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Mindfulness Practices in Education: Montessori's Approach

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Abstract Mindfulness training has had salutary effects with adult populations and it is seen as a potentially helpful to children's development. How to implement mindfulness practices with young children is not yet clear; some meditation practices, like sitting still for long periods with internally-self-regulated focused attention, seem developmentally inappropriate. Montessori schooling is a 100-year-old system that naturally incorporates practices that align with mindfulness and are suited to very young children. Here I describe how several aspects of Montessori education, including privileging concentrated attention, attending to sensory experience, and engaging in practical work, parallel mindfulness practices. These aspects might be responsible for some of the socio-emotional and executive function benefits that have been associated with Montessori education, and they could be adapted to conventional classroom methods.

Keywords Education · Mindfulness practices · Montessori · Attention · Concentration

Introduction

Recent years have seen an increase in research incorporating mindfulness practices in education with the aim of improving children's well-being. Mindfulness is a quality of focused attention on the present moment accompanied by a non-judgmental stance; its "systematic cultivation [...] has been called the heart of Buddhist meditation" (Kabat-Zinn

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1990, p. 12), although it need not be accompanied by subscription to Buddhism or any other belief system. Mindfulness interventions with adults are clearly related to well-being (Brown et al. 2007); by contrast, lack of attention on the present, or mind-wandering, is associated with less happiness (Killingsworth and Gilbert 2010). While bringing standard yoga and meditation practices to high schools and even middle schools appears to have positive outcomes for students (Britton et al. 2010; Broderick et al. 2010; Mendelson et al. 2010) research with very young children is in the early stages and is challenged by the issue of age-appropriate practices (Burke 2010; Thompson and Gauntlett-Gilbert 2008). For example, one successful pilot clinical intervention with anxious 7- to 8-year-old children found that 3–5 min of sitting focusing on the breath was age-appropriate (Semple et al. 2005); how long might be appropriate for preschoolers? Interestingly, in Tibetan monasteries in the north of India, formal meditation training does not begin until ages 17 or 18 (Tsoknyi and Zajonc 2010).

One place to look for approaches to helping even younger children to be mindful is Montessori education. Montessori education includes many practices and values whose goals and structures are consistent with mindfulness (Hanh 1999; Kabat-Zinn 1990). Montessori education was initiated over 100 years ago by Maria Montessori, one of the first women physicians in Italy (Povell 2009). Dr. Montessori used materials stressing sensory discrimination to improve the cognitive achievements of children with mental retardation, which led to development of a full activity-based educational program for children from birth through age 12; development of the adolescent program was ongoing when she died in 1952. Although Montessori education has very positive impacts on school achievement (Dohrmann et al. 2007; Lillard and Else-Quest 2006), it is fundamentally aimed at the development of the whole

person (Montessori 1932/1992). Its emphasis on deep concentration, integration of mind with body, practical work, and specific exercises like "The Silence" and "Walking on the Line" all echo mindfulness practices. These as well as other points of similarity in mindfulness and Montessori practices and values are discussed below, followed by a discussion of parallel outcomes.

Deep Concentration

In both Montessori education and mindfulness practice, concentrated attention is central (Hanh 1999; Lillard 2005). In Buddhist practice, meditation is a means to mindfulness. One meditates by focusing one's thoughts on a single idea or experience like the breath, and this builds the capacity for focused attention (Jha et al. 2007). Although trained by meditation, concentrated attention is not confined to meditation but is to be applied throughout life, to listening and to eating, to every act and movement. Hanh (2001/2009) recommends that, "When you eat an orange, [you] try to practice concentration" (p. 79) because "Joy and happiness are born of concentration" (p. 770).

Concentration is also highly valued in the Montessori classroom. Dr. Montessori believed concentration led to a psychologically healthy state she called "normalization"—a term she borrowed from Anthropology that essentially meant "being a contributing member of society" (Shaefer Zener 2006), but which also meant that children were constructive and kind in their behavior. Further, she believed that this state is the most important outcome of focused work (Montessori 1967). Dr. Montessori described the event that brought her to this realization: a child was so deeply engrossed in her work (placing ten graduated cylinders in their correct holes) that her chair was lifted up in the air, and the other children (at Dr. Montessori's direction, as an experiment) danced and sang around her without breaking her concentration (Montessori 1912/1965). Once children have begun to concentrate on work, according to Dr. Montessori, they become "completely transformed ... calmer, more intelligent, and more expansive," bringing out "extraordinary spiritual qualities" (Montessori 1917/ 1965, p. 68). "After this phenomenon of concentration the children are really 'new' children. It is as though a connection has been made with an inner power...and this brings about the construction of the personality" (Montessori 1989a, p. 21). Children who have come to concentrate are said to behave better, no longer "prey to all their little naughtinesses" (Montessori 1989a, p. 16).

