Ecospirituality in Forensic Mental Health: A Preliminary Outcome Study

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Abstract

Background: In this study, the personal experience of spirituality in nature (the concept of ecospirituality) was supported by occupational therapy and spiritual care staff enabling a community-based group for persons affiliated with a forensic mental health system in Ontario, Canada. Spirituality is a key, though debated, tenet in occupational therapy practice. At the same time, immersive participation in nature has been linked to positive health outcomes.

Methods: A qualitative method consistent with Interpretative Phenomenological Analysis was employed. Data was collected via the completion of semi-structured interviews (n = 9). Collected data was transcribed verbatim and then coded for themes by multiple coders. Several methods were employed to support trustworthiness.

Results: Results identified that participation in the ecospirituality group enabled the participants to feel an enhanced connection with nature and an opportunity for unguarded reflection and relaxation. The participants described a regenerative and restorative experience, including a sense of peace and connection with the personally sacred. Enhanced resiliency and meaningful connection with others also were identified.

Conclusion: Recommendations related to outcomes are identified. These include a focus on enhanced access to natural environments for individuals involved in mental health systems. Just as importantly, the opportunity for personal agency and autonomy in those settings appears indicated.

Comments

The authors declare that they have no competing financial, professional, or personal interest that might have influenced the performance or presentation of the work described in this manuscript.

Keywords

ecotherapy, nature therapy, forensic, mental health, spirituality

Cover Page Footnote

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Credentials Display

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Nature and participation in natural environments have markedly influenced the health care milieu for centuries. These influences range broadly from concepts of hospital and care facility design to day-to-day clinical application in treatment planning (Codinhoto, 2017; Wagenfeld et al., 2013). The impact of nature as a care informer has been considered over time using various terms, but most commonly in the modern era the terms nature or eco are used as a prefix related to various therapeutic approaches or interventions (Hansen et al., 2017; Song et al., 2016; Summers & Vivian, 2018).

Like nature and natural environments, the unique and personal experience of spirituality has also significantly influenced the provision of health care over time. In the occupational therapy profession, interest in spirituality as a professional and care informer has particularly enhanced over the past 5 decades (Egan & Delaat, 1994; Newbigging et al., 2017; Townsend & Brintnell, 1990; Wilson, 2010). Although spirituality is a topic of much professional discourse, the centrality of spirituality in the profession has compelled its inclusion in occupational therapy practice models defining professional practice (American Occupational Therapy Association, 2014; Townsend & Polatajko, 2013).

This qualitative study considers the outcomes of participation in a community-based ecospirituality (the personal experience of spirituality in nature) group for nine (n = 9) individuals affiliated with the Forensic Mental Health System in Ontario, Canada. Such individuals have come into contact with the criminal justice system in the Province of Ontario, have been found not criminally responsible for their offense(s) and, via legal disposition order, have been instructed to reside at the Southwest Centre for Forensic Mental Health Care. Over a 16-week period and with a +/-120 min duration, the group enabled the participants to visit local and freely accessible community nature spaces proximal to the forensic hospital facility.

One factor possibly differentiating the group from more conventional therapist-driven and skill-building groups was that it did not, specifically, focus on remediating deficits. Rather, the participants were empowered to have personal agency and self-determination in the varied nature spaces they attended, pending staff forensic disposition and security accountabilities to the Ontario Review Board (Hamilton, 2017; Heard et al., 2015; Ontario Review Board, 2011). More importantly, this study considers the outcomes of a participant experience that the participant both determines and narrates.

**Review of the Literature**

**Conceptualizing Ecospirituality**

The concept of ecospirituality as advanced by the authors (two occupational therapists and a spiritual care professional) speaks to the intersection of the personal experience of spirituality with the concurrent participation in nature. This is broadly consistent with more modern approaches related to ecospirituality in health care application. In the nursing context, Lincoln (2000) speaks to an “interconnection between human beings and the environment” (p. 228) while Delaney and Barrere (2009) describe ecospirituality as the “spiritual dimension between human beings and the environment” (p. 365). This study advances an immersive and participatory approach related to the ecospirituality concept consistent with current occupational therapy and spiritual care theory.

In conceptualizing this group, the authors drew from current occupational therapy and spiritual care theory to support development. In particular, the authors considered the Canadian Model of Occupational Performance and Engagement (CMOP-E), noting that this model conceptually places spirituality at the core or center of each individual. As well, the CMOP-E advocates for the concept of occupational engagement that, beyond occupational performance, speaks specifically to concepts of
meaning making and self-efficacy that arise from occupational performance, participation, or in reflection (Townsend & Polatajko, 2013).

