learners' insights about this course, but they also revealed that learners of this generation have immense connectedness with the course. They can easily adapt to the use of it [24,26]. In addition, the CNNWC may improve students' writing skills. The second question asked the learners for their perceptions about the peer review activity. Overall, 40% of the students replied that they were not sure whether their peers gave them the right feedback, nor could they (35%) identify others' mistakes. Although had given proper PR training prior to the commencement of the writing tasks [22], the learners' lack of linguistic knowledge

Publication of the European Centre for Research Training and Development-UK still hindered the quality of their feedback [13]. On the other hand, the third question asked learners about the classmate's feedback. Around 60% of the nursing students indicated that the most helpful aspect of the feedback from and teacher was that they could indicate errors precisely and clearly. This was consistent with the findings in the CSQ [7,13].

The fourth question was about the learners' perceptions regarding the eight writing topics. According to the responses, 33% of the learners perceived the fourth topic—colon cancer—to be the simplest. Since colon cancer has become one of the most prevalent cancers in Saudi Arabia, most people are familiar with its symptoms and causes. This topic is quite close to the learners' daily lives, and therefore, the terms used seemed easy to learn. The topic's shorter amount of content also caused the learners to see it as the easiest one. In contrast, 33% of the students believed the second topic—heart attack—was the most difficult one. The patient discussed for that topic suffered from a non-ST-elevation myocardial infarction, had complex clinical symptoms, and underwent various medical treatments. Many medical terminologies had to be used and checked, and the caring plan was rather complicated compared with those for the other topic.

The fifth question asked the learners about their learning strategy when facing difficulties in doing ESP/ENP tasks. A total of 23% of the learners believed they should first enhance their general English competence [5], and 18% suggested utilizing Familiar resources [32]. These two strategies correspond to the previous results indicating that EGP is crucial to the nursing students for ESP/ENP writing and that writing is a preferred way of learning for them [8]. Next, when asked about their "needs" in terms of improving their writing skills, the learners perceived that grammar (46%) and vocabulary (46%) abilities were the most important aspects to be mastered. This was consistent with our previous findings that nursing students in such contexts lack confidence in their grammar and vocabulary competence when doing writing [7]. For the sixth question, in which we asked the students about "how" to ameliorate their writing skills, 54% of the learners answered that they should memorize more English words. The nursing students seemed to agree that sufficient vocabulary, including medical terms rather than grammatical knowledge, was critical for writing a nursing note [11].

Finally, the PACK framework is worth considering when designing an ESP/ENP course, such as the current CNNWC. Pedagogically, the process writing approach is a commonly used teaching method in writing research [23,38]. Contently, the EGP and ESP/ENP is the knowledge to be taught to the nursing students [1,6]. From the pedagogical perspective, the process writing approach conducted in writing is an effective strategy and has been widely discussed in the literature [26,38]. From the content aspect, teaching and learning ESP/ENP/EGP on writing was welcomed by the students and increased their writing performance significantly [26,34]. As to the pedagogically content knowledge integration, the process writing approach applied in ESP/ENP/EGP writing instruction has become a norm in contemporary language studies [13,23]. Comprehensively, integration of the pedagogical content knowledge implemented in this study

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Publication of the European Centre for Research Training and Development-UK revealed the feasibility and effectiveness of this model and corresponds to previous research as well [7,36,37].

Limitations

Five limitations to the methodological design of this study are acknowledged, including the following. Firstly, the study did not include a comparison group due to ethical concerns and the complex components of the Clinical nursing-note teaching. The effectiveness and efficiency of the course thus cannot be further tested through experimental manipulation. Secondly, the convenience sampling strategy can still pose potential hazards in terms of ethical issues and internal validity although the researchers adopted some strategies for avoiding such issues as collecting the data through research assistants located outside the classrooms after giving out the module scores, etc. Thirdly, that most nursing students were females in the researchers' teaching context is a bias regarding gender imbalance, which is another limitation for the research credibility. Fourthly, the overall sample size was rather small such that the findings may not be suitable for generalization. Lastly, nursing students need to achieve a higher level of ESP/ENP proficiency before applying their note-taking skills to the healthcare industry.