To support the development of deep and sustained concentration, Montessori education has 3-h work periods during which a child can pursue a single line of self-focused work. The goal is full absorption. In contrast, conventional

schooling is typically organized around shorter periods of work focusing on the external stimulus of the teacher (NICHD NECCR 2002). For example, in elementary school, there might be a 40-min math lesson when the teacher stands at the board, first going over the previous night's homework then instructing children in a new math procedure (Greenwood et al. 1989; Hiebert and Wearne 1993; Stigler et al. 2000). In kindergarten classrooms, activities might change every 10-15 min (e.g., http://users. stargate.net/~cokids/Classroom Schedules.html). Attention spans and the ability to control one's attention increase with age (Posner and Rothbart 2007) as the prefrontal cortex develops (Diamond and Amso 2008). Attention is trainable in children (Rueda et al. 2005), and certain school experiences might serve to provide such training (Diamond et al. 2007). Having longer work periods focused on interesting, absorbing work is consistent with the mindfulness practice of training the attention, and observation of good Montessori classrooms suggests that when the work is absorbing, challenging, and self-directed, young children do engage in deep and sustained concentration for long periods (Montessori 1917/1965).

Grounding the Mind in Sensorimotor Experience

Mindfulness training involves particular attention to sensory experience. One mindfulness exercise, for example, is to fully experience eating a raisin or some other food, considering its texture and shape and color, how it feels in the mouth, how it tastes on different receptors on various parts of the tongue, and so on (Kabat-Zinn 1990). Attention to all sensory experiences—the sounds of birds, the feeling of one's chair, the color of a flower—is emphasized. Attention to motor movement, from focusing on how one walks in walking meditation to body flexibility in voga to one's movements in activities of daily life, is also prominent (Kabat-Zinn 1990). The sensory and motor systems connect the mind and the body, taking sensory information in from the environment and executing motor acts that change one's position in the environment and the environment itself. Thus when one attends closely to sensory and motor experiences, one integrates body and mind. Hanh (2001/2009) writes, "Our motto is: Body and mind together" (p. 43). Psychology is also increasingly acknowledging that bodily experiences influence cognition and vice versa (Glenberg 1999; Niedenthal et al. 2005).

Montessori education begins with grounding in sensory experience via motor movement. Three-year-old children learn to make fine distinctions between different smells, sounds, tastes, colors, textures, and so on, manually pairing those whose sensory qualities match. For example, primary (3- to 6-year-old children) classrooms contain sets of musical bells, eventually used to make music, but



initially used to train the ear to distinguish sounds. The teacher will even set the various bells around the room, and the child needs to pair up the ones that match by moving around the classroom, playing each one, carefully attending to its sound and holding that sound in mind while moving to a different bell to play its sound. In addition to establishing sensorial focus, this exercises working memory (attention capacity). Montessori also has tasting and smelling exercises, where a child pairs objects that taste or smell the same, often while the child is blindfolded. Another Montessori activity that involves attention to sensory and motor experience is "The Silence Game". The teacher chimes a bell and the entire class falls silent and listens, with the aim of becoming fully aware of their surroundings. When the silence is broken, children can discuss what they experienced, in particular, what they heard. Dr. Montessori (1989a) noted that young children "love silence to an extraordinary degree" (Montessori 1989a, p. 53; italics in original). "All those who are on a higher spiritual plane [...] have felt a need for silence" (p. 57). In addition, Dr. Montessori noted that once Silence lessons were instituted in classrooms, children became more careful in all their actions, and even "became more kind" (Montessori 1989b, p. 81).

The attention to sensorimotor experience in Montessori education extends to the care Montessori children are asked to take in how they move in and interact with the environment. The Montessori curriculum includes "Lessons of Grace and Courtesy," in which one attends to one's behaviors and their effects on others. Children are given lessons in how to walk carefully around the room, not stepping on others' workspace, and how to carefully push in a chair so it is straight and even and not in others' way. "Every exercise involving movement where mistakes can be corrected ... is of great assistance to a child... Our children become agile and alert by learning how to walk around various objects without bumping into them" (Montessori 1966, p. 124-125). In a good Montessori classroom, children are asked to be mindful of their every action and how it might affect others. "Walking on the line" is a specific Montessori game that resembles walking meditation: the child carefully places on foot in front of the other, exactly on a circular line. Children attend to the feeling of placing the foot and moving their weight from one leg to the other, learning to walk mindfully and in balance. "The attention of the child is centered, concentrated, upon this line... This exercise also shapes the personality" (Montessori 1989b, p. 65).

