The Luminous Night of the Soul: The Relationship between Lucid Dreaming and Spirituality

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Lucid dreams, in which the dreamers are aware that they are dreaming, can be a source of spiritual and mystical experiences. This empirical study aimed to explore the relationship between lucid dreaming and spirituality, taking into account the role of mystical lucid dream experience, in an online sample of 471 respondents, 95% of whom had lucid dream experience and 65% were frequent lucid dreamers. The findings support the relationship between lucid dreaming and spirituality: spiritual transcendence was positively associated with both lucid dream frequency and mystical lucid dream experiences. Thus having recurrent lucid dreams and mystical experiences in them may foster spiritual growth, rendering lucid dreaming possibly a viable spiritual practice, especially within the secular context. However, the correlative nature of the present research does not imply causality and further longitudinal research confirming this is needed.

Keywords: lucid dreams; spirituality; spiritual transcendence; mystical experience

From earliest times, dreams fascinated humanity as a source of inspiration and mystery. They were the probable source of religious cognitions (McNamara & Bulkeley, 2015) by presenting direct evidence of a spirit realm, disembodied spirits, afterlife (by meeting deceased relatives) and by providing direct contact with the supernatural/Transcendent. Dreaming itself can be considered a spiritual practice (Bulkeley, 1996), both within more traditional religious domains and more secular spirituality which is increasingly prominent in the modern world.

While most dreams are retrospective experiences that can be pondered only after awakening from a different—ordinary waking—state of consciousness, in some dreams the dreamers can become aware that they are dreaming while they are dreaming, so they can consciously experience and volitionally act upon their dream experience while it is unfolding. Such dreams are called lucid dreams (LaBerge, 1985). Sleep laboratory research shows that lucid dreams predominantly occur during the rapid eye movement (REM) stage of sleep and can be verified on the sleep recording by volitional eye movements (LaBerge et al., 1986), though they could also arise during non-REM stage 1 and non-REM stage 2 of sleep (Mota-Rolim et al., 2015; Stumbrys & Erlacher, 2012). Lucia

Generally, lucid dreams are positive and empowering experiences leading to increased mood after awakening (Stocks et al., 2020; Stumbrys & Erlacher, 2016) and contributing to overall well-being and personal growth (Doll et al., 2009; Konkoly & Burke, 2019). Whereas many lucid dreamers use their lucid dreams primarily for fun and wish fulfilment, lucid dreams are also used for overcoming fears or nightmares (de Macêdo et al., 2019), solving waking-life problems, creative inspiration, skill training, physical and mental healing, spiritual experiences and meditation
A study by Stumbrys and Erlacher (2016) with a sample of 357 lucid dreamers found that 153 of them (42.9%) used their lucid dreaming for seeking spiritual experiences, though not very frequently (in 8.1% of their lucid dreams). Whereas the lucid dream state can be considered a transpersonal experience in itself (Stumbrys, 2018a), it can also serve as a gateway to facilitate further transpersonal and mystical experiences (Mota-Rolim et al., 2020).

In a study by Bogzaran (1990), 77 lucid dreamers were invited to seek and experience the Divine in the lucid dream state and 35 succeeded. Interestingly, the experiences of the Divine in the lucid dream state fitted the preconceptions of lucid dreamers: Those who thought of the Divine as personal mostly experienced it in a personalized form (e.g., Christ, Buddha), while those who considered it impersonal, perceived it as an impersonal concept (e.g., all-encompassing energy, formless). The strategies of lucid dreamers varied; some were actively searching for the Divine in lucid dreams, while others were passively waiting for the Divine to appear. Their intention seemed to be the key in facilitating the occurrence of such experience.

In another more recent study, Esser (2014) invited 13 lucid dreamers to incubate kundalini (purported dormant “subtle energy” that is locked at the base of the spine and can be “awakened”) and non-dual awareness (experiential unity without the subject-object distinction). Ten participants were successful in experiencing kundalini in the lucid dream state. For some, the kundalini experience even extended into the waking state. Most felt kundalini to be the Divine, and five participants experienced non-duality, also feeling that in some way their experiences were connected to ultimate reality. Three-month and one-year follow-up interviews with the participants revealed that these experiences influenced a deeper sense of spiritual wellbeing in them. Most felt they learned to become lucid in dream; then they aimed to gain proficiency and control over the lucid dream state; the further aim is to develop the flexibility of mind by breaking up illusions of duality within the dream state; and finally they venture beyond dream appearances “to merge with the unity of the subtle body/mind” (p. 282).

