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Abstract

Self-reflection is paramount to the development of professionalism and serves as the foundation of adult education and lifelong learning. Pedagogical approaches in health sciences programs that promote selfreflection are growing in popularity. Current literature identifies a gap in what and how students conceive self-reflection and whether self-reflection is creating professionals that meet the challenges of today's healthcare climate. This qualitative study explores the conceptions of self-reflection for occupational therapy students in Level II Fieldwork. The use of phenomenographic methodology guided the collection of information-rich data through semi-structured interviews. Twenty-one occupational therapy graduates volunteered to participate in the interviews. Verbatim transcripts were coded to identify categories and patterns in the data. A focused discussion was employed as a member-checking method to ensure accuracy of study outcomes. Participants identified that self-reflection may serve to inform personal and professional practices during occupational therapy student clinical rotations. Although universally defined, student self-reflection occurred in countless ways and took many forms. Participants valued its function in expanded decision making, self-awareness, and competence in fieldwork and everyday occupations. These findings facilitate further research and the creation of new self-reflection educational methods or interventions designed to build or remediate self-reflective capacity of health sciences students during academic and clinical programming.

Keywords

Self-reflection, student, fieldwork, qualitative, phenomenography

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Occupational Therapy Student Conceptions of Self-Reflection in Level II Fieldwork

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ABSTRACT

Self-reflection is paramount to the development of professionalism and serves as the foundation of adult education and lifelong learning. Pedagogical approaches in health sciences programs that promote self-reflection are growing in popularity. Current literature identifies a gap in what and how students conceive self-reflection and whether self-reflection is creating professionals that meet the challenges of today's healthcare climate. This qualitative study explores the conceptions of self-reflection for occupational therapy students in Level II Fieldwork. The use of phenomenographic methodology guided the collection of information-rich data through semi-structured interviews. Twenty-one occupational therapy graduates volunteered to participate in the interviews. Verbatim transcripts were coded to identify categories and patterns in the data. A focused discussion was employed as a member-checking method to ensure accuracy of study outcomes. Participants identified that self-reflection may serve to inform personal and professional practices during occupational therapy student clinical rotations. Although universally defined, student self-reflection occurred in countless ways and took many forms. Participants valued its function in expanded decision making, self-awareness, and competence in fieldwork and everyday occupations. These findings facilitate further research and the creation of new self-reflection educational methods or interventions designed to build or remediate self-reflective capacity of health sciences students during academic and clinical programming.

INTRODUCTION

Self-reflection is an integral part of adult education and the development of professionalism in the workplace (Adam, Peters, & Chipchase, 2013; Brown, Williams, & Etherington, 2016; Embo, Driessen, Valcke, & Van der Vleuten, 2015; Mann, Gordon, & MacLeod, 2009). Healthcare demands and complexity have made it essential for new graduates to demonstrate the clinical reasoning skills necessary to become a reflective practitioner. Schön (1983) and Parham (1987) conceptualized the "reflective practitioner" as one who uses self-reflection as a tool for revisiting an experience to learn from it. Reflective practitioners embody the ability to critique their own clinical thinking about the myriad of dilemmas that arise in professional practice.

Health sciences programs are implementing more self-reflective practices in coursework everyday (Schwind et al., 2014), but is self-reflection actually creating autonomous, qualified, and self-directed professionals who can meet the challenges of today's healthcare climate? Research on the subject is insufficient in nursing, physical therapy, and medicine and conflicting evidence exists on whether self-reflection practices are effective in promoting academic and clinical success (Andonian, 2013; Brown et al., 2016; Embo et al., 2015; Mann et al., 2009; Mason, Vitkovitch, Lambert, & Jepson, 2014). Furthermore, evidence on self-reflection practices in the field of occupational therapy (OT) education is non-existent, thus supporting the need for this study and the opportunity to examine student conceptions of self-reflection in Level II Fieldwork.

REVIEW OF LITERATURE

Self-Reflection Defined

Education scientists Boud, Keogh, and Walker (1985) defined self-reflection as "a deliberate affective activity in which individuals engage to explore their experiences in order to lead to new understanding and appreciation" (p.19), including recapturing the experience, thinking about it, mulling it over, and evaluating it. Currently, in health sciences professions, self-reflection is seen as mental processing with a purpose to review an experience of practice in order to develop greater emotional intelligence and an understanding of both the self and the situation so that future encounters with the situation are informed from previous encounters (Brown et al., 2016; Schwind et al., 2014; Stephens et al., 2012).

