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1 ABSTRACT

- 2 Aim
- 3 To report a potential knowledge exchange between nursing studies and the results obtained from
- 4 a study conducted into the attributes of embodied leadership.
- 5 Background
- 6 Leadership theories have been applied to evaluate, improve and train nursing practitioners in
- 7 several previous studies. However, leadership research has entered a new phase where the focus
- 8 is to produce sustainable leaders through authenticity and compassion, the same two
- 9 characteristics identified as being of most success in emergent nursing practice. There are few
- studies that have indicated a knowledge exchange between the latest developments in leadership
- 11 studies and nursing.
- 12 Design
- 13 An exploratory and qualitative study.
- 14 Method
- 15 Between February 2012 July 2012, a focused sample of 14 medical care professionals was
- 16 interviewed across a chain of hospitals. The aim was to evaluate embodied leadership
- 17 characteristics and understand the factors that contribute to the manifestation of these
- characteristics. The transcribed interviews were analysed using thematic analysis.
- 19 Findings
- 20 Several factors that contribute to the characteristics of embodied leadership have been identified
- 21 in the interviews as well as in subsequent literature searches on the characteristics and

- 1 contributing factors found to be associated with nursing research. These could prompt a
- 2 knowledge exchange.
- 3 Conclusion
- 4 The results suggest common ground between nursing and contemporary leadership research in
- 5 the exposition of behaviours; namely, being non-judgmental, listening actively, reflective
- 6 practice and embracing uncertainty. Several implications can therefore be expected through the
- 7 exchange of knowledge resulting from collaboration between researchers in the two disciplines.
- 9 KEYWORDS

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10 Leadership, emotional intelligence, nurse education, care giving, nurse roles, nursing theory

SUMMARY STATEMENT

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2	why is this research or review needed?
3	• To explore the extent and usefulness of knowledge exchange between
4	embodied leadership and nursing research.
5	• Leadership in nursing is recognized as a major factor in improving both
6	patient care and staff relationships in the nursing community.
7	What are the key findings?
8	• Some factors implicit in embodied leadership have been identified in the
9	medical care sector.
10	• There are several overlaps, in the area of compassionate care, between
11	people in nursing and embodied leadership and other disciplines.
12	How should the findings be used to influence policy/practice/research/education?
13	• The findings could be introduced through continuing professional
14	development programmes and professional mentoring undertaken by nurses.
15	• Further research in other locations is necessary to corroborate the findings
16	and investigate whether the results could be replicated elsewhere, possibly leading to
17	a further exchange of knowledge between nursing and leadership studies.
18	• Established organisational development strategies could be amended to
19	recruit and train individuals differently in response to the findings.
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INTRODUCTION

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- 2 Nursing has been deeply affected by recent changes in healthcare funding and the economic
- 3 crisis, which in some cases has led to workforce cuts. Numerous reports suggest that employees
- 4 in the health sector, especially those directly involved with patients, are in an environment of
- 5 constant stress (Wilkinson, 2015; Rankin & Campbell, 2007; McVicar, 2003), raising health and
- 6 safety concerns not only for the patients under their care, but also for the workforce (Wilkinson,
- 7 2015).

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- 8 Personnel in the private sector have been able to perform effectively under similar levels of
- 9 stress through training in leadership theory and being entrusted to take increased responsibility
 - and independent decisions. Such employees subsequently demonstrated increased commitment,
- engagement and sense of purpose regarding their professional duties. Despite the availability of
- such measures, however, nursing still faces challenges resulting from stressful working
- conditions. Recent developments emerging from leadership studies have come from authentic
- 14 (Avolio & Gardner 2005; Wong & Laschinger, 2012) and transformational theories. In particular,
- the work on embodied leadership (Sice et al., 2013; Koya et al., 2015), proposes a series of
- leadership characteristics that could, if refined and tailored, support employees in stressful
- 17 situations. This present study has further investigated embodied leadership characteristics in
- medical care professionals to understand the factors that contribute its personification.

BACKGROUND

- 20 Theoretical Framework
- 21 The roots of embodied leadership lie in the combination of transformational (Bass, 1998),
- 22 authentic (Avolio & Gardner, 2005) and resonant leadership (Boyatzis & McKee, 2005) theories.
- Building on Scharmer's (2008) work on identifying the scotoma in leadership studies, embodied

leadership aspires to create a model that could assist individuals to actually 'become' leaders, in

contrast to 'acting' as leaders. It proposes the model based on Maturana and Varela's (1987)

theory of enaction. This suggests the standard of human experience is based on reciprocity

between social and biological dynamics, implying that leadership is a capability that can

materialize through the possession of enhanced biological functions, cognitive functions and

better social interactions. Based on this understanding, the embodied leadership model of Koya

et al. identifies several characteristics which are believed to underpin embodied leadership in

individuals: being non-judgemental, listening actively, tolerance of uncertainty, intuition

(through patterned thinking), ethics and values, authentic presence, intention, meaning/purpose

and holistic decision-making.