Children in Montessori classrooms often get their work on trays that must be carried carefully and parallel to the floor or the contents will slip. This requires attention to how the tray looks and feels in one's hands. Once they arrive at their work place, children need to carefully set up their materials as the teacher has shown them to do. Each object has a place and method of use, such as the objects in a Japanese tea ceremony. In addition, children often do their work on rugs, which are kept rolled up in a container in the classroom. When a child wants to work on a rug, he or she takes one out, finds an appropriate place on the floor for it where there is room, and outside of pedestrian channels—and unrolls it. Then the child walks—not skips or runs, which can disrupt others—and gets the work. The child returns to the rug and sets down the materials, then carefully sets them up and carries out the work. When finished, the child carefully replaces the objects in their correct positions on the tray and returns the tray to the shelf, lining its edge up with the edge of the shelf, and then goes back to roll up the rug. Rugs are to be rolled tightly, with attention to evenness—just as one might carefully roll up the voga mat. All a child's actions in a Montessori classroom are thus to be carried out with attention to the body and the objects in the environment.

Mindfulness practice incorporates this same level of care regarding movement. For example, Hanh (2001/2009) describes an incident from his days as a novice monk, when his teacher asked him to do something and in his excitement he went out the door mindlessly. The teacher called him back, and he knew it was so he could close the door "with 100% of my being... Since that day, I have known how to close the door behind me" (p. 79). Kabat-Zinn (1994) discusses using care in going up the stairs, with full awareness of the body's experience in the moment (pp. 201–202).

In conventional schools, in contrast, activities highlighting attention to sensory experiences and movements are not typically part of the curriculum, except in "specials" like art, music, and physical education or sports. By first grade, most of the child's school day is spent sitting in chairs listening to the teacher's words (Hamre and Pianta 2007). Even if children are in activity-based classrooms, specific attention to how one moves and what one senses, as goals in and of themselves, is not a key part of the typical early school curriculum, which focuses on literacy, math, science, social science, and art (Chien et al. 2010; NICHD ECCRN 2002). Montessori education includes all these areas, but incorporates movement throughout and gives equal prominence to sensorial education and "Exercises of Practical Life" (Montessori 1989b).

The Practical Work of Life

Closely linked to grounding in sensorimotor experience is attention to the functional activities needed to sustain everyday life. A Zen proverb states that one should chop wood and carry water, before and after enlightenment, and Kabat-Zinn (1990) suggests that one "attempt to bring moment-to-moment attention to the tasks, experiences, and



encounters of ordinary living such as setting the table, eating, washing the dishes, doing the laundry" (p. 134), and so on.

An emphasis on finding meaning in everyday activities that sustain life is seen in Montessori education as well, where children from a very young age engage in the "Exercises of Practical Life" (Montessori 1989b). A budding toddler can carry his or her food to the table and clean the table after clearing dishes. In the primary classroom, young children become absorbed in scrubbing furniture, polishing shoes and brass, and arranging flowers. Specific organized steps are followed in carrying out each of these activities. The Montessori adolescent programs often include hard work on farms and nature preserves, as part of community service work. Dr. Montessori observed that, "There is a strict relationship between manual labor and deep concentration of the spirit" (Montessori 1956, p. 71). Practical activities are fundamental in Montessori education, and children can engage in them and see their meaning from a very young age. The child needs "activity concentrated on some task that requires movement of the hands guided by the intellect" (Montessori 1966, p. 138). Learning to polish a shoe, for example, a child carries out a careful sequence of steps, knowing the goal—the shinier shoe that he or she will really wear—and seeing how each step serves this eventual goal. When society is agriculture-based, probably many more of children's daily activities have this clear connection between an action and a practical, cognized goal to which young children can relate, connecting body and mind. It is much more difficult for a young child watching an adult typing at a computer to grasp the practical end: the abstractions underlying journal publications, grant submissions, financial spreadsheets, or stock purchases are beyond their intellectual capacities. The activities of practical life in Montessori education are thought especially important, because they provide a functional ("important to my life today") goal to which a child can relate and a series of bodily movements—guided by the mind and attentively engaged with—that the child can use to get there.

