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Original Article

A qualitative analysis of radiation therapy students' professional placement journals

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Abstract

Purpose: Student experience on clinical placement is not well captured with traditional program evaluation tools. This study aims to complete a qualitative analysis of the reflective clinical journals completed during professional placement by radiation therapy (RT) students in order to uncover the issues that affect students on placement and how these change as the student's progress through the program.

Materials and methods: A qualitative descriptive analysis (QDA) was undertaken on the descriptive content of student journals completed by 97 students over 3 consecutive years while undertaking professional placement in Radiation Oncology Treatment Centres within Australia. Two coders used a QDA sourcebook specifically designed for the research to independently analyse the descriptive content of the reflective journals for four main categories and 18 subcategories.

Results: The result revealed a statistically significant increased tendency to discuss clinical environment and a decreased tendency to discuss the patient, $92 \cdot 9 - 12 \cdot 5\%$ (coder 1) and $85 \cdot 7 - 18 \cdot 8\%$ (coder 2), as they progressed through the program.

Conclusions: The results of this study showed some similarities with studies completed in other health professions; however, the breadth of issues explored within the content of these RT student journals demonstrates the true diversity of the RT student experience on professional placement.

Keywords: qualitative analysis; radiation therapy; student journals

INTRODUCTION

Most universities offering health professional programs have two primary components in both undergraduate and post-graduate programs. These two components combine the factual or

academic component, that provide the scientific and theoretical basis of the profession, and the professional or clinical component of each profession.

The experiences and issues students face when undertaking each of these components can vary significantly. Many tertiary institutions have formative and summative feedback mechanisms in place that provide information

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on the student experience in the academic component of their programs. Providing feedback on the experiences of students during their professional placement can be more difficult as the experience may vary significantly from program to program, from one clinical site to another and from student to student.

There is a vast range of literature that discusses those issues and experiences that have been known to affect health professional students during their professional placement. Issues that confront students on placement include developing and managing patient interaction and empathy attitudes and skills, managing on the job learning and the development of practical skills, developing professional knowledge and awareness, as well as concepts linked to making the theory-practise connection. Most of the research related to these outcomes has come from the study of students in the professions of nursing, physiotherapy, medicine and dentistry. 1-7 There is a lack of published literature that focuses specifically on the professional placement experiences of radiation therapy (RT) students.

The environment in which radiation therapists routinely work varies greatly from that associated with other allied health professions. The large technical role and its state of rapid and ongoing change is coupled with a highly challenging humanitarian care givers role, which combined creates a unique environment for radiation therapists to work and learn in. Radiation therapists work in an intimate and unique team environment, relying on colleagues for not only professional competence but also for professional and emotional support. Hence, it is extremely problematic to generalise the findings of studies in health professions that work in a different way with the experience of RT students while on professional placements.

At the University of Newcastle, Australia, within the Bachelor of Medical Radiation Science (RT) (BMRS-RT) program, students are required to complete 25 weeks of professional placement in a clinical facility over five placement periods. During each of these placement students are required to complete a range of written reports, one of which is a Personal Reflective Journal. This

journal is an unguided freeform journal and is assessed formatively to provide information sharing between the university staff and the student about their insights and reflections during professional placement. Part of the information that is provided to students about this task includes the following instructions:

Write a report assessing your achievements and progress in this block. Include new or different techniques you took part in or observed, your progress in communication skills and team work, any problems you experienced and how you feel these could be addressed. Do not make this a critique on the centre but address it to your own personal performance⁸ [p. 16].

These Personal Reflective Journals are a great source of feedback and insight into the experiences of RT students while undertaking professional placement. The journals, however, have only ever been read for the feedback they may contain to inform the academic staff who monitor the students during and after placement. This information is used to further support students during debriefing sessions held after professional placement where professional placement issues are discussed globally with the entire cohort. The journals have not been, until this research, subject to a research-led review and analysis.

The research reported in this paper aims to

- 1. Complete a qualitative analysis of the personal reflective journals of RT students completed during professional placement to uncover the issues that affect students on placement.
- 2. Investigate how the issues identified within the journals may vary as students progress through the program.

METHOD

Participants and setting

This study included the reflective journals (text-based unstructured freeform journal entries) from a cohort of RT students at the University of Newcastle, Australia. The reflective journals were completed during all five professional placements over the 3 years of the program,

and they were collected with the written informed consent of each. The journals were de-identified for the purposes of all reading and analysis within this research, and they were not traceable in relation to students or the clinical centres attended by the students. The study was approved by the University of Newcastle, Australia, Human Research Ethics Committee.

