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A qualitative study of perceptions of professionalism amongst radiography students

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Radiography

Introduction

It is only since the turn of the 21st century that professionalism in medical and healthcare professions has been discussed extensively partially due to concerns over reported unethical, illegal and unprofessional physician behaviour in the USA¹ as well as high profile cases in the UK² and elsewhere.³ The recognition that concepts of medical professionalism have to evolve in tune with the collaborative nature of modern healthcare, involving all healthcare professions (including radiography), has led to the notion of “professionalism in modern healthcare” as the prevailing trope.⁴

Students being novice radiographers undergo ethical enculturation⁵ into the profession through a variety of experiences in different educational environments to gain an understanding of professional expectations. Their perceptions of professionalism and the factors influencing their professional development are related, to some extent, to their own personality and attitudes.^{6 and 7}

Professionalism is now an integral part of the radiography curriculum in many countries although research on radiography student perceptions of professionalism and the factors influencing their perception development has been limited. For this reason, it was felt timely to explore the perceptions of professionalism amongst radiography students in Estonia. To achieve the determined study, four objectives were specified for exploration: perceptions regarding the nature of professionalism; perceptions of unprofessionalism; the development of professionalism; perceptions regarding student developmental needs.

Literature review

Professionalism can be thought of as a belief system or an ideology although it is not well defined either ‘methodologically or conceptually’¹⁰ because of the “*numerous complexities, connotations and nuances*”¹³ associated with the term.^{7, 8, 9 and 10} No amount of discussions has made a definition of professionalism clear to all professions^{4, 11 and 12} including the allied health professions (AHPs).⁷ While the word is used extensively in diverse situations, as Swick notes ‘*it is easy to recognise but difficult to define*’.¹³

Studies and reports of perceptions of professionalism by non medical staff found that interpretations of professionalism encompassed many and varied aspects of behaviour, communication and appearance.^{7, 14 and 15} The research study by the Health & Care Professions Council (HCPC) on professionalism found that the participants, educators as well as students, perceived professionalism as both a holistic concept linked to good clinical practice and a set of specific appropriate behaviours. It also identified professionalism not as an absolute but constructed in the interaction of individual and context.⁷ Context dependency has been seen to affect individuals' perceptions of professionalism.^{11, 16 and 17} This understanding of contextual variables is reinforced by a number of research studies involving AHPs.^{7, 18 and 19}

Whiting notes that within the radiography profession the perception of professionalism has been seen as a multi-dimensional concept that embodies the unification of personal attributes and behaviours requiring obligations and commitments to the patient, the healthcare system, the practice discipline and society.^{20 and 6}

Professionalism can be seen to be a curricular necessity in healthcare educational programmes not least, according to Sullivan & Tiessen, to develop students' 'dynamic reflexive abilities'.¹⁹ Professionalism is a difficult concept for students to understand and should be taught²¹ not only explicitly but also implicitly as it has been identified that taught sessions alone cannot convey all its various nuances.^{22 and 23} In the academic environment during the teaching of professionalism, students will note any differences in the attitudes and behaviours of staff and assess any discordance between the content and its delivery.^{24 and 25} This applies even more so in the clinical situation where students, attempting to identify with the practising staff, soon become aware of a range of behaviours which may challenge their perceptions.^{12 and 26} Particularly in the medical profession, role modelling plays an important part in developing professional behaviour and in students' perceptions of professionalism.^{27, 28 and 29} Cruess & Cruess identified it is negative role modelling and not positive as often having more of an impact on student behaviour³⁰ which may ultimately hinder the individual's professionalism development.³¹ Role modelling can shape a student's future as a radiographer³² especially in relation to students' patient-centred values.³³

Methods

This study focuses on the Tartu Health Care College radiography students' perceptions of professionalism. The population of the country, mainly Estonian, speak the official language Estonian with a very large community speaking Russian. For 15 years, Estonian radiography education and training has been at the level of professional higher education with Estonian being the language of instruction in all higher education institutions (HEIs). Different components of professionalism are present in various subjects and modules of the radiography programme but the understanding of professionalism acquired by students within the study process is unclear.

A qualitative study was chosen to explore first and third year radiography students' perceptions of professionalism using focus groups. A qualitative study was deemed appropriate as it is able to explore and attempt to disclose poorly understood phenomena.^{34 and 35} The qualitative paradigm approach is discovery-oriented and as well as being descriptive enables the exploration of attitudes, beliefs and preferences through the research participants' own personal perspectives^{36 and 37} thus allowing for authenticity. Focus groups have been used widely in the field of radiography and radiation therapy.^{38 and 39} The focus group approach for this survey was influenced by the UK's HCPC research on professionalism⁷ where the choice of data collection had the capacity to explore beliefs as well as perceptions.

