Evidence synthesis indicates contentless experiences in meditation are neither truly contentless nor identical

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Accepted: 11 March 2022
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Abstract
Contentless experience involves an absence of mental content such as thought, perception, and mental imagery. In academic work it has been classically treated as including states like those aimed for in Shamatha, Transcendental, and Stillness Meditation. We have used evidence synthesis to select and review 135 expert texts from within the three traditions. In this paper we identify the features of contentless experience referred to in the expert texts and determine whether the experiences are the same or different across the practices with respect to each feature. We identify 65 features reported or implied in one or more practices, with most being reported or implied in all three. While there are broad similarities in the experiences across the traditions, we find that there are differences with respect to four features and possibly many others. The main difference identified is that Shamatha involves substantially greater attentional stability and vividness. Another key finding is that numerous forms of content are present in the experiences, including wakefulness, naturalness, calm, bliss/joy, and freedom. The findings indicate that meditation experiences described as contentless in the academic literature can in fact involve considerable variation, and that in many and perhaps most cases these experiences are not truly contentless. This challenges classical understandings in academic research that in these so-called contentless experiences all content is absent, and that the experiences are therefore an identical state of pure consciousness or consciousness itself. Our assessment is that it remains an open question whether the experiences aimed for in the three practices should be classed as pure consciousness. Implications of our analysis for neuroscientific and clinical studies and for basic understandings of the practices are discussed.

Keywords Pure consciousness · Consciousness as such · Minimal phenomenal experience · Shamatha · Transcendental meditation · Stillness meditation

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The vast majority of scientific research on meditation has focused on brain activity or other physiological markers during meditation practice, or on the effects of practising (e.g., changes in brain activity, cognitive performance, or self-report on clinical scales) following a session. Very little work has scientifically examined meditators’ subjective experience during meditation (Petitmengin et al., 2019; Przyrembel & Singer, 2018). This represents a major gap, as subjective experience is at the heart of every practice and is essential for making sense of the other types of data (Bitbol & Petitmengin, 2013; Przyrembel & Singer, 2018; Rigato et al., 2019; Schwitzgebel, 2008; Thompson, 2006/2008).

In various forms of meditation an objective is “contentless” experience, in which mental content such as thought, sense-perception, body-perception, and mental imagery is absent (Forman, 1990b, 1998; Shear, 2006d; Stace, 1960/1961). The meditation traditions view the experience as important, on the understanding that it leads to wide-ranging positive outcomes, including improvements to mental and physical health (e.g., Meares, 1978/1986; Pearson, 2013; Wallace, 2006a). Academics have argued that, since the contents of consciousness are absent, the experience constitutes pure consciousness, or consciousness itself, and that it should therefore be prioritized as a research target in the field of consciousness studies (Forman, 1990b; Shear, 1990b; Stace, 1960/1961; but see, e.g., Dainton, 2000, 2002; Gellman, 2018; Lancaster, 2004; Studstill, 2005). Recent work at the intersection of cognitive science and philosophy has given it that focus (Costines et al., 2021; Gamma & Metzinger, 2021; Josipovic & Miskovic, 2020; Metzinger, 2020a, 2022; Millière, 2020; Millière et al., 2018). In that research, contentless experience is referred to using terms such as pure consciousness, consciousness as such, and minimal phenomenal experience.

This paper examines contentless experience in three meditation practices: Shamatha meditation as presented by Alan Wallace (Wallace, 2006a), Transcendental Meditation (“TM”) (Maharishi Mahesh Yogi, 1967/1974, 1963/2001), and Stillness Meditation (McKinnon, 1983/2016; Meares, 1967/1968).

The Shamatha meditation described by Alan Wallace is a classic Tibetan Buddhist practice. It is one of many forms of shamatha meditation (Wallace, 2011a, b), and shamatha is the type of Buddhist practice most closely associated with contentless state/s (Gimello, 1978; Jones, 1993; Markovic & Thompson, 2016; Wallace, 2007b). In Shamatha practice, the meditator learns to pay attention to a meditation object, and then at a very advanced level relinquishes the object and moves into contentless experience (Wallace, 2006a).

Wallace describes Shamatha principally from the perspective of the Dzogchen tradition of Tibetan Buddhism. The goal of Shamatha practice is the contentless experience. In the Dzogchen tradition, it is understood that by progressing all the way to the contentless state the Shamatha meditator develops attentional qualities that are

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1 In this paper we use the terms content and mental content interchangeably to refer to the subjective qualities that contribute to what it is like for a person to have an experience (Nagel, 1974). If, for example, a meditator experiences “thoughtless silence”, thought is a form of content that is absent from the experience, and silence is a form that is present.
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c onsidered a prerequisite for the effective practise of insight meditation (Sanskrit: *vipashyana*) (Wallace, 2006a, 2011a, b). Insight meditation is undertaken separately to Shamatha, and is seen as critical for achieving enlightenment, also known as *pristine* or *nondual* awareness (Josipovic, 2021; Wallace, 2005, 2011a, b, 2012).

Communities of dedicated Shamatha practitioners can be found throughout the world (e.g., [www.centerforcontemplative research.org](http://www.centerforcontemplative research.org)). In the past decade, the practice has been the subject of a large-scale and long-running research program (see, e.g., Jacobs et al., 2011; Rosenberg et al., 2015; Zanesco et al., 2019).

TM is said to derive from the Vedic tradition of ancient India (Pearson, 2013; Roth, 2018; Shear, 2006c; cf. Williamson, 2010, p. 86). Maharishi Mahesh Yogi is understood to have isolated the technique from the broader set of traditional Vedic practices, and in the 1950s he began promoting it in India and overseas (Pearson, 2013; Rosenthal, 2011/2012; Roth, 2018; Shear, 2006c). In TM the meditator repeats a mantra silently in their mind, and this is said to lead to contentless experience, where awareness of the mantra falls away (Faber et al., 2017).

TM was initially presented as mainly for spiritual development, but it is now promoted more for its health benefits (Roth, 2018; Williamson, 2010). The technique was particularly popular in the 1970s (Farias & Wikholm, 2015; Holen, 1976/2016), and is still well recognized and widely practised. Most scientific research on contentless states in meditation has focused on TM (see, e.g., Vieten et al., 2018; for a detailed review of the TM research, see Pearson, 2013, pp. 399–430). The practice was the most researched form of meditation up to the early 1990s (Lutz et al., 2007; Shear, 1990b).

The third practice, Stillness Meditation, is a secular technique that was designed by the Australian psychiatrist Ainslie Meares (Meares, 1967/1968). Unlike Shamatha and TM, it is not well known and has received minimal research attention (e.g., Hosemans, 2017; Seymour, 1999; Woods et al., 2020, 2022a, 2022b; Yerbury, 2021). Meditation research has focused on a narrow range of practices, but it is now recognized that there is a need to broaden this focus to methods that have been largely unexplored (Dahl et al., 2015; Goleman & Davidson, 2017; Matko et al., 2021).

Stillness Meditation was developed for the relief of anxiety and pain (Meares, 1967/1968). It is one of the first techniques specifically designed for use in a clinical setting (Gawler, 2011, 1984/2015; Gawler & Bedson, 2010/2011). Classical forms of meditation such as Shamatha were traditionally practised for spiritual or soteriological purposes and were not designed for the treatment of mental illness (Farias & Wikholm, 2015; Goleman & Davidson, 2017; Sedlmeier & Srinivas, 2016; Sedlmeier et al., 2018; West, 2016; cf. Hasenkamp, 2021; Waelde & Thompson, 2016). Use of Stillness Meditation in clinical practice predates Kabat-Zinn’s (1982, 1990) Mindfulness-Based Stress Reduction program by more than 10 years, illustrating the pioneering contribution of Ainslie Meares’ method in the field of meditation as therapy.²

² Kabat-Zinn’s program was introduced in 1979 and was initially called the Stress Reduction and Relaxation Program (Kabat-Zinn, 2011).
Stillness Meditation is significant from a technique perspective because it is extremely simple. Sitting in the correct posture, the meditator gives up the effort of doing anything (Woods et al., 2022a). There is no meditation object, and the meditator does not need to maintain any particular attention or awareness. Other practices have also been said to involve no doing, effort, structure, or technique, but close examination indicates that they almost always require at least minimal forms of these ingredients that are not present in Stillness Meditation (e.g., Adyashanti, 2006; Eifring, 2010, 2016; Goleman, 1988, pp. 98–100; for a detailed analysis of how Stillness Meditation differs to other techniques, see Woods et al., 2022a). Investigating the simplest practices that are said to access contentless states, like Stillness Meditation, may help to understand more complex approaches. The “methodological principle” is that “to understand something complex turn to its simple forms” (Forman, 1998, p. 185; Metzinger, 2018b, 2020a).

A high-level overview of Shamatha, TM and Stillness Meditation is provided in Fig. 1.

In this paper we will use the term “goal-state” to refer to the subjective experience of a state aimed for in a practice.3 We will use the term “interim-state” to mean an experience in the practice on the way to achieving the goal-state/s. In Woods et al. (2022a) we describe the main features of the techniques and interim-states in Shamatha, TM and Stillness Meditation. The present paper is focused on the goal-states in those practices.

One reason that contentless experience is of interest in cognitive science and philosophy is that it is so different from experiences in normal waking life. An enormous amount of scientific research has been conducted with respect to mental content such as thought, perception and mental imagery that typifies ordinary waking experience. On the other hand, there has been hardly any scientific research on meditative experience where that content is reported to be absent (Costines et al., 2021; Metzinger, 2020a; Vieten et al., 2018). It remains unclear precisely which content is absent in goal-states that are said to be contentless. Is it all content, or is there some content that is present? If there is content that is present, what could that be?

As indicated above, in the main strand of academic literature, goal-states like those in Shamatha, TM and Stillness Meditation have been described as contentless experience (Forman, 1990b, 1998; Shear, 2006d; Stace, 1960/1961). Contentless experience has been commonly presented as lacking all content, and on this basis it has been argued or assumed that all instances of contentless experience are

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3 Initial high-level reading indicated that Shamatha refers to a single goal-state: a specific subjective experience that arises at the most advanced stage of practice. TM is also frequently presented having a single goal-state (pure consciousness). The goal in Stillness Meditation is generally referred to as the experience of “stillness”, and the initial high-level reading indicated that encompasses a range of states. In this paper we will use the terms “goal-state” (singular) and “goal-state/s” as appropriate in the context. For example, we will often use the term goal-state when discussing either Shamatha or TM texts that present the goal of the practice as a single subjective experience. Where we use the term goal-state/s with respect to a practice, it is to leave open the possibility that the practice aims for a range of subjective experiences, notwithstanding any claims to the contrary in the texts. In Section 2.18 we seek to resolve this issue based on more detailed reading.
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| Feature                                | Shamatha Meditation  | Transcendental Meditation | Stillness Meditation |
|----------------------------------------|----------------------|---------------------------|----------------------|
| Origin                                 | Tibetan Buddhism     | Vedic tradition           | Clinical practice    |
| Technique                              | Focus on object      | Repeat mantra             | Do nothing           |
| Primary purpose of reaching the contentless goal-state/s | Develop attentional qualities required for other practices aimed at achieving enlightenment | Reduce anxiety, improve mental and physical health/wellbeing, and achieve personal growth/development | Reduce anxiety, improve mental and physical health/wellbeing, and achieve personal growth/development |
| Speed and ease of reaching the contentless goal-state/s | Slow and difficult  | Quick and easy            | Quick and easy       |

**Fig. 1** High-level overview of the three practices. Entries for each feature reflect the understanding within each meditation tradition. The primary purpose of reaching the contentless goal-states is as typically stated in modern texts for the general public (e.g., McKinnon, 1983/2016; Roth, 2018; Wallace, 2011b). A secondary purpose or benefit of reaching the Shamatha goal-state is reducing anxiety, improving mental and physical health/wellbeing, and achieving personal growth/development, and a further purpose of reaching the TM goal-state is that it is said to lead to higher states of consciousness in daily life. For detailed analysis supporting the assessment for the feature speed and ease of reaching the contentless goal-state/s, see Woods et al. (2022a).

identical (Almond, 1982; Bernhardt, 1990; Bucknell, 1989a, b; Forman, 1990a; Shear, 1990b). Based on these understandings, Shamatha, TM and Stillness Meditation each achieve an identical goal-state lacking all content despite the fact that they involve quite different techniques. Our analysis of expert texts from within the three traditions indicates that it is much quicker and easier to access the goal-states in TM and Stillness Meditation than the goal-state in Shamatha (Woods et al., 2022a, 2022b). This raises a further question, that overlaps with those above: Is it correct that the goal-states in the three practices are identical, or could it be that they differ in some way?

The present analysis addresses these questions. The aims are to: (a) identify the features of the goal-states referred to in expert texts from within the three traditions; and (b) determine whether the goal-states are the same or different across the practices with respect to each feature. To the best of our knowledge, this analysis is the first to identify features of the goal-states in the three practices based on expert texts selected and reviewed using a scientific method. It is also the first detailed comparison of the goal-states across the three practices.

### 1 Method

#### 1.1 Evidence synthesis

The current paper, together with Woods et al. (2020), constitutes an evidence synthesis compliant with the ENTREQ reporting guidelines for qualitative evidence syntheses (Tong et al., 2012). Online Resource 1 lists the section/s that address each of the 21 items on the ENTREQ checklist. The evidence synthesis process comprised four steps. The first three concerned the production of “extraction tables” containing textual material on the meditation techniques and experiences extracted from expert...
publications. These three steps are summarized in Fig. 2. The full method for these steps has been published as a separate document which has been peer reviewed and is available in an open access format (Woods et al., 2020). The fourth step in the evidence synthesis process involved comparing individual features of the goal-states across the three practices. That step is summarized in Fig. 3 and outlined in full detail in Online Resource 2 for the present paper.

The extraction tables referred to above and in Fig. 2 are in total 194 pages and are supplementary material in Woods et al. (2020). In this paper we will refer to
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the tables using the abbreviation SH, TM or SM followed by the relevant section number.

1.2 Treatment of inconsistent descriptions

For some features of the goal-states, descriptions are inconsistent across experts in the relevant practice or within the texts of an individual expert. In Section 2 we focus on the majority, or more widespread, descriptions, but also note the minority views.

One minority understanding advanced by Shear is that the TM goal-state lacks all or virtually all forms of content other than being conscious and awake. Other TM experts present the goal-state as involving numerous types of content in addition to being conscious and awake, and Shear also does this in other passages. As Shear’s minority understanding is relevant to almost all the features of the goal-states, we will not repeat it for each of those features in Section 2. Our assessments of whether the features are the same or different across the practices will be based on the majority descriptions. In the ground-states section (Section 2.14) we will explain a possible way to reconcile Shear’s minority understanding with the more widespread reports.