The authors also specifically considered Law’s (2002) work on participation in her American Occupational Therapy Association Distinguished Scholar Lecture, “Participation in the Occupations of Everyday Life.” In that work, Law specifically linked the institutional environment with limited participation outcomes for persons with disability. One factor Law noted was “issues of poverty, costs of programs” (p. 644). In considering the eco-spirituality group, one key element in its design was that it would be practical, generalizable, and cost-efficient, enabling individuals to attend and participate in community-based nature spaces that would be freely accessible to them during their hospital tenure (if and when eligible for community pass participation) and also following discharge.

Theory employed in the provision of spiritual care also informed the group development. In particular, the spiritual care professional supporting the group approached development though a lens that first accounted for spiritually integrated psychotherapy concepts in considering how spirituality can contribute to wholeness and wellness for each individual (Pargament, 2011). As well, Fisher’s (2011) *Four Domains Model of Spiritual Health and Well Being* was considered. This model, which describes spiritual health as a “dynamic state of being,” includes among its four domains: “the personal…communal…environmental…transcendental” (p. 17). In particular, the authors adopted Fisher’s position that spirituality is innate and unifies the whole person.

Concepts of ecopsychology, as informing spiritual care, also influenced the group development. One example of this is work by Jordan (2015) who indicates: “ecopsychology has attempted to position the psyche as both needing to connect with the environment and suffering from the results of this disconnection” (p. 14). The articulation and examination of each participant’s experience at the conclusion of each session enabled dialogue about what Jordan (2015) calls “the reciprocal effects of human and natural world interaction” (p. 14). Finally, Perriam’s (2015) conceptual work on the concept of sacred spaces informed the group development, as participation in these enables individuals to have “active involvement in determining one’s well-being” (p. 29).

**Historical Context and Informers**

While a focus on “eco” or “nature” concepts may seem more prevalent today, history tells us that the natural environment has long held a key place in the mental health care milieu. The inclusion of accessible nature and outdoor spaces have been key tenets informing hospital and care facility design and care application dating back more than two centuries. Indeed, these concepts came to define care provision and hospital design for much of the 19th and early 20th century. Psychiatric facility designers of that era, adherents to the concept of Moral Treatment, sought to create environments (then called asylums) that enabled wellness with the natural environment as a key component. In York, English philanthropist and mental health reformer Samuel Tuke (1815) wrote about his design for the York Retreat:

There is not a shadow of a reason for insane persons, in general, being subjugated to the misery of gloom as well as confinement; and when it is considered how many hours patients of this description commonly spend in their bed-rooms, the absence of light must be, to many, a serious privation. (p. 39)

Charland (2007), in analysis of Tuke’s influential York Retreat, noted: “location and healthy activities were important ingredients of this healing environment (p. 66).
In the United States, psychiatrist and designer Thomas Story Kirkbride was significantly influenced by Tuke’s work. Kirkbride (1880), in writing about construction and organization of hospitals for persons with mental illness, supported grounds of “at least one hundred acres of land” and of those:

from thirty to fifty acres immediately around the buildings, should be appropriated as pleasure grounds, and should be so arranged and enclosed as to give the patients the full benefit of them, without being annoyed by the presence of visitors or others. It is desirable that several acres of this tract should be in groves or woodland, to furnish shade in summer. (p. 7)

In On the Construction, Organization, and General Arrangements of Hospitals for the Insane (1880), Kirkbride defined mental health facility construction in North America for more than half a century.

In New Zealand in the late 19th century Sir Frederic Truby King followed a similar philosophical approach. At the Seacliffe Asylum he linked agricultural and outdoor participation with positive psychiatric outcomes. Stock and Brickell (2013) noted “King shared a belief in the importance of fresh air and sunshine—the environment, if you will; if mental instability did set in, these elements offered the main route to recovery” (p. 109).

Outdoor occupational participation in agricultural tasks and farming has been co-occurring with mental health facilities and prisons for centuries. Of this, Sempik (2010) noted that “opportunities for physical labour, rehabilitation and often a pleasant pastime in the company of other people . . . the gardens and farms satisfied physical, social and productive needs of patients” (p. 16).