As the research involved perceptions of only present student radiographers, purposive sampling was used. To enable comparison of different experiences, first year students had only a placement in an intensive care unit whereas third year students had had a number of clinical placements in various radiology departments of mainly public institutions.

All first and third year radiography students were asked to participate in the study; voluntary participation and the importance of student role in the curriculum were explained. Students therefore were offered an opportunity to provide their contribution to curriculum development. A group of first year students comprised 7 participants (32% of first year student population), and a group of third year students comprised 10 participants (45% of third year student population). Both sample groups comprised students of different ages, gender and nationality; with 2 mature students in the first year group.

A semi-structured interview scheme was compiled based on the study carried out by the HCPC,⁷ providing four main questions: In relation to the radiographer's profession, 1. What does the word professionalism mean to you? 2. What does the word unprofessionalism mean to you? 3. What has influenced your understanding of professionalism? 4. What is your current understanding of what you need to learn to become professional? Student responses to the four questions provided four broad themes related to the perceptions of professionalism: 1) characteristics of professionalism, 2) common manifestations of unprofessionalism, 3) factors influencing the development of professionalism, and 4) student developmental needs in regard to professionalism.

The interviews with first and third year students, lasting for 70 and 74 min respectively, were recorded and transcribed verbatim by researcher 3. Thematic content analysis was carried out by researcher 2 and researcher 3 independently. In the event of differences, discussions were carried out to reach consensus. To categorise the student responses to the four posed questions, a grounded approach was used as the concept of professionalism. In relation to themes 1, 3 and 4 similar sub-themes emerged (specific skills, general skills, personal features). The sub-themes that emerged in relation to the factors influencing the development of professionalism perceptions involved the impact of theoretical studies, clinical placement/clinical environment and personal features.

Prior to the study, participants were explained both verbally and in writing the voluntary nature of their participation, the anonymous use of the study results and the right to discontinue their participation at any time without explanation.

The study protocol was approved by the College Board of Applied Research and the Research Ethics Committee of the University (236/T-27) prior to data collection.

Results and discussion

In this study, there was no attempt or requirement of the students to define professionalism, so the presumption was that student perceptions came from their knowledge and understanding of the concept through taught theoretical sessions in the college environment, from their own personal perspectives, and beliefs and through the observation of the attitudes and behaviours of others.

Professionalism and unprofessionalism

All respondents, irrespective of their study year, mentioned good technical skills, hospital infection control skills and ethical conduct amongst the characteristics of professionalism regarding specific skills. Similar unanimity of responses was found in relation to the general skills that characterise professionalism, including skills of communication (teaching), teamwork, problem solving, learning and development. Respondents also emphasised the relevance of learning skills in the lifelong perspective as well as development skills in relation to personal, professional as well as organisational levels. As the radiographer lies at the interface between the patient and technology it was not surprising that the radiography students perceived communication and empathy with patients as major influences in defining the characteristics of professionalism.

“I agree that, on the one hand, it is important to carry out the examination that is of good quality, and at the same time communication with the patient ... and all the other things. It is also important to avoid the need for re-examinations, everything should be done with as high quality as possible and under any conditions.” (3rd year student)

Interestingly, the radiography students of this study, unlike medics,¹⁷ nurses¹² and other allied health professionals⁷ did not refer to appearance, dress codes or self hygiene as a demonstration of and characteristic of professionalism.

The students, in common with other medical and healthcare students,²⁶ and ⁷ reported that professionalism depends to a large extent on values and personal features, highlighting a number of features that support the development of professionalism like quick reaction (in emergencies), creativity, independence, confidence and helpfulness. Some students expressed the opinion that some radiographers with excellent technical skills may never demonstrate professionalism due to poor personal features like laziness, arrogance and carelessness.