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This study demonstrates a comprehensive application of clinical nursing note writing instruction based on the PACK framework knowledge, process writing approach as pedagogical knowledge, and EGP/ESP/ENP as content knowledge. The results suggest an effective model that helped nursing students improve their writing performance in every dimension. The participants had significant improvement in writing during the period between pre-test and mid-test, and they gained more progress in ESP/ENP format than in the EGP format. On the other hand, the nursing students felt moderate satisfaction regarding the course design due to the demanding tasks and peer review activities. They also preferred receiving direct feedback and comments from their teacher regarding linguistic forms and content. As to the level of difficulties, "colon cancer" was

Publication of the European Centre for Research Training and Development-UK mentioned to be the simplest, while "heart attack" was the hardest. In answering how to improve their writing competence, most responded that vocabulary and grammar, as well as general English competence, were crucial skills to be enhanced.

The purpose of this CNWCC is to incorporate as many diverse and interactive learning opportunities as possible in the teaching of large classes. When designing the syllabus, language teachers are advised to accommodate various dimensions in addition to the traditionally cognitive-oriented focus, which was mainly on performance. Dimensions such as background knowledge stimulation, affective factors recognition, environmental creation, positive social interactions, etc., should be considered, too. The goal of the present study is to develop a cognitive process in our students, that is, a norm that enables them to communicate with others through the texts under a common framework perceived by the public. By means of the comprehensive CNWCC, students may construct their cognitive and learning progress through a diversified yet smooth and natural path.

In addition, an advantage of making use of nursing note-taking as a writing tool is to practice writing skills in real work situations. Nursing students are learning the English language differently from in the past. To motivate the nursing students, identifying the need of learning a foreign language in the clinical context is critical. The development of ESP/ENP capability embraces two abilities, which are English linguistic knowledge (EGP) and domain knowledge (nurse profession). The gaps between the EGP and the nurse profession can be bridged via the implementation of CNWCC course. Furthermore, it might still be true that most Saudi nurses "code switch" when they write nursing notes. Code switch refers to the situation in which language users mix two languages when writing. Clinically, Saudi nurses often use medical terminologies in English since the physicians are writing prescriptions and orders in English. English medical terminologies have become the commonly used communication tool among doctors and nurses. However, nurses are expressing general ideas in Arabic because they lack EGP competencies. This phenomenon shows there is room for improvement in English proficiency in the overall nursing profession, and it reveals the reason why this research and its derivative curriculum are important. Future studies including different academic subjects and specific model dimensions based on nursing note teaching are recommended.

REFERENCES

1. Bosher, S.; Stocker, J. Nurses' narratives on workplace English in Taiwan: Improving patient care and enhancing professionalism.Engl. Specif. Purp. 2015, 38, 109–120. [Cross Ref] 2. Shi, L. English for medical purposes. In English for Specific Purposes in Theory and Practice; Belcher, D., Ed.; University of Michigan Press: Ann Arbor, MI, USA, 2009; pp. 205–227.

3. Bosher, S. English for nursing. In The Encyclopedia of Applied Linguistics; Chapelle, C.A., Ed.; Wiley-Blackwell: Oxford, UK, 2013; pp. 1961–1966.

Vol.11, Issue 7, pp. 70-95, 2023

Online ISSN: 2054-636X (Online)

Print ISSN: 2054-6351(Print)

Website: https://www.eajournals.org/

Publication of the European Centre for Research Training and Development-UK

4. Hwang, Y.; Lin, S. A Study of Medical Students' Linguistic Needs in Taiwan. Asian ESP J. 2010, 6, 35–58.

5. Lai, Y.-C. English for Nursing: An Exploration of Taiwanese EFL Learners' Needs. Chang. Gung J. Humanit. Soc. Sci. 2016, 9,27–52.