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Fig. 3 Representation of step 4 in the evidence synthesis process. In this step we assessed whether the goal-states are the same (i.e., identical) or different across the practices with respect to each feature. This involved systematically comparing the extracted passages for each feature of the goal-states across the three practices. In the example here, the arrows depict the cross-practice comparison of the extracted material for the feature “No thoughts”. The assessment “Unclear” (as opposed to “Same” or “Different”) was made if: (a) a feature was not described with sufficient precision to reach a finding of sameness or difference; or (b) the feature was reported/implied in one practice but not addressed in another. Stillness, naturalness, and relaxation are examples of features meeting condition (a). Each is reported/implied in all three traditions, but it was not possible to work out whether the precise nature and level/degree was the same across the practices.

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4 Shear (1995/1997b, p. 373) states that the TM goal-state involves the minimal content possible for a conscious experience. He says that it lacks not only content such as thoughts, perceptions, and images, but all abstract content too (TM 2.7.15; Shear, 1990a, p. 396). He uses bliss as an example of abstract content, and implies that unboundedness is a further example (Shear, 1990a, pp. 396, 398). He indicates that the meditator can report that they were conscious and awake, but can say almost nothing more (TM 2.7.2).
1.3 Sources outside the extraction tables

Our findings in Section 2 are derived from the expert passages in the extraction tables. In a few places we also refer to passages and publications outside the tables in order to provide important context and facilitate understanding. Most sources outside the tables are easily identifiable in that they are not authored by one of the eight experts selected for the evidence synthesis. The remaining sources outside the tables are passages by the experts that were not extracted in the tables. To distinguish those sources we have marked them with an asterisk.

2 Results

Table 1 lists the features of the goal-states that we identified from the expert texts, and summarizes our conclusions with respect to each feature. Table 2 lists the features and summarizes our conclusions in a more condensed form. Our detailed analysis supporting the conclusions is presented in Sections 2.1 to 2.18 of this paper. For clarity, in that analysis we have divided the goal-state features into 18 groups based on experiential or conceptual similarities or linkages (see further Online Resource 2).

2.1 Group 1 – conscious, awake, wakefulness

In each practice the meditator is said to be conscious and awake during the goal-state/s.5 The experts indicate that there is a heightened level of wakefulness. For example, Wallace describes the Shamatha meditator as highly alert, and vividly or luminously awake (Wallace, 2011a, p. 109, 2012/2014, p. 199, 2009/2014, p. 92). Pearson (2013) refers to the mind being “awake to its depth” in TM (p. 45), and quotes a meditator saying “I have never been so clearly and entirely and fully awake” (p. 53). Meares (1967/1968, p. 59) describes the Stillness Meditation practitioner as “fully awake”.6 It is not clear whether the heightened levels of wakefulness referred to in each practice are identical.

5 Rosenthal (2016/2017, p. 36) notes that: “[S]ome people report going into a state of awareness where awareness of any sort disappears – until consciousness returns – when, lo and behold! twenty minutes have passed”. On its face, that suggests that it is possible for there to be a loss of consciousness in the TM goal-state/s. The TM accounts as a whole, however, are overwhelmingly weighted towards the understanding that in the goal-states the meditator is conscious. On that view, the experience referred to by Rosenthal should not be regarded as a goal-state.

6 In places Meares also says that the practitioner is not “fully awake” (Meares, 1967b, p. 45, 1987/1991, p. 127). The point he appears to be making there is that the meditator is having a very different kind of wakeful experience to the type they have in normal waking life. As an example, in the goal-states the meditator has no or virtually no awareness of what is going on around them.
Table 1  Goal-State Features – Summary of Conclusions

| Feature of the goal-state/s | Section in this paper | Section/s in extraction tables | Practices reported/implied in | Are the goal-states the same or different across the three practices with respect to this feature? |
|-----------------------------|-----------------------|---------------------------------|-------------------------------|------------------------------------------------------------------------------------------------|
| Conscious (as opposed to not conscious) | 2.1 | SH 2.14.2–2.14.3 TM 2.7.3–2.7.4 SM 2.3.2 | All three practices | Same |
| Awake (as opposed to not awake) | 2.1 | SH 2.14.4 TM 2.7.5 SM 2.3.3 | All three practices | Same |
| Heightened level of wakefulness | 2.1 | As for row above | All three practices | Unclear |
| No thoughts | 2.2 | SH 2.14.14 TM 2.7.16 SM 2.3.11 | All three practices | Same |
| No concepts | 2.2 | SH 2.14.13 TM 2.7.14–2.7.15 SM 2.3.10 | All three practices | Same |
| No sense or body perceptions | 2.2 | SH 2.14.16 TM 2.7.18–2.7.19 SM 2.3.13 | All three practices – only deeper goal-states in Stillness Meditation | Same |
| Very dull sense or body perceptions | 2.2 | SM 2.3.13 | Stillness Meditation – only shallower goal-states* | Different – not part of Shamatha or TM |
| No images | 2.2 | SH 2.14.17 TM 2.7.20 SM 2.3.14 | All three practices | Same |
| No memories | 2.2 | SH 2.14.18 TM 2.7.21 SM 2.3.15 | All three practices | Same |
| No feelings of certain types | 2.2 | SH 2.14.15 TM 2.7.17 SM 2.3.12 | All three practices | Unclear |
| Feature of the goal-state/s                          | Section in this paper | Section/s in extraction tables | Practices reported/implied in                                                                 | Are the goal-states the same or different across the three practices with respect to this feature? |
|----------------------------------------------------|-----------------------|--------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Loving-kindness                                    | 2.2                   | SH 2.14.23                     | Shamatha – reported in one publication, ruled out in another                                   | Unclear                                                                                           |
| No awareness of meditation object (e.g., mantra or breath) | 2.2                   | SH 2.14.24, TM 2.7.28, SM 1.8, 2.3.22 | All three practices                                                                         | Same                                                                                             |
| Little or no mental activity                        | 2.2                   | SH 2.14.13, TM 2.7.14–2.7.15, SM 2.3.10 | All three practices                                                                         | Unclear                                                                                           |
| Emptiness/nothingness                               | 2.2                   | As for row above               | All three practices                                                                         | Unclear                                                                                           |
| Emptiness/nothingness is not flat/barren, but has a fullness/depth | 2.2                   | SH 2.14.21, TM 2.7.9, SM 2.3.7 | All three practices                                                                         | Unclear                                                                                           |
| No grasping with respect to the everyday content    | 2.2                   | SH 2.14.20, TM 2.7.14–2.7.15, SM 2.3.10 | All three practices                                                                         | Unclear                                                                                           |
| Absence of subject-object duality                  | 2.3                   | SH 1.17, 2.14.5, TM 2.7.6, SM 2.3.4 | All three practices                                                                         | Unclear                                                                                           |
| Only recognize the experience upon emerging from it  | 2.3                   | SH 2.14.1, TM 2.7.1, SM 2.3.1 | All three practices                                                                         | Same                                                                                             |
| Stillness                                           | 2.4                   | SH 2.14.9, TM 2.7.7, SM 2.3.5 | All three practices                                                                         | Unclear                                                                                           |
| Feature of the goal-state/s | Section in this paper | Section/s in extraction tables | Practices reported/ implied in | Are the goal-states the same or different across the three practices with respect to this feature? |
|-----------------------------|-----------------------|--------------------------------|-------------------------------|---------------------------------------------------------------------|
| Silence/quietness          | 2.4                   | SH 2.14.10, TM 2.7.8, SM 2.3.6 | All three practices           | Unclear                                                             |
| Simplicity                 | 2.4                   | SH 2.14.33, TM 2.7.34, SM 2.3.28 | All three practices           | Unclear                                                             |
| Naturalness                | 2.4                   | SH 2.14.30, TM 2.7.32, SM 2.3.24 | All three practices           | Unclear                                                             |
| Calm, ease, peacefulness, absence of disturbance | 2.5 | SH 2.14.22, TM 2.7.24, SM 2.3.18 | All three practices           | Unclear                                                             |
| Relaxation                 | 2.5                   | SH 2.14.11, TM 2.7.12, SM 2.3.8 | All three practices           | Unclear                                                             |
| Mental rest                | 2.5                   | SH 2.14.12, TM 2.7.13, SM 2.3.9 | All three practices           | Unclear                                                             |
| No discomfort              | 2.5                   | SH 2.14.6, TM 2.7.31, SM 2.3.23 | All three practices           | Same                                                                |
| No feeling of anxiety      | 2.5                   | SH 2.14.22, TM 2.7.27, SM 2.3.21 | All three practices           | Same                                                                |
| Bliss, joy, happiness, goodness, sense of wellbeing | 2.6 | SH 2.14.6, TM 2.7.26, SM 2.3.19 | All three practices, except that Stillness Meditation does not use the term bliss | Unclear                                                             |
| Feature of the goal-state/s | Section in this paper | Section/s in extraction tables | Practices reported/implied in | Are the goal-states the same or different across the three practices with respect to this feature? |
|-----------------------------|-----------------------|--------------------------------|-------------------------------|------------------------------------------------------------------------------------------------|
| Luminosity as a quality that illuminates the emptiness<sup>b</sup> | 2.7 | SH 2.14.7 | In Shamatha it is reported/implied that the meditator notices the luminosity. TM and Stillness Meditation involve a conscious experience of the emptiness, which, based on the Shamatha understanding of luminosity, implies the existence of that quality (luminosity). However, TM and Stillness Meditation do not clearly identify or label the quality, or say that the meditator notices it (in addition to noticing the emptiness) | Unclear |
| Knowledge/knowing | 2.8 | SH 2.14.8  TM 2.7.42  SM 2.3.34 | All three practices | Unclear |
| No deliberate doing | 2.9 | SH 1.10, 2.14.29  TM 1.6, 2.7.29  SM 1.8, 1.12, 2.3.28 | All three practices | Same |
| No deliberate control | 2.9 | SH 1.10, 2.14.29  TM 1.6, 2.7.29  SM 1.8, 1.12, 2.3.26 | All three practices | Same |
| Relinquishment of a form of automatic control the meditator exerts over themselves | 2.9 | SM 1.15.3, 2.3.26 | Stillness Meditation | Unclear |
| Feature of the goal-state/s | Section in this paper | Section/s in extraction tables | Practices reported/implied in | Are the goal-states the same or different across the three practices with respect to this feature? |
|-----------------------------|-----------------------|--------------------------------|--------------------------------|------------------------------------------------------------------------------------------------|
| Calm control                | 2.9                   | SM 1.12, 2.3.26                | Stillness Meditation          | Unclear                                                                                          |
| Effortlessness              | 2.9                   | SH 1.10, 2.14.29, TM 1.6, 2.7.29, SM 1.8, 1.12, 2.3.25 | All three practices           | Unclear                                                                                          |
| Loss of ego                 | 2.10                  | SH 1.10, 2.14.32, TM 2.7.33, SM 2.3.27 | All three practices           | Unclear                                                                                          |
| Loss of self/world boundaries| 2.10                  | TM 2.7.39, SM 2.3.32           | TM and Stillness Meditation   | Unclear                                                                                          |
| Freedom                     | 2.10                  | SH 2.14.36, TM 2.7.39, SM 2.3.32 | All three practices           | Unclear                                                                                          |
| Spaciousness                | 2.10                  | SH 2.14.38, SM 2.3.32          | Shamatha and Stillness Meditation | Unclear                                                                                       |
| Enclosed/closed             | 2.10                  | SM 2.3.32                      | Stillness Meditation          | Unclear                                                                                          |
| Integration/coherence       | 2.11                  | SH 2.14.34, TM 2.7.37, SM 2.3.30 | All three practices           | Unclear                                                                                          |
| Wholeness                   | 2.11                  | As for row above               | All three practices           | Unclear                                                                                          |
| Unity                       | 2.11                  | As for row above               | All three practices           | Unclear                                                                                          |
| Security/safety             | 2.11                  | SH 2.14.6, 2.14.22, 2.14.35, TM 2.7.38, SM 2.3.31 | All three practices           | Unclear                                                                                          |
| Strength                    | 2.11                  | As for row above               | All three practices           | Unclear                                                                                          |
| Contentment                 | 2.11                  | As for row above               | All three practices           | Unclear                                                                                          |
| Feature of the goal-state/s | Section in this paper | Section/s in extraction tables | Practices reported/implied in | Are the goal-states the same or different across the three practices with respect to this feature? |
|-----------------------------|-----------------------|-------------------------------|------------------------------|--------------------------------------------------------------------------------------------------|
| Timeless (although not necessarily entirely devoid of temporal content) | 2.12 | SH 2.14.37, TM 2.7.41, SM 2.3.33 | All three practices | Unclear |
| No sense of space | 2.12 | TM 2.7.40 | TM | Unclear |
| Spiritual aspect | 2.13 | SH 2.14.39, TM 2.7.43, SM 2.3.35 | All three practices | Unclear |
| Energy | 2.13 | SH 2.14.40, TM 2.7.44 | Shamatha and TM | Unclear |
| A ground-state of consciousness or the mind | 2.14 | SH 2.14.31, TM 2.7.36 | Shamatha and TM experts describe the goal-state as a ground-state. The Stillness Meditation experts imply that there is a deepest goal-state. This could be treated as a ground-state | Unclear |
| The ground-state is the essential nature of the mind or being | 2.14 | SH 2.1.4, 2.14.30, TM 2.7.36, SM 2.3.29 | All three practices | Unclear |
| The ground-state is extremely simple and natural | 2.14 | SH 2.14.30, 2.14.33, TM 2.7.32, 2.7.34, SM 2.3.28–2.3.29 | All three practices | Unclear |
| The ground-state is consciousness itself | 2.14 | SH 2.14.3, TM 2.7.4 | Shamatha and TM | Unclear |
| The ground-state is simple or pure being | 2.14 | TM 2.7.35, SM 2.3.28 | TM and Stillness Meditation | Unclear |
Table 1 (continued)