“In my opinion professionalism for a radiographer is like a lifestyle or an attitude to your work and your working environment. And as it is an attitude, some people may never have it, he or she may always be a bit withdrawn or arrogant or whatever He or she may be excellent in the technical sense but, so to say, a poor personality.” (3rd year student)

Third year students reported seeing radiographers demonstrate technical incompetence resulting in unjustified re-takes and/or the production of images of unsatisfactory quality. Poor image quality was sometimes accompanied by an explanation from the radiographer that another practitioner (usually the radiologist) might still be able to read the image. Denying personal responsibility in a professional situation is untenable. In line with other AHPs, accepting responsibility was seen as key to students' concept of professionalism.²⁷

Non-adherence to radiation and infection safety rules were the most frequently reported manifestations of unprofessionalism, particularly in regard to elderly patients, posing hazards to the patient as well as to the staff. Non-adherence to privacy and confidentiality had also been experienced by students, irrespective of the location or size of the placement facility.

“I was scared when I saw it because when I saw that the patient was infectious, and the staff member approached the patient without any gloves on, I thought that she might catch this infection and she may carry it on, in her turn ... It was scary.” (1st year student)

“To my mind people don't care about their health in relation to radiation. ... we learn a lot how dangerous radiation is ... and when I watch those practitioners ... and I have asked them why they were not using the aprons themselves then they said that they were old and “(3rd year student)

Healthcare students' experiences of observing unprofessionalism among some staff members with whom the students interact, have been noted in previous studies.²⁹ and ¹² It has been suggested by Hammer that ‘professionalism-enhancing activities’ in a college or clinical setting may be thwarted by such individuals.⁴⁰

Inefficient time management, lack of teamwork and empathy, discrimination on grounds of nationality, age, social status etc. were reported by third year students. Poor time management was reflected in carelessly performed examinations due to hurrying thus compromising image quality and the quality of patient care. This kind of “hurrying culture” was noted even under the circumstances of planned investigations where there was sufficient time for each investigation.

“It's really funny, we had been sitting for about an hour, just doing nothing, and then a patient came We had enough time for this patient because the next one was coming a half an hour after that. But somehow there was a real panic that now everybody up and go ... I couldn't understand why we had to hurry up ... And that was the reason why some images were not good at all.” (3rd year student)

Students were aware of issues related to the multilingual situation in the country with language barriers seen to present an important challenge to effective radiographer-patient communication. Radiographers tended to speak in their native language, either in Estonian or in the language dominant in the particular community/area, and although they were able to speak in the language understandable to the patient or the student, they were reluctant to do so.

“I have seen it [discrimination] a lot on the grounds of nationality/language as my parents are of different nationalities, and I remember one situation in my clinical placement, for example, where all the staff members spoke the official language as they all were native speakers of this language. And then arrived a patient ... there are many patients in that area who do not speak the official language ... then the radiographer was just pointing with her finger that you should lie down here and that's it ... your doctor will get the results and ” (3rd year student)

The students found that this kind of behaviour not only built barriers between the staff and the patient but also between the staff and student. Language discordance is one of many obstacles to good communication with others.⁴¹

Moodiness and arrogance, irrespective of the age or working experience of the radiographer was perceived by students during communication with patients as well as other staff members and students. Self confidence however may sometimes be mistaken for arrogance.⁴²

Students surmised that this often led to poor teamwork.

“Age is not an issue here, it doesn't matter how long a person has been working ... I have seen how people take their personal problems to their workplace, it is so obvious, maybe they don't realise it themselves ... if something had been wrong at home then patients suffer because of that ... a lot of negative communication follows after that .” (3rd year student)

Students observing any unprofessional behaviour are entitled to be confused, angry and disappointed.⁴³ Yet students must be made aware that a variety of triggers that can contribute to unprofessional behaviours, not just personal or interpersonal but also situational and organisational triggers.⁸ Organisational and managerial structures may encourage or inhibit the emergence of professionalism.⁷ Expectations on practitioners in terms of time, workload and resource pressures run the risk of unprofessional behaviours arising. Students are ‘inevitably’ influenced by what they see in clinical placements,⁴⁴ but should be aware of the influence of any trigger that might be present.

Factors influencing the development of professionalism

Students reported a number of factors influencing their development of professionalism which included personal features and the impact of theoretical studies, practical training and the clinical placement environment. Such impacts have been shown to be related to three types of curriculum viz. formal, informal and hidden.⁴⁵ The formal curriculum is the taught course content and intended learning outcomes whereas the informal curriculum is the learning and teaching which takes place in a range of different settings and which can occur through role modelling, critical reflection and expert supervision.⁸ These factors were also identified by both the 1st and 3rd year students. The hidden curriculum refers to a set of influences rooted in the culture of an organisation e.g. clinical department or college which result in unintended lessons being learned.⁸ Students named, explained and illustrated those impacts on the basis of their personal education and training experiences.