6. . Lu, Y.-L. What do nurses say about their English language needs for patient care and their ESP coursework: The case of Taiwanese nurses. Engl. Specif. Purp. 2018, 50, 116–129. [Cross Ref]

7. Tai, H.C.; Pan, M.Y.; Lee, B.O. Applying technological pedagogical and content knowledge (TPACK) model to develop an online English writing course for nursing students. Nurse Educ. Today 2015, 35, 782–788. [Cross Ref] [PubMed]

8. Akhu-Zaheya, L.; Al-Maaitah, R.; Bany Hani, S. Quality of nursing documentation: Paperbased health records versus electronic based health records. J. Clin. Nurs. 2018, 27, e578–e589. [Cross Ref] [PubMed]

9. Wang, N.; Yu, P.; Hailey, D. Description and comparison of documentation of nursing assessment between paper-based and electronic systems in Australian aged care homes. Int. J. Med. Inform. 2013, 82, 789–797. [Cross Ref

10. Yu, S.-Y.; Su, S.M.; Chen, L.-F. An Exploratory Study on Establishing a Nursing Note Grammar Scale. J. Chang. Gung Univ. Sci.Technol. 2012, 17, 93–118.

11. Thoroddsen, A.; Ehnfors, M.; Ehrenberg, A. Nursing Specialty Knowledge as Expressed by Standardized Nursing Languages. Int.J. Nurs. Terminol. Classif. 2010, 21, 69–79. [CrossRef]

12. Liu, Q.; Brown, D. Methodological synthesis of research on the effectiveness of corrective feedback in L2 writing. J. Second. Lang.Writ. 2015, 30, 66–81. [CrossRef]

13. Tai, H.C.; Lin, W.C.; Yang, S.C. Exploring the effects of peer review and teachers

Corrective feedback on EFL students' online writing performance. J. Educ. Comput. Res

14. Lee, I. Teacher written corrective feedback: Less is more. Lang. Teach. 2019, 52, 524–536. [CrossRef]

15. Boggs, J.A. Effects of teacher-scaffolded and self-scaffolded corrective feedback compared to direct corrective feedback on grammatical accuracy in English L2 writing. J. Second Lang. Writ. 2019, 46, 100671. [CrossRef]

16. Hamed Mahvelati, E. Learners' perceptions and performance under peer versus teacher corrective feedback conditions. Stud. Educ. Eval. 2021, 70, 100995. [CrossRef]

17. Han, Y.; Hyland, F. Academic emotions in written corrective feedback situations. J. Engl. Acad. Purp. 2019, 38, 1–13. [CrossRef]

18. Tai, H.-C.; Pan, M.-Y.; Lee, B.-O. Effects of attributional retraining on writing performance and perceived competence of Taiwanese university nursing students. Nurse Educ. Today 2016, 44, 66–73. [CrossRef]

19. Crosthwaite, P.; Storch, N.; Schweinberger, M. Less is more? The impact of written corrective feedback on corpus-assisted L2 error resolution. J. Second. Lang. Writ. 2020, 49, 100729. [CrossRef]

Vol.11, Issue 7, pp. 70-95, 2023

Online ISSN: 2054-636X (Online)

Print ISSN: 2054-6351(Print)

Website: https://www.eajournals.org/

Publication of the European Centre for Research Training and Development-UK

20. Karim, K.; Nassaji, H. The revision and transfer effects of direct and indirect comprehensive corrective feedback on ESL students' writing. Lang. Teach. Res. 2020, 24, 519–539. [CrossRef]

21. Han, Y. Written corrective feedback from an ecological perspective: The interaction between the context and individual learners. System 2019, 80, 288–303. [CrossRef]