Characteristics of Self-Reflection

Self-reflection falls under the umbrella of reflective practice, which develops in stages and must be systematically taught (Bolton, 2014). Narrative writing, storytelling, journaling, meditation, verbal feedback, videotaping sessions, and problem-based learning are specific techniques used to promote self-reflective thinking and clinical reasoning skills of health science students and professionals (Constantinou & Kuys, 2013; Lasater & Nielsen, 2009; Mason et al., 2014). Like most practices, self-reflection has positive and negative attributes. Mann et al. (2009) stated that self-reflection can connect theory to practice but that it takes up too much class time. Davies (2012) stated that self-reflection promotes deep problem solving but that students can misunderstand the reflective process.

Self-Reflection in Level II Fieldwork

Fieldwork education is designed to promote self-reflection, occupational competence, and clinical performance in OT students in a variety of clinical settings (American Occupational Therapy Association [AOTA], 2012). *Occupational competence* is one's ability to balance all of life's demands, sustaining a pattern of occupational behavior that is productive and self-satisfying. This addresses engagement in all areas of one's life (e.g., at work or home, during stressful or relaxing activities, with family or friends, etc.; Kielhofner, 2008; Taylor, 2017). Ideally during fieldwork, students respond positively to feedback and make the necessary emotional or physical changes to increase client and team engagement and generate a therapeutic environment (Andonian, 2013; Brown et al., 2016; Campbell & Corpus, 2015; Hackenburg & Toth-Cohen, 2018; Mason et al., 2014). Self-reflection builds a student's occupational competence and clinical performance by enhancing therapeutic use of self and strengthening the efficacy of client interventions (Hackenburg & Toth-Cohen, 2018; Taylor, 2008). Leadership potential is unlocked and a feeling of success and confidence results as each student embarks on a rewarding OT career (Campbell & Corpus, 2015).

Despite the evidence discussed in the literature review, it is unknown how OT fieldwork students conceptualize self-reflection and its relationship to their own occupational competence and job-related clinical performance. This is important to examine because a deeper understanding of student self-reflection can inform how self-reflection is taught and whether it is a useful tool for preparing OT students for the workplace. To explore this issue, this research was designed to answer the following research questions: (1) What do OT students conceive as self-reflection? and (2) How do OT students conceptualize and understand self-reflection in relation to their performance in Level II Fieldwork?

METHODS

Research Design

The Institutional Review Boards (IRBs) of the University of New Mexico and Texas Woman's University-Houston approved this study and written informed consent was obtained from each participant. The study used a qualitative design to address the research questions about self-reflection. The research team employed a phenomenographic approach to analyze the ways participants experience self-reflection and how they went about it.

Phenomenography is a research method that qualitatively maps different ways in which people experience, conceptualize, perceive, and understand the world around them (Marton,1986). In phenomenographic studies, the term "conception" is used to refer to people's ways of experiencing a specific aspect of reality (e.g. self-reflection) and that conceptions are typically presented in the form of categories of description. Therefore, in this study, the basic idea of the phenomenographic approach is to identify and describe individuals' conceptions of self-reflection as faithfully as possible in order to understand how it relates to learning, teaching and other kinds of human action within society (Sandberg, 1996).

Role of the Researcher

The professional relationship between the researcher (first author) and the participants was an instructor/student role when the participants were recruited in the study. Ethical concerns about the professional relationship were addressed in four ways. First, participants were recruited on a voluntary basis and only those volunteers who graduated from their OT program were eligible to participate in the research study. Second, interviews were conducted post-graduation to eliminate any perceived coercion or power relationship over the participants. In other words, the researcher no longer had any ability to influence grades or completion of the program if the volunteer decided to participate or decline. Third, the IRB and voluntary participants reviewed informed consent forms that included predetermined semi- structured interview questions to determine potential conflicts of interest. Finally, to minimize misinterpretation, a voluntary sample of participants participated in a focused discussion where initial inquiry results were reviewed to confirm how quotes were used and how they were interpreted through the development of categories.

Participants and Sampling

Entry-level graduate OT students were recruited using convenience sampling. Inclusion criteria were entry-level graduate students who (1) had completed formal academic OT coursework, (2) were enrolled in their last Level II Fieldwork, and (3) gave consent to participate in this study. Exclusion criteria was if the participant did not complete their second Level II Fieldwork rotation and/or graduate from the OT program for any reason. Twenty-one OT students volunteered to participate in individual, in-depth, open-ended, semi-structured interviews, as this is the recommended number of participants for rigor according to these other phenomenographic studies (Andersson, Willman, Sjöström-Strand, & Borglin, 2015; Holmstrom, Halford & Rosenqvist, 2003; Larsson & Holmstrom, 2007).