The impact of those factors was perceived positive or negative, depending on the essence of the particular factor. Impact of theoretical studies and college environment was reported as positive and

supportive, including the provision of basic theoretical knowledge and practical skills, the ideal of professional performance and good role modelling.

In addition, third year students reported the continuous support of academic staff in the adherence to the principles of professional conduct through the assignments related to reflection on clinical placement experience and the feedback on those assignments. It has been shown that students undertaking reflective pieces of work related to clinical placements result in both improvement in patient care and professional development^{46 and 47} as well as improving learning and professionalism.⁸

“College is the place where professionalism is taught to us to a large extent, and clinical placement give us an opportunity to reflect upon all of it and compare with it, ...and often things are not so professional in hospitals. In this sense college plays a bigger role, to my mind, in the teaching and development of professionalism.” (3rd year student)

Students emphasised the critical impact of clinical placements on their perception of professionalism, highlighting three aspects: a better understanding of theoretical knowledge, the diverse nature of the radiographer's work and excellent role modelling. The more clinical placement periods the students had had the better they perceived the diversity of their future work, not only in the sense of different diagnostic and therapeutic equipment and modalities, but also in regards of the patient populations, the ways of communication and patient teaching. The qualified radiographers who were accomplished in their knowledge, skills and behaviour served as role models for teamwork, technical performance and communication and provided commendable student supervision.

“... she is so much attracted to what she is doing and she is continuously promoting her knowledge on her own. She is able to answer all your questions, whatever it may be, she is explaining you everything, not only how you should do, but also why it should be done like that, not just that the textbook says so. To my mind, that shows professionalism.” (3rd year student)

“... I can give an example of one department how they are a team ... when one of them didn't know, they discussed within the team and based on the pooled knowledge they reached a conclusion and solved the problem. It was a real pleasure to watch them acting as a team.” (3rd year student)

Educators are concerned that students may imitate poor communication or adopt negative attitudes, yet from students' statements it is apparent that they deplore any situation or behaviour that they see as detrimental to radiographer-patient communication. Unprofessional behaviour as might be demonstrated and thought of as anti-modelling rather than having detrimental effects on students themselves²⁸ may be used by students and qualified staff to inform their own practice in a positive way.^{12 and 48} This appeared to be the case for the student radiographers as, in common with other medical and healthcare students they appeared to have developed the necessary judgement to identify who they found inspiring and wished to emulate whilst simultaneously rejecting behaviours and values which they thought were disrespectful or inappropriate.^{28 and 7}

Role models occur in formal, informal and hidden curriculums⁴⁵ and for both years of students it could be interpreted that they present a major agent for students' understanding of what 'professionalism looks like' and the factors which influence it.¹⁴

There was common understanding amongst the students that it depends to a large extent on the particular individual and on his or her personal features whether he or she ever becomes a real professional in the field or not. Nevertheless, certain personal features were perceived to support this progress of professionalism, e.g. naturally good communication skills, curiosity coupled with willingness to learn and develop oneself, courage and independence. The focus group activities provided evidence of role models and anti-models being present throughout the students' educational experiences and were able to distinguish clearly between positive and negative modelled behaviour and attitudes.

“In my opinion professionalism means that when you start working [as a radiographer] one day, you should not adapt to the environment, should not accept ... their [improper] behaviour that is dominating there, but you should stick to the principles acquired at college.” (3rd year student)

Students influenced by the positive facets of the classroom role-modelling may adapt those same attitudes and behaviours in the more demanding clinical arena; ‘whether they are aware of it or not’.⁴⁹ This appears to be of importance as attitudes developed in undergraduate education inform practice once qualified.⁵⁰

Students' professional developmental needs (Fig. 1)

Whilst identifying the skills and features that need to be developed in order to become a professional, differences were found between the perceptions of first years and third years in the area of specific skills. Third years, due to their experience in clinical placements, were able to identify specific technical skills to be developed; first years' statements of specific skills were general due to their lack of the relevant theoretical knowledge and clinical experience.