Conventional schooling has little of this. Instead, children are steeped in abstract mental pursuits or what is provided as relief from them, a recess (Pellegrini and Smith 1993), with little attention to how body and mind can work together to pursue practical aims. In most American schools, children do not engage in activities to sustain daily functioning—working in the cafeteria to prepare food or do dishes, sweeping the hall, and so on, although in Asia, such practices are common (Lewis 1995; Stevenson et al. 1990). Instead, conventionally schooled children are told it is important to listen so they can do well on a test so that they eventually can get a degree that might help them get a job to support themselves—distant goals that lack tangible meaning even for adolescents (Allen and Allen 2009).

Other Points of Similarity

Three other points of similarity across Montessori education and mindfulness practices are an emphasis on simplicity, an avoidance of judgment, and grounding in stories. An additional interesting intersection lies in the training of Montessori teachers.

Simplicity

In mindfulness practices and Montessori education alike, there is a value on simplicity (Kabat-Zinn 1994). Mindfulness practice is fundamentally simple: focus on the breath. Pay attention. Be aware. A meditation retreat is an exercise in simplicity: do yoga, sit, eat, walk, sit, do yoga, sit, eat, sit, and so on. Buddhist texts repeat the same material again and again. Through repetition of simple yet profound exercises, one is expected to reach higher levels of engagement and understanding. Montessori also uses repetition within simple frameworks to bring about higher levels of understanding. The Montessori classroom is uncluttered and pristine, with only as much material as the children need to further their development. "Overabundance debilitates and retards progress" (Montessori 1917/1965, p. 79). Unused materials are removed or rotated out until there is a need for them. For the most part, there is only one set of material for each type of work (Montessori 1989a)—one pink tower composed of ten cubes, one set of 12 metal insets, one binomial cube, one set of material for flower arranging, and so on.

Non-Judgment

To be mindful is to be non-judgmental: one is to notice, but not make good—bad judgments. "Mindfulness is cultivated by assuring the stance of an impartial witness to your own experience. To do this requires that you become aware of the constant stream of judging...and learn to step back from it" (Kabat-Zinn 1990, p. 33). Meanwhile, one needs to learn to "trust in your intuition and your own authority" (p. 36). Yet, in conventional schooling, we train children that teachers are the judges and will reinforce their judgments with grades, gold stars, and demerits. A child's own sense of authority is rarely paramount in this setting; rather, they are subjected again and again to adult judgment.

Montessori education avoids extrinsic authority judgments in many ways. First, it uses self-correcting materials. A child who needs to match 20 sensory objects into ten pairs, for example, will typically notice if he or she made an error because she will reach the last two and discover they do not match. When the errors are not noticed, the assumption is that through repetition, children will come to recognize many of their mistakes and self-correct. When



that's not the case, the teacher will re-present a material—not by telling a child he or she is wrong, but rather by simply gently re-presenting how to use the material. In these ways, a Montessori child can avoid feeling judged by adults. Learning takes place within the individual through concentrated interaction with interesting materials; the child becomes his or her own authority. Children do continually make judgments as part of the work—which piece of sandpaper is more rough or smooth, for example—but they are not repeatedly subjected to a teacher assigning grades.

Learning from Stories

Another point of similarity between Montessori education and mindfulness is the use of stories. Buddhism is based in tales monks tend to educate with parables, tales of what happened to the Buddha or in their own lives that can instruct us. Stories are a powerful way for humans to learn, as we tend to represent experiences as narratives (Bruner 1990). Montessori education, particularly at the elementary level, also bases learning in stories. The underlying structure of the elementary curriculum is actually five great stories: the birth of the universe, the beginning of life on earth, the beginning of humankind, and the invention of symbols and math. At five points in the first few weeks of each school year, the teacher seats all the class in a circle for these stories, and tells one of these stories in dramatic style, replete with props (for example, there is often an explosion in conjunction with the Big Bang in the first story). These core stories are followed by several other narratives associated with five core areas of the curriculum (although the interconnection among the different areas is a key component of Montessori education). Montessori's elementary curriculum is called "cosmic education" and its main underlying point is that everything is interconnected. "To teach details is to bring confusion; to establish the relationship between things is to bring knowledge" (Montessori 1948/1976, p. 94). For example, the invention of the Pythagorean theorem might be detailed in a story about Pythagoras on vacation going down the Nile, watching the rope stretchers redraw property lines after a flood. This connects math, history, geography, and language. In Buddhism as well, stories are repeatedly used to help the students understand, and there is also an emphasis on the interconnectedness of all things—the interconnection of life and death, our own interconnections with all people and things (Sogyal 1992).