Methodological framework

A qualitative descriptive analysis (QDA) is the methodological framework of choice for the qualitative analysis of the written journal entries. QDA is derived from naturalistic inquiry research methods, with the analysis attempting to remain as close to the data as possible, with very little interpretation applied to the data to be analysed. Because of the predetermined, de-identified and non-traceable nature of the data, a phenomenological or narrative inquiry approach was not suitable. Following the principles of a QDA, a descriptive content analysis was undertaken on the sample of journals used within this study.

Sampling techniques

Purposeful sampling was utilised to define an appropriate sized sample for analysis of the student journals. Purposeful sampling was achieved by the researchers reading all the journals and highlighting the useful reflective information provided in each of the journals, as well as reflecting on the journal entry in its entirety. For ease of journal and data management, a comment both qualifying and quantifying the level of descriptive content in the journal, from low to moderate to good, was recorded on the top cover of the journal. If the entry provided little to no insight into the clinical experience of the student on placement, then the journal was removed from the sample and discarded from the QDA section of the project.

Sourcebook development

Essential to descriptive content analysis is a well-written sourcebook and worksheet that facilitate the coding of categories of description of student reflections that are uncovered from the reading of the individual journals. The categories of

description of professional placement were derived by the authors from their qualitative review of the journals. A sourcebook was developed, which included the framework of major categories of description and subcategories of each category to be coded (Table 1), a coding guide, and coding instructions. The hard copy worksheet consisted of a simple table that allowed coders to document each subcategory when it was identified within the text. Full details of the sourcebook development are available in a previous publication.⁹

Coder training

Two coders were recruited to independently code the journals. Coder one was a 22-year-old female radiation therapist, and coder two was a 23-year-old male radiation therapist. Both coders were currently working in Radiation Oncology Centres within Australia, and both had completed degrees in RT in 2006. Both had used reflecting journaling when students within their degree.

Training consisted of orientation to the source-book and worksheets, discussion concerning the importance of the bracketing of their own preconceptions to the research and research outcomes, and discussion concerning confidentially and the requirement to maintain independence from each other when coding the journals. The training ensured that the coders were fully aware and understood the variables of the study and the measures to be used, however, they were intentionally kept unaware of the aim or purpose of the research so as to reduce the risk of coding bias.

Initial coder training involved five student journals being randomly selected and both coders coding the journals. The level of agreement of the initial coder training was assessed using κ co-efficient and absolute agreement. κ coefficients were calculated using STATA 11 by StataCorp. Coder training also involved open discussion about the coding system being used and discussions about changes to be made to the coding system.

No revision of the sourcebook was required as a result of the initial coder training. A second round of pilot coding was repeated on another randomly generated sample of 12 journals,

Table 1. Rules governing the QDA coding process (exert from Sourcebook)9

OtherQDA Sourcebook Journal Analysis

Coder Name:	At the top of the coding worksheet place your name in the provided space		
Participant name: At the top of the worksheet place the participant ID for the journal you are about to code eg 2003-10			
Worksheet:	A new worksheet is to be used for each journal coded.		
At completion:	After completing the coding, all journals and worksheets are to be returned to the researcher		

Personal

Category Groups	Clinical Environment	development in the profession	View of the Profession	The patient	
	Department Structure	5. Professional growth	13. Teamwork	15. Quality of Life	
	2. Life style	6. Emotions	14. Other	16. Patient pathways	
	3. Equipment	7. Enjoyment/Job satisfaction		17. Building relationships	
Key Themes	4. Other	8. Communication		18. Other	
		9. Confidence			
		10. Judgements			
		11. Technical learning			
		12. Other			
Coding guide/ dictionary:	ideas as to what concepts, topics or subjects may be found in each category. The final column titled, Words, Phrases and Comments, provides the you .with some words that may be associated with a concept, quotes that demonstrate a concept from the journal, and instructions that will assist coding text in each category. The concepts, words and phrases provided in this guide are not exhaustive. If you identify elements of the text that represent any of the 18 categories regardless of whether it is mentioned in the concept and phrases guide, code it accordingly.				
	Before reading each journal, label a new QDA worksheet with your name and the participant number found at the top right hand corner of the journal. Then read the journal in full. Re read and code the journal one, paragraph at a time.				
Coding Instructions:	As you read each journal identify words, phrases or concepts that represent any of the 18 categories listed above. Find the row that the identified category occupies on the worksheet then in the first column annotate the page and paragraph that the text is located in. For example if the text is on page 1 paragraph 4, write down 1.4. Additionally highlight the text coded and also document the category number in the right hand margin of the journal. Each unit (phrase, sentence, paragraph) can only represent one category on the worksheet.				
	If a category is identified more than once simply repeat the documentation process as described above each time you identify it in the text.				