22. . Min, H.-T. Effect of teacher modeling and feedback on EFL students' peer review skills in peer review training. J. Second. Lang.Writ. 2016, 31, 43–57. [CrossRef]

23. Zhao, H. New insights into the process of peer review for EFL writing: A process-oriented socio-cultural perspective. Learn. Instr. 2018, 58, 263–273. [CrossRef]

24. Chen, T. Technology-supported peer feedback in ESL/EFL writing classes: A research synthesis. Comput. Assist. Lang. Learn.2016, 29, 365–397. [CrossRef]

25. . Kurihara, N. Peer review in an EFL classroom: Impact on the improvement of student writing abilities. Asian J. Appl. Linguist.2017, 4, 58–72.

26. Williams, C.; Beam, S. Technology and writing: Review of research. Comput. Educ. 2019, 128, 227–242. [CrossRef]

27. Lan, Y.J.; Sung, Y.T.; Cheng, C.C.; Chang, K.E. Computer-supported cooperative prewriting for enhancing young EFL learners' writing performance. Lang. Learn. Technol. 2015, 19, 134–155.

28. Henrie, C.R.; Halverson, L.R.; Graham, C.R. Measuring student engagement in technology-mediated learning: A review. Comput. Educ. 2015, 90, 36–53. [CrossRef]

29. Bangert-Drowns, R.L. The Word Processor as an Instructional Tool: A Meta-Analysis of Word Processing in Writing Instruction. Rev. Educ. Res. 1993, 63, 69–93. [CrossRef]

30. Goldberg, A.; Russell, M.; Cook, A. The effect of computers on student writing: A metaanalysis of studies from 1992 to 2002. J.Technol. Learn. Assess. 2003, 2, 1–51.

31. Al-Samarraie, H.; Saeed, N. A systematic review of cloud computing tools for collaborative learning: Opportunities and challenges to the blended-learning environment. Comput. Educ. 2018, 124, 77–91. [CrossRef]

32. Wu, W.-C.V.; Yang, J.C.; Scott Chen Hsieh, J.; Yamamoto, T. Free from demotivation in EFL writing: The use of online flipped writing instruction. Comput. Assist. Lang. Learn. 2020, 33, 353–387. [CrossRef]

33. Silvernail, D.L.; Gritter, A.K. Maine's Middle School Laptop Program: Creating Better Writers; Maine Education Policy Research Institute: Gorham, ME, USA, 2007; p. 14.

34. Noer, R.Z.; Al Wahid, S.; Ferranti, R. Online lectures: An implementation of full elearning action research. J. Prima Edukasia 2021, 9, 65–74. [CrossRef]

35. Mishra, P.; Koehler, M.J. Too cool for school? No way! Using the TPACK framework: You can have your hot tools and teach withthem, too. Learn. Lead. Technol. 2009, 36, 14–18.

36. Rodríguez Moreno, J.; Agreda Montoro, M.; Ortiz Colón, A.M. Changes in teacher training within the TPACK model framework: A systematic review. Sustainability 2019, 11, 1870. [CrossRef]

37. Ammade, S.; Mahmud, M.; Jabu, B.; Tahmir, S. TPACK model-based instruction in teaching writing: An analysis on TPACKliteracy. Int. J. Lang. Educ. 2020, 4, 129–140. [CrossRef]

Vol.11, Issue 7, pp. 70-95, 2023

Online ISSN: 2054-636X (Online)

Print ISSN: 2054-6351(Print)

Website: https://www.eajournals.org/

Publication of the European Centre for Research Training and Development-UK

38. Åberg, E.S.; Ståhle, Y.; Engdahl, I.; Knutes-Nyqvist, H. Designing a website to Support Students' Academic Writing Process. Turk.Online J. Educ. Technol.-TOJET 2016, 15, 33–42.