Modern Context and Informers

Participation in nature has been a significant historical informer in mental health care; it also has notable currency in the modern era. Several modern theoretical approaches have markedly influenced what seems a renewed centrality for nature/eco inputs in health care. First, the emergence of Wilson’s (1984) Biophilia Hypothesis identified that humans, inherently, have a fundamental and genetically informed need to affiliate and connect with other living organisms. Another influential approach, Kaplan’s (1995) Attention Restoration Theory, posited that participation in nature can promote wellness via restoration of a limited cognitive resource, directed attention. Another currently influential approach is the concept of Shinrin-Yoku (forest bathing). Originating in the 1980’s, forest bathing “is a traditional Japanese practice of immersing oneself in nature by mindfully using all five senses” (Hansen et al., 2017, p. 1). In application, research has identified some benefits for participants in reduction of stress, anxiety, and depression symptoms (Hansen et al., 2017; Oh et al., 2017). Interest in this approach has also included some evolution of and modification in mental health care settings to include walking in nature proximal to care facilities with some reasonable outcomes in symptom mediation for individuals with affective disorders and psychosis (Bielinis et al., 2019).

Interest and application of these concepts has, much like societal interest in “green” or “eco” concepts, increased over time. This appears to correlate with reasonable evidence that participation in green spaces and nature may potentially enable wide-ranging health benefits (Soga et al., 2020; Twohig-Bennett & Jones, 2018) and has led to the modern conceptualization of green prescription or spending time in nature to support wellness and mediate illness. Indeed, current generation smart phone apps have even been developed to support this purpose (McEwan et al., 2019). Despite the centrality of these concepts, there remain many unexplored questions about potential application and efficacy. Robinson et al. (2020), perhaps presciently, noted, “It is important to recognize that our complex societies have

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evolving views, social behaviours, and health-related needs, and it is unrealistic to view spending ‘time in nature’ as a panacea” (p. 2).

Given the relative centrality of nature and eco concepts it is perhaps not surprising that clinical application in mental health care has been notable. For example, research has examined participation in nature via walking to both mediate stress (Marselle et al., 2019) and reduce rumination (Lopes, 2020). Other applications have included applied outdoor mindfulness (Djernis et al., 2019) and even using nature participation as an adjunct to traditional return-to-work rehabilitation (Sahlin et al., 2015).

Occupational therapy has mirrored this enhanced focus on nature and eco inputs. The profession has a lengthy and diverse history of using nature in assessment and intervention and, in particular, via gardening and horticulture (Wagenfeld & Atchison, 2014). This has included, but not been limited to, supporting participant well-being and inclusion (Diamant & Waterhouse, 2010); considering participation impacts for urban office workers (Schefkind et al., 2019); and accounting for the unique influence and impact of spirituality (Unruh, 1997; Unruh & Hutchinson, 2011). Interdisciplinary work, involving occupational therapy inputs, has also been published in application of gardening and horticulture in supporting incarcerated females (Toews et al., 2018) and in several design applications in correctional settings (Toews et al., 2020; Wagenfeld & Winterbottom, 2021).

The use of nature, and horticulture in particular, in supporting care for varied conditions has also informed the occupational therapy literature. Among such work are studies that consider the impact of therapy involving nature application and sensory garden design for individuals with autism spectrum disorders (Singley et al., 2016; Wagenfeld et al., 2019). Design of outdoor spaces for individuals with PTSD has also been specifically considered (Wagenfeld et al., 2013).

Several studies have specifically noted the impact of horticulture therapy in mental illness. Sempik et al. (2014) identified positive changes in social interaction scoring following such participation. Kam and Siu (2010) reported significantly decreased anxiety, depression, and stress following a short (2 week) participation in a structured horticultural activity program. Cipriani et al. (2018) reported positive outcomes from participation in a greenhouse program, including feelings of accomplishment for participants. Summary analysis via systemic review shows participation in nature via horticulture therapy to “improve client factors and performance skills” (Cipriani et al., 2017, p. 47).

**The Forensic Mental Health Context**

The built forensic mental health environment is secure and supports a somewhat externally structured social and participatory environment (Manual of Operating Guidelines, 2019). Security measures, both active and passive, further define the space and each individual’s ability to navigate in it (Eggert et al., 2014). Often, in such designs there are purposefully constructed nature spaces or “therapy courtyards” and interior spaces offering enhanced natural light exposure (Behavioral Healthcare, 2015). Immersive and self-determined participation outdoors and in nature, as may be common for non-hospitalized individuals, is not typically viable or available in those settings (Heard et al., 2015).