Procedures

Recruitment flyers and consent forms were emailed introducing the study to all second-year OT students during their last Level II Fieldwork experience. Recruited participants followed a secure link, allowing them to provide informed consent electronically. Prior to interviewing, the interview protocol was piloted with five first-year OT students who were diverse in age and gender, to ensure clarity and understanding of the interview questions and procedures. This allowed for any necessary revisions to the protocol prior to the implementation of the study. Then in-depth, semi-structured interviews were conducted in-person or via telephone in a private office. Each interview was audio-recorded and transcribed verbatim and interview recordings and transcripts were deidentified prior to analysis. Contact information for each participant was stored in a secure location to ensure anonymity. All participants were informed that they could leave the study at any time.

Nineteen interviews occurred in-person and two via telephone, due to participants living out-of-state. Participants were asked to describe their self-reflective experiences during Level II Fieldwork, and what they conceive as self-reflection and how they conceptualize and understand self-reflection in relation to their own occupational competence and

clinical performance in Level II Fieldwork. Figure 1 shows the semi-structured, set interview questions used with each participant; however, when appropriate, the interviewer sought additional information such as examples of specific experiences or ideas to gain a fuller understanding of what the participant was trying to convey. The interviewer also collected field notes during the interviews to ensure accuracy and to document participant affect and other non-verbal communications that might influence interpretation of the data (Patton, 2015).

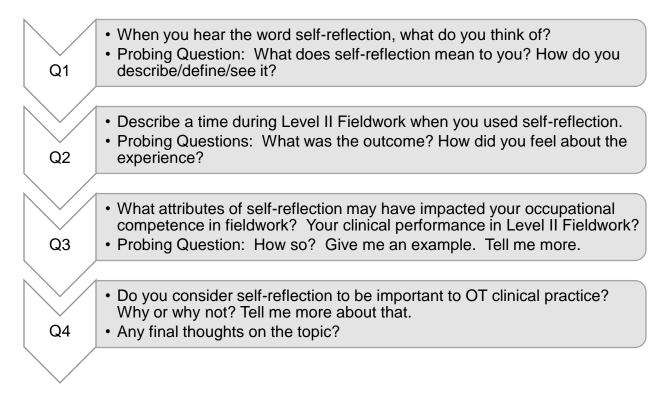


Figure 1: Individual interview guide for study participants.

Data Analysis

The phenomenographic methods of analysis used in this study was based on classic works in this field (Akerlind, 2005; Andersson et al., 2015; Bowden & Walsh, 2000; Larsson & Holmstrom, 2007; Marton, 1986; Sandberg, 1996). All interviews were transcribed verbatim from audio recordings with validation checks for accuracy. Transcripts were de-identified and imported into qualitative analysis software NVivo 10 (QSR International, 2012) for coding. Training was provided for qualitative analysis and the use of NVivo 10 by a qualitative analyst (QA) from the Clinical and Translational Science Center from the University Health Sciences Center.

Interview data were coded in NVivo 10 to explore the range of meanings within the context of the whole sample, specifically the "what" and "how" aspects of the phenomenon of self-reflection: when students talked about self-reflection, what did they talk about, and how did they talk about it? The coding team was comprised of the first and second authors, and the QA. The initial coding structure was created based on the

interview guide. A stepwise method was used to independently review and code the transcripts. After consensus in codes was reached, the first and second authors each independently coded all transcripts and met regularly throughout the coding period to discuss coding discrepancies. Simultaneously, the QA coded 30% of all transcripts, selected randomly. This process served as a quality control check. The QA provided consultation on resolving discrepancies throughout the iterative process. Overall agreement among the coders was a minimum 88% across all transcripts. As new descriptive categories in the data emerged, the coding team met and revised the coding structure until category saturation was achieved (see Appendix A). Once saturation occurred, salient categories were summarized and supported with participant quotes. The research team held several meetings to refine the collective "pool of meanings" (Bowden & Walsh, 2000) for each summary. Final review of summaries and in-depth discussions led to the creation of the *outcome space*, or collective ways of understanding the categories generated in the analysis (Bowden & Walsh, 2000; Marton & Booth, 1997).

Reliability was ensured through coder and dialogic checking. Coder reliability was conducted by the coding team, through NVivo 10, who coded all interview transcripts and compared categorizations. Dialogic checks were employed by having a discussion or mutual critique of the data with the coding team until consensus and saturation was reached about the researcher's interpretive hypotheses or understandings of the data. The coding team also made their interpretive steps clear to each other by verbally detailing how they determined their understandings. The coding team also presented examples or supporting quotes that illustrated their interpretations in order to minimize bias and ensure data accuracy.