| Feature of the goal-state/s | Section in this paper | Section/s in extraction tables | Practices reported/implied in | Are the goal-states the same or different across the three practices with respect to this feature? |
|-----------------------------|-----------------------|--------------------------------|-------------------------------|--------------------------------------------------|
| The ground-state is the true or deepest self | 2.14 | TM 2.7.36<br>SM 2.3.29 | TM and Stillness Meditation | Unclear |
| The ground-state is in some sense beyond calm, stillness and goodness | 2.14 | TM 2.7.2, 2.7.15, 2.7.25<br>SM 2.3.20 | Stillness Meditation. Potentially compatible with Shear’s minority understanding that the TM goal-state has no or virtually no content other than being conscious and awake | Unclear |
| Deep | 2.15 | SH 2.14.41<br>TM 2.7.46<br>SM 2.3.37 | All three practices | Unclear, except in that the Shamatha and TM goal-states are deeper than the Stillness Meditation goal-states with very dull perceptions. |
| Profound | 2.15 | SH 2.14.41<br>TM 2.7.45<br>SM 2.3.36 | All three practices | Unclear |
| Attention on the emptiness/silence (not everyday content) | 2.16 | SH 2.14.25<br>TM 2.7.30<br>SM 2.3.10 | All three practices | Same, leaving aside the nature/quality of the attention (see three rows below) |
| Attentional stability | 2.16 | SH 2.14.26<br>TM 2.7.22–2.7.23<br>SM 2.3.16–2.3.17 | Shamatha – perfect stability<br>TM and Stillness Meditation – a degree of stability | Different – substantially greater in Shamatha Meditation<br>Unclear as between TM and Stillness Meditation |
| Attentional vividness | 2.16 | SH 2.14.27<br>TM 2.7.10<br>SM 2.3.3 | Shamatha – perfect vividness<br>TM and Stillness Meditation – some/possible indications that high degree of vividness | Different – substantially greater in Shamatha Meditation<br>Unclear as between TM and Stillness Meditation |
| Feature of the goal-state/s | Section in this paper | Section/s in extraction tables | Practices reported/ implied in | Are the goal-states the same or different across the three practices with respect to this feature? |
|-----------------------------|-----------------------|---------------------------------|--------------------------------|--------------------------------------------------|
| Attentional balance         | 2.16                  | SH 2.14.28                      | Shamatha – high degree of arousal with deep calm and relaxation | Different in Shamatha to TM and Stillness Meditation |
|                             |                       | TM 1.6, 2.7.12, 2.7.24, 2.7.29, 2.7.30 | TM and Stillness Meditation – lower degree of arousal with deep calm and relaxation | Unclear as between TM and Stillness Meditation |
|                             |                       | SM 1.8, 1.12, 2.3.8, 2.3.10, 2.3.18, 2.3.22 |                                      |                                                  |
| To some extent cannot be described in words | 2.17                  | SH 2.1.1, 2.14.44 | All three practices | Unclear |
|                             |                       | TM 2.7.49                       |                                      |                                                  |
|                             |                       | SM 2.3.39                       |                                      |                                                  |
| Variation in the experience between meditators and across sessions | 2.18                  | SH 2.10, 2.14.42–2.14.43 | All three practices | Unclear, except in that the shallower Stillness Meditation goal-states can involve very dull perceptions |
|                             |                       | TM 1.5.2, 2.2, 2.7.47–2.7.48 |                                      |                                                  |
|                             |                       | SM 2.3.36–2.3.38               |                                      |                                                  |

No awareness of breathing (Section 2.2) is covered by the body-perceptions and meditation object features. This table does not take into account Wallace’s suggestion that non-tactile awareness of the rhythm of breathing may be a feature of the Shamatha goal-state (SH 2.14.19), because that suggestion is speculative (Section 2.2).

aFor simplicity, in this paper we will refer to the Stillness Meditation goal-states that involve very dull perceptions as “shallower” than those that involve none. Note, however, that it appears that the Stillness Meditation goal-states can deepen on a range of dimensions other than loss of perceptions. It therefore seems possible that certain goal-states with very dull perceptions may be deeper on particular dimensions than some goal-states that involve none. aThis table does not include “Luminosity as vividness” (Section 2.7) as a feature, since it is understood to be equivalent to “Attentional vividness”, which is included later in the table. bFor simplicity and ease of communication, in the ground-states section of the paper (Section 2.14) we treat the ground experience in each practice as a single state. In reality, it appears there can be variation in that experience (see Section 2.18). cFor simplicity, with respect to Stillness Meditation, analysis of the attentional features in this paper deals only with the deeper goal-states, where even very dull perceptions are absent.
Table 2  Goal-State Features – Summary of Conclusions in Condensed Form

| No. | Feature of the goal-state/s | Section                     | Shamatha Meditation | Transcendental Meditation | Stillness Meditation |
|-----|-----------------------------|-----------------------------|---------------------|---------------------------|----------------------|
| 1.  | Conscious (as opposed to not conscious) | 2.1                         |                     |                           |                      |
| 2.  | Awake (as opposed to not awake) | 2.5                         |                     |                           |                      |
| 3.  | Heightened level of wakefulness | 2.3                         |                     |                           |                      |
| 4.  | No thoughts                 | 2.5                         |                     |                           |                      |
| 5.  | No concepts                 | 2.3                         |                     |                           |                      |
| 6.  | No sense or body perceptions | 2.2                         |                     |                           |                      |
| 7.  | Very dull sense or body perceptions | 2.1                 |                     |                           |                      |
| 8.  | No images                   | 2.5                         |                     |                           |                      |
| 9.  | No memories                 | 2.5                         |                     |                           |                      |
| 10. | No feelings of certain types | 2.3                         |                     |                           |                      |
| 11. | Loving-kindness             | 2.3                         |                     |                           |                      |
| 12. | No awareness of meditation object | 2.5              |                     |                           |                      |
| 13. | Little or no mental activity | 2.3                         |                     |                           |                      |
| 14. | Emptiness/nothingness       | 2.3                         |                     |                           |                      |
| 15. | Emptiness/nothingness is not flat/barren, but has a fullness/depth | 2.3                      |                     |                           |                      |
| 16. | No grappling with respect to the everyday content | 2.3                  |                     |                           |                      |
| 17. | Absence of subject-object duality | 2.3              |                     |                           |                      |
| 18. | Only recognize the experience upon emerging from it | 2.3                  |                     |                           |                      |
| 19. | Stillness                   | 2.4                         |                     |                           |                      |
| 20. | Silence/quiteness           | 2.3                         |                     |                           |                      |
| 21. | Simplicity                  | 2.3                         |                     |                           |                      |
| 22. | Naturalness                 | 2.3                         |                     |                           |                      |
| 23. | Calm, ease, peacefulness, absence of disturbance | 2.3                  |                     |                           |                      |
| 24. | Relaxation                  | 2.1                         |                     |                           |                      |
| 25. | Mental rest                 | 2.3                         |                     |                           |                      |
| 26. | No discomfort               | 2.3                         |                     |                           |                      |
| 27. | No feeling of anxiety       | 2.3                         |                     |                           |                      |
| 28. | Bliss, joy, happiness, goodness, sense of wellbeing | 2.3                  |                     |                           |                      |
| 29. | Luminosity as a quality that illuminates the emptiness | 2.7                 |                     |                           |                      |
| 30. | Knowledge/knowing           | 2.7                         |                     |                           |                      |
| 31. | No deliberate doing         | 2.7                         |                     |                           |                      |
| 32. | No deliberate control       | 2.7                         |                     |                           |                      |
| 33. | Relinquishment of a form of automatic control the mediator exerts over themselves | 2.7                  |                     |                           |                      |
| 34. | Calm control                | 2.7                         |                     |                           |                      |
| 35. | Effortlessness              | 2.5                         |                     |                           |                      |
| 36. | Loss of ego                 | 2.2                         |                     |                           |                      |
| 37. | Loss of self/world boundaries | 2.10                  |                     |                           |                      |
| 38. | Freedom                     | 2.10                        |                     |                           |                      |
| 39. | Spaciousness                | 2.10                        |                     |                           |                      |
| 40. | Enclosed/closed             | 2.10                        |                     |                           |                      |
| 41. | Integration/coherence       | 2.11                        |                     |                           |                      |
| 42. | Wholeness                   | 2.11                        |                     |                           |                      |
| 43. | Unity                       | 2.12                        |                     |                           |                      |
| 44. | Security/safety             | 2.13                        |                     |                           |                      |
| 45. | Strength                    | 2.14                        |                     |                           |                      |
| 46. | Contentment                 | 2.14                        |                     |                           |                      |
| 47. | Timeless (although not necessarily entirely devoid of temporal content) | 2.15                  |                     |                           |                      |
| 48. | No sense of space           | 2.16                        |                     |                           |                      |
| 49. | Spiritual aspect            | 2.16                        |                     |                           |                      |
| 50. | Energy                      | 2.17                        |                     |                           |                      |
| 51. | A ground-state of consciousness or the mind | 2.18                  |                     |                           |                      |
| 52. | The ground-state is the essential nature of the mind or being | 2.18                  |                     |                           |                      |
| 53. | The ground-state is extremely simple and natural | 2.18                  |                     |                           |                      |
| 54. | The ground-state is consciousness itself | 2.18                  |                     |                           |                      |
| 55. | The ground-state is simple or pure being | 2.18                  |                     |                           |                      |
| 56. | The ground-state is the true or deepest self | 2.18                  |                     |                           |                      |
| 57. | The ground-state is in some sense beyond calm, stillness and goodness | 2.18                  |                     |                           |                      |
| 58. | Deep                        | 2.18                        |                     |                           |                      |
| 59. | Profound                    | 2.18                        |                     |                           |                      |
| 60. | Attention on the emptiness/silence (not everyday content) | 2.18                  |                     |                           |                      |
| 61. | Attentional stability       | 2.18                        |                     |                           |                      |
| 62. | Attentional vividness        | 2.18                        |                     |                           |                      |
| 63. | Attentional balance         | 2.18                        |                     |                           |                      |
| 64. | To some extent cannot be described in words | 2.18                  |                     |                           |                      |
| 65. | Variation in the experience between meditators and across sessions | 2.18                  |                     |                           |  

Black = feature reported/implied and with respect to that feature the goal-state/s are the same as in the other two practices. Vertical cross-hatch = feature reported/implied and with respect to that feature the goal-state/s are different to those in the other two practices. Grey = feature reported/implied and with respect to that feature it is unclear whether the goal-state/s are the same or different to those in the other practice/s that are grey or white for that feature. White = feature not addressed (i.e., not reported/implied or ruled out). In those cases (white), with respect to that feature it is also unclear whether the goal-states are the same or different to those in the other practice/s that are grey or white for that feature. Horizontal cross-hatch = feature ruled out. See Table 1 for qualifications and additional detail with respect to individual features.
2.2 Group 2 – emptiness/nothingness

In all three practices, the basic understanding is that the goal-states involve no thoughts, images, memories, or feelings. In each practice, it appears that sense and body perceptions fade gradually as the meditator moves towards the goal-state/s. The Shamatha and TM goal-states are said to involve a complete absence of perceptions. The Stillness Meditation goal-states are said to involve a complete absence of perceptions, or perceptions that are only very dull.

Very dull perceptions in Stillness Meditation means sense or body impressions that are so vague and distant as to not convey any meaning for the meditator. McKinnon (2011, p. 199) gives the example of hearing construction works undertaken outside the meditation room. To begin with, the noises are vividly perceived, but, as the meditation proceeds, they become vague and distant (McKinnon, 2011, pp. 69, 199, 1983/2016, pp. 221, 227; Meares, 1967/1968, p. 83, 1978/1986). By that point they are simply sounds without meaning: They are not recognized as stemming from the construction site, and they do not disturb the meditative experience. Eventually they may fade from consciousness altogether.

In all three practices, it appears that the meditator may be brought out of the goal-state/s by particularly salient stimuli. For example, if they set an alarm-clock to cue the end of a session, it seems that they will perceive the alarm (Meares, 1971a, p. 676, 1973a, p. 734; Roth, 2018, p. 65; Wallace, 2006a, p. 162).

Wallace (2018) speculates that in the Shamatha goal-state the meditator may be aware of the rhythm of their breathing. He distinguishes the rhythm of breathing from “tactile sensations” (p. 11), which he says the meditator will not be aware of. Wallace only makes the comment about rhythm of breathing in one publication. The comment is speculative, because he bases it on reports of what he regards as a similar state in lucid dreamless sleep, as opposed to meditation. In the TM and Stillness Meditation goal-states the meditator is not aware of their breathing (Meares, 1978/1986, p. 15; Shear, 2014b, p. 211).

As referred to above, in all three practices the experts repeatedly state that there are no feelings in the goal-states. In other places, however, they identify features of the goal-states that could be construed as feelings. The most obvious examples are the experiences of bliss, goodness, calm, ease and peacefulness. In one publication Wallace indicates that loving-kindness is a feature of the Shamatha goal-state, but in a later text he states that it is not (Wallace, 2001a, pp. 212–213, 217, 2011a, pp. 137, 231–232).

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7 Rosenthal is an exception among the TM experts, in that some of his descriptions do not fit neatly with this understanding. For example, in some of his case studies, the meditators have ongoing awareness of their surrounding environment, or inner experiences of colours and lights (TM 2.7.18, 2.7.48). He treats some of these cases as the TM goal-state/s, and in other cases he does not specify whether they are the goal-state/s or interim-states. Pearson, Shear and Travis more clearly express the basic understanding that the TM goal-state/s involve no sense-perceptions or images. Based on their approach, the examples given by Rosenthal would be classed as interim, rather than goal, states.

8 During a lucid experience of dreamless sleep, the person sleeping is aware of their state of consciousness (Thompson, 2015; Windt et al., 2016).
When the experts say that there are no feelings, it appears that what they actually have in mind is particular feelings that are experienced in daily life. For example, they never refer to negative feelings as being part of the goal-states, which suggests that they understand those feelings to be absent. They may also have in mind certain neutral and positive feelings, such as any that are incompatible with other features of the goal-states. The experts implicitly distinguish between the relevant feelings experienced in daily life, and other types of feelings such as bliss, goodness, calm, ease, and peacefulness. The meditator moves beyond feelings of the first type, whereas feelings of the second type are generally presented as innate aspects of the meditator’s mind or being that are discovered as part of the practices.

In the TM goal-state/s the meditator is no longer aware of the mantra. Shamatha is somewhat similar, in that as the meditator enters the goal-state they release the meditation object. That means that they are no longer mindful of the object: They cease attending to it. In Stillness Meditation there is no object at any point in the practice.

On the basis of the absence, or virtual absence, of various types of content, experts in all three practices note that there is little or no mental activity, and refer to the states as empty, or as involving nothing or an experience of nothingness. Wallace makes clear that the terms empty and emptiness in this context have a different meaning to their more common usage in Buddhist discourse (Wallace, 2006a, pp. 146, 148, 2011b, p. 175). Ordinarily emptiness refers to “[t]he absence of inherent existence of all phenomena” (Wallace, 2011b, p. 184*), whereas here it simply describes the absence of the various types of content.

