Living life well: the role of mindfulness and compassion

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Abstract

In this chapter I consider some of the experiences, attitudes and behaviours associated with the perception that life is going well, and how we can optimise this perception for both individuals and communities. I use the framework of positive mental health or flourishing to characterise individual life going well, and highlight the self-regulatory processes that are associated with positive mental health. The concept of shared humanity is employed to underpin the processes associated with life going well in organisations and communities. I propose that two mental practices are foundational to life going well – these are mindfulness and compassion. Mindfulness trains the skills of awareness, attention and self-regulation, while compassion trains the skills of empathy and kindness, and motivation to help. I review evidence from behavioural science and neuroscience that demonstrates the individual and interpersonal benefits of these practices. Although community-level evidence is limited at present, I discuss the potential for these practices to produce wider societal benefits.

Introduction

Most of us lead extraordinarily busy lives. We immerse ourselves in our work or studies, in family and social activities, we go to the gym or engage in other forms of physical activity, we may participate in community events or volunteer our time for good causes. It is common to feel we are hurtling through our lives as we strive relentlessly towards our goals, driven by expectations and social pressures. We are spurred on by our 24/7 culture and the ubiquity of mobile technology, including the social media with its addictive quality (Amichai-Hamburger, this volume; Dunn & Dwyer, this volume). It has been said that we have become human doings not human beings. The question we need to ask is whether our obsession with doing, striving, and constant busyness, is conducive to living well.
The rising rates of stress and distress, and of mental health problems such as anxiety, depression, self-harm, and substance misuse suggest that for a large part of the population, life is not going well (see also Crano & Donaldson, this volume). Alarming high prevalence of these disorders is occurring at an increasingly young age presumably reflecting the increasing academic and social pressures experienced by young people, along with their high expectations of success, appearance, and material goods (Zisook et al., 2007). Fifty per cent of young adults with psychiatric disorders already have clinically significant psychopathology by 15 years, 75% by aged 24 (Kessler et al., 2005). These problems, while manifesting in individual children or adults, have serious repercussions on those around them. Through emotional contagion, our negative affect can spread to family members, friends, workmates or fellow commuters. High levels of stress or distress make us turn inwards, focusing on ourselves and reducing our ability to care about others. They are also associated with poor physical health and burnout, whose prevalence appears to be increasing among teachers and health care workers, as well as other high-stress occupational groups such as lawyers, social workers, and police officers (Finney et al., 2013; Khamisa, Peltzer & Oldenburg, 2013; Khan, Yusoff & Khan, 2014).

So what can we do to bring more balance and tranquillity into our lives? The simple answer is to slow down, reflect, take stock, and make more conscious choices. This view is congruent with ideas passed down from the ancient Greek philosophers, to whom we frequently turn for an authoritative account of the good life. Socrates is reported by Plato to have believed that to “know thyself” is the beginning of all wisdom, and to have said “the unexamined life is not worth living” (Plato, Apology 38a). A few decades later, Aristotle said “contemplation is … the highest form of activity” (Aristotle, Ethics, 10.7). For these Greek philosophers, the good life was not about individual pleasure and the fulfilment of desires, but about using our uniquely human capacity for rationality to make conscious ethical choices which would benefit the whole community (see also Fiedler & Arslan, this volume).

Centuries earlier, Buddhist philosophy had not only identified awareness and contemplation as necessary for living well, but also developed techniques of mental training to support these processes. One of the attractions of Buddhism for many people today is its empirical approach to the good life. In place of dogma, Buddhism invites people to explore for themselves what makes them feel good and act wisely. While a number of Buddhist scholars and teachers have introduced these ideas into the West, Jon Kabat-Zinn is often credited with the widespread adoption of mindfulness as a secular program of mental training. Kabat-Zinn, a biomedical scientist from the University of Massachusetts Medical Center, founded the Mindfulness-Based Stress Reduction Clinic in 1979. The resulting 8 week program, known as Mindfulness-Based Stress Reduction (MBSR) was initially developed for the alleviation of pain and other medical conditions, but over the decades, is being used increasingly to enhance the quality of people’s lives in general population settings. The success of the MBSR program, and the closely related Mindfulness-
Based Cognitive Therapy (MBCT) program, may be attributable in part to the well-designed curriculum and associated manuals, which have facilitated program fidelity across mindfulness teachers, along with an emphasis from their inception on the importance of scientific research to establish evidence of their benefits. While clinical applications of mindfulness training continue to be prominent (e.g. the NHS National Institute for Health and Clinical Excellence recommends mindfulness training for the treatment of depression), non-clinical applications include its widespread use in education, organisations, sport, and relationship building.