excluding the initial five journals used. Again inter-coder reliability was again assessed using κ and absolute agreement, providing pilot inter-coder reliability results.

Journal analysis

The unit of data to be evaluated were the text response of students structured into sentences

and paragraphs within the journals. The journals could contain a single or multiple units (words and sentences) that represented one of the major categories or subcategories of description within the framework.

The two independent coders completed the descriptive content analysis of the journals. The coding was governed by a set of rules outlined in the QDA sourcebook (Table 1).

The results of the analysis were entered into an excel spreadsheet and descriptively analysed across the four developed major categories of description determined by the authors, these being reflections about

- the Clinical Environment;
- Personal Development within the Profession;
- the View of the Profession; and
- the Patient

as well as the 18 subcategories of description. Results were entered into a contingency table and χ^2 analysis was undertaken to identify the

- a. Statistically significant differences in the evidence of each category and subcategory as the students progressed across the 3 years of the program.
- b. Statistically significant linear trend in the evidence of each category and subcategory as the students progressed across the 3 years of the program.

Following the completion of the coding inter-coder reliability, statistical analysis was completed over the entire sample for each category and for all categories combined, providing final validity results for the QDA. Absolute agreement was also calculated for all categories and subcategories between the coders.

RESULTS

Sample size

The original sample size of 97 Personal Reflective Journals was subject to the purposeful sampling process described earlier in the 'Methods' section. The total number of journals

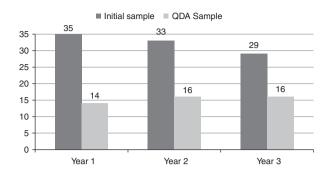


Figure 1. Distribution of the number of journal entries over the years before and after the purposeful sampling.

included in the final analysis was reduced to 46 following the purposeful sampling, with 14 year 1 journal, and 16 years 2 and 3 journals (Figure 1).

Coder training

This initial coder training provided an absolute agreement across the four major categories of description and 18 subcategories of 80% with both sets of analysis being statistically significant (where p < 0.05). A κ co-efficient of 0.69 (p < 0.001) for the four major categories of description, and 0.53 (p < 0.001) for the 18 subcategories, was achieved during initial coder training.

Pilot coder training on the 12 randomly selected journals had an absolute agreement of $60\cdot3\%$ and a κ co-efficient of $0\cdot49$ ($p=<0\cdot001$) across all four categories. For the 18 subcategories, absolute agreement of $73\cdot1\%$ and a κ co-efficient of $0\cdot48$ ($p=<0\cdot001$) were achieved.

Coding results

A rich description of each of the categories and subcategories was identified within the journal text analysis. Table 2 shows examples of the journal entries completed when students discussed each of the categories and subcategories within the coding sourcebook from across varying years of the program. The QDA identified the percentages of students that discussed each of the categories as they progressed from year 1 to year 3 of the program (Figure 2).

Table 2. Example of student's descriptors for both the categories and subcategories