While modern facility design compassionately prioritizes purpose-built nature courtyards, access to natural light, and enhanced views of nature, these offer neither an immersive nor a community-consistent opportunity for normative personal interaction with nature (Karlin & Zeiss, 2006; Sine & Hunt, 2009). Helsel (2018), in the context of providing spiritual care, has indicated that “land and person are tied up in an inextricable relationship” (p. 23). It is that relationship that inspired the ecospirituality group and this study.
This qualitative study considers the research question: What is the meaning and experience associated with participating in the ecospirituality group for persons with serious and persistent mental illness who reside in a forensic mental health setting.

**Method**

This study employed a qualitative research method that is consistent with Interpretative Phenomenological Analysis (IPA) in supporting data analysis and related coding (Smith, et al., 2009). This approach seemed the most reasonable as the purpose of this study was to enable some understanding of the experience and meaning of immersive and autonomous participation in nature spaces for individuals affiliated with a forensic mental health facility (Creswell, 2007; Smith et al., 2009). Smith (2011) has identified that “IPA is concerned with the detailed examination of personal lived experience, the meaning of experience to participants and how participants make sense of that experience” (p. 9). Prior to implementation of the study, institutional approval was obtained from the Research Ethics Board at the University of Western Ontario.

**Participants**

IPA is “an idiographic approach, concerned with understanding particular phenomena in particular contexts, IPA studies are conducted on small sample sizes” (Smith et al., 2009, p. 49). In this study, a process was put in place to obtain a sample consistent with an IPA approach. First, potential participants were identified by the group facilitators (occupational therapist and spiritual care professional). Following identification, the actual recruitment, consent, and interview process was facilitated by a third member of the research team, occupational therapist Jared Scott. Scott was a member of the community mental health team affiliated with the hospital. It is notable that this clinician and research team member did not have any role in the actual facilitation of the ecospirituality group. Scott also did not have any clinical contact with any of the participants prior to initiation of the recruitment, consent, and interview processes. Application of a recruitment and consent process of this nature mediated potential for coercion and enhanced the potential credibility of the data set. Given this context and approach, nine (n = 9) individuals residing at a large forensic mental health facility in Ontario, Canada, were recruited for participation.

In effecting of the above plan, individuals who indicated potential interest in participation were initially met by the co-investigator responsible for recruitment, consent, and interview. At that time, a letter of information was provided and follow-up arranged regarding study related questions. Following this process, informed consent could be obtained. It is notable that no payment, benefits, or other incentives were provided to any participant. While this approach to recruitment did, potentially, enable a convenience sample, it is important to note that research consistent with IPA requires both purposive and homogeneous sampling (Smith et al., 2009).

In working with the sample, an inclusion and exclusion criteria consisting of several parts was applied. The first component of the inclusion criteria required that all participants be persons with a diagnosis of serious and persistent mental illness and reside at the Southwest Centre for Forensic Mental Health Care under the jurisdiction of the Ontario Review Board secondary to their being found not criminally responsible because of commission of a serious criminal offense. Second, all participants included in the research must have participated in the Occupational Therapy/Spiritual Care Ecospirituality group program. In terms of exclusion criteria, any participant could be excluded from the study if the assessment of their clinical treatment team and/or the study investigators determined they could not safely participate.
The participants in this study were representative of the demographic characteristics of patients at the hospital. The sample (n = 9) was comprised of seven males and two females, and this was broadly consistent with gender ratios in the facility at the time of study completion. In terms of age, the sample ranged between 32 and 67 years with a mean age of 51.6 years and a median age of 54 years. Tenure in the forensic mental health system ranged between 2.5 and 16 years with a mean of 8.0 years. The sample was diagnostically diverse with schizophrenia, schizoaffective disorder, bipolar disorder, and delusional disorder representing the majority of the primary diagnoses.

**Procedures**

The participants in the study took part in a group called the ecospirituality group. This group was supported once per week over a 16-week period with a +/- 120 min duration. The group was facilitated by occupational therapy and/or spiritual care staff at each session with support from hospital nursing staff, as clinically indicated, in considering forensic mental health responsibilities to the Ontario Review Board. This approach enabled forensic client attendance at various nature and green spaces in the community accessible to the Southwest Centre for Forensic Mental Health Care. While forensic responsibilities were taken into account, the participants were maximally enabled to experience the nature setting as autonomously as possible (i.e., group facilitators maintained observation of participants over lines of sight enabling, typically, several thousand square meters, or more, for individuals to independently access). In application, this enabled the participants to experience the nature settings via their own preferences. This meant that individual participants could choose to access the nature space independently and to sit quietly and reflectively on their own. It also meant that individuals might choose to sit with peers or to walk some distance with them apart from other group members. Each individual participant was granted the agency to choose how they wished to participate and, accordingly, to define and narrate their own unique experience. At the conclusion of each group session spiritual care or occupational therapy staff supported a short group reflection exercise of +/- 15 min. Participation in the reflection was voluntary, not recorded, and included three questions:

- How was this experience for you?
- What did you notice (both internally, thoughts and feelings, and around you, externally)?
- What will you take away from this experience?