**What is mindfulness and how does it promote living well?**

Mindfulness is a way of paying attention to our ongoing experience as it unfolds in the moment. We become aware of bodily sensations, of thoughts and emotions in our mind, and of the people, objects and events in our immediate environment. Being mindful is the antithesis of the state in which most people find themselves – immersed in their memories, thoughts, or plans, swept away by their emotions, barely noticing what is going on around them or inside them, and functioning on automatic pilot. In this state, we tend to react in habitual or impulsive ways rather than pausing and reflecting on the best way to respond. As a result, we may say and do things we later regret, that we would have done differently if we had stepped back and observed our experience rather than being embroiled in the drama of our lives.

Being mindful is a capability, and as with any capability there are wide individual differences in dispositional mindfulness. It has been shown that a high level of dispositional mindfulness is associated with greater well-being (e.g. Brown & Ryan, 2003). However, mindfulness can be learned and strengthened. Mindfulness training usually takes the form of longer or shorter periods of meditation, where participants are invited to adopt a comfortable and upright posture, and focus on one type of experience, such as bodily sensations or the flow of the breath. They are invited to observe their experiences with interest and curiosity, noticing large sensations as well as smaller, more subtle ones, and noticing how the sensations are constantly changing. While trying to focus, they inevitably notice that their mind has wandered, and are encouraged to notice where it has wandered to, gently bringing their attention back to whatever they were focusing on. The repeated practice of focusing, becoming distracted, noticing the distraction, and returning to their focus is the most basic form of attention training. Mindfulness training may also encompass focusing attention on experiences such as sounds, thoughts, or movement, and in each case, the practice is to really notice the quality and changing nature of whatever one is experiencing, and to keep returning to it despite repeated distraction. An important part of the training is to treat all experiences with equal interest and curiosity, neither clinging to pleasant experiences nor pushing away unpleasant ones (Sahdra, Ciarrochi & Parker, 2016).

Learning to intentionally control attention can also have more indirect long-term effects, such as an increase in the sense of agency and self-efficacy in relation to unpleasant thoughts and emotions (Allen et al., 2009). These more persisting effects can lead to long-term reductions in suffering.
From the earliest sessions of mindfulness training a number of important processes are already being developed: awareness, attentional control and self-regulation. The most fundamental of these is awareness – bodily awareness and self-awareness. This involves a perceptual shift, the ability to stand back from our experience, and this shift promotes emotion regulation and helps us to differentiate between our thoughts and reality (Shonin et al. 2015). Attention training is another fundamental process intrinsic to mindfulness. The attentional processes of focussing, maintaining, and shifting attention can also be viewed as examples of self-regulation training.

Embedding the basic skills of noticing whatever we are experiencing, focussing on these experiences whenever we choose to, and regulating our attention, is likely to make us more successful in carrying out the tasks of our daily lives. For example it has been suggested that situational awareness can increase our ability to understand the physical and social environment, which is likely to lead to better relationships, decision-making and job performance (Shonin & Van Gordon 2016). Awareness of our feelings is an important step towards emotion regulation and resulting resilience and mental health outcomes, while awareness of our thoughts is an important step towards clarifying our motivations and values (Nila et al. 2016; Shonin & Van Gordon 2016). Support for this is provided in a series of experiments by Papiès et al. (2015) who found that following mindful attention training, participants became more conscious of their motivations, and subsequently altered their preferences and made heather choices. It has further been proposed that mindfulness training can ultimately lead to a deepened capacity for meaning-making and greater engagement in life (Garland et al., 2015).

**The what and how of mindfulness**

The above description focuses on what we do when practising mindfulness. This practice leads to the development or strengthening of a number of basic cognitive, metacognitive and affective skills. These are:

- Awareness of ongoing experience
- Attention to the experience we choose to focus on
- Perceptual shift - ‘stepping back’ from our experience
- Non-reactivity to our experiences (‘responding rather than reacting’)
- Emotion regulation – managing strong emotions through the application of the above skills.