Dr. Montessori might have been directly influenced by Eastern philosophical traditions when creating the elementary curriculum, since she designed much of the elementary curriculum during her years in India, where she was establishing a training course when WWII broke out. Because she was unable to return to Europe during the war, she had an extended and productive 7-year-stay in India.



As a final point, in Montessori, education teachers are asked to examine their inner selves, reminiscent of mindfulness training. They are to become aware of their own psychological "issues," so they can keep them aside and focus on the child's needs, without allowing their own unsatisfied desires to interfere. "A teacher must prepare himself interiorly by systematically studying himself... A good teacher does not have to be entirely free from faults and weaknesses [but should know what they are]" (Montessori 1966, p. 149). The attitude Montessori counseled teachers to have toward the children bespeaks "loving-kindness"—a basic precept of mindfulness (Salzberg 2004). "A teacher ... [must be] ready to be there whenever she is called in order to attest to her love and confidence. To be always there—that is the point" (Montessori 1956, p. 76). In addition to being always there and always loving, Montessori teachers are asked to be very careful observers of children, tuned in and aware of when a given child would be ready for the next lesson. This Dr. Montessori believed was the most fundamental quality of a good teacher (Montessori 1917/1965, p. 130).

In order to help Montessori teachers reach a point in their own development when they can serve children in these ways, their training involves an intensive full academic year with a deeply experienced teacher-trainer (at least as implemented by the Association Montessori Internationale which Dr. Montessori founded to carry on her work). These teacher-trainers have spent at least 4 years as apprentice trainers, after at least 5 years as Montessori teachers and at least one in their own training, thus they are themselves very deeply grounded in Montessori education. In my own Montessori teacher training, every morning for 30 min, we lay on the floor in a darkened room and listened to Pachelbel's Canon, while the trainer guided us through a relaxation. In all training courses, the trainer also observes emerging teachers working with children and discusses their interactions. Thus Montessori teachers are expected to be transformed, as people in their training to become teachers, in ways that are akin to the changes brought on by engaging in mindfulness practices (Brown et al. 2007).

Do these elements of Montessori schooling translate into outcomes similar to those seen in Mindfulness research? The next section explores some parallels.

Outcomes Research

The research on outcomes of mindfulness practices in adults is burgeoning, and there is a growing literature on the outcomes in children and adolescents. Research on the outcomes of children in Montessori programs is much more limited. Here, I note parallels in the outcomes in two areas (attention and



social behavior/knowledge) where they exist, but with an important caveat: noting parallels across the program outcomes does not mean that the outcomes necessarily stem from the same source. Although Montessori education includes practices that bear similarity to mindfulness ones, Montessori education also includes practices that bear no similarity, for example, 3-year age groupings, and allowing children free choice in their activities. These features of the program might be important sources of outcomes. Because Montessori is a whole system, one cannot remove aspects to test the impact of parts. Thus these points of similarity in outcomes are offered speculatively: in mindfulness interventions using randomly assigned groups, we can be fairly sure that it was the mindfulness intervention that caused the change, but with Montessori education outcomes, other aspects of the program could be necessary to the found outcomes.

First I will describe the methods used in the four highquality studies of Montessori outcomes with which I am familiar. I consider these high quality because (1) they used randomly assigned samples or attempted to match samples, and (2) they used high-quality Montessori programs ("Montessori" is not a trademarked term, and there are many schools that use the label, but do not follow the practices described in her books very closely).

There are four quality Montessori studies whose outcomes parallel those in mindfulness intervention research. Two used an experience sampling method with middle school students who were matched with middle school students from conventional schools. One paper focused on the level of engaged interest (Rathunde and Csikszentmihalyi 2005a), and the other on social relationships and time use in school (Rathunde and Csikszentmihalyi 2005b). A third study compared children at ages 5 and 12, whose parents had entered them in a random lottery to go to a public city Montessori school, when they were 2-3 years of age (Lillard and Else-Quest 2006). Half of the children had been admitted to the Montessori, and the other half was enrolled at other mostly public schools in the district. Children were tested on a variety of social and cognitive outcomes. A fourth study compared 2- to 6-year-old children in classic Montessori classrooms (those following Dr. Montessori's program very strictly) with children in supplemented Montessori and conventional classrooms (Lillard 2011). Income, ethnicity, and parent education were the same across classrooms, and the conventional schools were ones that Montessori parents most often said they would send their children to in areas where Montessori is not available. A range of social and cognitive outcomes was tested.