**Data Collection**

After consent was obtained and documented, a brief interview with each participant was undertaken. This interview occurred in the secure hospital setting at a time and location of the participant’s choosing and was facilitated by co-investigator Scott. The interview consisted of the collection of limited demographic information and several standardized questions. Responses were documented, verbatim, onto the interview form. The interview form did not contain any data that could specifically identify the research participant.

Standardized questions on the interview form related specifically to participation in the Occupational Therapy/Spiritual Care Ecospirituality group. They read as follows:

- How would you describe the experience of participating in the Occupational Therapy/Spiritual Care Ecospirituality group?
- How did you feel while participating in the Occupational Therapy/Spiritual Care Ecospirituality group?
How did participation in the Occupational Therapy/Spiritual Care Ecospirituality group impact or affect your stay in the hospital?

Interview participation time ranged from +/- 25 min on the low end to +/- 60 min in total. The transcribed data from each interview ranged between 2 and 4 pages.

Data Analysis

The collected data was immediately transcribed following the completion of all nine interviews. A coding process was then initiated. The coding team included the principal investigator, a spiritual care co-investigator, and a staff social worker. The first step of the coding process was completed using an editing style of analysis whereby each coder independently analyzed the transcribed interview data and emergent themes were identified (Jongbloed, 2000; Smith & Osborn, 2008). The three members of the coding team then met to collaboratively determine overarching or superordinate themes. After reaching agreement on definitions for each of the superordinate or overarching themes, these were tested for consistency. Accordingly, coding team members independently coded one transcript using the final coding scheme and definitions. Final coding agreement was found to be 87.1%.

Trustworthiness

Rodham, Fox, and Doran (2015) have published specifically on the concept of analytical trustworthiness in IPA. They note that, “typically authors explain how they conduct interpretative phenomenological analysis (IPA), but fail to explain how they ensured that their analytical process was trustworthy” (p. 59). Aware of Rodham et al.’s (2015) work, our team has prioritized the same concepts highlighted in their article, including a sensitivity to context, a focus on rigor, evident transparency, and documentation of impact.

Rodham’s team focuses on a process that advocates data coding at a team level (consistent with our own). Rodham’s team advocates that all analysts participate in listening to the recordings (our team transcribed the data and our analysts reviewed all of that content). Second, they advise sharing of any fieldwork notes made from each interview (our team included this content, as indicated). Third, they advise some inclusion of reflexive content in transcripts (our team specifically named our approaches to trustworthiness, provided a rationale for the same, and maintained a field journal). Finally, Rodham’s team “emphasize the importance of establishing a supportive environment where colleagues engaged in a shared analysis of the data can question and critically engage in one another’s interpretations” (p. 69).

Our research team takes these processes seriously. Using multiple coders on our teams from different professions and backgrounds enabled the shared analysis Rodham et al. (2015) advocate. Our team, using three professionally diverse coders, identified that this approach supports triangulation by theory and perspective (Hammell & Carpenter, 2000). We also used peer review as “this enables a further instance of triangulation” (Hammell & Carpenter, 2000, p. 111). Perhaps most importantly, our team employed member checking, as this supports “enhancing credibility and the ability for participants to meaningfully contribute to the research process” (Doyle, 2007, p. 894). Finally, we will securely store our records for 15 years enabling our team the ability to revisit the content, if indicated.

Results

The data analysis supported the identification of several unique themes for each interview question. These themes described the meaning and experience associated with participating in the ecospirituality group program for persons residing at a forensic mental health care facility.
Table 1