Further credibility checks were conducted by member checking. The researchers invited all participants back for this final focused discussion and five volunteered to participate in the discussion. The researchers followed a focus group protocol to conduct the discussion (see Appendix B). Preliminary qualitative results were shared with the participants and they were asked whether the findings supported their collective understandings of self-reflection, and if any conceptions were missing and needed to be added to the data. The focus group recording was transcribed, coded, and analyzed by the researchers. As new categories emerged, they were later added to the category summaries to either confirm or expand the overall findings of the study. This process of member checking confirmed that the interpretations of the participant's experiences reflected his or her perspective and provided an accurate interpretation of the data (Patton, 2015).

RESULTS

Findings from the qualitative analysis are visually mapped in Figure 2. On either side of the central construct of self-reflection are star-shaped spaces representing the two main questions that drove data collection and analysis: (1) *What* do OT students conceive as self-reflection? and (2) *How* do OT students conceptualize and understand self-reflection in relation to their own occupational competence and performance in Level II Fieldwork? The square boxes that point to *What* and *How* represent general categories

summarizing the content of student conceptions of self-reflection. Three primary categories represent student conceptions of the *What* aspects of self-reflection. These are *Importance*, *Definition*, and *Example*. Two primary categories represent student conceptions of the *How* aspects of self-reflection: *Outcome* and *Personal Use*.

Some of the categories for the *What* and *How* of self-reflection are further delineated by sub-categories identified within like-colored oval shapes in Figure 2. With regard to the *What* of self-reflection, *growth* is a sub-category that elaborates on the *Importance* of self-reflection. The sub-categories addressing the *How* of self-reflection elaborated on both *Outcome* and *Personal Use*. With regard to *Outcome*, sub-categories of *clinical performance* and *occupational competence* emerged. Sub-categories for *Personal Use* addressed *how* participants self-reflected, *where* self-reflection occurred, and *when* participants self-reflected.

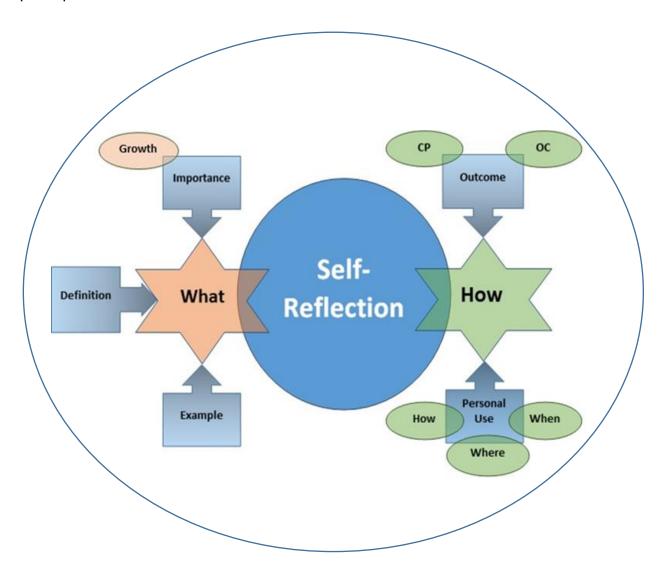


Figure 2. Phenomenographic categorization of the main categories and sub-categories and their relationship with self-reflection. CP = clinical performance; OC = occupational competence.

The "What" Aspects of Self-reflection

Participants described the nature of self-reflection, i.e., what it is, in terms of *Definition*, by way of *Example*, or as something *Important* to do. Overall, participants defined self-reflection similarly and shared a variety of specific examples of what self-reflection looked like to them on Level II Fieldwork. Some discussed their self-reflective process with specific clients while others gave general examples or spoke about a time when they used self-reflection. Other participants found performing self-reflection with a clinical instructor to be valuable during their fieldwork experience.

Self-reflection was also seen as an important activity that can foster personal and professional growth. Participants maintained it is important for all healthcare professionals to self-reflect because it influences a student's personal growth and skill development during fieldwork. Self-reflection was also considered an important vehicle for advancing clinical skills in practice in their everyday wellness and self-awareness. Salient participant quotes that best represent the descriptive categories and subcategories of *Definition, Example, and Importance-growth* are expressed in Table 1.

Table 1
Selected Examples of the Analysis of "What" Students Conceive as Self-Reflection

Categories/Sub-categories	Supporting Statements
Definition	[Self-reflection] is "taking the time to understand my actions, my thoughts, or my feelings." Or similarly it is "a time to dig deeper into yourself; what worked well or what didn't; just a deep analysis of how that (situation or task) wentmore importantly, thinking about "ways that I am doing the things I'm doing, do I need to change anything, and am I okay with what I'm doing."
	In [self-reflection] there are "multiple components to it; thinking of my thoughts in my head, my body language, also the back and forth of interacting with someone, and how they're responding to me." [Self-reflection] is "a conscious and subconscious process or evaluation of what I'm doing, why I'm doing it or how I'm doing it."
Example	"I learned I should have a variety of activities [in a therapy session]I self-reflected on finding things that [the client] would be interested in and what to do when [the client] wasn't."