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INSERT TABLE 1

The embodied leadership characteristics are of interest to researchers in transformational, authentic and embodied leadership. It is suggested that individuals who embody these characteristics have better relationships with their co-workers, improved performance (Avolio & Gardner, 2005), less stress (Boyatzis & McKee, 2005; Koya et al., 2015) and make better strategic decisions (Ilies et al., 2005). It is therefore worthwhile to better understand the factors or practices that will enable health professionals to learn to become embodied leaders and healthier employees.

LITERATURE REVIEW

20 Embodied Leadership

- 21 Embodied leadership posits linearity in behavioural aspects, physiological dynamics and social
- 22 dynamics in a human experiential phenomenon: leadership. The idea of correlations in
- behaviours and physiology between individuals originates from Maturana and Varela's (1987)

- theory of enaction and the more recent interpersonal neurobiology work of Siegel (2007).
- 2 Leadership studies, which had been undergoing a transformation, began focusing on more
- 3 comprehensive ways to train leaders. Authentic and resonant leadership perspectives were also
- 4 starting to emerge. Various studies between leaders and their subordinates have linked
- 5 supportive behaviours and wellbeing to performance (Bass, 1998; Lipman-Blumen, 2000; Sice &
- 6 French, 2004; Bernerth et al., 2007; Komives et al., 2009). Several works on transformational
- 7 leadership (Bommer et al., 2004; Lyons & Schneider 2009; Avolio & Gardner, 2005),
- 8 charismatic leadership (Conger et al., 2009; Rowold & Laukamp, 2009) and destructive
- 9 leadership (Schaubroeck et al., 2007; Tepper, 2000) have recognized that supportive behaviours,
- wellbeing and performance relationships have implications for the effectiveness of organizations
- 11 (Padilla et al; 2007, Einarsen et al., 2007). Boyatzis and McKee's (2005) work on resonant and
- dissonant leadership highlights clearly how different leadership approaches lead to different
- physiological and behavioural outcomes. Supportive behaviours, according to Boyatzis et al.
- 14 (2012), lead to 'high quality connections', where both leaders and their staff benefit from better
- physiological health (Heaphy & Dutton, 2008), positive behavioural change in the organization
- 16 (Dutton, 2003), improved potential (Carmeli et al., 2009; Lilius et al., 2008; Roberts, 2007;
- Boyatzis et al., 2006) and an overall subjective experience of wellbeing (Miller & Stiver, 1997;
- Quinn & Dutton, 2005). Such findings have been substantially corroborated across education,
- 19 health and several private sector organisations. The nursing profession/role, however, is in need
- of review, based on the findings of embodied leadership in particular.
- 21 The Potential Contribution to Nursing of Embodied Leadership
- 22 Recent reports have indicated the various challenges leaders in nursing have faced from staff in
- 23 recent years, such as exhaustion, attitude and behavioural problems and poor health, leading to

- sickness absence, which adversely affects patient care (Wilkinson, 2015; Rankin & Campbell,
- 2 2007; McVicar, 2003).

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3 Some work has been done on how this situation can be improved. Wong & Laschinger (2012) point out how structural empowerment (Kanter, 1993) leads to behavioural changes towards 4 becoming authentic individuals, similar to how the behaviours are imparted from leader to 5 6 subordinate as stated in authentic leadership theory (Avolio & Gardner, 2005). Additionally, 7 authentic and transformational leadership studies in nursing demonstrate the positive correlation 8 in attitudes and behaviours between nurse leaders and their staff (Wong & Laschinger, 2013). 9 Resonant leadership theories provide an interpersonal neurobiological understanding. However, studies on wellbeing and leadership in nursing have often been limited and anecdotal. 10 11 Furthermore, and importantly, while most leadership theories provide an explanation for the behaviour of leaders towards their staff, their solutions only seem to encourage people to act as 12 leaders rather than become leaders. Also, research undertaken in this area has confined itself to a 13 few people in leadership positions in the organization. This narrow perspective has precluded the 14 opportunity and possibility of developing leadership capabilities in greater numbers of 15 16 individuals, apart from those in traditional leadership positions. Embodied leadership can, 17 however, be adopted by people in healthcare at all levels. Embodied leadership distinguishes itself by empowering individuals through enabling them to 18 develop themselves as genuine and whole leaders. The behavioural characteristics of embodied 19 20 leadership, as listed in Table 1, have been recognized by studies in various sectors, including finance, healthcare and education (Miller & Stiver, 1997; Quinn & Dutton, 2005; Carmeli et al., 21 22 2009; Lilius et al., 2008; Roberts, 2007; Boyatzis et al., 2006; Dutton, 2003). The same studies