Superordinate and Overarching Themes

<table>
<thead>
<tr>
<th>Question</th>
<th>Superordinate/Overarching Themes</th>
</tr>
</thead>
<tbody>
<tr>
<td>How would you describe the experience of participating in the Occupational Therapy and Spiritual Care Ecospirituality group?</td>
<td>• A sense of communion and connection with nature</td>
</tr>
<tr>
<td></td>
<td>• An opportunity for open and unguarded reflection and relaxation</td>
</tr>
<tr>
<td></td>
<td>• A strengthened human connection and a sense of camaraderie though shared experience in nature</td>
</tr>
<tr>
<td>How did you feel while participating in the Occupational Therapy and Spiritual Care Ecospirituality group?</td>
<td>• A sense of peace, comfort, serenity, and accomplishment</td>
</tr>
<tr>
<td></td>
<td>• A feeling of freedom, autonomy, and personal agency</td>
</tr>
<tr>
<td></td>
<td>• A connection to the personally sacred</td>
</tr>
<tr>
<td>How did participation in the Occupational Therapy and Spiritual Care Ecospirituality group impact or affect your stay in the hospital?</td>
<td>• Regenerative and restorative participation</td>
</tr>
<tr>
<td></td>
<td>• Easy and accessible stress relief</td>
</tr>
<tr>
<td></td>
<td>• Supported resiliency and meaningful connection with others</td>
</tr>
</tbody>
</table>

The Experience of Ecospirituality

The participants described several outcomes related to their participation in the Occupational Therapy/Spiritual Care Ecospirituality group. An overarching theme described the experience as enabling a sense of communion and connection with nature. One participant, in positing this view, stated: “I describe it as being surrounded by nature. It’s always interesting to get fresh air and to observe the animals and trees and everything to do with nature” (Participant 3). Several other participants similarly reflected this type of immersive and personal connection with nature: “the entire time I was out in nature and things were balanced at the time. It was a very precious moment for me. I was out observing nature being one with nature” (Participant 9). Another noted, succinctly: “some people need it more than others; you feel like you’re at home” (Participant 1).

While connection with nature was identified as important, the participants in the group also identified the opportunity for unguarded reflection and relaxation. One participant noted that the group enabled them, stating: “You can think about you. It’s time for that and it’s nice because it’s peaceful” (Participant 8). A second followed this line of thinking, noting: “I was absorbing all the positive energy given to me by the surroundings I was in, by the people I was with. Everything was very organized and put together so I could just be and think and not worry” (Participant 9). Several of the participants reported on the opportunity to be in nature: “it was relaxing” (Participant 7) and “I love the outdoors, I like to be outdoors, it helps me think” (Participant 5).

Being in nature and sharing an experience with a group of peers enabled the participants to identify feelings of an enhanced human connection and a sense of camaraderie. A participant spoke to this shared experience: “Overall, very good. It was relaxing. I think there was a bonding between individuals who went, to take a look at nature and reflect on it. To discuss it as a group with other people in a group setting” (Participant 4). Others reflected positively on the supportive facilitation: “I also find it a very friendly atmosphere with your fellow patients and the staff. It’s very relaxing and I enjoy the camaraderie we have together” (Participant 3). Another similarly noted: “it was very serene and the spiritual care staff was inspiring in their discussions about nature. It was an enjoyable experience”
A participant summarized their feelings of the group influence, noting: “it is different than just going for a walk because you are with the group. You can be with other people and think about things. You can share with others and talk to them about your thoughts” (Participant 8).

**The Effect of Ecospirituality**

A key question in this study looked at how the participants considered the effect of participation or how they felt while immersed in nature via a supported group context. The participants identified themes that spoke to important personal outcomes. The first of these related to feeling a sense of peace, comfort, serenity, and accomplishment. These findings were reflected in various personal narratives: “I was going through a pretty rough time in my life at the time so it felt pretty good. Just the staff and being in the environment, and being around people who care about you. It was really good” (Participant 2). Another spoke to the relevance of being outside: “when I’m outside I am comforted. I feel good when I’m outside or in nature. Both in a group or own my own. It’s about being outside – it makes me feel better” (Participant 6). The peaceful nature of the outdoors spoke to some participants: “it was a lot more therapeutic being outside. Being somewhere special” (Participant 2). Finally, a participant spoke specifically to the personal value of participation: “you learn stuff and I feel like you have accomplished something. It’s a good feeling” (Participant 1).

Each participant narrative was unique but spoke to their connection with nature and with the group:

> When you walk along with other people you have to carry on a conversation or you can walk along in silence, too. They say silence is golden. I like the company of walking with others and I feel like that’s assistance, too. But I also want to do things on my own and be independent. (Participant 3)

The opportunity to participate independently, with peers or staff, informed some of the participants: “we all shared our ideas and thoughts about nature and the spirituality of nature and the balance of the universe and I learned a lot” (Participant 9). Another indicated: “when I walk by myself I say a few poems to myself or pray a little bit” (Participant 3). One participant summarized their experience: “Peaceful. The different venues, for example, we saw turtles and saw a crane and different animals and insects and it was a great experience to share that with people. I really enjoyed it” (Participant 4).