Category	Subcategory	Example 1	Example 2
Clinical Environment	Department Structure	'I was surprised to learn how many patients the RT(s) put through in a day, they were constantly run of their feet. I didn't expect the pace of the work' (0110)	'.I was on the older machine in the mornings and back in planning in the afternoon. I could only work on the 600c in the mornings because this is the only time that it is treating patients as there was not enough staff to keep it operating all day.' (0221)
	Lifestyle	'Apart from being sick for 2 days, and having accommodation worth \$85 a night, I enjoyed my time' (0101)	'I was very tired by the end of this second week from travelling' (0221)
	Equipment	The first two weeks of my placementwas spent in treatment on LA1. I had never used Varian machines before so this was something new I had to learn.' (0302)	'One is a Varian 600 and the other a Varian 2100, the 600 was the one that I was on firstwhilst the 2100 was a dual energy machine with electrons dealt with all electron boosts' (0321)
Personal Development in the Profession	Professional Growth	'I did however get a better understanding of tangential fields and assisted in planning a four field pelvis that was simulated with a manual outline.' (0111)	'Another method of becoming more involved was when the patient was in the bed to position myself so that I would be in a location to do the straightening and levelling.' (0201)
	Emotions	'This clinical was the first time I experienced a patient die that I had treated, it was upsetting to hear as I did not think she would die so soon. But I realised thatI could deal with it, I could grieve for the loss but not get too attached, that it affected my job but more importantly my life outside of work.' (0203)	'The most draining and difficult situation was a patient starting treatment, her emotions flowed freely, crying uncontrollably. I have never come across anything like that and it was hard to control my emotionsI felt I wanted to cry with her.' (0102)
	Job Satisfaction/ Enjoyment	'This clinical had reaffirmed my choice in wanting to become a Radiation Therapist.' (0102)	'This clinical block has been very successful for me and I have enjoyed it.' (0321)
	Communication	'I felt I learnt most about how to communicate with patients and the way in which each individual reacted differently to their illness.' (0108)	'I felt that my biggest progress this clinical block was in communication skills with patients. I felt I took a more active role with patients and was able to see and talk to them in a variety of settings.' (0304)
	Confidence	I think my lack of confidence in other clinicals was due to not understanding what was happening a lot of the time.' (0214)	'I found this week to be very productive as I had enough confidence to be involved in all CT and simulation procedures.' (0323)
	Judgements	I found it really hard at first in simulation as we have not really done anything on it at uni. I feel we need to have more practice or an explanation of the simulation procedure at uni before we go on prac.' (0201)	'From my clinical experience I have seen a range of different technologies, procedures and patient cases and difference centres opinions on dealing with skin care. I have noticed there are many differences as well between centres' (0304)
	Technical Learning	'In the middle of the second week I gave my first tattoo. They all turned out fine.' (0201)	'I was shown how to develop films, which soon became my daily duty along with labelling.' (0127)
View of the Profession	Teamwork	'I was shown through chemo andthis was very helpful and helped to put into perspective the roles of chemo and RTand the importance of the two departments working together.' (0312)	'Also through becoming more confident in techniques I was able to participate more in teamwork, I think that other therapists also accepted me as part of their team.' (0201)
The Patient	Quality of Life	The patient was clearly distressed by the treatment and I believed along with the other radiation therapists that the treatment was causing the patient more distress than was justifiable in terms of the benefits of treatment. (0213)	'One of the most satisfying aspect of being on treatment is the patient therapist interaction. It is very rewarding knowing that you have the ability to make someone's quality of life a little better.' (0225)

Table 2. Continued

Category	Subcategory	Example 1	Example 2
Patient Pathways	'Also throughout my clinical experience I visited several other areas that were relevant in gaining an overall understanding of what the oncology patient experiences.' (0129)	Time spent in the patient clinics was of great benefit to me because I felt that I gained a greater understanding of the patients path to diagnosis.' (0210)	
	Building 'This clinical was very rewarding, not onl Relationships from a learning view, but also form developing friendships with patients.' (0215)	'Getting to know patients and learning about aspects of their lives is important when you are part of the treatment team, because the patient must be able to feel that they can trust their therapist.' (0225)	

Code 0110 means year 1 student 10, 0221 year 2 student 21 and 0302 year 3 student 2.

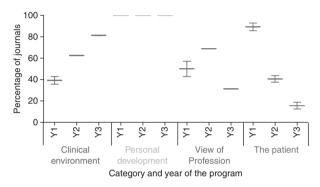


Figure 2. Box and Whisker plot showing the percentage of students that wrote about each of the four categories, broken down by years of the program (data combined for both coders).

There was a significant increasing tendency for students to discuss the Clinical Environment more as they progressed through the five professional placements, $35 \cdot 7 - 81 \cdot 3\%$ (coder 1, first to third year) and $42 \cdot 9 - 1 \cdot 3\%$ (coder 2, first to third year). Both coders results demonstrated a statistically significant linear trend in the increasing incidence of this category as the student moves from year 1 to year 3 of the degree (coder 1, p = 0.01, coder 2, p = 0.03).