The evidence thus suggests that lucid dreaming may facilitate spiritual growth and a deeper sense of spiritual awareness in its practitioners, with one of the possible pathways for this via having mystical experiences in lucid dreams. The systematic research on the relationship between lucid dreaming and spirituality, however, is lacking.

The present study aimed to quantitatively assess this relationship in a large pool of participants who are predominantly lucid dreamers using a cross-sectional correlational design. To encompass various expressions of spirituality (Davis et al., 2015), both within religious and secular contexts, a notion of spiritual transcendence emphasising “a personal search for connection with a larger sacredness” (Piedmont, 1999, p. 989) was employed to operationalize spirituality, which also showed cross-cultural generalizability in previous research (Piedmont, 2007; Piedmont & Leach, 2002). In addition, the possible role of mystical lucid dream experience was assessed. The mystical experience was considered in accordance with a phenomenological common core model of Stace (1960) that there is a universal core to mystical experience relatively independent of its interpretation, adapting a classic measure developed by Hood (1975).
Participants

There were no specific requirements for participation in the study, except to be 18 years or more in order to provide legal informed consent. The study was conducted in English.

Instruments

Self-report measures were used to gather data on dream and lucid dream frequency, participant spirituality, and mystical experiences associated with the lucid dream state.

Frequency of dreams and lucid dreams.

The respondents were asked to estimate their overall dream recall frequency on a seven-point scale (0 – never; 1 - less than once a month; 2 - about once a month; 3 – twice or three times a month; 4 - about once a week; 5 – several times a week; 6 – almost every morning) which was shown to have a good re-test reliability in previous research \( r = .85; \ p < .001; \ N = 198; \) Schredl, 2004). In order to obtain units of mornings per week, the scale was recoded using the class means: 0 → 0, 1 → 0.125, 2 → 0.25, 3 → 0.625, 4 → 1.0, 5 → 3.5, 6 → 6.5 (Schredl, 2004). Similarly, the participants were asked to estimate their lucid dream frequency on an eight-point scale (0 – never; 1 – less than once a year; 2 – about once a year; 3 – about 2 to 4 times a year; 4 – about once a month; 5 – about 2 to 3 times a month; 6 – about once a week; 7 – several times a week), which also showed a good re-test reliability \( r = .89; \ p < .001; \ N = 93; \) Stumbrys et al., 2013a). To ensure a clear understanding of the phenomenon, a brief definition was provided: “In a lucid dream one is aware that one is dreaming during the dream. Thus, it is possible to wake up deliberately, to influence the action of the dream actively or to observe the course of the dream passively”. To obtain units in frequency per month, the scale was recoded using the class means: 0 → 0, 1 → 0.042, 2 → 0.083, 3 → 0.25, 4 → 1.0, 5 → 2.5, 6 → 4.0, 7 → 18.0 (Stumbrys et al., 2013a).

Spirituality.

The Spiritual Transcendence Scale (STS, Piedmont, 1999) was used to assess spirituality. STS consists of 24 items rated on a five-point scale (1 – strongly agree to 5 – strongly disagree) summing at three subscales: Universality (a belief in the unitive nature of life), Prayer Fulfilment (feelings of joy and contentment resulting from prayer/meditation) and Connectedness (a sense of responsibility and connection to others). The internal reliability (Cronbach’s ) in the present sample for the entire scale (.94) and for the subscales (Universality: .92; Prayer Fulfilment: .89; Connectedness: .71) was acceptable.

Mystical lucid dream experience.

An adapted version of Mysticism Scale (M Scale, Hood, 1975) was used to assess the mystical experience in the lucid dream state. The modification involved framing the statements in relation to the experiences within lucid dreams specifically rather than in relation to the overall experiences. For example, the statement “I have had an experience which was both timeless and spaceless” was reframed to “I have had an experience in lucid dreams which was both timeless and spaceless.” The M scale is derived from Stace’s (1960) common criteria of mysticism and includes 32 items (half of them negatively worded) scored on a five-point scale (1 – definitely not true to 5 – definitely true). It has a three-factor structure, compatible with the conceptual work of Stace: Extrovertive Mysticism, Introvertive Mysticism and Interpretation (Hood et al., 1993; Streib et al., 2021). The internal reliability (Cronbach’s ) in the present sample for the entire scale (.95) and for the subscales (Extrovertive Mysticism: .90, Introvertive Mysticism: .88; Interpretation: .89) was good.