But just as important as what we do, is how we do it. We enact these skills not in a cold, harsh, disinterested manner, but with friendly curiosity and openness, accepting whatever we are experiencing in the moment, without judging it. As we will see later when we discuss the research evidence, it is in large part the curious, kind and gentle manner in which we observe and relate to our experience that leads to the mental health and well-being benefits of mindfulness training. Avoiding, suppressing, or denying difficult or painful experiences is a common symptom in mental health problems. With mindfulness training, we learn to be as curious about our unpleasant or painful emotions and experiences as about our positive ones, and
the kindly attitude we take towards all experiences helps us to work with them rather than push them away (see also Forgas, this volume, on accepting negative emotions). Germer has a sequence of stages in managing difficult emotions: turning towards, noticing, allowing, tolerating, and finally befriending (Germer, 2009).

**What is the relationship between mindfulness and meditation?**

As indicated above, the mental training we call mindfulness involves periods of regular, formal practice, known as meditation. These practices are akin to the regular periods of practice required when training the body. MBSR or MBCT courses typically recommend 20 to 45 minutes of daily formal practice, but as little as 10 minutes a day has been shown to provide benefits (Creswell, 2017; Mrazek et al., 2013; Reitz & Chaskalson, 2016). There are also very short, “on the go” practices that can be used any time and anywhere, such as the “three minute breathing space”. This is a useful calming, grounding practice, and it can be used before, during or after any challenging situation, or simply as a way of savouring our experience or moving consciously from one task to another e.g. from commuting to work, or from work to family. Throughout the day, there are also unlimited opportunities for informal mindfulness practice. We can brush our teeth mindfully, walk mindfully from the parking lot to the office, or mindfully observe the voices and body language of our colleagues in a meeting. In short, we can be mindful without meditating, although the formal and regular practice of meditation is important for achieving mental training.

It is also possible to meditate without being mindful. In contrast to mindfulness meditation which brings awareness to the full range of our experiences and mental contents, some meditation practices try to block out mental activity (e.g. concentrated focus on a candle flame), while others try to empty the mind. So it is possible to be mindful without meditating, and to meditate without being mindful.

**Is mindfulness incompatible with imagination and future orientation?**

On the surface it may appear that imagination, which involves mentally departing from the present stimulus environment, is incompatible with mindfulness, which involves attending to present moment experience. Yet a deeper understanding of these two concepts makes it clear that they are not mutually exclusive and can work in harmony. The concern seems to be that if we are focusing on experiences in the present moment, we miss out on the important functions served by certain forms of mind wandering, as well as the uniquely human ability to envisage and plan for possible futures. The idea that some forms of mind wandering are beneficial is captured by the term “positive constructive daydreaming”, which promotes creativity and allows us to plan for and rehearse possible future scenarios (McMillan et al., 2013).

An important distinction is that between stimulus-dependant experience and self-generated thought. In contrast to what some have assumed, mindfulness is not restricted to mental events triggered by momentary experiences, but can also encompass the present experience of various temporal orientations such as past
memories and future projections. Remembering, imagining, and future planning can only be done in the present moment. Being mindful of such stimulus-independent thoughts or experiences is a choice we can make (e.g. MacLeod, 2017).

It is helpful to make a distinction between the mind unintentionally drifting off when we are trying to focus on something else (which in excess has been linked to negative affect and lower psychological well-being; Mrazek et al., 2012; Stawarczyk et al., 2012), versus choosing to follow a train of thought. Perhaps the misunderstanding about the relationship between mindfulness and the temporal orientation of thoughts has come about through the emphasis on the formal practice that takes place in the early stages of mindfulness training. There is an obvious need to practice grounding our attention and coming back to the breath or bodily sensations (or to some other anchor) in order to learn the attentional skills needed for awareness to emerge. During this early stage of practice, novices are advised to just treat thoughts as thoughts and let them dissipate. As mindfulness practice develops, additional skills are introduced including open monitoring and reflective thinking. In an investigation comparing the effects of two different styles of attentional monitoring on creative thinking, it was found that in contrast to focused attention, open monitoring induces a control state that promotes divergent thinking, a style of thinking that allows many different ideas to be generated (Colzato, Szapora & Hommel, 2012). In relation to reflective thinking, there are times when focused attention may be the preferred process and other times where open monitoring, with its wide and spacious focus may be more helpful. The overall effect of this is to liberate us from habitual or automatic ways of thinking and responding, leaving us free to see more clearly the thoughts that are occurring and then to choose how best to respond to them.