have not, however, been accepted as the sum of the whole - as the personification of embodied

leadership - in nursing; the characteristics have merely been accepted individually. Being non-

1 judgmental, for instance, has been recommended to care workers as a professional duty (Koh, 1999), as it builds compassion and higher quality nursing (Gilbert, 2009). Active listening too, a 2 skill that involves multiple senses (Davidhizar, 2003), has been found to be vital as it can assist 3 4 nurses to empathize with their patients and help to cross cultural boundaries. Embracing 5 uncertainty, as a daily part of nursing life, is well documented (Thompson & Dowding, 2000; Vaismoradi et al., 2001; Penrod, 2001). Thompson and Dowding's (2001) work on dealing with 6 7 uncertainty is built on three principles, rationality, bounded rationality and intuition, which are 8 drawn from experience and cognitive performance. Intuition in nursing practice has been quite widely researched; (McCutcheon & Pincombe, 2001; Young, 1987; Gobet & Chassy, 2008; Rew 9 & Barrow Jr., 2007). Moreover, universal ethics and values as essential nursing characteristic 10 have received tremendous support from practitioners and researchers alike (Milton, 2007). So too 11 have the characteristics of intention (Watson, 2002; Johns & Freshwater, 2009; Zahourek, 2005, 12 Yegdich 1999) and meaning and purpose (Ross, 1994; Baldachino & Draper, 2001; Sessana, et 13 al., 2007). Reflective practice is recognized as assisting nurses, individually and in groups, to 14 15 reflect on their practice to generate fresh ways of working (Bulman & Schutz, 2013; Howe, 2006; Jarvis, 1992; Platzer et al., 2000). Authentic presence can be described as understanding one's 16 own thinking and being mindful of one's presence. Several studies in nursing mention this 17 characteristic, although it has multiple interpretations (Watson, 2002; Watson, 2012). Decision-18 19 making at all levels is the essence of nursing (Orme & Maggs, 1993) and, in the theory of 20 embodied leadership, holistic decision-making is the practice of taking into account all the 21 aforementioned characteristics before acting. 22 The characteristics that constitute embodied leadership are intrinsically linked to compassionate 23 nursing; hence, the authors believe that embodied leadership characteristics are consonant with/ compatible with/ in agreement with the concept of compassionate nursing. Although 24 compassionate nursing has not yet been clearly defined, owing to its subjective nature 25

- 1 (Straughair, 2012; Curtis, 2013), this present research suggests that embodied leadership
- 2 characteristics contribute to understanding compassionate practices in nursing. New
- 3 contributions and an exchange of knowledge between nursing and leadership studies can,
- 4 therefore, only enhance both research areas.

THE STUDY

7 Aim

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- 8 The aim of this study is to explore and understand the factors contributing to, or influencing, the
- 9 development of embodied leadership attributes in medical care professionals. Hence, to report a
- potential knowledge exchange between nursing studies and the results obtained from a study
- 11 conducted into the attributes of embodied leadership.
- 12 Research Design
- 13 The study applied an exploratory and qualitative design to recognize what facilitated/ facilitates
- the development of the characteristics of embodied leadership and takes an interpretivist stance
- on the results. Semi-structured interviews were designed to guide the participants through this
- 16 exploration.
- 17 Sample
- 18 A sample of 14 medical care professionals (2 chief physicians, 1 senior consultant, 1 consultant,
- 19 3 nurse practitioners and 7 registered nurses) was recruited on a voluntary basis in two clinics
- 20 located in Hyderabad, India, where the researchers were working as contractors to build an
- 21 integrative patient records management system. As the clinics were small, the researchers
- 22 communicated personally with all staff regarding the study and sought their willingness to

- 1 participate. The participants were required to have been employed full-time for at least one year
- 2 and to comprehend and speaking English. Qualitative studies such as this do not necessarily
- 3 represent a population; rather, they attempt to generate insight and meaning. Thus, there were no
- 4 principles involved in the sample other than considerations of practicality, purpose and interview
- 5 design (Troachim et al., 2006).
- 6 Data Collection