Experts in the three practices use a number of terms to communicate the second type of emptiness. In TM, the goal-state is said to have no objects or qualities. TM and Shamatha refer to the goal-states as contentless and devoid of concepts. In Shamatha, non-conceptuality – meaning the absence of concepts – is presented as one of the fundamental features of the goal-state. Shamatha describes the emptiness as a vacuity or vacuum, and it refers to the absent content as dormant, in that it returns as the meditator emerges from the experience.

A closely related feature identified in Shamatha is the absence of grasping with respect to the absent content. TM and Stillness Meditation tend not to use the term grasping, but the emptiness of the goal-states implies that meditators in those practices have in some sense let go of the relevant content.

For the remainder of this paper we will use the term “everyday content” to describe the content that is absent, or virtually absent, from the goal-states. This is not a technical term, and we introduce it simply to provide a notation for that content. The word everyday signifies that the content is generally present in everyday waking life. The full term, everyday content, does not cover all of the content that

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9 Wallace focuses on three types of Shamatha practice (see Woods et al., 2022a). In one of them, awareness of awareness, the meditation object is awareness itself. For this practice, the release of the meditation object appears to be very subtle (SH 1.14.4). In the goal-state the meditator is still said to attend to awareness, but not as an object.

10 In Dzogchen, insight (Sanskrit: vipashyana) practices (as opposed to shamatha) are generally considered necessary to realize the first type of emptiness (Wallace, 2011b, pp. ix, 63*).
is or may be present in everyday life. As a simple example, it does not include the sense of being conscious or awake, which remains present in the goal-states.

In each of the three traditions there is a clarification that the emptiness is not flat or barren, and that there is instead a depth or fullness to it. Referring to the empty “space of the mind” experienced in the Shamatha goal-state, Wallace (2011a, p. 215) comments, “This space is not an empty nothingness – it’s not flat empty”. He then refers to the paradox that “emptiness is full” (p. 215). Pearson (2013, p. 444) says that the TM goal-state/s may be initially experienced as “flat”, but that with practice the meditator may encounter “the internal, unmanifest reverberations, the inner dynamics of consciousness”. He describes what is experienced in the latter case as “infinitely silent and infinitely dynamic, both together” (p. 444). McKinnon (2011, pp. 101–102) quotes a Stillness Meditation practitioner who refers to a “noth-ingness”, but who then adds “yet it felt like everything”. Meares (1976/1984, p. 35) says that there is a depth to what is experienced, distinguishing it from oblivion (see Sections 2.15 and 2.18 for further discussion concerning depth).

2.3 Group 3 – nonduality and recognition in retrospect

Each of the practices identifies the absence of subject-object duality as a feature of the goal-states. In the Shamatha context, Wallace indicates that the dichotomy between the meditator and objects of experience is constructed by concepts (Wallace, 2010, p. 50), such as “‘I’ and ‘not I’” (Wallace, 2009/2014, p. 94). Since there are no concepts in the goal-state, there is no subject/object dichotomy. Wallace (2010) says that, “[T]here is no longer a sense of the meditator” (p. 50), and that what is left is “just the experience” (p. 49).

The TM texts refer to the subject/object or “I … it” (Shear, 1990b, p. 102) structure collapsing due to the absence of objects such as thoughts, perceptions, and the mantra. Pearson (2013, p. 47) says that the subject, consciousness, “becomes its own object of experience”, so that “the subject is the object”. Shear (1990b, p. 102) says that “the subject finds himself … alone … simply self conscious, without any object of awareness”.

In Stillness Meditation, the absence of subject/object duality is described with reference to the relaxation that develops in the practice (Meares, 1978/1986, pp. 19–20, 24–25). In the early stages of a meditation session, the individual has a sense of themselves, as subject, feeling the relaxation of the body, one of the objects of experience. As the session progresses, the relaxation deepens and becomes more prominent, extending beyond the body and permeating the meditator’s whole being. The meditator – or equivalently, the subject/being – is then said to participate in the experience, rather than standing apart from it: “The separate entities cease to be separate” (Meares, 1978/1986, p. 20).

While the absence of subject-object duality is described in different terms in the three traditions, it could still be identical across the practices. The Shamatha and TM descriptions focus on the absence of everyday content (including concepts), and the absence of that content is also a feature in Stillness Meditation. The Stillness Meditation description emphasizes the absorptive nature of the relaxation. Shamatha
Evidence synthesis indicates contentless experiences in…

and TM also involve deep relaxation, although it is not necessarily absorptive in the same way as in Stillness Meditation. It could be that the nonduality in the three practices comes about in different ways, but that the experience of it in the goal-states is still the same.

A separate but closely related feature concerns the point at which the goal-state experience is recognized. The TM and Stillness Meditation experts expressly state that the meditator only becomes aware that they have experienced the goal-states once they emerge from them. Wallace does not explicitly make this point for Shamatha, but it is implied by the fact that the Shamatha goal-state involves no introspection, thought or conceptualization. TM and Stillness Meditation experts elaborate on the point by noting that if the meditator is examining their state of mind, or has a thought such as “My mind is still”, they are not experiencing the goal-state at that moment. Experts in all three traditions indicate that once the meditator emerges from the goal-state/s they are able to remember the experience.

2.4 Group 4 – stillness, silence, simplicity, naturalness

In each practice, the goal-state/s are said to involve an experience of stillness, silence, simplicity, and naturalness. The experts often allow those terms to speak for themselves, rather than elaborating as to their meaning. The passages that do elaborate with respect to the term stillness suggest that it usually reflects the absence of disturbances such as thoughts, perceptions, and negative feelings. The terms silence and quietness reflect at least the absence of thoughts and sounds. The experts also leave scope for them to be interpreted as extending to the absence of other disturbances such as negative feelings. The feature silence/quietness is explored in more detail in Woods et al. (2020).

2.5 Group 5 – calm, relaxation, rest

Calm, ease and peacefulness are described as features of the goal-states, again reflecting that the mind is no longer disturbed by thoughts, perceptions, negative feelings, and so on. The meditator is relaxed, and experiences mental rest. Any earlier sense of discomfort from the posture or any other source is lost. In TM and Stillness Meditation there are explicit statements or reports that there is no sense of anxiety (McKinnon, 2011, p. 84; Meares, 1978/1986, pp. 26, 151, 160; Rosenthal, 2011/2012, p. 39; Roth, 2018, pp. 66–67). Wallace does not expressly make that point for Shamatha, but it seems implied by his descriptions of the calm, ease and peacefulness.

2.6 Group 6 – bliss/goodness

Wallace presents bliss as a feature of the Shamatha goal-state, and Pearson, Rosenthal and Roth treat it as part of the TM goal-state. Shear sometimes treats it as part of the TM goal-state (Shear, 1990b, p. 172, 2006b, p. xix, c, p. 44, 2011a, pp. 142–143), and other times he expressly states that it is not (Shear,
Shear claims that bliss is experienced in interim-states that immediately precede the TM goal-state (TM 1.8.2). In one place he says that authors sometimes conflate these interim-states, where there is bliss, with the goal-state, where there is none (Shear, 2002, p. 378). He appears to be suggesting that this is the reason those authors incorrectly treat bliss as part of the goal-state. Travis, the final TM expert, tends not to refer to bliss.

In Shamatha and TM, bliss is also referred to as joy, happiness, and a sense of wellbeing. Wallace indicates that the bliss in Shamatha derives from the calm and peacefulness of the goal-state: It is experienced when the mind is no longer being “pummeled to death with afflictions, craving, hostility, and aversion” (Wallace, 2010, p. 32). He refers to it as the “joy of serenity” (Wallace, 2005, p. 109) and as a “bliss or joy that is quiet and serene” (Wallace, 2011b, p. 145). Rosenthal similarly identifies the close connection between the bliss, calm and peacefulness in the TM goal-state. He observes that peacefulness is one facet of bliss, alongside joy and happiness (Rosenthal, 2016/2017, p. 36), and he refers to bliss as “calm pleasure” (Rosenthal, 2011/2012, p. 38).

The bliss in the Shamatha goal-state is consistently presented as “subtle” (Wallace, 1998/2005, p. 207, 2005, p. 109) and “subdued” (Wallace, 2011b, p. 145), and therefore vastly different to the intense bliss that is said to be experienced in the interim-state immediately prior to achieving the goal-state (SH 1.11.10; Wallace, 2006a, p. 156, 2010, p. 66, 2011a, p. 97). For TM, on the other hand, there seems to be variation in how the magnitude or intensity of the bliss is described. For example, Pearson (2013, p. 45) states that “[n]o experience fills the mind with greater happiness”, and Shear (1990b, p. 42) indicates that bliss is experiencing “the ultimate object of all desires”. Rosenthal (2016/2017, p. 39), in contrast, comments: “My own transcendent experiences and those of most of my patients are pleasant but unsensational”. That suggests a more subdued experience of bliss than those referred to by Pearson and Shear.

The Stillness Meditation experts do not present “bliss” as a feature of the goal-states. However, they say that meditators experience the goal-states as good or wonderful, and as involving a sense of joy or wellbeing. In Shamatha and TM the term bliss is used synonymously with words like joy and wellbeing, and those terms can capture the sense that an experience is good or wonderful. As such, even though the word bliss is not relied on in Stillness Meditation, the feelings being described in that practice could be similar to those in Shamatha and TM.

As for Shamatha and TM, one source of the positive feelings in Stillness Meditation is said to be the calmness of the experience (Meares, 1976/1980, p. 134, 1978/1986, p. 155). The Stillness Meditation experts also identify other sources, including the sense that the experience is effortless (Meares, 1969c, p. 84).

McKinnon (2002/2008, p. 45) says that terms like “bliss … rapture [and] exaltation” are not typically used to describe the Stillness Meditation goal-states, which suggests that the positive feelings in the goal-states are subdued in comparison to more intense forms. Meares states that “ecstasy” can be part of the Stillness Meditation experience, but he indicates that it is not a feature of the deepest goal-state (Meares, 1976/1984, p. 12, 1978/1986, p. 145). It is unclear
whether he means that ecstasy can be part of the shallower goal-states, or whether he is referring only to the interim-states.

2.7 Group 7 – luminosity

Wallace refers to luminosity as a fundamental quality of consciousness. It is the quality that illuminates whatever appears to the mind and without which nothing would appear (Wallace, 2011b, p. 95, 2009/2014, p. 90). According to Wallace (2018, p. 44), the quality is normally obscured by the everyday content. In the Shamatha goal-state that content is no longer present. Luminosity is said to illuminate the resulting vacuity or emptiness (Wallace, 2011b, pp. 176–177, 2009/2014, p. 90), and the luminosity is said to “[become] manifest” due to its being no longer obscured (Wallace, 2018, p. 44).

Wallace also treats luminosity as synonymous with vividness, which refers to the clarity of attention (Wallace, 2011a, p. 243, b, pp. 120, 186, 2012, p. 17). It therefore appears that luminosity can describe both the vividness or clarity of attention with respect to appearances, and the quality that allows the meditator to be conscious of those appearances at all. Wallace seems to address the first aspect – vividness or clarity – when he comments that in the Shamatha goal-state there is an “exceptional degree of luminosity” (Wallace, 2011a, p. 232). We will discuss the vividness, or clarity, in Shamatha, TM and Stillness Meditation in Section 2.16.

Terms like clearness, purity, transparency, radiance, and limpidity are often relied on by Wallace in his comments about luminosity. These terms appear to refer to features of the Shamatha goal-state that are the same as those discussed elsewhere in this Section 2, or that are very similar. The words clear, pure and transparent are used, at least in places, to indicate the absence of everyday content (Wallace, 2005, p. 165, 2006a, p. 144, 2011a, p. 232, 2018, p. 44). Clearness, therefore, does not necessarily equate to the term clarity, which tends to refer to vividness (e.g., Wallace & Hodel, 2008, p. 207). The terms radiance and radiant clarity are generally used as synonyms for luminosity, vividness and clarity (Wallace, 2011b, pp. 98, 120; Wallace & Hodel, 2008, p. 192). Limpidity can indicate both the absence of everyday content and luminosity (Wallace, 2001/2003, p. 90).

The term luminosity is not used in the TM or Stillness Meditation accounts. Those accounts also do not clearly identify and label a particular quality of consciousness that illuminates appearances to the mind, as luminosity is said to do in Shamatha. It follows that there is no clear discussion in the accounts about whether that quality is noticed in the goal-states. Nevertheless, in the TM and Stillness Meditation goal-states the meditator is said to have a conscious experience of emptiness. Adopting the Shamatha understanding, that would mean that the emptiness in those goal-states is somehow illuminated, implying that there is a form of luminosity. It is possible that this quality is both present and noticed in the TM and Stillness Meditation goal-states, but that it is not labelled and commented upon in the texts for those practices as it is in Shamatha.
TM and Stillness Meditation use the words clear, clarity, and pure or purity (TM 2.7.10–2.7.11; SM 2.3.3), but those terms do not appear to add anything to the features of the goal-states discussed above and below. For example, the term pure consciousness is used heavily in TM. The word pure in that context refers to the absence of everyday content in the TM goal-state, and to the understanding that the experience is of consciousness itself. As a further example, the term clarity in Stillness Meditation suggests that the goal-states involve a degree of vividness and are not drowsy. We discuss vividness in Section 2.16, and the absence of drowsiness is incorporated in the understanding that the meditator has a heightened level of wakefulness.

2.8 Group 8 – knowledge/knowing

Wallace treats cognizance or knowing as another fundamental quality of consciousness alongside luminosity. Luminosity illuminates appearances such as thoughts and images, whereas cognizance is the quality of knowing that they are there and recognizing them for what they are (Wallace, 2005, p. 37, 2011a, p. 229). The Shamatha goal-state is said to be empty, but the quality of knowing remains. Wallace describes it as a knowing that the mind is empty (Wallace, 2009/2014, p. 90), “knowledge before knowledge of anything else” (Wallace, 2005, p. 191), and “the very nature of [knowing]” (Wallace, 1999b, p. 444). He also refers to it as a “nonconceptual knowing” (Wallace, 2011a, p. 297) and a “deep knowledge that is implicit rather than explicit” (Wallace, 2011a, p. 187).

TM and Stillness Meditation also refer to some sort of knowing or knowledge in the goal-states. Pearson (2013, p. 47) notes that Maharishi Mahesh Yogi referred to the TM goal-state as involving “pure knowledge” or a “state of knowingness”. Pearson contrasts that with the “knowledge of specific things” that is a feature of consciousness in normal life (p. 47). Rosenthal (2011/2012, p. 39) quotes a meditator who says that in the TM goal-state they experience “a knowing that is very beautiful”. The Stillness Meditation accounts also refer to a form of knowing or knowledge that is different to the types experienced in normal life. Meares (1987a, p. 9) describes it as “the spirit of what we need to know [rather than knowledge itself]”. Like in Shamatha, he emphasizes that this knowledge is beyond thoughts and words (Meares, 1979b, p. 81, 1980e, p. 3, 1976/1984, pp. 22–23).