**Evidence for the well-being benefits of mindfulness**

Research and application of mindfulness training have grown exponentially over the past decade. Mindfulness programs have become particularly widespread in clinical settings for both physical and mental health problems, in schools for teachers and students, and in business organisations where the focus is often on mindful leadership. For instance, Google has been offering a mindfulness course, “Search Inside Yourself”, since 2007, believing that it will enhance personal wellbeing, effectiveness and leadership capacity through better judgment and emotional balance, increased emotional and cognitive resilience and renewed vision to achieve goals and improving creativity and productivity (Tan, 2012). Other applications include its use in sport to enhance performance of both individuals and teams, in relationship building (e.g. couples counselling, mindful parenting), as well as its adoption in high stress environments such as prisons or the military. Indeed, as with many new ideas, mindfulness has become something of a fad, and many people are jumping on the bandwagon as mindfulness teachers, who may be ill-equipped to teach it, lacking adequate training or their own personal practice of mindfulness. Being a good mindfulness trainer is not simply about imparting skills and information but also requires a deep understanding of how mental processes are experienced. Without having this deep understanding and a personal practice, it would be difficult or impossible to impart to others an authentic understanding of the principles and
practice of present moment awareness (see Crane et al., 2012). Mindfulness is probably at or near the peak of inflated expectations in the ‘hype cycle’, and as always happens, is beginning to come under attack from detractors, who point out that it may not be beneficial for everyone. The key to the sustainability of mindfulness training is the conduct of high-quality research, together with quality control guidelines or accreditation for mindfulness teachers.

The quality of the research has been improving steadily over recent years, with an increasing number of studies using randomised controlled trial (RCT) methodology, often with an active control group. The vast majority of research has been undertaken either in a clinical or an educational context (e.g. Baer, 2015; Weare, 2016), and there is a real need for more research on other applications of mindfulness training, particularly in businesses where this training has become so widely adopted. A recent review of research which focused only on high quality studies, mainly methodologically rigorous RCTs, has provided some very encouraging results across a variety of outcome measures, including clinical outcomes, cognitive and affective processes, and interpersonal relationships (Creswell, 2017). Key findings can be summarised as follows.

There are clear and large benefits for patients with mental health problems, specifically depression, anxiety, and substance abuse. For example, a recent review finds that following MBCT, patients with a history of recurrent depression were 31% less likely to have a relapse over a 60 week period compared to usual treatment, and 21% less likely compared to an active treatment group (anti-depressant medication or psycho-education; Kuyken et al., 2016). An additional benefit of mindfulness training over anti-depressant medication is that unlike medication, which can only facilitate changes in neural firing but not alter the structure of neural pathways, mindfulness training can create or strengthen neural pathways that are conducive to healthy behaviour, (Rossouw, 2013). Mindfulness training also produces large benefits in relation to physical health problems, including chronic pain and high stress, significantly reducing both the subjective experience of pain and stress, and the physiological responses associated with them (Chiesa & Serretti, 2011; Zeidan et al., 2012).

Mindfulness training has also been shown to increase many of the specific cognitive and affective processes which are the focus of the training, and hypothesised mechanisms through which it exerts its effects. For example, there are improvements on behavioural measures of sustained attention and working memory (Hölzel et al., 2011b; Mrazek et al. 2013), although the evidence does not at present support improvements in other aspects of attention such as set-shifting (Jensen et al., 2012). There is evidence for improved problem-solving following MT (e.g. Ostafin & Kassman, 2012). Numerous studies have shown increases in positive affect and emotion regulation following MT (e.g. Jain et al., 2007; Lindsay & Creswell 2015).
Although MT focuses primarily on within-person processes, there is evidence of benefit across a range of interpersonal processes. For example, following participation in a mindfulness training program both members of a couple showed significant improvement on survey and daily diary measures of levels of relationship satisfaction, autonomy, relatedness, closeness, and acceptance of one another (Carson et al., 2004). Other studies have shown that MT increased the ability to see things from another person’s perspective (Karremans et al., 2016), and the likelihood of undertaking pro-social actions such as giving up a seat in a waiting room to a person on crutches (e.g. Lim et al., 2015).