Recruitment

The online questionnaire was developed using the open-source survey software tool LimeSurvey and was hosted securely on the author’s personal website. The questionnaire had a generic title “Survey on lucid dreams and related experiences” without specific references to spirituality and included a broad range of questions and research instruments unrelated to spirituality (reported elsewhere: Stumbrys, 2018b, 2021). The questionnaire was anonymous, but respondents had an opportunity to provide their email addresses if they were interested in the findings or in participating in future research on lucid dreaming. The email address was also used to minimize the risk of multiple responses. The survey was distributed via various social media (e.g., Facebook, Reddit) groups and online discussion forums (e.g., DreamViews, World of Lucid Dreaming, LD4All) related to lucid dreaming, as well as sent out to
a pool of respondents who had participated in previous lucid dream-related online studies. When distributing the link to the survey, as with its title, only a very generic invitation was used (i.e., to participate in a study on lucid dreams, related experiences, and the effects they may have) to avoid possible biases. All questions and instruments were presented in English. The study was conducted in accordance with the Declaration of Helsinki.

**Treatment of Data**

IBM SPSS (Version 22) was used for statistical analysis. Spearman's rho correlations were used to assess the associations between the variables. Student's independent t-test was used for comparison of spirituality measures between frequent lucid dreamers and infrequent and non-lucid dreamers. Logistic regression analyses were conducted for spirituality measures with a pool of predictor variables (including demographics—age, sex) to control for intercorrelations and assess possible influencing variables. An \( \alpha = .05 \) significance level was employed throughout statistical analyses.

**Results**

The responses were collected between July 2016 and September 2020. The sample consisted of 471 adult participants (249 men, 217 women, and other/non-binary individuals) who completed the online questionnaire. The age of participants ranged from 18 to 84 years, with a mean age of 33.1 ± 12.8. The participants were from 54 different countries, though the highest proportion was from the United States (174 respondents, 36.9% of the total sample). The sample breakdown in relation to sex, age group and geographical region is presented in Table 1.

The frequencies of lucid dreams and of dream recall of the study participants are presented in Table 2. Most respondents (447, 94.9%) had lucid dream experience, and the majority of the sample (307, 65.2%) were frequent lucid dreamers (Snyder & Gackenbach, 1988) having lucid dreams once a month or more often. The participants were good dream recallers, with just over the half of the sample remembering their dreams almost every morning (Table 2).

The descriptive data and correlations among the study variables are provided in Table 3. Age, lucid dream frequency and overall dream recall frequency were positively associated with spiritual transcendence and mystical lucid dream experience (Table 3).

**Lucid dreaming and spirituality**

Frequent lucid dreamers scored higher on the Spiritual Transcendence Scale and on two of its
subcales (Universality and Prayer Fulfilment) than infrequent and non-lucid dreamers (Table 4). Further, a regression analysis was conducted with STS scale and its subscales as dependent variables and age, sex, dream recall frequency and lucid dream frequency as predictor variables (Table 5). When controlled for demographics and overall dream recall frequency, lucid dream frequency was still a significant predictor of higher scores on the overall STS scale and its Universality subscale (Table 5).

**Mystical lucid dream experience and spirituality**

To assess the relationships between mystical lucid dream experience and spirituality, regression analyses were conducted with STS scale and its subscales as dependent variables and M Scale facets as predictor variables (Table 6). The Interpretation subscale was a significant predictor of all facets of spiritual transcendence, while External Mysticism was a predictor of the overall STS score and Universality and Prayer Fulfilment subscales (Table 6).

**Discussion**

Overall, the empirical findings support the relationship between lucid dreaming and spirituality: More frequent lucid dreamers had higher spiritual transcendence scores than infrequent and non-lucid dreamers (Table 4), and the lucid dream frequency remained a significant predictor of spiritual transcendence even when controlled...
for the overall dream recall frequency, as well as age and sex (Table 5). Moreover, the mystical lucid dream experience was also a predictor of spiritual transcendence (Table 6).

The most straightforward explanation of the findings is that having recurrent lucid dreams – which are transpersonal experiences in themselves (Mota-Rolim et al., 2020; Stumbrys, 2018a) – can facilitate spiritual transcendence in lucid dreams, especially if encountering the mystical type of lucid dream experiences. Yet, as this was a cross-sectional correlational study without a longitudinal observation, no causation can be inferred, and an alternative explanation can also be possible: Spiritual growth leads to having more lucid dreams and more mystical-type experiences in them. For example, previous research showed that long-term meditators have more lucid dreams and more archetypal dreams (Baird et al., 2019; Faber et al., 1978). Yet, the correlation between the age and the lucid dream frequency was very weak in the present sample, while age correlated much more strongly with spiritual transcendence and mystical lucid dream experience (Table 3). Previous research also showed either no association (e.g., Stumbrys et al., 2015) or even a decline of lucid dream frequency with age (e.g., Schredl & Goritz, 2015), giving more support to the former possibility (i.e., lucid dreaming being the causal factor); however, longitudinal research is needed to establish this.