Attention

Children randomly assigned to Montessori primary classrooms in which they have 3-h work periods have been shown to have better executive function than children who lost the Montessori lottery and instead went to other schools (Lillard and Else-Quest 2006). In addition, children in classic Montessori classrooms show significantly greater increases in executive function over the course of the school year than do children in conventional or supplemented classrooms (Lillard 2011). In addition, Montessori middle school students report feeling significantly "greater affect, potency (i.e., feeling energetic), intrinsic motivation, flow experience, and undivided interest (i.e., the combination of intrinsic motivation and high salience or importance)" (p. 341) while doing schoolwork than do matched students in conventional middle schools (Rathunde and Csikszentmihalyi 2005a). These findings of improved attention are paralleled in mindfulness research. Even a short-term course of meditation training improves attention skills (Jha et al. 2007; Tang et al. 2007) and 3 months of training was sufficient to improve performance on a dichotic listening task and show underlying changes to neural networks involved (Lutz et al. 2009). The attentional networks of long-term meditaters (over 44,000 h) are especially efficient (Brefczynski-Lewis et al. 2007). Mindfulness interventions benefit focused attention over and above good control procedures like relaxation training (Jain et al. 2007).

Social Outcomes

Mindfulness training programs encourage loving-kindness and empathy (Kabat-Zinn 1990), which would seem likely to improve relationships. Intervention studies with medical professionals have shown social relationship benefits including increased empathy (Beddoe and Murphy 2004; Krasner et al. 2009), and therapy with nondistressed couples has been shown to improve relationship quality (Carson et al. 2004). Brown and Ryan (2003) found a relationship between degree of mindfulness and the "relatedness" subscale of eudaemonic well-being. Such findings are also paralleled in Montessori research. For example, Montessori middle school children will more likely claim their schoolmates are also their friends (Rathunde and Csikszentmihalyi 2005b) as compared with matched controls. In the random lottery-based study, the 12-year-old Montessori students will more likely report trust in their classmates and choose the most positive option in social problem-solving tests. Montessori 5-year-old students will more likely engage in positively shared peer play and less likely engage in ambiguous rough-and-tumble play on the playground, will more likely choose a more advanced form of moral reasoning in a social problem-solving task, and will more likely perform better on theory of mind tasks (Lillard and Else-Quest 2006). The latter two results were also shown in children in more classic Montessori classrooms (playground testing was not conducted; Lillard 2011).



Thus there are parallels in social and attention-related outcomes for participants in Montessori classrooms and participants in mindfulness practices. Whether the parallel outcomes stem from parallels in activities in the two realms is not known.

Summary

Many points of similarity have been discussed here between mindfulness and Montessori education, such that one might even view Montessori education as a form of mindfulness education. In both programs, there is an emphasis on deep concentration as a source of personal development, leading to balance and joy and, by extension, to healthy relationships with other people and the environment. In both, the close connection between body and mind is respected; Montessori's sensorial exercises are a unique educational format in which this connection is emphasized, but the connection runs throughout the curriculum, as the educational program involves hands-on materials in which the body and mind work together to solve interesting problems. The exercises of practical life are also an extension of this and resonate with the call to chop wood and carry water. The self-grounding effects of functional activities are recognized in Montessori and mindfulness. Each encourages attention to the body and its every movement, to executing every act with care and precision. Several other points of similarity were also raised: the use of parables, the value of simplicity, and the absence of judgment. An additional point of interest is the mindfulness inherent in Montessori teacher training programs.

Some educators today are interested in how we can incorporate mindfulness practices in education, and Montessori education offers several ideas to consider. Very young children can and will focus attentively on meaningful work that incorporates body and mind. They also will be mindful of their actions when shown how to be so by attentive and loving adults. As education's goals grow beyond having more children circle more right answers on multiple-choice tests, Montessori education might provide some guidance for an alternative route that can nurture wiser and kinder and also knowledgeable human beings—a far more important goal that is perfectly compatible with doing well on those tests.

One of the most striking findings in studies of the impact of school-based mindfulness programs like sitting meditation and yoga concerned the control groups. For instance, on measures relating to psychological health, across the course of the year, while children in mindfulness programs tended to improve, those in control groups clearly declined (Broderick et al. 2010). As Eccles et al. (1993) have pointed out, our conventional schools have a poor person—environment fit, and mindfulness interventions help ameliorate these ill effects.

Incorporating practices from other school programs that are consistent with, and might be another form of, mindfulness intervention is worth considering for American education.

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