There was also a significant decreased tendency to discuss the Patient, $92 \cdot 9 - 12 \cdot 5\%$ (coder 1) and $85 \cdot 7 - 18 \cdot 8\%$ (coder 2), as they progressed through the program. A statistically significant difference (coder 1, p < 0.001; coder 2, p = 0.001) and linear trend (coder 1, p < 0.001; coder 2, p = 0.001) was identified in the number of students discussing this category within their clinical journals.

All students discussed at high levels their Personal Development in the profession through every year of the program, and the discussion about the View of the Profession varied across the 3 years of the degree.

The analysis of the 18 subcategories and the percentage of students that discussed these in their journals over the 3 years of the program was calculated. Both coders indicated students increasingly commented on the clinical centre's department structure as they progress through the program, $14\cdot3-81\cdot3\%$ (coder 1) and $28\cdot6-75\cdot0\%$ (coder 2). There was a decreased trend to comment on the lifestyle impacts of professional placement from 1st to 3rd year $21\cdot4-6\cdot3\%$ (coder 1 and 2).

In the category of personal development within the profession, both coders identified an increasing occurrence of comments on professional growth, 85·7–93·8% (coder 1) and 64·3–93·8% (coder 2), and making judgements, 14·3–68·8% (coder 1 and 2, first to third year). Within the same category, a decreasing trend in discussing job satisfaction and enjoyment, 100–87·5% (coder 1) and 100–37·5% (coder 2) were evident. The journals revealed that students discussed the concepts surrounding teamwork more in year 2, than in other years of the program (coder 1, 42·9% year 1, 68·8% year 2 and 31·3% year 3 and coder 2, 57·5% year 1, 68·8% year 2 and 31·3% year 3).

In the Patient category, the subcategories of patient pathway and building relationship

decreased in frequency within the journals as students moved through the program; patient pathways, 64·3–12·5% (coder 1) and 42·9–6·3% (coder 2); building relationships, 78·6–0% (coder 1) and 64·3–6·3% (coder 2).

Of these changes the subcategories of 'Department Structure', 'Confidence' and 'Judgements' showed a statistically significant change in their incidence within the journals and also a statistically significant linear trend increasing as the students progressed through the program. While the subcategories of 'Enjoyment/Job Satisfaction', 'Patient Pathways' and 'Building Relationships' also showed a statistically significant decrease in incidence as students progressed through the program.

Table 3. Inter-coder reliability between coder 1 and coder 2, broken down into absolute agreement and κ co-efficient for the four categories

Category	Absolute agreement (%)	κ	<i>P</i> -value
Categories combined 1. Clinical Environment 2. Professional Development	86.96	0.71	<0.001
	84.78	0.68	<0.001
	100	*	*
3. View of the Profession 4. The Patient	78.26	0.57	<0.001
	84.78	0.70	<0.001

^{*}Too few categories to calculate.

Coder agreement

Absolute agreement between the coders was good to excellent (73·9–100%; Tables 3 and 4) for both the four categories and 18 subcategories, excluding the subcategory of 'Communication' (58·7%). The κ co-efficient illustrated good to very good agreement across the four categories 0·57–0·71 (Table 3). Despite the good absolute agreement within the 18 subcategories, the κ co-efficient displayed a range of values from 0·00 to 1·00 (Table 4).

DISCUSSION AND CONCLUSION

Reflective journal analysis

This study showed that as RT students progressed through the program, the issues that they found important and document in the professional practice reflective journals varied the most in relation to the clinical environment they are working within and issues to do with patients. As they progressed through their program students discussed their clinical environment more, and they discussed patients less. In relation to their personal development within the profession and their view of the profession, their discussion of this remained mostly unchanged across their degree.

Table 4. Inter-coder reliability between coder 1 and coder 2, broken down into absolute agreement and κ co-efficient for the 18 subcategories

Subcategory	Absolute agreement (%)	κ	<i>P</i> -value
Subcategories combined	86.09	0.71	< 0.001
1. Department Structure	82.61	0.65	< 0.001
2. Lifestyle	100	1.00	< 0.001
3. Equipment	84.78	0.44	0.001
4. Other (Clinical Environment Category)	100	*	*
5. Professional Growth	84.78	0.38	0.01
6. Emotions	76.09	0.02	0.46
7. Enjoyment/job satisfaction	73.91	0.16	0.06
8. Communication	58.70	0.16	0.13
9. Confidence	78.26	0.56	< 0.001
10. Judgements	91.11	0.82	< 0.001
11. Technical learning	93.33	0.00	< 0.001
12. Other (Professional Development Category)	100	*	*
13. Teamwork	78.26	0.56	< 0.001
14. Other (View of the Profession Category)	100	*	*
15. Quality of Life	86.96	0.50	< 0.001
16. Patient pathways	82.61	0.14	< 0.001
17. Building Relationships	80.43	0.56	< 0.001
18. Other (the Patient Category)	100	*	*

^{*}Too few categories to calculate.