"I felt really stupid when I wasn't up to par with everyone, so I asked myself, what could I do to not to feel this way and be in the conversation and knowledgeable about these sorts of clients...the outcome of the self-reflection was to act, study, read the textbook, and make notes."

"We used the sheet where you write what you do well, what you need help with, and that seemed to help me go back and reflect on the areas that I am still struggling with but also whether I am making improvements."

Importance

Growth

"Self-reflection is definitely needed for [professional] growth and improvement...being able to adapt to different types of people, and better yourself for the next person you see."

"[Self-reflection is] what can keep you from getting stuck in a rut and doing the same repetitive thing for each client...if you're constantly self-reflecting, not only can you be a better OT for your clients, but also a better OT for yourself in your own life."

"It [self-reflection] makes me realize that I do have confidence and the tools I need to get through difficult situations."

The "How" Aspects of Self-reflection

Participants described how they engaged in self-reflection in terms of the logistics of their personal use of self-reflection, as well as the valued outcomes of this engagement. Participants said they use self-reflection at various times, for several reasons, and in numerous places in their personal and professional lives. When describing *how* they self-reflect, they described the process as either internal or external, sometimes thinking through things on their own or talking to others. Internally, some participants described using prayer meditation, or journaling to focus on thoughts and feelings about a situation. Externally, students sought input and discourse with others to support self-reflection. When describing *when* and *where* they reflect, students shared that self-reflection happens when they are alone, driving, exercising, or outside in nature.

Some participants discussed the "how" aspects of self-reflection by focusing on the outcomes of engaging in self-reflection. Participant comments indicated that valued outcomes included positive changes in occupational competence as well as in clinical performance. Two sub-categories of occupational competence emerged from

interviews: balanced and unbalanced. For *balanced* occupational competence, students shared that having a routine and structure was beneficial. Conversely, others said they had *unbalanced* occupational competence because of the high demands in Level II Fieldwork.

Participants had multiple insights on how self-reflection influenced their clinical performance during Level II Fieldwork. Two sub-categories of clinical performance emerged from interviews: positive and negative. Most students felt positively about the effect of self-reflection on clinical performance. They discussed how self-reflection was an outlet for "letting go" allowing them to be more organized, present, and therapeutic for their clients. Participants also felt self-reflection offered positive, new perspectives or viewpoints, allowing freedom to be authentic and learn from clients. Conversely, there were times that students felt self-reflection may have a negative impact on clinical performance. Some students expressed that self-reflection during a session can be a distraction and effected being present and attentive to clients. Participants also felt that the absence of self-reflection could lead to ineffective client-based treatment planning and interventions. Lastly, participants communicated that a clinical instructor's feedback can negatively influence their view of self-reflection. These findings are expressed in Table 2 using relevant quotes representing the descriptive categories and sub-categories of Personal Use (how, when, where) and Outcome (occupational competence—balanced/unbalanced and clinical performance—positive and negative effects).

Table 2
Selected Examples of the Analysis of "How" Students Conceive of Self-Reflection

Categories/Sub-categories	Supporting Statements
Personal Use	
How	"now my focus is, if I am going to think of a negative [thought], I have to also think of a positive as well."
	"I self-reflect a lot when I'm just interacting with people in generalthe back and forth of conversation and what I'm saying or doing and how they're responding to that."
When	"at the end of the day I would think about each of the clients that I saw and write down the thingsthought about what I said and any non-verbal communicationlooked at it from all perspectives."
	"when I run to blow off steam and understand for myself what's been going on."

"whenever I have anxiety or stressed about something...more often I do it when things have gone bad rather than when they have gone good."

Where

"I self-reflect at a deeper level if I'm outside in nature."

"in the shower at the end of the day...it's a kid-free zone."

Outcome

Occupational Competence

(Balanced)

"...I went over my schedule the night before... I'm going to get up at this time, be out the door by this time...to take care of myself, get enough sleep, get ready in the morning, be presentable."

"...once I realized if I meal prep at the beginning of the week, this gives me time through the rest of the week to go to the gym or be more outgoing with the people at [work]."

(Unbalanced)

"I think that I wasn't as mindful of my routines. I let the daily things I needed to do around the house fall to the wayside because I had to shift focus on what I felt and reflect on those more important (fieldwork)."