2.9 Group 9 – relinquishment of control, control, effortlessness

Relinquishment of control is presented as a fundamental element of each practice. A basic principle is that the meditator relinquishes control in the interim-states in order to move into the goal-state/s. The Shamatha and TM accounts contain little reference to the meditator having a sense of the relinquishment of control in the goal-state/s. However, it is clear from those accounts that the meditator does not reassert control in the goal-states, which suggests that they would describe those states as involving the relinquishment of control. The Stillness Meditation accounts
Evidence synthesis indicates contentless experiences in the goal-states.

The main type of control that the three practices refer to as having been relinquished is deliberate control. The experts tend not to use that specific term, but it provides a useful shorthand for what they are describing. Control can be thought of as the guiding of mental or physical experience or action (Christoff et al., 2016; Markovic & Thompson, 2016). In the goal-states, there is no deliberate doing, or guiding. For example, upon reaching the Shamatha goal-state, the meditator has eliminated excitation and laxity, and therefore no longer needs to monitor to detect them. In the TM goal-state the meditator has transcended the mantra, so does not need to return their attention to it. The Stillness Meditation practitioner has from the beginning relinquished all deliberate doing and control, other than that required to maintain the posture. Once their body comes to automatically remain in the correct posture, deliberate doing and control are not required for that either.

Meares provides detailed descriptions of the relinquishment of an additional form of control in Stillness Meditation (Meares, 1967/1968, pp. 87–88, 1978/1986, pp. 27–29, 147). It is clear from these descriptions that what is being relinquished is a form of automatic control, although Meares does not use that particular term. He notes, for example, that the control does not come from the “voluntary level of [the] mind” (Meares, 1978/1986, p. 29).

Experientially, the meditator finds that with each session they can progress a little further, either towards the goal-states, or into deeper goal-states. For example, Meares (1978/1986, p. 147) describes the “letting go of ourself” that is initially experienced in the goal-states, and the “deeper process of simply ‘letting ourself’” that is subsequently encountered. McKinnon (1983/2016, p. 227) refers to the relinquishment of automatic control in the goal-states by saying, “You let go into [the stillness] more and more and more completely”. The meditator has the sense that previously there was something holding them back: a form of automatic control exerted over themselves. With practice, they are able to relinquish that control in whole or in part, allowing them to progress.

Certain of Wallace’s descriptions in Shamatha could arguably also be interpreted as indicating a relinquishment of this form of automatic control (e.g., Wallace, 2006a, p. 100, read together with Wallace, 2011a, pp. 179–184). However, neither Wallace’s account nor the TM passages refer to this relinquishment clearly and directly, as done in Stillness Meditation. Given that relinquishment of control is regarded as fundamental in Shamatha and TM, it seems plausible that the relinquishment of automatic control described in Stillness Meditation is also part of those practices.

In Stillness Meditation, relinquishing the automatic control in the goal-states allows the meditator to go deeper, until they reach the deepest goal-state. In Shamatha and TM, whether the meditator can go deeper in the goal-state/s in a similar way depends on whether the goal-state/s are understood as a single state or a series

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11 The examples in this paragraph are explained in more detail in Woods et al. (2022a). In simple terms, excitation can be thought of as attentional hyperactivity, and laxity as attentional dullness.
of deepening states. If there is no deepening in the goal-states, it could still be that the relinquishment of automatic control and the associated deepening of experience occur in the interim-states.

The Stillness Meditation experts indicate that the meditator may also have some sense of calm control in the goal-states. The meditator maintains the posture throughout the practice, which requires a form of automatic control different to that referred to in the paragraphs above. Meares (1978/1986, p. 40) explains that maintaining the posture leads to the “simultaneous experience of complete relaxation and effortless control”, and McKinnon (2011, pp. 67, 81) refers to this as “calm control”.

The Shamatha and TM accounts do not refer to this sense of calm control in the goal-states. However, both those practices appear to require forms of automatic control during those states: In each practice the posture is maintained, and in Shamatha there is single-pointed attention. It therefore seems plausible that meditators in those practices also have some sense of calm control, even though the experts do not mention it.

In Shamatha, the goal-states are referred to as effortless and as involving no effort, and in TM and Stillness Meditation the entire practices are described that way (see further Woods et al., 2022a). In each practice, it is clear from the expert texts that, since there is no deliberate doing/control in the goal-states, there is no effort associated with such doing/control, and the goal-states are therefore effortless in that sense. The Stillness Meditation texts arguably indicate that there are subtle forms of effort associated with the form of automatic control that is relinquished in the goal-states. On that understanding, in the deepest goal-state (where much or all of that automatic control has been relinquished) there is an even greater effortlessness than in the shallower goal-states. McKinnon (2002/2008, p. 45) says that the deepest goal-state is “beyond effort … of any kind”. It is plausible that all three practices involve the release of subtle forms of effort linked to the relevant form of automatic control, but the textual evidence on this point is inconclusive.

### 2.10 Group 10 – ego dissolution, freedom, spaciousness

Loss of ego is referred to as a feature of the goal-states in all three practices. Wallace states that in the Shamatha goal-state there is no ego, sense of self, sense of “I” or “mine”, or personal history or identity. The TM passages are similar, referring to the TM goal-state/s as beyond ego, sense of self, sense of “I” or “me”, personality, and individuality. McKinnon says that in the Stillness Meditation goal-states there is no ego.

Meares and McKinnon indicate that meditators can experience a loss of self/world boundaries in the Stillness Meditation goal-states. Meares (1978/1986, pp. 152–153) explains that meditators may report a sense of merging with the world around them, and McKinnon (2011, p. 118) describes the sense of “communion with all things”. In TM there are also explicit descriptions of the loss of self/world boundaries (Rosenthal, 2011/2012, p. 37; Shear, 1990b, p. 230), and the word unbounded is frequently used without elaboration.

Wallace does not expressly refer to a loss of self/world boundaries in the Shamatha goal-state. He does, however, describe the goal-state as involving freedom,
spaciousness, and unity, and it is possible that the loss of boundaries is incorporated in one or more of those features. Wallace does not describe the three features in much detail.

The experience of inner freedom is also reported in TM and Stillness Meditation. The term freedom is usually used in Stillness Meditation to describe the meditator’s sense that there is nothing holding them back within the experience. That appears to reflect that the meditator has relinquished all deliberate control and, at a certain point, will have relinquished the relevant form of automatic control. In TM the term freedom similarly relates to the absence of limitations or restraints (Pearson, 2013, p. 396; Travis et al., 2005, p. 128). These include self/world boundaries (Shear, 1990b, p. 230), and presumably also relevant forms of control.

Describing the Stillness Meditation goal-states, McKinnon (2011) refers to “spaciousness and comforting enclosure” (p. 81), and an experience that is “closed yet spacious” (p. 101). She does not elaborate on what she means by the terms spacious, enclosure or closed. The TM experts do not use the term spacious to describe the TM goal-state, and the terms enclosure and closed are not used in TM or Shamatha.

Wallace describes the ego as the sense of “I am”, and repeatedly indicates that this will be strengthened by any deliberate doing or control on the part of the meditator (Wallace, 2006a, p. 49, 2011a, pp. 179–184). As discussed above, the experts in all three practices make clear that there is no deliberate doing or control in the goal-states, which implies the complete loss of any sense of self derived from such doing or control.

The Stillness Meditation texts may be read as indicating that there is a sense of self that derives from the form of automatic control that is said to be relinquished in the goal-states in that practice. That sense of self could be understood as including the self/world boundaries referred to above, but there may also be other facets (see Meares, 1978/1986, pp. 145–160). As noted above, it is possible that Shamatha and TM also involve a relinquishment of the relevant form of automatic control. To the extent that there is a sense of self that derives from that control, the relinquishment of the control in a practice will lead to loss of that sense of self.

While the TM and Stillness Meditation experts refer to there being no ego in the goal-states, and the TM experts at times indicate that there is no sense of self, in both practices meditators may describe the goal-states (or at least the deepest goal-state) as an experience of their true self (see Section 2.14 below). This suggests that certain dimensions of self are lost in the goal-states but that a deeper sense of self may be revealed. The Shamatha texts do not refer to the goal-state in that practice as involving an experience of the true self.

### 2.11 Group 11 – integration and security

In each practice the experts indicate that the goal-states involve a sense of wholeness, unity, and integration or coherence. TM and Stillness Meditation emphasize this aspect more than Shamatha, but in Shamatha there are still clear references to it.

The four qualities are often referred to briefly, without elaboration. The elaboration that is provided suggests that the qualities may have multiple facets. For
example, Rosenthal (2016/2017, p. 234) and Meares (1978/1986, pp. 19–20) refer to the sense of unity from transcending the duality between subject and object; Meares (1978/1986, p. 149) talks about the unity of no longer experiencing body and mind as separate; and Wallace (2011a, p. 208) notes the unity between awareness and the emptiness, brought about by the absence of everyday content. McKinnon (2011, pp. 85, 118, 203, 1983/2016, p. 195) refers to the meditator’s sense of integration, coherence and unity both within themselves, and with the world around them. The latter aspect reflects the loss of self/world boundaries described in Section 2.10.

Certain of the features discussed in the sections above, such as calm, peacefulness, bliss, joy, and no feeling of anxiety, suggest some sense of inner security, safety, strength and contentment. Those latter four qualities are also clearly and repeatedly referred to in TM and Stillness Meditation. For example, in the TM context one meditator refers to feelings of strength, invincibility, and being taken care of (Pearson, 2013, p. 185), and another comments that “Everything seems right” (Travis et al., 2005, p. 128). McKinnon (2011) similarly refers to the Stillness Meditation experience as involving “a very safe and content knowledge that all is well” (p. 101), and she quotes a meditator saying that, “Everything I needed – safety, security, strength, peace – was within that stillness” (p. 102).

In Shamatha, Wallace tends not to emphasize security, safety, strength and contentment beyond what is suggested by the features calm, peacefulness, bliss, and so on. He does, however, quote nineteenth-century Buddhist contemplative Lerab Lingpa as saying that the experience can provide “a non-conceptual sense that nothing can harm the mind” (Wallace, 2012/2014, p. 218).

### 2.12 Group 12 – timelessness and spacelessness

In each practice the goal-states are said to be timeless. Wallace (2006a, p. 162) says that the Shamatha meditator may have “little or no experience of the passage of time”. Wallace explains that sense of time is dependent on conceptualization, and refers to the absence of conceptualization in the Shamatha goal-state. He notes, however, that before entering the goal-state the meditator can cue themselves to emerge after a specified period or when prompted by an external stimulus such as an alarm clock.

The Shamatha practices conclude with the Shamatha goal-state, but if the meditator wishes they may proceed to deeper states via separate practices (see, e.g., Lati Rinbochay & Denma Lochö Rinbochay, 1983/1997; Wallace, 1998/2005, p. 92, 2010, pp. 84–85).12 Wallace (2011a, p. 292) indicates that there are gradations of timelessness, and that timelessness becomes more complete as a meditator moves from the goal-state through the series of deeper states. He refers to time having vanished in each of these states, but indicates that it is only at the end of the series that “time is completely stopped” (p. 292).

The TM goal-state is referred to as being “beyond time” (Pearson, 2013, p. 265; Rosenthal, 2011/2012, p. 18) and “devoid of [temporal] content” (Shear, 1990a, 12 These states are the deeper absorptions as referred to in Section 3.8.
Evidence synthesis indicates contentless experiences in…

However, Roth (2018, p. 58) notes that many TM meditators say that “time passes quickly”. That comment suggests that the meditators emerge from the goal-state and discover that more clock-time has passed than the way it feels when reflecting on the experience. This raises the possibility that, although the goal-state is in some sense timeless, there is still some temporal content.

Meares and McKinnon say relatively little about time and the Stillness Meditation goal-states. Meares (1976/1980, p. 190) simply observes that sense of time is distorted, and McKinnon’s main comment is that the states are timeless.

In summary, it appears that the goal-states in all three practices are in some sense timeless, but it is not clear exactly what is meant by that term, and in particular whether all temporal content is absent.13

TM experts say that the goal-state involves no sense of space. Shear (1990a, p. 392), for example, says that “by all accounts … spatiality … [is] not present”, and Rosenthal (2011/2012, p. 18) refers to the feeling of going beyond space. As discussed above, Wallace and McKinnon describe the goal-states in Shamatha and Stillness Meditation as spacious, but it is not clear exactly what they mean by that term. Wallace and the Stillness Meditation experts do not clearly refer to all sense of space being absent.

2.13 Group 13 – spiritual aspect and energy

In each practice the experts indicate that some meditators may report there having been some spiritual aspect of the goal-states. For example, Wallace discusses the possibility of meditators referring to the Shamatha goal-state as “[belonging] to God” (Wallace, 2009/2014, p. 59), or “holy” (Wallace, 2011b, p. 159). Rosenthal (2011/2012, p. 38) quotes a meditator referring to the TM goal-state as “a touch of heaven”, and Pearson (2013, p. 264) notes that Maharishi Mahesh Yogi regarded it as an aspect of God. Meares (1984, p. 147) says that meditators have reported that in the Stillness Meditation goal-states they have gained glimpses of a “[spiritual] dimension of [their] being”.

The Shamatha and Stillness Meditation accounts indicate that two meditators may have the same experience but interpret it differently (Meares, 1984, p. 47; Wallace, 2009/2014, p. 59). One may interpret some facet of the experience as spiritual, while another may interpret it simply as one of the features discussed above and below. It is not clear from the accounts in the three practices whether it is possible for the spiritual element to be something beyond those features.

Rosenthal (2016/2017, pp. 217, 221–222) quotes two meditators who refer to a sense of energy flowing through them in their TM practice. However, those people also refer to having sense or body perceptions, which suggests that they may be describing interim rather than goal states. Roth, in the TM context, and Wallace, in Shamatha, also refer to energy as an aspect of the states aimed for in those practices. It is not clear, though, from those references whether energy is a feature of the

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13 One possibility is that in the goal-states in some or all of the practices meditators have an extended experience of “nowness”, as described by Windt (2015).
goal-states that is distinct from those discussed above and below. For example, Wallace says that the Shamatha state “possesses structure and energy, characterized by such attributes as bliss … luminosity … and [subject-object nonduality]” (Wallace & Hodel, 2008, p. 192). That statement does not establish that the meditator has a sense of energy over and above those other features, but it does not rule it out either.

In Stillness Meditation energy is not referred to as being part of the states aimed for in the practice. McKinnon (2011, p. 108*) says that in those states “all energy is resting”.