**The Impact of Ecospirituality**

The participants in the Occupational Therapy/Spiritual Care Ecospirituality group discussed the impacts of the group and how it affected their stay in the hospital. These impacts, it seems, were multifaceted and spoke to three fairly discrete themes. The first of these spoke to the concept that participation in the group was both regenerative and restorative. One participant noted:

> I do look forward to the group being in nature but sometimes I have to be persuaded to go. Sometimes I feel aches and pains through my body and I have to be careful so sometimes I’m not sure if I want to go. But when I go, I always feel better inside. (Participant 3)

Another participant reflected: “well, it was good to get out of the hospital. To go for a ride in the van and I felt good after we got back. The walks made me feel good” (Participant 7). Finally, a participant spoke to a more personal impact: “it created memories for me because I didn’t know the forensic
hospital offered groups like that. I was very happy to get out and get to the outside world, in nature, more” (Participant 9).

Beyond supporting regenerative and restorative outcomes, the participants’ experiences also spoke to an overarching theme of easy and accessible stress relief. The participants described this content in varied ways with some quite explicitly identifying this feature of the group:

I feel less stressed out. The time is helpful to break my daytime down. I feel more rested. Overall, it was a good experience. Everyone in the hospital could do it and it would help them. It is nice to be outside the hospital. (Participant 8)

Others were less explicit but noted a similar sentiment: “it made me a lot happier. It brought me back to myself a little bit and I was able to focus on myself more” (Participant 2). Some participants spoke to more of a long-term applicability in terms of stress relief and application of eco concepts in their own day-to-day living: “I can go outside and find a quiet place or park or trees and walk on my own to help me calm down, to just be out in the open” (Participant 7). Other participants spoke to more immediate application, noting: “You get rid of pressure. In your body and in your head. You get rid of all the stress, all your pressures. You feel good about yourself. You relieve the stress” (Participant 5).

The final overarching theme in terms of impact related to how participation supported resiliency and connection to others. Several of the participants spoke to a more practical view of connection and related resiliency development: “It’s good programs. It helps people connect with each other in new and different ways” (Participant 1). Another participant reflected this same concept: “In the group you are not by yourself, you have other people with you who experience the same thing, nature, and they can share that experience with you” (Participant 7). Other participants took a broader view of the group and related connection and resiliency outcomes:

It changed my memories of the hospital. It built up my emotions and trust with the hospital. It showed me there was some sort of care and connection to nature and the world. To make people feel valued and connected. To have hope and faith, to recognize how we celebrate that – our connection to nature as people, as humans. (Participant 9)

Perhaps most importantly, the group supported a real connection between peers: “it was something that I talked to and with my peers about. I would tell other people where we went and what we saw and the different questions that were asked of us and my reflections” (Participant 4).

Discussion

Ecospirituality Group Participation in Context

The results of this study identify a number of compelling narratives. Among these, the participants in the Occupational Therapy/Spiritual Care Ecospirituality group described an experience that enabled both personal autonomy and self-determinism. They described this participation experience as enabling success and feelings of achievement. This would be consistent with those elements of empowerment that are a core concept of the World Health Organization’s (WHO) vision of health promotion. Indeed, the WHO (2010) note that:

For the individual, the empowerment process means overcoming a state of powerlessness and gaining control of one’s life. The process starts with individually defined needs and ambitions and focuses on the development of capacities and resources that support it. The empowerment of
individuals is intended to help them adopt self-determination and autonomy, exert more influence on social and political decision-making processes and gain increased self-esteem. (p. 1)

The participants spoke plainly to these concepts when describing the participation experience of the ecospirituality group. This concept of empowerment appears particularly relevant in the forensic mental health milieu where opportunities for autonomy and self-determination in occupational participation cannot always be part of the recovery journey secondary to those legal aspects that inform care (Ontario Review Board, 2011).

In reviewing the outcomes of this study in consideration of current literature related to mental health care, it appears that many existing approaches do not tend toward privileging the autonomy and personal agency of each individual. Rather, it appears that much of this work is targeted toward enabling the client to meet some externally defined wellness or discharge related criteria. Hamilton (2017) describes this situation as secondary to “deficit-centric discourses” defining care interactions (p. 2). As an example of this concept, the high volume of literature supporting group interventions related to social skill development, anger management, and assertiveness speak directly to this narrative. This is not to minimize the potential clinical relevance, perhaps, of such groups, but it is compelling to consider the influence of externally defined, deficit informed care.