Less encouraging findings have been reported by Goyal et al. (2014), whose systematic review and meta-analysis was restricted to 47 studies which had an active control group. Although moderate benefits of mindfulness training were found for a range of clinical outcomes (depression, anxiety, and pain), there was no significant effect in relation to positive well-being outcomes. However, of the 8 studies which examined positive well-being outcomes, the majority were conducted on small clinical samples, including patients with cancer, organ transplants, depression, and anxiety. Only three studies used non-clinical samples; two showed a significant difference between the mindfulness group and the active control group (Moritz et al., 2006; Delgado et al., 2010), while only one failed to show a difference (Barret et al., 2012). Further work is needed to establish the reliability of this finding in general population samples, as opposed to clinical samples.

In the Goyal study there was a wide variety of active control conditions, including CBT, anti-depressant medication, psycho-education, exercise, and various relaxation programs. Overall, mindfulness produced clinical outcomes that were either greater than or equivalent to the effects of these active control conditions. However, in the case of complex interventions such as mindfulness training, great care needs to be taken in selecting active control conditions, since some of the mechanisms through which mindfulness has its effects may be incorporated, inadvertently or otherwise, in the active control condition. A case in point is the work of MacCoon et al. (2012; 2014) who have taken care to design the Health Enhancement Program (HEP), which is structurally very similar to a standard MBSR. Components of HEP include physical activity, music therapy, and nutrition education, but a detailed reading of the program reveals that mindfulness practice is introduced in the music therapy component (mindfulness of sounds), thereby overlapping with a key process in MBSR training (MacCoon et al., 2011).

Neuroscience also supports the conclusion that mindfulness training does indeed have its desired effects. In studies of functional neuroimaging, participants experience short mindfulness-induction procedures (e.g. focusing on the breath) while undergoing magnetic resonance imaging. High levels of activation are seen in specific brain regions and networks which have previously been shown to be involved in the processes of attention control, emotion regulation, and self-awareness (Tang et al., 2015), processes which are hypothesised to change
following mindfulness practice. Research has also been undertaken on how long it takes for structural changes in relevant brain regions to be observed. The surprising finding is that by the end of a standard 8-week MBSR course, there are significant increases in the density of grey matter (i.e. strengthened neuronal pathways) in virtually all of the expected regions, including networks associated with cognitive processes (attention, learning, memory), emotion regulation, self-awareness, interoception (bodily awareness), and compassion (Hölzel et al., 2011a).

Overall, the behavioural and neuroscience evidence converges to support the idea that dispositional mindfulness and mindfulness training enhance well-being through the promotion of skills and processes that enable us to live well. These include the basic skills of awareness, attention and self-regulation which help us both to savour positive experiences and tolerate unpleasant experiences. It has been suggested that there are “downstream effects of mindfulness on other regulatory processes integral to successful adaptation and flourishing in the world”, including meaning making and engagement with life (Garland et al., 2015, p. 385; see also Baumeister, this volume) which are often regarded as integral to living well. Interpersonal relationships, including perspective taking and compassion are also enhanced through mindfulness practice, thereby contributing to the well-being of the wider community.

What is compassion and how does it promote living well?

As we have seen, mindfulness alone has been found to produce many well-being benefits, but according to ancient Buddhist teaching, true well-being requires both mindfulness and compassion, and these have been the concerns of many wisdom traditions. The role of compassion is beautifully captured in the quote: “If you want others to be happy, practice compassion. If you want to be happy, practice compassion” (Dalai Lama, 2010).

Modern science supports the view that humans are fundamentally social, and the quality of our relationships has a profound effect on our well-being and the well-being of those around us (see also Simpson et al., and Gable, this volume), with empathy and compassion playing an important role. For example, neuroimaging research has shown that the emotional pain that results from being ostracised produces activation in the same brain regions as physical pain (Eisenberger & Lieberman, 2004). There is also recent evidence that ostracising others causes emotional pain for the ostraciser as well as the ostracised (Legate, DeHaan, Weinstein & Ryan, 2013; Legate, DeHaan, & Ryan, 2015), and it has been suggested that a possible mechanism of this effect is the empathetic understanding that their act inflicts pain on others and damages relationships (Chen et al., 2014). Feelings of warmth and concern for others produce activation in the reward centres of the brain, as well as regions associated with affiliation and positive affect (Singer & Klimecki, 2014). We later show increased activation in these regions following compassion-training.