- 7 Semi-structured interviews were scheduled and took place over a period of 5 months, from
- 8 February 2012 to July 2012. Most of the interviews were scheduled in the afternoon, as this was
 - the time when participants were less busy and in a more relaxed state of mind. The participants
- were evaluated on their present, past and desired competency in demonstrating the embodied
- leadership characteristics (Table 1). A visual analogue scale was provided to assist the
- participants to rate themselves between 0 to 10, with 0 being the worst score and 10 being the
- best. The computer application ExpressScribe was used to record the interview, the design of
- which is further elaborated in Figure 1. Four pilot interviews were conducted prior to the actual
- 15 research and analysed for the purpose of improving interviewing skills and time management.
- 16 The pilot interviews were not included in the final analysis. Questions in the form of closed-
- ended questions (questions leading to "yes" or "no" answers) and any irrelevancies that emerged
- were later modified to make the interviews more open and informative.
- 19 Interview Design
- 20 The interview was designed to encourage self-evaluation and reflection by the participant. The
- 21 interviewer's role was limited to guiding this reflection, with no attempt to influence the
- 22 participant. Each characteristic of embodied leadership was explored and investigated using the
- 23 above interview guide. The visual analogue scale provided a constant reference, enabling all

- 1 participants to identify accurately their ratings, 10 being the best and 0 being the worst. The
- 2 interview process was set up in five stages:
- 3 Stage A: The question at this stage is a self-evaluation of the participant's current performance of
- 4 the characteristics.
- 5 Stage B: The purpose of this question is to gain insight into the participant's past performance of
- 6 the characteristics.
- 7 Between Stage B & Stage C: If the participant's past score was lower than their present score, it
- 8 was assumed that they had made a subsequent improvement, so a question as to how they
- 9 managed the improvement was asked. If the participant's score was higher than their present
- score, it was assumed that they had been challenged in some way and they were questioned as to
- 11 the reason behind this. Real life scenarios and instances were requested as part of the
- 12 conversation at this stage:
- 13 Stage C: This stage is about understanding the participant's desired behaviour as regards the
- 14 characteristics.
- 15 Stage D: The final stage aims to understand what factors could support and assist the participant
- in improving their score so as to reach their desired behaviour. It also helps us to understand
- whether the environment around the participant is conducive to change.
- 18 Ethical Considerations
- 19 The Research Ethics Committee of Northumbria University approved this study and the review
- 20 board conducted an evaluation on this study to review informed consent, data protection, storage,
- 21 coding and privacy.
- 22 Data Analysis

- 1 Descriptive statistics was employed to understand the demographics of the participants; namely,
- 2 the Statistical Program for Social Sciences (SPSS 17.0). The transcribed interviews were coded
- 3 systematically, compared (Corbin & Strauss, 1998) and analysed in Nvivo 8 and MS Excel,
- 4 using thematic analysis from a grounded theory approach. It should be clarified again that this is
- 5 not a grounded theory study; rather it uses the coding technique, where the results are grounded
- 6 in the data. The open codes are the embodied leadership characteristics (Table 1), which were
- 7 further explored through the interview in an effort to understand the nature of their manifestation.
- 8 A detailed analysis of the transcriptions identified phrases and words, which were then
- 9 conceptually grouped as themes. Memos were made during analysis to keep track of the subtle
- semantic nature of themes. Selective coding was employed to understand the relationship
- between the characteristics of embodied leadership and the factors that contribute towards their
- 12 personification.
- 13 Rigour
- Reflexivity and sensitivity to the verbatim was promoted through dialogue with the participants
- and the interviewer (Hall & Callery, 2001). The validity of the study followed Lincoln and
- Guba's (1986) criterion for qualitative study, which, essentially, is to address credibility,
- transferability, dependability and confirmability. The rigour of the study can be judged by the
- author's reflection on the data, the consideration given to multiple perspectives and the research
- process itself. At every stage of the interview, the participants were given freedom to express
- 20 themselves and the interpretations made by the author during the interview were reconfirmed by
- 21 the participants through ongoing clarification. The overarching themes appeared after eight
- 22 interviews; however, it was decided to complete the fourteen interviews, although data saturation
- appeared to have occurred by this point.
- 24 Findings