"I think because my life was so focused on the fieldwork, and I didn't really have much occupational competence...So, I wasn't able to really be competent in other areas of my everyday life like relaxation, having fun, and taking care of my health."

Clinical Performance

(Positive effects)

"It is ok to not know everything!" and, "Self-reflection definitely helped me to be competent in all my roles during fieldwork because I didn't let the hard parts of fieldwork bring me down, and I processed it and told myself I was going to try it differently next time or learn from the experience and move on."

"thinking through before the next day what I could try differently that may be more beneficial to the patient." "evaluating where I am and constantly asking for feedback from CIs helped me establish multiple viewpoints [in a clinical situation] ...everyone could have a very different approach with a similar goal, and that not all is black and white."

(Negative effects)

"self-reflection during a session can be a distraction and effects being present and attentive to clients...there is a time and place for it."

"if you don't have that time to self-reflect... might lead to intervention planning that isn't client-centered or occupation-based...only based on what you think that person needs."

"If the clinical instructor is always telling you what you did wrong it could make you focus more on the negative.... how they view self-reflection and ways they provide feedback to students also varies the way you see self-reflection."

Outcome Space

The phenomenographic approach explores the broad range of different meanings within the context of the whole sample called the *outcome space*. For this study, the collective interpretations of the "what" and "how" aspects of the phenomenon of self-reflection were of central importance: When students talk about self-reflection, what do they talk about, and how do they talk about it? Figure 3 illustrates the outcome space or how specific student responses reflected some of the constructs depicted in Figure 2.



Figure 3. Outcome space of self-reflection. Depiction of a sampling of collective findings. OC = occupational competence; CP = clinical performance.

Figure 3 can be summarized by saying participants defined self-reflection as a multifaceted process that was used to inform practice. Self-reflection had meaning in one to one client and family endeavors. Using self-reflection allowed the participants to reflect back on their actions with a client and develop interventions for future sessions. Participants shared a wide variety of examples of self-reflection during fieldwork. Some discussed their self-reflective process with specific clients while others gave general examples or spoke about a time when they used self-reflection. Other participants found performing self-reflection with a clinical instructor to be valuable during their fieldwork experience. Self-reflection was considered essential to personal growth and professional development. Participants maintained it is important for all healthcare professionals to self-reflect because it influences a student's personal growth and skill development during fieldwork. Self-reflection was also considered an important vehicle for advancing clinical skills in practice in their everyday wellness and self-awareness.

DISCUSSION

Study findings indicated that participants had similar thoughts about what they conceived as self-reflection. Their wide-ranging illustrations of self-reflection suggested that self-reflection is a complex process, having multiple elements that can be different for everyone depending on the situation (e.g. a challenging therapy session or feedback session with a supervisor). The participants used self-reflection to assess and gauge why they were doing what they were doing, so that transformation and professional and personal growth could occur in their life roles, routines, and clinical performance patterns. Extant literature has also expressed the advantages of self-reflection and suggest that continued practice in self-reflection may have long term benefits (Adam et al., 2013; Davies, 2012; Hackenburg & Toth-Cohen, 2018; Mason et al., 2014).

Results also revealed how participants conceived of self-reflection. The majority of participants valued self-reflection and thought it might be a key ingredient to a balanced lifestyle as one becomes more occupationally competent in life. However, they expressed times when occupational competence may be a struggle (e.g. when a student is overloaded and stressed) and felt self-reflection may be useful as a mechanism for change to better the situation (e.g. being kind to oneself and thinking about coping strategies for how to better handle stress; Adam et al., 2015; Campbell & Corpus, 2016).

Moreover, comparable to previous studies, participants also felt that self-reflection mostly had a positive impact on their clinical performance, specifically, problem solving, clinical reasoning, and confidence in skills (Andonian, 2013; Brown et al., 2016; Constantinou & Kuys, 2013). They saw self-reflection as an outlet for letting go of expectations and adopting new perspectives which allowed them to flourish in fieldwork and adopt a greater therapeutic use of self with clients and families (Schwind et al., 2014). However, a cautionary note was also evident in participant comments that indicated that self-reflection may be detrimental if it does not occur at optimal times or places (e.g., during a therapy session, distracting from being present in the immediate situation), or if the student focuses on negative rather than successful interactions. Overall, the use of self-reflection guided the students' fieldwork experiences. Through introspection (internal self-reflection) and talking with their clinical supervisors and colleagues (interactive reflection), students progressed in their knowledge of self and clinical skills, learned their strengths and growth areas, and how to better handle change and the unexpected (Campbell & Corpus, 2016; Embo et. al., 2015; Lasater & Nielsen, 2009).