39. Sheen, Y. Introduction: The role of oral and written corrective feedback in SLA. Stud. Second. Lang. Acquis. 2010, 32, 169–179. [CrossRef]

40. Editors. Nursing English for Pre-Professionals; LiveABC: Taipei, China, 2016.Educ. Sci. 2022, 12, 223 23 of 23

41. Wu, J.R. GEPT and English language teaching and testing in Taiwan. Lang. Assess. Q. 2012, 9, 11–25. [CrossRef]

42. Renz, S.M.; Carrington, J.M.; Badger, T.A. Two Strategies for Qualitative Content Analysis: An Intramethod Approach to Triangulation. Qual. Health Res. 2018, 28, 824–831. [CrossRef]

Appendix A. Teaching Schedule of Clinical Nursing Note Writing

Week	Teaching Progress	Writing Task	Note		
1	Course introduction	Nursing note-writing pre-test (prostate enlargement)			
2	Introductory session to nursing note writing (grading criteria, essay presentation, common mistakes, etc.) and other peer feedback form description and training.	Peer feedback examples and trials	 4 people in a group, choose a group leader as the 		
3 4 5	Topic 1: Gastroenterology	Cirrhosis of the liver PR Feedback (first draft) PR Feedback (draft amendments)	 After class, students engage in peer feedback and collaborative 		
6 7 8	Topic 2: Cardiovascular	Heart disease PR Feedback (first draft) PR Feedback (draft amendments)	 learning online. The writing process is recorded online. Participation in the approximated 		
9 10	Mid-term exam Video: spring in the emergency room	Nursing record-writing mid-term test (diabetes)	 Participation in the process and composition will be counted as 10% of the semester grade. Essays are submitted to peers and 		
11 12 13	Topic 3: Thoracic	Tuberculosis (TB) PR Feedback (first draft) PR Feedback (draft amendments)	 teachers for review online. Teachers give group or individua feedback online. 		
14 15	Topic 4: Orthopedics	Colon cancer PR Feedback	 Teachers give feedback online as appropriate. 		
16 17	Topic 5: Breast Surgery Department	Breast cancer PR Feedback			
18	Final exam	Nursing note-writing post-test (stroke)	Writing course feedback questionnair		

Table A1. Teaching schedule of the CNNWC.

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	Words.	Spelling	<u>itre for Researd</u> Punctuation	ch Training and Dev Nursing Record	<u>elopment-L</u> _{Other}
Content	(Including the Use	and Capital-	Special	General	Total
	of Technical Terms)	ization	Grammar	Grammar	Score

Appendix B. Peer Review Form for ESP/ENP Writing

Table A2. Nursing note writing peer review form.

	Topic: Name of peer reviewer:			ter's name: at number:		_ Seat numbe Review Da	er: ate:	(2023)
	-	e: (0	to 5 point)					、
	No.		Review Items					Initial Draft
						Yes	No	Suggestions
				Conten	t:			
(1)	The	writing	completely	/ e	xpressed	the	care	situation
(2)	Т	The	content	is		organized		smoothly
(3)	The	description	is is	clear	and	easy	to	understand
Word	ls			and				spelling:
(4)		Vocabulary		was		used		correctly
(5)		Wo	rds		spelled	1		correctly
(6)	Т	echnical	terms		were	used		correctly
Punct	tuation		and		ca	pital		words:
(7)		Abbreviation	15	were		correctly	/	used.
(8)	Prop	per no	uns a	nd	names	were	e	capitalized.