Self-compassion
Compassion encompasses not only caring attitudes and behaviours towards others, but also a caring and kindly attitude towards ourselves. Many of us take a very harsh, self-critical attitude towards ourselves when we suffer, fail or feel inadequate. Self-compassion is the ability to treat yourself in the same kind and caring way you would treat a dear friend who is suffering, along with the recognition that suffering and personal inadequacy is part of the shared human experience (Neff, 2003). The most widely used self-compassion program, Mindful Self-Compassion (MSC), recognises that mindfulness is crucial to the ability to give oneself compassion. It is based on the 8-week structure of the standard MBSR program and includes both formal (sitting meditation) and informal (during daily life) self-compassion practices. According to the authors, “the program makes it clear how judging oneself when things go wrong tends to exacerbate emotional pain, while self-compassion helps to alleviate that pain” (Neff & Germer, 2013, p. 31).

**Compassion towards others**

Compassion towards others is characterised by feelings of warmth and concern for the other, as well as a strong motivation to help. This contrasts with empathy, which is *sharing* the feelings of another. Empathic responses can be seen in very young children and appear to be hard-wired, having probably evolved to enable us to understand what is going on in someone else’s mind (e.g. de Waal, 2010). Empathy may be a prerequisite for compassion, but sharing someone’s pain can be distressing, so if a person stays in empathy this can lead to withdrawal, avoidance and burnout (Singer & Klimecki, 2014). Further, there is evidence that there are entirely different patterns of brain activation following empathy training compared to compassion training (Singer & Klimecki, 2014).

The most widely used program to enhance compassion towards others is probably loving kindness meditation (LKM), which derives from an ancient Buddhist practice that involves good will or well-wishing (Salzburg, 2011). The LKM training usually begins with wishing oneself well, then extending the practice to a loved one, to a neutral person, and finally to someone with whom one has a difficult relationship. Many people find the practice very challenging, and experience a sense of failure (Galante et al., 2014), possibly because they are unable to *feel* loving towards all these people. However, although unconditional love might be seen as the long term goal of this meditation practice, teachers often find it helpful to emphasise that loving kindness is an intention of well-wishing rather than a feeling of love.

It is interesting to consider how this view compares with Greek philosophy. In the following quote Aristotle differentiates between goodwill on the one hand, and friendship and love/affection on the other:

“Goodwill appears to be an element of friendly feeling, but it is not the same thing as friendship; for it can be felt towards strangers, and it can be unknown to its object, whereas friendship cannot … Neither is goodwill the same as affection. For it has no intensity, nor does it include desire, but these things are necessarily involved in affection” (Aristotle, *Nicomachean Ethics*, 9.5).
Evidence for the well-being benefits of compassion

Practicing self-compassion is integral to mindfulness training, and this is evident in the kindly, gentle attitude taken towards difficult experiences. Research demonstrates that an increase in self-compassion is the principal mediator of the effect of mindfulness training on relapse prevention in depressed patients (Kuyken et al., 2010). Self-compassion also produces benefits on positive well-being. A study examining mindfulness training in a non-clinical adolescent sample showed that change in self-compassion was found to be a stronger predictor of well-being outcomes than change in mindfulness (Galla, 2016). The conclusion of a recent systematic review and meta-analysis that self-compassion training produced significant increases in optimism, self-efficacy, life satisfaction, and happiness (Zessin et al., 2015). There is also evidence that short self-compassion exercises can produce beneficial effects on well-being. For example, a lab-based self-compassion induction increased motivation to change behaviour for the better (Breines & Chen, 2012), and a one week self-compassion program increased happiness for up to six months compared to an active control group (Shapira & Mongrain, 2010).

Turning to compassion towards others, there is evidence that compassionate feelings and helping behaviour increase well-being. In a randomised controlled trial conducted with employees in an information technology company, Fredrickson and colleagues (2008) found that training in loving kindness meditation produced increases in positive emotions and life satisfaction, as well as purpose in life, social support, and decreased symptoms of depression and physical illness (see also Fredrickson, this volume). A systematic review of the effects of compassion meditations found significant improvements across five psychological outcomes: positive and negative affect, psychological distress, positive thinking, interpersonal relations, and a performance measure of empathic accuracy (Shonin et al., 2015). In addition, compassion meditations have been shown to increase pro-social behaviour (Jazaieri et al., 2013; Leiberg et al., 2011), and pro-social behaviour is known to improve interpersonal and social well-being. There is also evidence for a direct benefit of pro-social behaviour on the helper (Weinstein & Ryan, 2010). In other words, doing good makes us feel good.