Educational and Clinical Implications

The findings of this research study have implications for educational and clinical practice. In OT education, self-reflection could be considered a vehicle or interventional approach to promote increased performance skills and patterns in students who are preparing for Level II Fieldwork. If self-reflection is routinely imbedded within OT curricula, students may develop healthy habits of mind that contribute to their maturation as health professionals. Providing explicit instruction and multiple opportunities for self-reflection via video recording, independent journaling, verbal and

written feedback, and group reflective discussions may be useful to incorporate within the classroom. These experiences may help students start noticing which self-reflection methods are most effective for them personally. This may be of critical importance, as it is plausible that individual differences in self-reflection style influence the effectiveness of particular self-reflection techniques for a particular student in the classroom as well as in future clinical experiences.

On the other hand, students expressed the potentially negative impact that self-reflection can have on their performance, such as being overly self-critical or ruminating on the negative outcomes of a test or practical exam. Therefore, instructors might find it beneficial to explicitly teach structured and guided reflections throughout formal coursework to foster the self-awareness needed to move on so students do not get stuck in a self-critical pattern that could potentially harm their well-being and academic or clinical success. Providing opportunities for students to evaluate their peers and instructor gives them the needed practice of providing clear and constructive feedback.

This study also has clinical implications for OT practice. Participants indicated that feedback from a clinical instructor (CI) during fieldwork was important to their clinical performance. Providing information and training on self-reflection to CIs prior to accepting fieldwork students may be beneficial. These resources may assist CIs in developing and implementing more effective self-reflection methods for students and for themselves in their practice settings. Training would offer CIs insight into the effects of their own self-reflection practices as well as the effects of their practice setting characteristics on students' self-reflective practices. This understanding might shape a student's view of self-reflection and could impede or facilitate the supervisory relationship and student progress in fieldwork. It might also be useful for CIs to establish routine times and opportunities for feedback and reflection so that students can potentially increase their awareness and accountability for their personal and clinical performance.

Several self-reflection models currently are available for training purposes in education and clinical practice. The Gibbs Reflective Cycle (Gibbs, 1988) and the Kolb Reflective Cycle (Kolb, 1984) are models designed for beginners who are trying to analyze and evaluate a situation. The Schön Model (Schön, 1983) and the Framework for Reflexive Learning (Rolfe, Freshwater, & Jasper, 2001), which resonate most with the study findings, are best suited for developing professional artistry and increasing professional confidence by consistently asking three basic questions: "What?, so what?, and now what?" More complex models, such as the Brookfield Model (Brookfield, 2005), Johns' Model for Structured Reflection (Johns, 2000), and the Mezirow Model of Transformative Learning (Mezirow, 2003) build on the basics of self-reflection and aim to elicit change in personal beliefs and to challenge assumptions. Any of these models can build self-reflective capacity if taught effectively through application and implemented in the classroom or clinic consistently.

Another resource for fostering self-reflection in health professionals comes from Bolton (2014), who authored creative ways to reflect in her book *Reflective Practice: Writing and Professional Development*. Her book explains how reflective writing can widen perspectives, develop political and social authority, and give clarity of professional roles, responsibilities, and principles. She offers step-by-step methods, grounded in theories drawn from professional development, pedagogy, and narrative studies to help guide the professional student in reflective inquiry.

The National Society for Experiential Education (NSEE, 2011) offers several instructional resources on reflection. The NSEE regards reflection as one of eight principles underlying the pedagogy of experiential education. The society acknowledges reflection as the element that transforms a simple experience to a learning experience. For knowledge to be discovered and internalized the learner must test assumptions and hypotheses about the outcomes of decisions and actions taken, then weigh the outcomes against past learning and future implications. This reflective process is integral to all phases of experiential learning, from identifying intention and choosing the experience, to considering preconceptions and observing how they change as the experience unfolds. Reflection is also an essential tool for adjusting the experience and measuring outcomes. These resources may be possible methods to teach self-reflection and are easily accessible on the worldwide web.

Limitations and Future Directions

There are several limitations in this study. One limitation is the small convenience sample. It is representative of one cohort of students at one American state university, making generalization of these findings limited. Interviews were conducted after students completed questionnaires on self-perceived occupational competence and occupational performance skills as part of another study, so participant exposure to the measures may have influenced the participants' responses to the interview questions and focus group discussion.

It is hoped that results of this study will stimulate further research, both qualitative and quantitative. Research that examines the effects of self-reflection on an OT practitioner's occupational competence and performance skills may be illuminating. Additionally, OT educators' conceptions about the use of self-reflection in the classroom and clinic need to be investigated. Overall, studying how people reflect and exploring the processes of self-reflection will expand our understanding of the complexity of self-reflection and how it influences the student experience and effectiveness of OT fieldwork education.