- 1 Descriptive statistics
- 2 Fourteen participants between the ages of 20-45 took part in the study (Mean 29.35 years;
- 3 Standard deviation 6.11). The medical care providers ranged from newly qualified staff to highly
- 4 experienced individuals who had been in nursing for well over twenty years.
- 5 Themes
- 6 The study revealed that each characteristic had its own set of factors (grouped as themes in the
- 7 results section) contributing towards its embodiment in the participants. The characteristics and
- 8 contributing factors are summarised in figure 2. The factors emerged from the participants'
- 9 experiences of what they thought had assisted them in building each characteristic at Stage D and
- between Stage B and Stage C of the interview they describe how to improve their ability in each
- 11 characteristic, based on their perspective of their world. The scenarios or circumstances
- described by the participants were from the past and present of both their personal and
- professional lives. The participants' desired goals provided insight into the usefulness of their
- current circumstances as regards enabling them to move forward.

RESULTS AND DISCUSSION

17 Vocational Skills

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- Vocational skills such as knowledge, maximising potential, experience and planning skills,
- 19 contributed to being able to be non-judgmental, dealing with uncertainty, active listening,
- 20 intuition and holistic decision-making. This effectively assisted the staff to perform their duties:
- 21 ...updating my knowledge allows me to take decisions that can lead to uncertain
- consequences.

...practice, experience, knowledge and an intent to work has helped me immensely in

what I do.

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3 Working responsibly in a particular position increases knowledge in the specific area and leads to a non-judgmental attitude (Youngson, 2011), enhanced ability to deal with uncertainty (Slovic 4 et al., 2005) and intuitive capabilities through creating a knowledge base (Burns & Grove, 2010). 5 6 All of this ultimately leads to better decision-making (Standing, 2007; Hoffman et al., 2004; 7 Kuiper & Pesut, 2004). The participants in this study also felt that having a knowledge sharing 8 system in clinics would assist in better performance (Ditillo, 2004; Mosindi & Sice, 2011). This is backed by research in nursing and healthcare studies by Youngson (2011) and research in the 9 areas of exercise physiology (Lenton et al., 2008), probability (Manski, 2004) and medicine 10 11 (Giustini, 2006), which have demonstrated that when experience is fed into a system, individuals in the system responded better to uncertain situations and made better decisions. It is also a 12 generally accepted fact that, in human systems, experience increases knowledge and, thus, 13 improves potential growth in uncertain periods (Argote & Miron-Spektor, 2011; Taylor & Greve, 14 2006). This was also the general opinion of the participants during the interviews but it was 15 16 noted that subjective experience should be combined with interpersonal skills (Nolan & Bradley, 17 2008) to create smoother operations in the organization. Planning skills underpin the functional effectiveness of any leader (Derue et al., 2011). 18 Participants agreed that they appeared to constitute a crucial factor when handling uncertain 19 20 situations as they assisted in making good decisions. They also agreed that forethought and planning provided direction and stability, essentially achieved through divergent thinking 21 (Neufville, 2003). Divergent thinking is the systemic process of generating creative ideas by 22 exploring as many solutions as possible (McCrae, 1987). Montana and Charnov (2008) 23 demonstrate this by proposing a three-step process that could be implemented to improve 24

- 1 planning in every aspect of management science, including the care sector. The three steps are:
- 2 choose a goal; think and evaluate directions to reach that goal; choose a direction. Neufville
- 3 (2003) also demonstrates similar techniques for handling uncertainty, using systems design and
- 4 divergent thinking.
- 5 Listening Skills
- 6 Participants opined that active listening skills contributed towards being non-judgmental,
- 7 intuition and decision-making. Listening skills involved interactions made with the full attention
- 8 of all the senses"

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- I make an effort to listen to my patients as much as I can to completely understand their side of the story before making any diagnosis and doing this helps me catch clues. Physical evaluation is not enough to make a diagnosis in my opinion. People (colleagues/doctors) judge too quickly or come up with treatment options too quickly without understanding the patient's story... this confuses the patient and leads to a complete lack of trust.
- The link between listening skills and being non-judgmental has been recognized by research both in counselling and guidance (Bobevski et al., 1997) and in nursing (Wiseman, 1996). When combined with vocational skills and empathy (Funnell, 2010), such listening skills deliver better care. Some participants also mentioned that listening skills created an open thinking environment, which enabled them to provide personalized care for patients:
 - I could have provided better care to that patient if my superior (senior) colleague had listened to me....but he judged saying that I was trying to make a statement as I was new...I had already talked to the patient regarding their problem and I think I know the severity because I know his entire background.