Lucid dream frequency was positively associated with the overall spiritual transcendence score, as well with two of its subscales – Universality and Prayer Fulfilment. However, the latter association became non-significant when controlled for age, sex and overall dream recall frequency (Table 4). Piedmont (1999) defined Spiritual Transcendence as “the capacity of individuals to stand outside of their immediate sense of time and place to view life from a larger, more objective perspective. This transcendent perspective is one in which a person sees a fundamental unity underlying the diverse

<table>
<thead>
<tr>
<th>Variable</th>
<th>STS-Universality</th>
<th>STS-Prayer Fulfilment</th>
<th>STS-Connectedness</th>
<th>STS Overall</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age</td>
<td>Beta = .31, t = 7.00***</td>
<td>Beta = .30, t = 6.86***</td>
<td>Beta = .29, t = 6.54***</td>
<td>Beta = .34, t = 7.96***</td>
</tr>
<tr>
<td>Gender (M&lt;F)</td>
<td>Beta = .07, t = 1.59</td>
<td>Beta = -.04, t = -.80</td>
<td>Beta = .02, t = .47</td>
<td>Beta = .02, t = .52</td>
</tr>
<tr>
<td>Dream recall frequency</td>
<td>Beta = .06, t = 1.23</td>
<td>Beta = .08, t = 1.63</td>
<td>Beta = .03, t = .60</td>
<td>Beta = .07, t = 1.45</td>
</tr>
<tr>
<td>Lucid dream frequency</td>
<td>Beta = .11, t = 2.16*</td>
<td>Beta = .09, t = 1.91</td>
<td>Beta = .04, t = .84</td>
<td>Beta = 0.10, t = 2.07*</td>
</tr>
</tbody>
</table>

Table 5. Regression analyses for spiritual transcendence scores with age, gender, dream recall and lucid dream frequencies as predictors. Note: *p<.05, ***p<.001.

<table>
<thead>
<tr>
<th>Variable</th>
<th>STS-Universality</th>
<th>STS-Prayer Fulfilment</th>
<th>STS-Connectedness</th>
<th>STS Overall</th>
</tr>
</thead>
<tbody>
<tr>
<td>M-Extrovertive Mysticism</td>
<td>Beta = .20, t = 2.87**</td>
<td>Beta = .15, t = 2.12*</td>
<td>Beta = .08, t = 1.09</td>
<td>Beta = .18, t = 2.63**</td>
</tr>
<tr>
<td>M-Introvertive Mysticism</td>
<td>Beta = -.03, t = -.53</td>
<td>Beta = -.01, t = -.10</td>
<td>Beta = -.09, t = -1.35</td>
<td>Beta = -.04, t = -.67</td>
</tr>
<tr>
<td>M-Interpretation</td>
<td>Beta = .37, t = 5.37***</td>
<td>Beta = .39, t = 5.70****</td>
<td>Beta = .37, t = 5.07****</td>
<td>Beta = .43, t = 6.51***</td>
</tr>
</tbody>
</table>

Table 6. Regression analyses for spiritual transcendence scores with mystical lucid dream experience facets as predictors. Note: *p<.05, **p<.01, ***p<.001.
strivings of nature” (p. 988). The facet of Universality represents the belief in the unitive nature of life, while Prayer Fulfillment refers to feelings of joy and contentment which result from personal encounters with a transcendent reality (Piedmont, 1999). In the context of lucid dreaming, Prayer Fulfillment is likely to be linked to specific spiritual experiences in lucid dreams, and therefore it may be more dependent on overall dream recall. On the other hand, Universality – the belief in the unitive nature of life – is likely to more result from the overall lucid dream experience, as the lucid dreamer gains deeper insights into the dreaming and – consequently – waking realities. Notably, no association was observed with the third component of spiritual transcendence, Connectedness, which relates to the sense of personal responsibility to others (Piedmont, 1999). Generally, there are two attitudes in relation to otherness (e.g., other beings/dream characters) in lucid dreams: more ego-logical (accepting the dream as a self-created private experience and therefore the lucid dreamers can do whatever they want in this state) and more eco-logical (accepting the dreams as a more transcendent experience and treating other beings in lucid dreams as autonomous independent agents) (Sparrow, 2014). Evidently, the two stances would affect Connectedness rather differently.