Figure 1:

Professional Development Needs	1 st Year students	3 rd Year Students
Specialist Needs	<p><i>(via lack of the relevant theoretical knowledge and clinical experience)</i></p> <ul style="list-style-type: none"> • Knowledge and skills related to more sophisticated modalities that involve physics • Assessing diagnostic quality of the image • Adherence to the rules of ethical conduct • Complicated patient care in IV procedures <p><i>“... it may be difficult for me to carry out intravenous procedures. But I have heard that you are afraid of these things until you haven't done them ...”</i></p>	<p><i>(via experience obtained in clinical placements in radiology departments)</i></p> <ul style="list-style-type: none"> • Further technical/practical skills related to patient requirements • Deeper knowledge of pathologies • Quality assessment of the examination and the image <p><i>“I need to gain more practical skills, e.g. in MRI examinations, during clinical placement the supervisor is always next to me and I know that whenever I have a question I can ask it from her but perhaps I need to do it more independently ... to have the feeling that there isn't anybody next to me, nobody to ask questions from and I must cope on my own.”</i></p>
General Needs	<ul style="list-style-type: none"> • Communication skills • Language skills <p><i>For those who don't speak ‘the other language’, it may be complicated for them to achieve this kind of a level that you are able to understand. Some patients are speaking in their own language, there are some specificities that are not learnt at school It takes some time to ... we have to practise and communicate and learn this language ourselves ... “</i></p>	<p><i>“I have had very little experience in communicating with children. I haven't had any problems with adults but whenever there is a small child during clinical placement then everybody is so busy and the child is crying or something and then the student is pushed aside “</i></p>
Own Personal Needs	<ul style="list-style-type: none"> • Patience in patient positioning and communication <p><i>When the patient is wriggling on the table, and I position him and then go to have the exposure and he has already changed his position and I have to start positioning him again, stay still and don't move, that may be most difficult ...”</i></p> <ul style="list-style-type: none"> • Coping with one's own emotions <p><i>“I feel so sorry for them [patients] ... I would like to help so much but I can't and it hurts ...”</i></p>	<ul style="list-style-type: none"> • Self-confidence and independence • Skills of organisational change management <p><i>“I think that it is the purpose of the college to teach us professionalism and they expect us to take all of it to hospitals but I have a question – how should we do it? I don't know how to do it? ... If I go there and start lecturing those who have been working in the department for 10 or 20 years, nobody is going to accept me but I must pass my clinical placement there and get a job in future ...”</i></p>

Contrary to the perceptions regarding specialist skills, the development needs related to general skills were almost identical among the students, irrespective of their year of study. Students perceived that their communication skills had to be developed especially involving children, the elderly and patients with special needs. Respondents noted unanimously that they should advance their language skills to be able to communicate with the patient not only in the official language but also in Russian which is spoken by a large group of the patient population.

First year students' personal needs were to learn more patience and an empathetic approach towards patients whilst at the same time not being overly emotional. It is shown that empathy can be taught and also improved resulting in changes in behaviour.⁵¹ and ⁵² Third year students were particularly concerned with the development of skills in organisational change management in order to be able to improve the substandard practice they frequently experienced in some radiology departments.

Limitations

Interviewers were members of the academic and research staff and for this reason well known to the students. This situation might have ensured students a comfortable situation for answering, but at the same time might have restrained them from expressing criticism. To ensure more trustworthiness of data, participant checking or some other technique could have been applied.

Conclusions

Student perceptions arise from their understanding of the concept of professionalism through taught theoretical sessions (explicit teaching) and through the observation of the behaviours of others in both the college and clinical environments (intrinsic teaching). The observation of behaviours played a significant part in students' understanding of what professionalism/unprofessionalism looks like with students appearing to have developed their own judgement distinguishing between appropriate/inappropriate professional behaviour.

Any degree of dissonance between what is taught and what is observed is related to the presence of role models and anti-models thus demonstrating the importance of the intrinsic personal qualities of individuals. In this study, the identification of anti-models, rather than downgrading students' approach to professionalism was used in a positive way to consolidate their perspectives of professionalism.

As 'professionalism evolves over time and can be developed through the processes of reflection and exploration'⁹ there are implications for curriculum development including increasing opportunities for students to reflect on their own and others' performances in different situations and contexts and developing student self awareness and confidence to resist being socialised into substandard practice.

Involving clinical staff in discussions and conversations about professionalism and emphasising the importance of the clinical supervisor role would strengthen staff–student relationships without censuring the qualified staff or criticising individuals.

The results of this study should assist educators, clinical supervisors and programme leaders to assure the content and organisation of theoretical studies and clinical placement in the ways that facilitate the impact of positive factors and minimise the impact of negative ones in the radiography students' development of professionalism.

Conflict of interest statement

None.

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