- 1 In the context of intuition, the participants stated that during any conversation, an individual is
- 2 likely to be confined to their thoughts, judgments, experience and knowledge and this can
- 3 prevent them from listening to their surroundings, which include their peers and patients. In this
- 4 context, active listening could influence intuitive capabilities (McCain, 1965).
- 5 Team Spirit
- 6 Team spirit in the form of knowledge sharing, collective realisation, collective intent and
- 7 respecting peer intuition appears/appeared to contribute towards shared decision-making,
- 8 congruence and intuitive decision-making. One of the participants mentioned the term 'collective
- 9 realization' when implementing universal values in a group. These values merge with personal
- values and become a general belief system in the group, as found in the following (Muller, 2004):
- we can't convince people on values as everyone has got their own individualities. All I
- can do is stand true to my values. I believe there should be a collective realisation when
- it comes to implementing universal values.
- 14 This is like group intention (Kristof-Brown et al., 2005), a form of collective realization, which
- maintains a bond in the group (Hermes et al., 2009) and works towards fulfilling the planned
- 16 goals.
- 17 Self & Social Awareness
- 18 Possessing self and social awareness in the form of contemplative decision-making without
- 19 preconceptions, performing conscious actions with the right intention, accepting uncertainty and
- 20 emotional detachment can lead to the embodiment of leadership attributes:
- It is important to realise what I had done throughout the day. I think about why I had
- taken a decision, why have I behaved in a (particular) manner and why am I doing my
- job. Asking myself these questions helps me review my action... *It becomes experiential*.

... as long as we are able to answer to ourselves in a true manner, there is nothing to be

2 afraid of

Emotional detachment here is referred to in the context of rational judgement, a judgement made with integrity and not affected by personal desires or attachments (Osumi & Ohira, 2010). The participants suggest that judgments might be made with relevance to the group's overall aim, but not out of personal desires or fondness. This is an aspect of decision-making that keeps the group together (Mallinckrodt & Wei, 2005) and was initially recognized through the work on emotional intelligence (Goleman, 2006), pertaining to the balance between individual and group emotion. Various researchers have suggested the use of mind training practices such as meditation to attain composure over emotions (Siegel, 2007; Davidson, 2003). Studies in the past have stated that emotions mask our real understanding of observations (Jeste & Vahia, 2008):

I usually take decisions after giving a lot of thought, even after that if something goes wrong, I accept responsibility and change it. There is no place for ego here as I'm connected and my decisions affect others around me.

Contemplation mainly contributed to the characteristic of holding authentic presence, which is connected to constructivism and investigation into why individuals think and behave in a particular way. This factor is the core of behavioural psychology (Mahoney & Stattin, 2000), where therapists seek to understand why someone presents in a certain way and try to find appropriate ways of treatment (Hoffman et al., 2010). Contemplative methods such as mindfulness and meditation (Hoffman et al., 2010; Davidson et al., 2003), Socratic questioning, mentored dialogue and self-checking (Hayes et al., 2006; Baer et al., 2006) are used to aid individual contemplation. However, it is contemplation in a wider context that relates to the characteristics of reflective practice and decision-making. Reave (2005), in a review study of over 150 studies, showed the relationship between meditation or contemplative reflection and

- 1 effective leadership. He noted how meditation as a reflective practice allowed leaders to make
- better decisions, enabling them to consider their previous decisions or actions from an external
- 3 perspective.
- 4 Universal Ethics
- 5 Possessing ethical values (Do not all human beings possess "ethical values" of some kind??)
- 6 appears to influence the embodied leadership attribute of congruence in individuals. Universal
- 7 ethics is built around compassion for the self and showing compassion towards others (Schwartz,
- 8 2005). Additionally, Spinrad & Eisenberg (2009) suggest parenting style could also embed
- 9 leadership qualities in children by encouraging them to nurture ethics, compassion and empathy:
- 10 I'm aware of some of my colleagues outside of this organisation duping their patients,
- but I had never encouraged it in my clinic or in my personal life....although I can judge
- ethics, I cannot command ethics, because ultimately the action lies with that person.
- Participants agreed that the primary factors that affect conscience are an individual's ethics and
- values. Research on conscience and subjective wellbeing came to the fore during the recent
- economic crises (Easterlin, 2006). In their work on the subjective wellbeing of individuals,
- 16 Kahneman and Krueger (2006) also recognize the importance of a clean conscience and how it
- affects an individual's ability to stay within the congruence of generalized beliefs. It is not
- surprising to see how an individual's family and upbringing affects their value system and ethics.
- 19 Parker et al. (2006) cite the importance of screening before recruiting to ensure the candidate's
- 20 personal values are compatible and aligned with the values of the organization. Research on
- 21 workplace safety has also identified family upbringing as a major factor that needs to be
- 22 considered during recruitment (Granovetter, 1995); hence, Choudhry et al. (2007) and
- 23 Guldenmund (2007) stress the importance of implementing a regulation to check on the
- background of applicants.