Compassion interventions are being embraced in the contexts of education and business organisations. In schools, this may be in part a response to ineffective anti-bullying programs, which have tended to focus on the reduction of harm, rather than taking a more positive approach and promoting kindness. The new programs usually combine mindfulness and compassion. A 12-week randomised controlled trial of a Kindness Curriculum on a small sample of pre-school children found significant benefits on pro-social behaviour and relationships, as well as on cognitive flexibility and delayed gratification, a self-regulation capability (Flook et al., 2015). Among primary school students, a randomised trial of the Call to Care program showed significant decreases in symptoms of stress and anxiety, along with large reductions in prejudice and stereotyping, and an increased willingness to help the ‘out-group’ (Berger & Tarrach, 2017; Berger et al., 2017). Similar effects in both adults and children have been reported in an earlier generation of studies, which used the term
‘empathy training’ (e.g. Stephan & Finlay, 1999), although the earlier studies did not differentiate between empathy and compassion.

The interpersonal process of compassion has recently received substantial attention from organisational researchers and practitioners (Dutton et al., 2014). The research at present appears to be limited to anecdotal reports, or qualitative surveys of pre-existing institutional approaches towards handling employee suffering. To date, there are no published reports of the organisational benefits of compassion training offered to employees. A study by Fredrickson et al. (2008) did offer loving kindness meditation to employees in an IT organisation, but the study outcomes were focused on individual benefits rather than organisational benefits. A recently published volume, “Awakening Compassion at Work: The Quiet Power that Elevates People and Organizations” (Worline & Dutton, 2017) makes a compelling case for why compassion training should be encouraged in the organisational context, and the authors highlight the need for high-quality research in this field.

**Conclusion: the inter-connectedness of mindfulness, compassion and living well**

Mindfulness and compassion should be viewed as complementary practices. As we have seen, self-compassion is an integral part of mindfulness training, and now an increasing number of mindfulness programs are incorporating explicit training in compassion towards others. This combined approach acknowledges that well-being arises in part from the relationship we have with our ongoing experience, and in part from the way we respond to, and act towards others. One hypothesis is that compassion meditation interventions affect outcomes primarily via positive affect mechanisms, whereas mindfulness interventions affect outcomes primarily through metacognitive awareness and decentring mechanisms (Feldman et al., 2010; Creswell 2017).

In this chapter, I have briefly explored two ancient well-being practices, mindfulness and compassion. I have shown that the skills people learn are so fundamental, and their impacts on daily life so wide-ranging, that these practices could be regarded as foundational for living life well. After all, what could be more foundational mental skills than awareness, attention, and self-regulation? And what could be more foundational to relationships than empathy and acting with kindness?

Mindfulness and compassion science are relatively new endeavours, and there is much further work to be done at all levels of potential impact – individual, interpersonal, organisational and societal. Funding for larger, long-term studies should be regarded as a priority, to establish the most effective training methods and the breadth and sustainability of their effects. Nevertheless, the existing evidence of foundational benefits from mindfulness and compassion training suggests that if we genuinely desire to improve individual well-being and reduce social ills such as hatred, intolerance, violence, and greed, we would do well to consider embracing and extending these programs, while maintaining the quality and integrity of the training.
This paper has emphasised the contribution of psychological processes to how well our lives are going, but of course, external circumstances also play a role. None has received more attention than economic factors, and innumerable national and international studies have shown that measures of wealth, such as income and income inequality, are related to measures of well-being and life satisfaction (Huppert, 2014; Oishi & Kesebir, 2013). It is worth asking what economic policy would look like if it prioritised well-being. Singer (2015) has recently set out a vision of what life could be like if we had a caring economy, based on the principles of mindfulness and compassion. There is a real chance that the widespread adoption of the foundational skills described in this paper could support this vision, increasing the numbers of happy, fulfilled, socially responsible individuals, and thriving, productive, inclusive organisations and communities.
References


Berger, R., & Tarrach, R. 2017 (under review). *Enhancing resiliency, well being and pro-social behavior among Israeli elementary school children by using a mindfulness and compassion-based program: Call to Care – Israel.*


Dunn and Dwyer (this volume)