### 2.14 Group 14 – ground-state

Wallace describes the Shamatha goal-state as a “ground state” of consciousness or the mind. He refers to it as the “relative” ground-state, and distinguishes that from pristine awareness, the “absolute” or “ultimate” ground-state accessible via more advanced practices (SH 2.6; Wallace, 2006a, p. 137, 2011b, p. 27). Wallace calls the Shamatha goal-state the natural state, or the essential nature, of the mind (SH 2.14.30; Wallace, 2012/2014, p. 151), and notes that a meditator may interpret it as a deep dimension of their being (Wallace, 2009/2014, p. 59). He explains that, in the Shamatha context, the term essential nature of the mind refers to the mind’s relative or conventional nature (Wallace, 2011b, p. 177). The term can also be used to describe pristine awareness, but there it means the mind’s ultimate or fundamental nature (Wallace, 2006a, p. 137).

Pearson, Shear and Travis indicate that, like in Shamatha, the TM goal-state is a ground-state of consciousness or the mind. In Stillness Meditation the experts do not use the term ground-state. However, Meares refers to the “full” (Meares, 1978/1986, p. 145) or “final” (Meares, 1987/1991, p. 127) experience in the practice, and McKinnon (2002/2008, p. 45) speaks about the “ultimate sensation”. Viewed in context, these passages appear to be referring to the deepest goal-state among a range of Stillness Meditation goal-states (see further Section 2.18). This deepest goal-state could be treated as a ground-state.

Similarly to Shamatha, in the TM and Stillness Meditation ground-states the meditator is said to experience the essential nature of their mind or being. In all three practices, the features of the goal-states such as stillness, calm, and naturalness are presented as aspects of that essential nature. In other words, those features are depicted as innate: Meditators have the sense of discovering them within themselves, and of recognizing that they have been there all along.

In places, the TM and Stillness Meditation experts indicate that the respective ground-states are the simplest and most natural experience/s possible (Meares, 1984, p. 52, 1978/1986, p. 27; Pearson, 2013, pp. 44, 49). Wallace states that in the Shamatha ground-state the meditator experiences “utter simplicity” (Wallace, 2005, p. 189), and his labelling of it as the natural state of the mind suggests a very high degree of naturalness. Unlike in Shamatha, the TM and Stillness Meditation experts do not refer to there being any deeper ground-state accessible via other meditation practices.
Evidence synthesis indicates contentless experiences in…

Wallace describes the Shamatha goal-state as consciousness or awareness itself, and Pearson, Shear and Travis say the same of the TM goal-state. Pearson, Shear and Travis use the term pure consciousness in this context, whereas Wallace does not. Wallace (2006a, p. 123) emphasizes that the Shamatha goal-state is “the nature of consciousness in its relative ground state”. From the Shamatha perspective, pristine awareness is the ultimate nature of consciousness (SH 2.6). In contrast to Shamatha and TM, the Stillness Meditation ground-state is not described as consciousness or awareness itself.

In TM and Stillness Meditation the ground-states are referred to as simple or pure being. Rosenthal (2016/2017, pp. 238–239) quotes a TM meditator saying, “It’s pure being. It’s is-ness, pure am-ness. It is the essential nature of existence”. Meares (1978/1986, p. 27) explains similarly that the Stillness Meditation ground-state is “the unadorned, primordial experience of existence”: “the act of just being … with nothing added at all”. In TM and Stillness Meditation, the ground-states are also described as an experience of the true, underlying, innermost, or deepest self. When discussing simple/pure being or the self, the TM experts sometimes use title case, referring to Being and Self (capitalized). In places they do this to make clear that the experiences of being and self are different to those in everyday life (Arenander & Travis, 2004, p. 114; Pearson, 2013, p. 46; Shear, 2006b, p. xvii). They may also do it, at least in places, to hint at metaphysical aspects of the experience (Shear, 2006b, p. xix; Shear & Jevning, 1999a, p. 193; TM 2.4). Wallace does not describe the Shamatha ground-state as simple or pure being, or as the self.

In a small number of passages Meares indicates that in the Stillness Meditation ground-state the meditator is beyond calm, stillness and/or the sense that the experience is good.\textsuperscript{14} The passage that makes this point most clearly relates to the experience of calm. Meares (1976/1984, p. 36) says: “When being comes we are beyond calm. How could you be calm [i]f you were simply being?”. The passages could be read as indicating that the ground-state is different from other Stillness Meditation goal-states, in that in the ground-state there is no experience of calm, stillness or goodness. However, Meares’ broader comments concerning the ground-state give the impression that, having experienced it, the meditator would still recognize that their mind had been calm and still and regard the experience as positive. Furthermore, McKinnon (2002/2008, p. 45) refers to the ground-state as involving a “calm sense of [being]”. These broader passages raise the possibility that the ground-state in some sense involves calm, stillness and goodness, but in another sense is beyond them. As the discussion in this paragraph illustrates, it is not clear from the Stillness Meditation accounts exactly how the ground-state is beyond these features.

In the Shamatha accounts there is nothing to suggest that the ground-state is somehow beyond calm, stillness or bliss. There is also little in the TM accounts, other than Shear’s minority understanding that the TM goal-state involves no or virtually no content other than being conscious and awake. It seems possible that,

\textsuperscript{14} It is possible that Meares refers to calm, stillness and goodness in this context merely because they are more prominent features of the meditation experience, and that he actually considered that the ground-state is also beyond certain other features discussed above and below.
similar to what Meares describes, there are a series of TM goal-states, and that the
deepest state is somehow beyond content such as calm, stillness and bliss. That
might provide a way to reconcile Shear’s minority understanding with the more
widely held view of the TM experts that those types of content are present in the TM
goal-state. This possibility is, however, not something that is explicitly canvassed in
the TM accounts.

2.15 Group 15 – deep and profound

Wallace describes the Shamatha goal-state as deep, while noting that pristine aware-
ness is understood to be the deepest level of the mind or consciousness (SH 2.14.41,
2.6). Roth, Shear and Travis treat the TM goal-state as the deepest level of con-
sciousness, being or self. Meares (1976/1984, p. 52, 1978/1986, p. 49) describes
even the most basic Stillness Meditation goal-states as deep, in that they involve
almost no everyday content. He and McKinnon present the goal-states as deepening
as the meditator moves towards the ground-state.

The experts in the three practices refer to particular features of the goal-states,
such as stillness, silence or calm, as being deep. At other times they state simply that
the goal-states are deep, which suggests depth with respect to multiple features.

The basic understanding conveyed by the experts in the three practices is that the
meditator experiences the goal-states as profound. Wallace notes that the Shama-
tha goal-state is a “faint facsimile” of enlightenment (pristine awareness) (Wallace,
2011b, p. 121). However, he says that the goal-state is itself “remarkable” (Wallace,
2011b, p. 159) and a “major transformation of consciousness” (Wallace, 1989/2003,
p. 150), and can therefore be very easily mistaken for enlightenment. The TM goal-
state is frequently described as profound, remarkable, or extraordinary. Meares
(1978/1986, p. 26) depicts even the basic Stillness Meditation goal-states as an
“experience of the highest order” that “far transcends the ordinary experience of
life”. Meares and McKinnon also refer to numerous features of the goal-states, such
as the stillness, calm and simplicity, as profound. In TM and Stillness Meditation it
is emphasized that the profundity of the experiences is not due to their being flashy,
or strange and dramatic. The goal-states are instead described as simple and natural,
as discussed above.

Although the basic understanding is that the TM and Stillness Meditation goal-
states are profound, there are some indications that this may not always be the case.
For example, Roth (2018, p. 45) says that “Sometimes the experience in TM is pro-
found; oftentimes it can seem mundane”. Rosenthal (2016/2017, p. 39), as noted
above, describes his and others’ experiences of the TM goal-state/s as “pleasant but
unsensational”. In McKinnon (2011, p. 164) it is noted that, having emerged from
the Stillness Meditation goal-states, some meditators may query whether such a sim-
ple experience can lead to the benefits referred to in that tradition. If meditators were
always experiencing the goal-states as profound, it seems curious that they would
have that query.

One way of understanding the TM and Stillness Meditation descriptions in the
paragraph above is that they refer to shallower goal-states that are not experienced

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as profound. Another possibility is that all of the goal-states are profound, and that, although the non-profound experiences are sometimes presented as goal-states, they are in fact interim-states. It is not clear from the extracted text which of these understandings is correct, or whether they both apply to some degree.

2.16 Group 16 – attention

Wallace indicates that in the Shamatha goal-state attention is on what he variously describes as the emptiness, vacuity, absence of appearances, quiescence, mind, and consciousness. The TM experts state similarly that in the TM goal-state attention is on what they refer to as consciousness or mental silence. It is clear from the Shamatha and TM passages that the experts are using the different terms such as emptiness, consciousness and silence to refer to what is being experienced as a whole. When they say, for example, that attention is on the silence, they mean that attention is on what is being experienced overall, including emptiness, silence, and so on, not that attention is on the silence as a specific facet of the overall experience. For clarity, in the discussions concerning attention in the remainder of this paper, we will refer to what is being experienced overall as the emptiness/silence.

When addressing the Stillness Meditation goal-states within the discussions, we will, for simplicity, deal only with the deeper goal-states, where even very dull perceptions are absent. The Stillness Meditation experts do not expressly state that attention is on the emptiness/silence. However, as in Shamatha and TM, in the Stillness Meditation goal-states the meditator is said to experience the emptiness/silence alone, without everyday content. That implies that the meditator’s attention is on the emptiness/silence, like in Shamatha and TM.

The next point to consider is the nature or quality of the attention on the emptiness/silence in the three practices. In the Shamatha goal-state the meditator is said to have “exceptional” (Wallace, 2006a, p. 159) or “perfect” (Wallace & Hodel, 2008, p. 212) stability and vividness of attention. The exceptional stability is such that attention can remain on the emptiness/silence for four or more hours without the slightest deviation (Wallace, 1989/2003, p. 196, 2011b, p. ix). Another way of describing this stability is by saying that attention is focused on the emptiness/silence “single-pointedly like a laser” (Wallace, 2001/2003, p. 133). Wallace states that traces of everyday content may occasionally arise, but he indicates that this only occurs where the meditator fails to maintain single-pointed attention (Wallace, 2006a, p. 161; Wallace & Hodel, 2008, p. 212). Since he presents single-pointed attention as a key feature of the Shamatha goal-state, in this analysis we will assume that it is maintained. Exceptional vividness means that the emptiness/silence is experienced with perfect clarity or focus, without even the slightest dullness (SH 1.5.4, 1.7.3, 2.14.27; Wallace, 1989/2003, p. 196).

In Shamatha, the meditator cultivates the exceptional stability and vividness methodically over the course of the interim-states. They develop the stability

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15 The term emptiness/silence is necessary because the term goal-state is too broad in this context. It would be incoherent to say that the meditator’s attention is on the goal-state, since attention is part of the goal-state. It is fine to say that the meditator’s attention is on the emptiness/silence.
principally by eliminating excitation, and the vividness by overcoming laxity/dullness. The main way to counteract excitation is to relax, and the main antidote to dullness is to arouse attention. The exceptional stability and vividness of the goal-states can be maintained without effort (Wallace, 2011b) because they have been cultivated methodically.

For a meditator who has reached the TM or Stillness Meditation goal-state/s, a meditation session is said to involve repeatedly moving into and out of that experience. In TM this is referred to as “cycling” in and out (Faber et al., 2017, p. 313; Travis, 2011, p. 229), and in Stillness Meditation it is characterized as an “ebb and flow” (McKinnon, 1983/2016, p. 221; Meares, 1989, p. 17). Within a meditation session, the movement out of the goal-state/s is said to be beyond the meditator’s control, but with continued practice it tends to occur less frequently, meaning that the periods in the goal-state/s lengthen.

Where the TM or Stillness Meditation practitioner is able to stay in the goal-state/s for extended periods, this implies a degree of stability in the experience of the emptiness/silence. However, the fact that experienced meditators will still move out of the goal-state/s multiple times in a session indicates that there is substantially less stability than in Shamatha. Movement out of the goal-state/s occurs where the meditator experiences everyday content. That appears to entail the meditator’s attention moving from the emptiness/silence to that content to some degree.

The lesser stability in TM and Stillness Meditation fits with the understanding that the Shamatha meditator develops single-pointed attention by cultivating it methodically in the interim-states. It is clear from the TM and Stillness Meditation accounts that the cultivation of single-pointed attention is not part of those practices (see Woods et al., 2022a). In Stillness Meditation the meditator makes no effort to focus attention. In TM, the meditator brings attention to the mantra to prompt the mind to move automatically towards the goal-state/s. After that initial prompting, any deliberate focusing of attention is abandoned. The goal-states in the two practices are in places referred to as involving an absence of focus.

The TM and Stillness Meditation experts tend not to use the terms vivid or vividness in describing the goal-states. However, in both practices the goal-states are said to involve clarity, and to be clear or “crystal clear” (Meares, 1983a, p. 118; Pearson, 2013, p. 26). In most places there is ambiguity as to whether the experts use these terms to refer to vividness or to the absence of everyday content. In cases, though, Meares (1983a, p. 118, 1987a, p. 34, 1987/1991, p. 114) juxtaposes the terms with drowsiness, which suggests that, at least in those passages, he is using them to refer to vividness.

The Shamatha meditator eliminates dullness through active, careful, and systematic efforts to arouse attention. The efforts to arouse attention in TM and Stillness Meditation are much more limited. In Stillness Meditation there is no effort to arouse attention, other than by maintaining a degree of discipline in the posture (see Woods et al., 2022a). TM involves a degree of arousal in bringing attention to the

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16 Unless the meditator notices that they have lost awareness of the mantra. In that case they again bring their attention to it, to reinitiate the automatic movement (Woods et al., 2022a).
Evidence synthesis indicates contentless experiences in mantra, but beyond that the emphasis is on abandoning any attempt to focus attention (see above).

These observations give the clear impression that TM and Stillness Meditation do not entirely eliminate dullness, and this leads to the understanding that the Shamatha goal-state involves substantially greater vividness. The vividness in TM and Stillness Meditation may be high according to standards from normal waking life, but the impression is that it is moderate or low in comparison to the perfect vividness in Shamatha.

The final feature of the goal-states for consideration in this section is attentional balance, which is a construct used only in the Shamatha accounts. The Shamatha goal-state is described as involving exceptional attentional balance in that “a high level of attentional arousal is maintained simultaneously with deep calm and relaxation” (Wallace, 2012/2014, p. 166). The TM and Stillness Meditation goal-states are said to involve deep calm and relaxation like in Shamatha, but they appear to involve considerably less attentional arousal. On this basis it seems that the attentional balance in the Shamatha goal-state is different to that in TM and Stillness Meditation.