CONCLUSION

Results of this study suggest that self-reflection may serve to inform personal and professional practices during OT student clinical rotations. Although universally defined, student conceptions of self-reflection occurred in countless ways and took many forms. Students valued its function in expanded decision making, self-awareness, and competence in fieldwork and everyday occupations. These findings might stimulate the creation of new self-reflection educational methods or interventions designed to build or

remediate self-reflective capacity of health sciences students during academic and clinical programming, so they are better prepared for the healthcare climate and workforce.

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Appendix A

Coding Structure

- Self-Reflection (SR): General comments about self-reflection that do not apply to other codes.
- 2) **Definition**: of self-reflection definition or description. When you hear the word self-reflection, what do you think of? How do you describe/define/see it?
- 3) **Example**: Specific examples of self-reflection.
- 4) **Outcome**: What was the outcome of using self-reflection? How did you feel about the experience? General outcomes of self-reflection, not directly related to occupational competence or clinical performance.
- a) Occupational competence (OC): What attributes of self-reflection may have affected your occupational competence in fieldwork? Occupational Competence is sustaining a pattern of occupational behavior which is productive and satisfying—i.e., taking care of self, handling responsibilities, or doing activities you like
- i) **Balanced or positive:** SR has a positive effect on OC (i.e. not being so hard on myself; accepting of a break for self, exercise, having a balance between work and life)
- ii) **Unbalanced or Negative:** SR has a negative effect on OC (i.e. work/life balance out of sync, not taking care of home-life, ruminating on negative thoughts)
- b) Clinical performance (CP): What attributes of self-reflection may have influenced your clinical performance in Level II Fieldwork?
- i) More SR: not doing enough SR; wished they would have done more
- ii) **Negative impact on CP:** SR that interfered with CP (i.e. too much SR bringing self down; negative self-talk; impacting confidence in clinical skills)
- iii) **Positive impact of CP:** SR leading to self-learning and awareness of performance or changes needed for improvements
- 5) **Importance**: Do you consider self-reflection important to OT clinical practice? Why or why not? Tell me more about that.
- a) **Growth development:** becoming a better OT/professional/clinician; learning more about self; being comfortable with self and skill sets
- 6) **Personal Use**: How one uses/experiences self-reflection within personal self (does not include specific outcomes)—how, when, and where.
- a) How
- i) Internal
- (1) Mental thinking
- (2) Talking to self
- (3) Writing-journaling
- ii) External
- (1) Talking to others
- b) When/Where

- i) Aloneii) Drivingiii) Exerciseiv) Outside in Nature

Appendix B

Focus Group Protocol and Questions

Introduction:

Thank you for agreeing to participate in this focus group.

You were invited to participate in this focus group because you have already completed individual interviews about self-reflection for the study. This focus group will be a discussion about whether or not the preliminary findings from your interviews support your own conceptions of self-reflection and their impact on your competence and clinical performance in fieldwork. This will act as one of the trustworthiness measures in the study.

Before we get started, I'd like to review some logistics with you -

- Please silence your mobile devices; if an emergency arises and you must leave immediately, please do so quietly.
- You will not discuss personal information of any participants outside of the group.
- We will use first names only.
- Each person will speak one at a time and introduce themselves by their first name prior to speaking.
- We will treat everyone with respect at all times.
- As a reminder the focus group will take about 1-2 hours and be tape recorded. The information you provide will be kept confidential and your name will not be linked to your responses in any analyses.
- We will have a 15 minute break about half way through if needed.
 Before turning on the tape recorder, do you have any questions?

To remind you—the questions for the individual interviews were as follows:

- 1. When you hear the word self-reflection, what do you think of? Probing Question: What does self-reflection mean to you? How do you describe/define/see it?
- 2. Describe a time during Level II Fieldwork when you used self-reflection. Probing Questions: What was the outcome? How did you feel about the experience?
- 3. What characteristics of self-reflection/ How might self-reflection have impacted your occupational competence in fieldwork? Your clinical performance in Level II Fieldwork?

Probing Question: How so? Give me an example. Tell me more.

4. Do you consider self-reflection to be important to OT clinical practice? Why or why not? Tell me more about that.

Now we will go through the preliminary findings for each question to see if you agree or disagree with them.

https://encompass.eku.edu/jote/vol3/iss1/5 DOI: 10.26681/jote.2019.030105 For each question ask yourself the following:

- Do the findings thoroughly answer the questions? Yes/No/ Maybe—and Why?
- Is there anything missing? Additions you would make?
- Do the findings truly capture your conceptions of self-reflection?