Mystical lucid dream experience was apparently associated with lucid dream frequency (as chances for mystical lucid dream experience would naturally increase the more lucid dreams the individual has) and also with all facets of spiritual transcendence (Table 3). When controlled for intercorrelations (Table 6), a more revealing picture emerged. First, the strongest predictor of spiritual transcendence was Interpretation, implying that the way the experience is interpreted plays a more important role in relation to spirituality than the actual experience itself. Within Hood’s (1975) Mysticism Scale, the Interpretation facet includes the aspects of positive affect, sacredness and noetic quality (i.e., sense of knowledge). Using the same questionnaire, Chen at al. (2012) found that Chinese Christians and non-Christians more strongly differed on the Interpretation factor rather than two experiential ones (i.e. Introvertive and Extrovertive Mysticism), similarly indicating that experiences themselves might be more universal, while their interpretation tends to be more different depending on the spiritual and religious background of an individual. In relation to dreams, a study by Phillips and Pargament (2002) showed that the more sacred the dream was perceived, the more it led to beneficial outcomes, including psychological and spiritual growth, supporting the importance of Interpretation.

Second, there was a difference in the direction of mystical lucid dream experience: extrovertive but not introvertive mysticism was a predictor of higher spiritual transcendence (Table 6). According to Stace (1960), upon whose theory the scale was constructed, the extrovertive mystical experience “looks outward through the senses” (p. 61) in apprehending Oneness and Unity in all or through the multiplicity of the world, while the introvertive mystical experience “looks inward into the mind” (p. 61) to withdraw from the world and achieve pure consciousness devoid of any mental content. While introvertive mystical experience does represent the ultimate goal of Tibetan dream yoga (Tarab Tulku, 2000; Wangyal, 1998), it appears that the engagement with the dream world while lucid dreaming, seeing it alive and interconnected, rather than withdrawing from it, fosters greater spiritual transcendence in lucid dreamers. Similarly, in Tibetan dream yoga, the adepts are first advised to actively engage with the lucid dream world by developing the mastery of dream control and mental flexibility, and only in very advanced stages of the practice are they encouraged to go beyond the dream appearances into introvertive mysticism-type experiences (Tarab Tulku, 2000). While an argument can be made that all lucid dream experiences are oriented “inward to the mind” rather than “outward through the senses,” both lucid and non-lucid dreaming provide a very naturalistic simulation of reality and perception, based on corresponding neural mechanisms (Erlacher & Schredl, 2008), making the distinction (inward vs. outward) just as valid as in the waking state.

Several limitations of the present research must be acknowledged. First, the sample was self-selected and recruited online through social
network groups related to lucid dreaming; therefore the findings might not be representative of all lucid dreamers. For instance, the participants may have had more positive attitudes to lucid dreaming (Schredl et al., 2019). Further, most of the participants were young adults from the Western countries (Europe and Northern America), which also limits generalizability, especially in relation to different cultural contexts. The religious and spiritual affiliation of the participants was not surveyed in the present research, which may also have an influence on the present findings, for example, depending on whether spirituality is perceived from a more traditional religious context or from a more secular perspective. On the other hand, spirituality was not explicitly mentioned in the survey description and the questionnaire included a number of other items unrelated to spirituality (Stumbrys, 2018b, 2021), thus minimizing possible biases towards spirituality. Further, as mentioned above, the data is cross-sectional and not longitudinal; therefore causal relationships cannot be established. Future research would certainly benefit from longitudinal studies observing lucid dreamers over a longer period, registering their mystical experiences in lucid dreams and measuring changes in their spiritual attitudes. Furthermore, it would be very interesting to follow up a group of lucid dreamers who are actively using their lucid dreams as a means of spiritual practice whether as a part of established tradition, such as Tibetan dream yoga, or as a part of their individual spiritual path.

In summary, the present findings support the relationship between lucid dreaming and spirituality. It is suggested that having recurrent lucid dreams and mystical type experiences in them fosters spiritual growth; however, due to the correlational nature of the present research, no causal effects can be inferred, and longitudinal research confirming this is needed. To facilitate this process, lucid dreamers could be advised to be actively engaged with their dream worlds, treat them as sacred; acknowledge and appreciate otherness in the lucid dream state by seeing others in lucid dreams as sentient beings, though realizing the oneness among the multiplicity of forms; cultivate the sense of joy and positive affect in their lucid dreams; and seek spiritual experiences, e.g. connecting with Divine (Bogzaran, 1990), while being lucid in a dream. In such a way, lucid dreaming may serve as a genuine spiritual practice, especially within a more secular context of self-spirituality (Heelas, 1996), as lucid dreaming has a rather positive and credible profile within the general population (Lüth et al., 2018).

References


Lucid Dreaming and Spirituality


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**About the Journal**

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