2.17 Group 17 – description in words is limited

In each of the three practices the experts indicate that words are somehow limited in their ability to describe the goal-states. Pearson (2013, p. 55) puts this particularly strongly, asserting that the TM goal-state/s are “fundamentally ineffable [or] indescribable”, and “[u]tterly beyond words”. McKinnon (2011, p. 85) states that the Stillness Meditation goal-states are “far, far beyond words”, and Meares (1978/1986, p. 145) says that “[w]ords fail”. Wallace (2018, p. 58) expresses this by saying that “words take [the meditator] a step away from the experience”. He says that words are a “conceptual overlay” on the experience (Wallace, 2000, p. 110), not the experience itself. The basic problem in the three practices seems to be that words typically involve or assume logic, concepts, and subject-object duality, but in this context they are called upon to describe the goal-states, which involve an absence of those qualities (e.g., McKinnon, 2011, pp. 85–86; Meares, 1978/1986, p. 20, 1989, p. 113; Wallace, 2000, p. 110).

The limitation does not mean that nothing can be said about the goal-states. Indeed, the experts describe the goal-states in a great deal of detail, as is clear from this Section 2. As such, when the experts say that the experiences are beyond words, what they seem to mean is that some aspect is beyond words, or, equivalently, that the experiences are beyond words to some extent.

In each practice experts indicate that the gap between the words and the goal-states will be greater for someone who has not had the experience. A meditator who has had the experience will be able to draw on it in giving meaning to the words, and that will result in a reduction in the gap. Wallace indicates that for this reason the Shamatha goal-state is not regarded as ineffable, at least not for experienced meditators (Wallace, 2007a, pp. 79, 82, 2011b, p. 179, 2018, p. 57). Experienced meditators can discuss it with one another in terms that to them are clear and intelligible. The TM and Stillness Meditation experts do not make these points with respect to
those practices. It seems hard to imagine, however, that they would argue against the idea that experienced meditators can discuss the goal-states in an intelligible fashion.

2.18 Group 18 – variation within each practice

Wallace generally presents the experience aimed for in Shamatha as a single state, rather than indicating any variation within it. It is the ground-state of consciousness or the mind, and is referred to as unfluctuating. There is, however, one strand of Wallace’s analysis that suggests there could be variation in the experience. Wallace says that, although meditators do not consciously experience any concepts in the goal-state, certain implicit or subliminal conceptualization persists. In one text he notes that differences in meditators’ implicit conceptualization can result in them having “significantly different” experiences of what appears on the surface to be a single state of pure consciousness (Wallace, 2000, p. 118). Although he does not make that statement with respect to the Shamatha goal-state specifically, he gives no reason to think that it would not apply in that context.

Wallace does not provide any further detail about how experiences may vary as the result of differences in implicit conceptualization. He explains that the meditator can reduce or eliminate the implicit conceptualization by way of certain other forms of meditation practice. Presumably a reduction in the implicit conceptualization could lead to a difference in the meditator’s experience, but Wallace does not address this possibility explicitly.

The TM experts often give the impression that the experience aimed for in TM is a single state. Shear does this most explicitly, by arguing in several publications that TM aims for pure consciousness, and that all experiences of pure consciousness are identical. Other experts give the same impression by stating or implying, for example, that TM aims for pure consciousness, that pure consciousness is the simplest and deepest state possible, that it is unfluctuating or non-changing, and that beginners have the same experience as experts.

In other places, however, the TM experts clearly refer to there being variation in the experience. Rosenthal indicates that there can be a high degree of variability, both between meditators and across sessions. He distinguishes between banal experiences of pure consciousness, such as a pleasant peace and stillness, and spectacular experiences, such as “[falling] into a pool of bliss” (Rosenthal, 2016/2017, pp. 33–39). He notes that Roth has commented that (in Rosenthal’s words): “[M]any [TM meditators] rarely have experiences that can be readily identified as clear transcendence” (p. 37). Pearson (2013, p. 175) states that, with practice, experiences of pure consciousness become clearer and deeper. Roth (2018, p. 96) says that his own experiences in TM have “continued to deepen” over his nearly 50 years of practice.

The experience aimed for in Stillness Meditation is generally presented as a range of goal-states. There are similarities in the way the range of goal-states in TM (where acknowledged) and the range in Stillness Meditation are characterized. As Rosenthal does for TM (see above), McKinnon indicates that there is a high level
of variability in the Stillness Meditation goal-states, both between meditators and across sessions. Like the Pearson and Roth descriptions in TM, the Stillness Meditation goal-states are said to deepen as the meditator becomes more experienced.

In both TM and Stillness Meditation it appears that the deepening typically entails one or more of the other features of the goal-states becoming more pronounced. The meditator may report, for example, greater stillness, calm, clarity, simplicity, and/or naturalness. The accounts arguably also imply that certain features may at stages become less pronounced. In particular, if the deepest goal-state is somehow beyond stillness, calm and goodness/bliss, it seems that in some sense those features are less pronounced than in some of the preceding goal-states.

3 Discussion

The findings were based on 135 Shamatha, TM and Stillness Meditation expert texts selected and reviewed using an evidence synthesis process. Through systematic extraction, coding, and analysis of the relevant passages in those texts, 65 experiential qualities were identified as features of the goal-states in one or more of the three practices. The goal-states were found to be the same across the practices with respect to 14 features and different with respect to four. For the remaining 47, it was unclear whether the goal-states are the same or different both across the three practices and any pairing of them.

3.1 There is a broad similarity between the goal-states across the practices

We found that 51 of the 65 features are reported or implied in all three traditions. That indicates a broad similarity between the goal-states across the practices. Of the remaining 14 features, six are reported or implied in only two practices, and eight in only one.\(^{17}\) Thirteen of those 14 features are not addressed in the remaining practice/s.\(^{18}\) It could be that they are present in those practice/s but just not referred to in the expert texts.

The fact that a feature is reported or implied in multiple practices does not mean that it is same (i.e., identical) in those practices. The features that we assessed to be the same in the three practices were as follows: The meditator is conscious (as opposed to not conscious), awake (as opposed to not awake), their attention is on the emptiness/silence (rather than it being on everyday content to any degree), and they only recognize the experience upon emerging from it (as opposed to recognizing it during the experience); they have no thoughts, concepts, perceptions, images, memories, discomfort, feelings of anxiety, or awareness of a meditation object; and there is no deliberate doing or deliberate control.

\(^{17}\) Note that these 14 features are different to the 14 referred to in the paragraph above.

\(^{18}\) The 14th feature is very dull sense or body perceptions. It is reported for the shallower goal-states in Stillness Meditation. It is effectively ruled out in Shamatha and TM, since in those practices all goal-states (not just the deeper ones) are reported to involve a complete absence of perceptions.
3.2 There are differences between the goal-states across the practices

The main difference between the goal-states across the practices identified from the expert texts is that the Shamatha goal-state involves greater attentional stability and vividness (Section 2.16). In the Shamatha goal-state those qualities are reported to be “exceptional” or “perfect”. Attention is so stable that it can remain on the emptiness/silence for four or more hours without the slightest deviation. In TM and Stillness Meditation, the meditator is said to move into and out of the goal-states repeatedly during a meditation session. That indicates a lower degree of attentional stability.

The Shamatha goal-state is said to be so vivid that there is not even the slightest dullness. Dullness is eliminated in the interim-states, principally by arousing attention. The expert texts indicate that efforts to arouse attention in TM and Stillness Meditation are much more limited, and therefore give the clear impression that those practices do not entirely eliminate dullness. Some TM and Stillness Meditation goal-states may involve a high degree of vividness, but it appears that high degree is still lower than in Shamatha.

Another difference that we identified concerns what is described in the Shamatha texts as attentional balance (Section 2.16). The Shamatha goal-state is said to involve exceptional attentional balance in that there is a high degree of attentional arousal together with deep calm and relaxation. That balance is treated as essential for achieving the exceptional stability and vividness (see also Woods et al., 2022a). The TM and Stillness Meditation goal-states appear to involve a different attentional balance. The expert texts indicate that there is deep calm and relaxation, but less attentional arousal.

The final difference that we identified is that some Stillness Meditation goal-states involve very dull perceptions, whereas all Shamatha and TM goal-states involve none (Section 2.2). This difference arises simply because Stillness Meditation defines what is being aimed for (i.e., the goal-states) slightly more broadly than Shamatha and TM. In all three practices, perceptions fade gradually as the meditator moves towards the goal-state/s. Shamatha and TM present what is being aimed for as the complete absence of perceptions. In Stillness Meditation it is the complete absence of perceptions, or perceptions that are only very dull. The shallower Stillness Meditation goal-states involve very dull perceptions, but the deeper goal-states involve none. The shallower goal-states therefore differ to the goal-states in Shamatha and TM.

As noted above, we found that for 47 features it is unclear whether the goal-states are the same or different across the practices. For example, it was not possible for us to determine whether the exact nature and level/degree of features such as wakefulness, stillness, calm, bliss/joy, and freedom is the same in each tradition. It could be that there are differences across the practices in addition to the four that we could identify.
3.3 There is variation in the goal-states within each practice

We found that there is variation in the goal-states within each practice (Section 2.18). The Shamatha and TM experts often give the impression that within their respective practices there is a single goal-state, but in other places they report or imply that there can be variation in the experience between meditators and over time. The Stillness Meditation experts more consistently report such variation. In TM and Stillness Meditation clear examples of the variation are provided, whereas in Shamatha they are not.

The expert texts may specify a particular feature of the goal-state/s, but that does not necessarily mean that it is a feature of every goal-state in the practice. For example, each practice reports or implies that the goal-state, or the deepest goal-state, is a ground-state of consciousness or the mind, and we identified multiple features relating to the ground-states. Some TM and Stillness Meditation passages indicate that there can be goal-states that are not ground-states and that therefore do not have the ground-state features. Meditators might report, for example, having experienced a pleasant silence or stillness without thoughts, perceptions, or mental images, but not go so far as to say that it was a ground-state, consciousness itself, and the essential nature of their mind or being.

In each of the three practices, certain features are presented as being central or defining aspects of the goal-states. Examples are that the meditator is conscious and awake, there are no thoughts or mental images, there are no or virtually no perceptions, and there is subject-object nonduality, stillness and silence. Other features such as strength and contentment are described much less frequently.

Even for features that appear quite central, there can be disagreement between the experts in a practice. For example, most TM experts consider that the TM goal-state/s involve bliss and no perceptions or images. However, Shear argues in places that bliss is not part of the goal-state/s (Section 2.6), and Rosenthal indicates that there may be vivid perceptions of the surrounding environment, and inner experiences of colours and lights (Section 2.2).

3.4 Contentless experiences can involve considerable variation

In the academic literature, goal-states like those in Shamatha, TM and Stillness Meditation have been classically described as contentless experiences (Forman, 1990b, 1998; Shear, 2006d; Stace, 1960/1961). The differences in the goal-states across and within the practices identified in this paper indicate that, if the goal-states are to be described as contentless experiences, contentless experiences are not all identical and in fact can involve considerable variation. This conclusion has important implications for consciousness, neuroscientific, and clinical research, and for basic understandings of the meditation practices.
In consciousness research it has been frequently claimed that all contentless experiences are identical (Almond, 1982; Bernhardt, 1990; Bucknell, 1989a, b; Forman, 1990a; Shear, 1990b). If the goal-states are considered contentless experiences, our conclusion above challenges this understanding. Metzinger (2020a, p. 38) has observed that descriptions of contentless experience have “common phenomenological denominators”, but do not express “one single, unequivocal form of phenomenal character”. Our systematic analysis of the expert texts provides empirical support for this understanding.

The conclusion that there is variation in contentless experiences should be taken into account in brain imaging studies. If imaging data relating to contentless experiences is being compared across individuals (engaged in different practices or the same practice), differences in those experiences need to be considered. Future research may require more nuanced self-reporting of contentless experiences in order to map specific types of contentless experience to the associated neural processes.

The conclusion also raises the question of whether there might be different clinical outcomes from different types of contentless experience – for example, experiences with single-pointed attention (Shamatha) and those without it (TM and Stillness Meditation). The differences in experience are also a further consideration that clinicians should take into account when recommending practices for clinical purposes.

Recognizing the variation in contentless experience helps to understand the meditation practices at a basic level. For instance, our analysis of the expert texts suggests it is much quicker and easier to access the goal-states in TM and Stillness Meditation than the goal-state in Shamatha (Woods et al., 2022a). If the goal-states in the three practices are identical, the difference in speed and ease could be taken to indicate that Shamatha is much less efficient in achieving that state. We found that the goal-states are different. Our findings do not support the understanding that Shamatha is less efficient, because we found that the Shamatha goal-state involves greater stability and vividness, and that it is possible that it is also deeper, more complete, more advanced, etc. with respect to numerous other dimensions – for example, stillness, calm, effortlessness, wholeness, and freedom.

Future research could test the descriptions of contentless experience in the expert texts using participant-based methods such as microphenomenology (see, e.g., Petitmengin et al., 2019; Przyrembel & Singer, 2018). It could also investigate the techniques and mechanisms that lead to the experience, and which aspects are responsible for differences in the experience across the practices.

Another important project would be to systematically examine similarities and differences between the goal-states that we have explored and those in other practices.

19 Specifically, Metzinger says that paradigmatic descriptions of pure consciousness experiences have strong common phenomenological denominators. He makes clear that pure consciousness experiences might also be described as contentless.

20 The “other dimensions” referred to here are those for which our finding was “Unclear”, as opposed to “Same” or “Different”. It is also possible that the TM and Stillness Meditation goal-states are deeper, more complete, etc. with respect to these dimensions.
Evidence synthesis indicates contentless experiences in…

practices. For example, a common tendency in academic research has been to treat as equivalent, or focus only on similarities between, the TM goal-state and enlightenment state/s in Buddhist practices, referred to as pristine awareness, nondual awareness, or *buddha nature* (e.g., Berman & Stevens, 2015; Metzinger, 2018a; Nash & Newberg, 2013; Reddy & Roy, 2019). Other work has suggested there may be substantial differences (Austin, 2006; Josipovic & Miskovic, 2020; Studstill, 2005). Comparison between the states using a form of evidence synthesis similar to the one that we have developed would provide a much better understanding of which features are shared and which are not.