For individuals residing in secure mental health facilities, or secure settings more generally, concepts of autonomy, determinism, and success experience may not always be common informers in care participation (Heard et al., 2015). As such, participation in the ecospirituality group, as described in this study, does mark a fairly significant departure from the existing deficit informed hegemony. For health care providers considering this type of group it may feel like there is some tension in supporting a more open-ended participant-defined experience versus supporting an outcome driven group answerable to some type of deficit. If such tensions can be accepted, then the ecospirituality group offers a particularly practical and cost-effective approach to care that speaks to real-world applicability in terms of leisure participation, relaxation, stress relief, and connection with the personally sacred.

Ultimately, health care providers have at their disposal a domain, nature, in which spirituality and spiritual health can be nurtured and promoted. This domain, according to Fisher (2011), moves “beyond care and nurture for the physical and biological, to a sense of awe and wonder…[and]…for some…the notion of unity with the environment” (p. 22). Fisher argues that spiritual health is the “fundamental dimension of people’s overall health and well-being, permeating and integrating all the other dimensions of health,” describing spiritual health as a “dynamic state of being, reflected in the quality of relationships that people have in up to four domains of spiritual well-being: personal domain…communal domain…environmental domain…transcendental domain” (p. 17). To assist in explaining the interrelationship between the four domains, Fisher refers to the notion of progressive synergism, stating it “implies that the more embracing domains of spiritual well-being not only build on, but also build up, the ones they include” (p. 23). The authors of this study did observe multiple occurrences where a participant’s sense of self, connection to others, and to the personally sacred were maximized because of their accessing local nature spaces and their capacity to self-author these experiences.

**Implications for Practice**

This study describes the significant impacts that access to natural environments, and the ability to self-author those experiences, can have in the lives of individuals residing in a forensic mental health...
system. While the sample was comprised of individuals affiliated with a forensic mental health hospital, it may be reasonable to posit that the most powerful impacts of participation would be optimal in any care setting or context. Indeed, the potential to support feelings of freedom, autonomy, personal agency, stress relief, and relaxation is a compelling driver for any clinical work. Given that narrative, the results of this study identify several important implications for mental health practice and, perhaps, clinical practice more generally:

- Enabling immersive experiences in nature supports participants to access, learn, and potentially replicate cost-efficient opportunities for stress relief.
- Unlike deficit informed approaches, these experiences (where individuals have the autonomy to determine the scope of their participation in the nature space) privilege the personal agency, experience, and wisdom of each participant.
- The results of this study speak to the centrality of nature as an informer in care. At a practical level it appears that enhancing access to such spaces may have a significant and positive impact on occupational performance, wellness, and the personal experience of spirituality. Accordingly, it may be relevant to consider how accessible nature and immersive nature spaces might play an enhanced role in the care paradigm via building and facility design, supported community access, or programmatic focus.
- Participation in ecospirituality group creates space or allows for theological and spiritual reflection and enables the development of personal wisdom.

**Limitations and Directions for Future Research**

It is important to note that this study does have limitations. First, while the sample correlates fairly reasonably with the demographic norms for the facility, the study did occur at a single forensic hospital in Ontario, Canada. This sample size, at \(n = 9\), is relatively small and, at some level, this may limit potential generalizability. That said, it should be noted that in employing a design consistent with IPA, it is required that the sample is more or less homogeneous and purposefully selected (Smith et al., 2009). In considering future research, further study may be compelling in considering the varied potential benefits that self-authored and autonomous participation in nature might enable for different clinical populations. It is not difficult to forecast that this type of easily accessible and inexpensive spirituality-focused intervention may well have clinical applicability with a wide array of clinical populations.

**Conclusion**

The outcomes of this study speak to the centrality of personal interaction with nature and its implication for health, wellness, and connection to the personally sacred. The opportunity to narrate this interaction via personal agency in those nature spaces, and to allow what Kirkbride (1880) might refer to as “the full benefit of them,” also appears relevant (p. 7). In a practical way, supporting and enabling immersive personal interaction with nature for those who are mentally ill, incarcerated, or otherwise vulnerable may offer an important pathway to wellness. Compellingly, it appears that this pathway was, historically, quite explicitly acknowledged and accounted for in the works of Tuke (1815) and Kirkbride (1880) and in the practice of Truby King (Stock & Brickell, 2013). Perhaps the wisdom of past generations regarding the value of immersive participation and personal autonomy in natural environments may hold a key to future healing, wellness, occupational performance, and experience of the personally sacred.
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