1 Open Thinking

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2 Some participants mentioned the term 'open thinking' when asked how they could become less

judgmental and improve their intuition and effective decision-making abilities. They explained

this further when they said they would try to approach people and situations without

preconceived notions:

I believe that I don't know everything that is there in this world and I know that everyone in this world does not know everything. You know something at a particular moment, we

have to give our full attention so that we learn at least some small thing.

This is what psychologists refer to as divergent thinking or multiple thinking strategies (Razoumnikova, 2000). There have been several studies on improving divergent thinking in

different contexts for personnel improvement (Nusbaum & Silvia, 2011; Gilhooly et al., 2007).

In a landmark finding, McGarvey (1990) showed that this type of open or creative thinking

decreased in children as they grew older and climbed up the school ladder. Robinson (2001)

mentions loss of creative thinking both in his book and during a highly acclaimed Technology

Entertainment Design (TED) talk, during which he discusses transforming teaching practices to

encourage increased creativity.

Mentorship/Friendly Relationships/Empathy

The participants believed that mentorship and good relationships are co-relational and justified

this by saying that good relationships with co-workers create an environment where individuals

listen with intent to understand. This accords with work by Zachary (2011), where mentorship is

identified as a leading contributor to good workplace environments:

Having a friendly atmosphere and being true to myself and my colleagues resulted in

good decisions being made in my work and life.... as decisions are complementary... they

also have to be accepted by others... others have to see where you are coming from and

2 understand you.

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- 3 Research is currently being carried out on how good relationships can create a mentoring culture,
- 4 improving the empathy of individuals (O'Broin & Palmer, 2009).
- 5 Creating a good relationship with the environment itself; respecting it and enabling it to
- 6 reciprocate by supporting and nurturing the people occupying it, has also been recognised as
 - being important to health and wellbeing. Unpleasant working conditions can assault or
- 8 undermine the senses, depleting energy levels and effectiveness. Having an awareness of the
- 9 effects of one's settings and the ability to nuance and enhance or mitigate them, greatly
- 10 contributes to a sense of personal control and increased ownership, especially at work.
- Empathetic listening has been researched for a long time (Drollinger et al., 2006), but there were
- no suggestions as to how it could be put into practice, until Scharmer's proposal in Theory U
- 13 (Scharmer, 2008), which actually goes beyond empathetic listening. This present study is partly
- an attempt to make Scharmer's work easier to comprehend. Interestingly, while the participants
- were not aware of generative listening, they had the ability to describe it:
- When I listen to patients or my colleagues in with intent...I can connect to what they are
- trying to convey to me and I can also see the picture behind it, helping me make better
- 18 decisions
- 19 Traditionally, those carrying out Eastern practices, such as mindfulness, transcendental
- 20 meditation, gigong and the like, have claimed to be able to embed empathy into individuals and
- empirical evidence now supports this claim (Birnie et al., 2010; Kristeller & Johnson, 2005;
- Andersen, 2005) in the areas of nursing and business. Findings in nursing (Wilson et al., 2005)
- 23 and occupational therapy (Milner & Bossers, 2004) indicate that mentorship is a characteristic of

- a leader and assists individuals in the organization to deal with uncertainty and other potential
- 2 problems. This finding was corroborated here by the participants, although they voiced concerns
- 3 about lack of mentors being available in their own sectors:
- 4 I had the knowledge from college...but no on the job experience....I had to learn
- 5 everything about the clinic by myself....I received no help whatsoever to take care of
- 6 problems arising in the clinic or treating difficult cases...
- 7 Coaching and Professional Development through Activities
- 8 The meaning of active listening is to listen with all the senses with complete attention while
- 9 simultaneously suspending judgment. One of the participants contended that his experience of
- being a sportsperson had helped him in his active listening skills:
- I used to be sportsman. I was coached to be switched on all the time. To be focussed on
- players around me all the time. I was able to bring that experience into my other parts of
- life.
- 14 This is not surprising as many sports psychologists and coaches work as life skills teachers in
- organizations (Danish & Nellen, 1997). A recent study (Wylleman et al., 2009) also indicated
- 16 how the application of sports psychology increases professional development in organizations,
- especially in the area of listening skills (Anderson et al., 2004). The non-judgmental method of
- listening could be borrowed from the person-centred approach (Bovey & Hede, 2001). Bruce
- 19 Lee (1971) conceives this idea perfectly:
- Be like water making its way through cracks. Do not be assertive, but adjust to the object
- and you shall find a way around or through it. If nothing within you stays rigid, outward
- 22 things will disclose themselves. Empty your mind, be formless. Shapeless, like water. If
- you put water into a cup, it becomes the cup. You put water into a bottle and it becomes