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(9)		Comma	as			corre	ctly				used
(10)	Periods	used		at	the	6	end		of		sentences.
Table				A	.2.						Cont
(11)	A	void		using		S	audi			pu	inctuation.
(12)	Capitalize	e the		first	V	word	in		a		sentence.
Nursin	g Note	Gram	mar:	Т	he	writer		is		able	to.
(13)	The writer	is able	to	omit	the	subject	in	a	senten	ce	correctly
(14)	Omit	the	obje	ct	in	a		sente	ence		correctly.
(15)	Omit	the	subje	ect	and	l ti	he		verb		correctly.
(16)	Omit	the a	article	C	orrectly	/ (e	.g.,	:	a	or	the).
(17)	Omi	it	the		be	2	V	verb			correctly.
(18)	Omit	the		passiv	ve	be		ve	rb		correctly.
(19)	U	Jse	1	he		imp	erativ	e			correctly.
Other				gener	al						grammar:
(20)	The	V	vriter		uses	6	pł	irases			correctly
(21)	The	write	er	us	es	ten	se		corre	ct	y.
(22)	The writ	er adds	"s"	to	the	e thir	d-pers	son	sing	ular	verbs,
(23)	Use	pronou	ns	(no	ominati	ve/posses	sive/c	qualif	ier)		correctly
(24)	Adding	"s"		to		plural		cour	ntable		nouns.

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(25)	Use	I	prepositions	correctly
(26)	Use		adverbs	correctly
(27)	Use		adjectives	correctly.
(28)	Use	auxiliary	verbs	correctly.
(29)	Any	other	unlisted	errors

The most appreciated student of this clinical nursing note-writing task and reasons

Suggestions	or	comments	by	the	teacher:

Note: 1. Reviewers should try their best to help their peers find errors as much as possible. 2. Please check "Yes" if do not find any mistakes in each item. 3. Check "No" if you find any mistake in each item. 4. Before each scoring item "label", students can make good use of filling in the essay in order to facilitate identification. 5. In the "suggestions" column, please provide suggestions as far as possible according to the error. 6. Give an appropriate overall score according to the GEPT criteria. 7. Finally, don't forget to give your classmates some applause and encouragement; write some good points. 8. Please do not fill in the "suggestions or comments by the teacher or, teachers complement deficiencies.

Appendix C. Learners' Perceptions about the Writing Course **Table A3. The Course Satisfaction Questionnaire**

1.For Clinical nursing note writing: Do you prefer pen writing?	
Prefer ———— not prefer	
Reasons:	
2. What do you think of the ratings and design of peer feedback?	
(1) The difficulty of peer feedback:	
(2) How to overcome this difficulty:	
3. For the feedback of "writing teacher and peer", you think:	
(1) Helpful:	
(2) Difficult:	
(3) How to overcome this difficulty:	
4 Which nursing note do you think is the easiest? Which one is the hardest? Why?	1

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(1) The easiest:			-	
Reasons:	(2) 7	The hardest:		Reasons:

5. In your clinical nursing note writing, what do you think you can improve on?

And how? ____

6. Finally, do you have any relevant suggestions for this semester's clinical nursing note-writing course

Appendix D. Learners' EGP Test Scores (School Quiz, Midterm, and Final Tests) Table A4. The nursing students' EGP performance during the research period.

Seat No.	Quiz	Midterm	Final Test	Seat No.	Quiz	Midterm	Final Test
1	100	84	85	27	99	94	83
2	100	85	84	28	100	65	82
3	95	68	85	29	100	83	84
4	100	54	58	30	95	81	83
5	100	88	77	31	100	94	93
6	100	93	92	32	95	78	68
7	82	84	84	33	100	92	96
8	96	78	86	34	93	60	70
9	97	89	27	35	98	72	84
10	93	71	45	36	100	85	88
11	99	76	84	37	87	63	84
12	89	95	92	38	87	90	85
13	100	91	94	39	98	75	70

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14	100	92	93	40	99	88	85
15	50	63	64	41	95	77	74
16	100	73	66	42	99	93	100
18	97	87	91	43	99	95	94
19	100	67	68	44	99	87	80
20	99	78	87	45	100	83	67
21	95	87	86	46	100	94	95

Table A4

22	100	84	87	47	91	92	96
23	99	89	95	48	99	87	93
24	99	86	94	49	100	97	99
25	100	83	86	Mean	95.13	81.84	81.96