This variation is not unexpected; often during the 1st year of professional placement, students are confronted for the first time with the hospital environment and the concepts of illness, quality of life and dying. The decrease in this content during the program may be due to a shift of focus for the students towards more technically orientated concepts, or it may be a sign of developing professional resilience with the increased exposure to the health-care setting. Although this trend is not unexpected, it does require further investigation.

This finding should prompt universities to align the 'actual curriculum' being delivered with the students' needs, to support the 'workplace learning' that occurs on professional placement. It is therefore important that early in the degree program, students are provided with information and activities that support the patient focused learning that occurs in these initial professional placements. This will assist in preparing students emotionally, ethically and morally for 'workplace learning' that occurs at this stage. A lack of alignment in the 'actual curriculum' and the 'workplace learning' that occurs could have a significant impact on student skill development. For example, a program that is solely technology focused in the early stages and hence poorly aligned with the heavy patient focus of the workplace learning component, may risk underdeveloping the patient-focused skills of students. At the same time, it is important for universities to review the teaching and assessment mechanisms within degree programs to ensure that both are aligned with a patient-centred focus for the entire duration of the program. This will assist students in developing technical competence while maintaining continual patient focus.

The increased incidence of discussion surrounding the 'Clinical Environment' may be as a result of increased technical knowledge and ability to critique the clinical centres they attend.

No conclusion can be drawn as to whether the decrease in incidence of 'job satisfaction' as a category is an actual decrease in job satisfaction or simply a lack of incidence within the journals. Early in the program, students discussed 'job satisfaction' and satisfaction with the choice of program they were undertaking. As students progress, should we expect to see this change or is continuing in the program a sign of satisfaction with the chosen career path? During professional placements, students are subject to continual clinical supervision and academic constraints, should we more expect to see an increased incidence of job satisfaction and level of satisfaction once students graduate and the full scope of practice is realised? Individual and anecdotal feedback from final year students support this idea as they report frustration with the level of autonomy students can be afforded on professional placement and the eagerness to be working in a qualified capacity. This requires further investigation with the current RT cohort and recent graduates as it has obvious implications for career longevity and staff numbers.

Although studies in other health professions have not tracked the changes in issues facing students, similarities can be drawn between the emergent themes and the categories used within this study. Previous studies involving, dentistry, physiotherapy and medicine students have all identified content similar to that included in 'Personal Development in the Profession' category. Only the work of Boyd² and Pitkala and Mantyranta clearly identify 'The Patient' as an emergent category in their research of medical students. With Williams and Wilkins, physiotherapy students showed strong similarities with the category 'View of the Profession.'

Although the results of this study show similarities between the RT cohort and other allied health disciplines, the breadth of issues documented by RT students range from highly technical and environment focused to issues of empathy and grieving, illustrating the truly diverse and unique nature of the profession.

Coder agreement

The good to excellent absolute agreement between the coders for the categories and subcategories supports the well developed and validated sourcebook. Although the κ coefficients for the four categories showed good to very good agreement (0.57–0.71), there was a large variation in the values obtained for the 18 subcategories.

This phenomenon can be explained by the fact that it is not always accurate to conclude that a poor κ indicates poor inter-coder agreement. Prevalence of a category within a data set can effect the resultant κ coefficient. This can be illustrated when you consider the κ value for the subcategory of 'Emotions' ($\kappa = 0.02$) and 'Technical Learning' ($\kappa = 0.00$) where the absolute agreements for 'Emotions' was good (76.09%) and 'Technical Learning' was excellent (93.3%).

This study has demonstrated the diverse and unique range of experiences and issues that RT students are exposed to during professional placement. The study has highlighted the need for further investigation into graduating students' levels of job satisfaction and the level of students' actual patient-centred practice during the degree program. It has confirmed that when analysed, Personal Reflective Journals can be a rich source of feedback for universities and clinical centres on the experiences that affect students.

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