the bottle. You put it in a teapot, it becomes the teapot. Now, water can flow or it can

2 crash. Be water, my friend.

Ownership

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- 4 According to the participants, taking ownership of goals increases the chances of making better
- 5 intuitive judgments (Andersson & Floren, 2008) during uncertain periods, enabling better quality
- 6 connectivity. The study participants agreed that taking ownership of their vocational obligations
- 7 makes them better understand the nature of the work and hence take better decisions:
- 8 My responsibility is important. After I've done my duty...I get a feeling of satisfaction
- 9 and also connects me to my work.
- 10 Rational/Social/Emotional Intelligence and Resilience
- 11 The participants felt the need for resilience and adaptability, as occasional uncertainty was
- 12 inevitable in their roles. Work on resilience and adaptability has been implemented in
- occupational therapy (Skorikov & Vondracek, 2011) and personal development (Ungar, 2008).
- 14 This is one of the most important character factors as it has been shown to affect health,
- relationships and overall wellbeing (King et al., 2006) and could be usefully integrated into
- organizational continuing professional development.
- 17 Recognition of emerging patterns is a thought process similar to the rational process of thinking
- 18 (Avolio et al., 2004), where relationships are built on the effects that a decision might manifest.
- 19 This is enhanced by divergent thinking (Razoumnikova, 2000), through which relationships in a
- space can be viewed from an outside perspective. Again, this enhances the chances of better
- 21 intuitive decision-making.
- 22 The embodied leadership characteristics identified in the findings exhibit mental and relational
- 23 qualities that underpin the empathetic and compassionate mindset psychologies (Gilbert, 2014):

- 1 (1) Caring for and understanding of self and others (e.g. self and social awareness, open
- thinking, active listening, universal ethics);
- 3 (2) Supporting and nurturing, engaging to alleviate or prevent suffering (e.g. emotional and
- 4 social intelligence, resilience, ownership, team spirit, mentorship, coaching, friendly
- 5 relationships).
- 6 The empathetic and compassionate mindset psychologies have been identified as key qualities in
- 7 nursing leadership (Kuiper & Pesut, 2004; Howe, 2006; Rew & Barrow Jr., 2007; Campbell-Yeo,
- 8 Latimer & Johnston, 2008; Standing, 2008; Berwick Report, 2013). Subsequently, this research
- 9 suggests how an understanding of compassionate nursing and embodied leadership can learn
- 10 from one another.

LIMITATIONS

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- 12 This study has only considered a sample of 14 medical care professionals at a single location,
- therefore the findings can only be linked to this population. Transferability and dependability
- could be confirmed by using similar data collection techniques in different settings, although
- deviations are bound to occur owing to differences in the background of the population,
- 16 geopolitical, socio-economic, linguistic and cultural.

CONCLUSION

- 18 This study suggests there are substantial similarities between the latest research in areas of
- 19 leadership and nursing, especially in the aspect of compassionate care. Further investigations in
- 20 different contexts could reveal additional factors contributing to embodied leadership
- 21 characteristics in medical care professionals. Organizational development programmes in the
- 22 medical care sector could incorporate the current findings to create an immediate effect on both
- employees and, by extension, on patients. However, research into embodied leadership is in its

This is the peer reviewed version of the following article: KOYA, Kushwanth, ANDERSON, Jane and SICE, Petia (2017). The embodied nurse: Interdisciplinary knowledge exchange between compassionate nursing and recent developments in embodied leadership studies. *Journal of Advanced Nursing*, 73 (12), 3028-3040., which has been published in final form at http://doi.org/10.1111/jan.13363. This article may be used for non-commercial purposes in accordance with Wiley Terms and Conditions for Self-Archiving. infancy and there remains significant scope for gaining insight and knowledge that may contribute to identifying contributing factors and overlapping characteristics between sectors. Questions for further research would include: What conditions facilitate/prevent compassionate care? What practices develop empathetic and compassionate leadership?

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