The three practices that we have focused on are said to have different origins, purposes, techniques, and interim-states, and to differ in terms of the speed and ease with which they access the goal-states. While this means that they are well suited to the objectives of the present study, we wish to emphasize that there are many other approaches that it would also be valuable to examine. Other practices with contentless goal-states include the *jhana* practices referred to in Section 3.8 below (e.g., Brahm, 2006/2014; Gunaratana, 2009; Lati Rinbochay & Denma Lochö Rinbochay, 1983/1997) and Tibetan Buddhist Dzogchen and Mahamudra practices that aim for a contentless form of nondual awareness (Josipovic, 2019; Josipovic & Miskovic, 2020). Our hope is that researchers will extend on our work by conducting evidence syntheses with respect to a whole range of other practices. We have made our full method and tables of expert material publicly available (Woods et al., 2020) so that other researchers can adapt them for their own purposes.

3.5 Some contentless experiences are not truly contentless

The classical understanding in the academic literature has been that contentless experiences lack all content, or at least all content other than being conscious and wakeful (Forman, 1990b, 1999; Shear, 1990b; Stace, 1960/1961). In response to this classical view, other scholars have argued that experiences said to be contentless may in fact involve subtle and abstract forms of content (e.g., Barbiero, 1993; Gennaro, 2008; Katz, 1985; Kwan, 2009; Metzinger, 2020a; Shear, 1998/1999, 2002, 2007; Sullivan, 1995; Wainright, 1981). In general these accounts provide little detail as to the specific forms of content that may be present, and do not compare the presence of such content across a range of practices said to access contentless experience.21

Our analysis adds to these accounts by identifying in a comprehensive and systematic manner the types of content experts indicate are present in the Shamatha, TM and Stillness Meditation goal-states. We have found that many forms of content are reported/implied as present in all three practices. These include wakefulness, emptiness, stillness, silence, simplicity, naturalness, calm, relaxation, rest, bliss/joy, knowledge/knowing, freedom, wholeness, security, unity, depth, and profundity. In TM and Stillness Meditation there is some evidence that the deepest goal-states may be in some sense beyond certain of these qualities (Sections 1.2 and 2.14), but that

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21 Metzinger (2020a) is a notable exception in that he discusses the content in some depth.
evidence is quite limited and it is not clear how it fits with the many other passages indicating presence of that content.

The key implication of these findings is that, if contentless experiences are taken to include goal-states like those in Shamatha, TM and Stillness Meditation, some contentless experiences are not truly contentless. The contentless experiences in those practices are contentless in the limited sense that they lack well recognized forms of content such as thoughts, perceptions, and mental images. However, the preponderance of evidence indicates they are not contentless in the more complete sense of lacking all forms of content, or all forms of content other than being conscious and wakeful. The findings indicate that in many and perhaps most cases where meditation states are described as contentless in the academic and traditional literatures, those states are not truly contentless. It will be interesting for future studies to determine whether there are experiences in other practices that are contentless in a more complete sense than those examined here.

3.6 Whether the goal-states qualify as pure consciousness is an open question

In the classical academic literature, goal-states like those in Shamatha, TM and Stillness Meditation have been treated as pure consciousness, on the basis that all content is absent and what is left is consciousness alone (e.g., Forman, 1990b; Shear, 1990b). We found, to the contrary, that numerous forms of content are present, indicating that the goal-states cannot be regarded as pure consciousness in the sense of an experience that is strictly devoid of any form of content. Our findings suggest a different notion of pure consciousness, in which various forms of content are present, but are experienced as inherent to consciousness itself. We find evidence of this form of pure consciousness in the ground-states in each of the practices. The TM ground-state/s are referred to as pure consciousness, the TM and Shamatha ground-state/s are described as consciousness or awareness itself, and in all three practices it is reported or implied that the ground-states are extremely simple and natural, and the essential nature of the mind or being (Section 2.14). Forms of content that are present such as stillness, calm, and naturalness, are depicted as aspects of this essential nature, consciousness itself, or pure consciousness, that are discovered as the practices progress.

In the Dzogchen tradition of Tibetan Buddhism, the Shamatha goal-state is regarded as the “relative” ground-state of consciousness or the mind, and nondual (or pristine) awareness is considered the “absolute” ground-state (Section 2.14; Wallace, 2006a). Alan Wallace and Zoran Josipovic have each drawn on Dzogchen and other sources to argue that nondual awareness is “true” or “genuine” pure consciousness, and imply that goal-states like those in Shamatha, TM and Stillness Meditation are not (Josipovic & Miskovic, 2020; Wallace, 2000, pp. 118–119).23

22 Consistent with this, it has been noted that pure consciousness may lack “obvious”, “usual”, “gross”, “ordinary”, or “typical” content (Gennaro, 2008, p. 12; Harris, 2018, 1:23:19; Millière et al., 2018, p. 15; Strawson, 2015, p. 19; see also Studstill, 2005, p. 22).

23 Josipovic uses the term consciousness as such, but we will refer to pure consciousness for consistency.
The basis for this understanding is not that there is less content in nondual awareness. As with the goal-states, various forms of content are presented as inherent in nondual awareness, including stillness, bliss, luminosity, unity, freedom, and love/compassion (Josipovic, 2016, 2019, 2021; Wallace, 2006a, 2009/2014, 2012/2014; Wallace & Hodel, 2008). The basis for the claim made by Wallace and Josipovic is the understanding that in goal-states like those in Shamatha, TM and Stillness Meditation there is implicit/unconscious conceptual structuring or representations that is reduced or absent in nondual awareness (Josipovic, 2019, 2021; Josipovic & Miskovic, 2020; Wallace, 2000, pp. 118–119; Section 2.18). Josipovic says that the defining property of nondual awareness is “non-representational reflexivity” (Josipovic, 2021, p. 8): “[Awareness] becomes aware that it is aware directly and not via conceptualizations about itself” (Josipovic, 2021, p. 8).

It remains an open question whether goal-states like those in Shamatha, TM and Stillness Meditation should be treated as pure consciousness. Wallace and Josipovic suggest that this label should be reserved for nondual awareness, but much scientific and philosophical work is required to test the understandings on which that view is based. An excellent example of the necessary foundational work is Evan Thompson’s recent analysis of conceptuality, which draws on various schools of Buddhist philosophy, and scientific studies on sensory discrimination, pain, and other subjects (Thompson, 2021).

Alan Wallace’s concern is that if nondual awareness and goal-states like those in Shamatha, TM and Stillness Meditation are all designated with the single label pure consciousness, this risks overlooking “subtle gradations of conscious experiences” (Wallace, 2000, p. 118). A major contribution of the present work is highlighting such gradations, both across and within meditation practices.

3.7 Meditators report ego dissolution and discovery of the true or deepest self

In cognitive science and philosophy, ego is commonly treated as equivalent to sense of self (Millière, 2017; Millière et al., 2018). Millière et al. (2018) note that a person’s ordinary sense of self has multiple dimensions or components (see also Millière, 2020; Millière & Metzinger, 2020). Loss of ego involves reduction in sense of self on one or more of the dimensions. It can therefore take different forms, depending on the dimensions for which the reduction occurs and the degree of reduction on each. A distinction can be drawn between partially selfless and totally selfless experiences (Millière, 2020). The latter are defined as lacking all forms of self-related content.

Millière et al. (2018) identify as important dimensions of self, the self-experience derived from self-related thoughts and beliefs, autobiographical memories, body awareness, and spatial location. The last of these is referred to as spatial self-location. It is the experience of self as “distinct from and located at a precise point

Josipovic (2021) distinguishes between implicit, transitional, and explicit nondual awareness. In this paper the term nondual awareness, and equivalent terms such as pristine awareness, are used to refer to the explicit form, where awareness is said to have truly woken up to itself or self-recognized.
within the world” (Windt, 2015, p. 16). Loss of spatial self-location is understood to correspond to the loss of self/world boundaries (Millière et al., 2018; Windt, 2015).

The Shamatha, TM and Stillness Meditation experts indicate that there is a dissolution of ego in the goal-states (Section 2.10). We have captured this principally via the overarching feature “Loss of ego”, but several of the other features that we have identified indicate loss of specific dimensions of ego/self. The features no thoughts, no concepts, no memories, no sense or body perceptions, and loss of self/world boundaries imply loss of the four dimensions of self identified by Millière et al. (2018). Loss of self/world boundaries is explicitly reported in TM and Stillness Meditation, and the other features are reported/implied in all three practices.

Our analysis also indicates the loss of other kinds of self-experience, most notably the sense of self as subject experiencing various objects (subject-object duality) and the sense of self that derives from the exercise of control. Loss of these forms of self-experience is reported/implied in each practice, but it is unclear whether what is being described is identical.

While the expert texts indicate that sense of self is extinguished on many dimensions, there is evidence that the TM and Stillness Meditation ground-states may not be totally selfless. In those practices, meditators sometimes report that in the ground-state they experience their true or deepest self (Section 2.14; cf. Josipovic, 2019; Josipovic & Miskovic, 2020; Metzinger, 2020b, 1:06:18). In all three practices the ground-state is said to be the essential nature of the mind or being, but the expert texts do not address whether Shamatha meditators may also describe that as their true or deepest self.

3.8 The findings suggest that TM is not jhana practice

Among meditation experts who have practised TM, differing views have been put forward as to whether TM is a jhana practice. Jhana practices are concentrative techniques in which meditators aim to reach and advance through the meditative absorptions (Austin, 2006; Vago & Zeidan, 2016). The absorptions include the final state aimed for in Shamatha, and a series of eight further states (Sanskrit: dhyana; Pali: jhana) that are progressively deeper and more refined (SH 2.2; Braun, 2015; Wallace, 2006a). In this context, the state aimed for in Shamatha is often referred to as access concentration, and is said to lie on the threshold of the deeper – or full – absorptions (Goleman, 1988; Wallace, 2012/2014). The absorptions involve single-pointed or extremely focused attention (Austin, 2006; Brahman, 2006/2014).

Goleman (1988, p. 67) has argued that TM is a “mainstream” jhana practice. He indicates that the TM goal-state is access concentration or one of the deeper absorptions, and both he and Forman (1999) consider that TM achieves single-pointed attention. Rosenthal (2016/2017), in contrast, reports absorption expert Leigh Brasington’s view that the TM goal-state does not align with any of the jhanas (see also Austin, 2006).

Our finding is that, based on the expert descriptions in the extraction tables, the TM goal-state does not involve single-pointed or extremely focused attention (Section 2.16; 25 In some sources only the first four of the eight further states are referred to as “jhanas”. For example, Brahman (2006/2014) usually describes the second four as “immaterial attainments”.

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see also Woods et al., 2022a). The TM meditator’s attention appears to move from the emptiness/silence to everyday content multiple times during a meditation session. Our finding therefore supports the view that TM is not a jhana practice.

3.9 The finding “Unclear” reflects a strength of our approach

As mentioned, for 47 features our assessment was that it is unclear whether the goal-states are identical or different across the practices. The finding “Unclear”, and the detail that emerges concerning the ambiguity, reflect a strength of our approach. This can be illustrated using the ground-state features. The detailed, structured approach used in this paper allows us to see that there are multiple features relating to the ground-states, and that it is unclear whether they are the same or different across the practices. It also provides rich detail concerning the nature of each feature and the reasons for the ambiguity. This leads to new research questions. For example, do the ground-state/s represent all of the goal-states in a particular practice, or just a subset of them? Does the relevant tradition consider that deeper ground-states can be attained in other practices? Is the ground-state in a practice merely the deepest state possible for each individual person, meaning that the ground-state/s can vary across meditators? Does the meditator always have the same experience of the ground-state, or can there be variation across time?

3.10 Limitations

This paper has used a scientific framework – evidence synthesis – to understand how the Shamatha, TM and Stillness Meditation goal-states are described in the three traditions. Limitations of evidence synthesis in this context have been discussed at some length in Woods et al. (2020). A key limitation is that the experts have outstanding qualifications in terms of their traditional knowledge, but that is not the same as having the skills in science or phenomenology that may be necessary to provide or obtain reliable reports of experience. For example, experts in phenomenology and first-person methods have techniques to focus the person providing the report on a specific experience at a particular point in time, as it is understood that this improves reliability (Hurlburt & Schwitzgebel, 2007; Lumma & Weger, 2021; Overgaard et al., 2008). Some of the descriptions in the expert texts relate to a specific experience while others are more generalized.

As a separate point, we do not claim that the set of goal-state features identified in this paper is definitive, but rather that it can be clearly justified. We acknowledge that there may be alternative feature-sets that are also reasonable. Other researchers might choose to split certain features into narrower types, or they might combine features on the basis of overlaps. We would expect them to identify the same broad similarities and/or differences in a comparison across the practices, but their final set of features (which those similarities and/or differences map on to) might be different.

A further possible criticism of this paper is that the first author (TW), who has practised Stillness Meditation for over 20 years, has greater familiarity with that
practice than with Shamatha or TM. While this differing familiarity could have influenced the analysis, we consider that any such impact would be minimal. The analysis was based on the extraction tables, not TW’s personal experience with the practices. Those tables and the method for the evidence synthesis have each been made available (see Woods et al., 2020 and Online Resource 2) to provide full transparency. Samples of TW’s decision-making were independently assessed by the third author (OC). Neither OC nor JW have any personal history with the three practices.

3.11 Conclusion

The detailed and systematic approach taken in this paper has demonstrated the multidimensional nature of contentless experience in Shamatha, TM and Stillness Meditation. Based on the expert texts, we have determined that there are broad similarities between the experiences across the traditions, but that there are also differences both across and within the practices. Another key finding is that, while various forms of content are said to be absent in the experiences, numerous other forms are referred to as being present.

The findings indicate that meditation experiences described as contentless in the academic literature can in fact involve considerable variation, and that often these experiences are not truly contentless. This challenges classical understandings in academic research that in contentless experiences all content is absent, and that the experiences are therefore an identical state of pure consciousness or consciousness itself. Our assessment is that it remains an open question whether the experiences aimed for in the practices should be classed as pure consciousness. The findings and analysis have important implications for neuroscientific and clinical research, and lay the groundwork for further explorations of contentless experience and pure consciousness using diverse methodologies.

Supplementary Information The online version contains supplementary material available at https://doi.org/10.1007/s11097-022-09811-z.

Authors’ contributions Toby Woods wrote the first draft of the manuscript. All authors contributed to the conception and design of the project, and to manuscript revision.

Funding Open Access funding enabled and organized by CAUL and its Member Institutions. Toby Woods was supported by an Australian Government Research Training Program scholarship, Jennifer Windt by an Australian Research Council Discovery Early Career Researcher Award (DE170101254) and a National Health and Medical Research Council Ideas Grant (APP2002454), and Olivia Carter by an Australian Research Council Future Fellowship (FT140100807).

Data availability The dataset for this paper comprises three tables containing material extracted from expert texts on meditation, as referred to in Section 1.1. Those tables are available in Woods et al. (2020).

Declarations

Conflicts of interest The authors have no conflicts of interest to declare.
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