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David S. Black, Ph.D.

Highlights by
Seth Segall, Ph.D.

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Interventions

Articles testing the applied science and implementation of mindfulness-based interventions

Bo, Y., Na, L., Libo, J., ...& Yanyan, Q. (2023). **Application of mindfulness meditation on cancer related fatigue, anxiety and depression in patients with malignant hematological diseases undergoing chemotherapy.** *Archives of Clinical Psychiatry.* [\[link\]](#)

Calhoun, R., Thompson, S. F., Treadway, A., ...& Lengua, L. J. (2023). **Assessing the Feasibility and Acceptability of Pre- and Postnatal Mindfulness-based Programs with Mothers Experiencing Low Income.** *Journal of Child and Family Studies.* [\[link\]](#)

Chan, S. H. W., Cheung, M. Y. C., Chiu, A. T. S., ...& Yip, C. C. K. (2023). **Clinical effectiveness of mindfulness-based music therapy on improving emotional regulation in blind older women: A randomized controlled trial.** *Integrative Medicine Research.* [\[link\]](#)

Crovetto, F., Nakaki, A., Arranz, A., ...& Gratacós, E. (2023). **Effect of a Mediterranean Diet or Mindfulness-Based Stress Reduction During Pregnancy on Child Neurodevelopment: A Prespecified Analysis of the IMPACT BCN Randomized Clinical Trial.** *JAMA Network Open.* [\[link\]](#)

Félix-Junior, I. J., Opaleye, E. S., Donate, A. P. G., ...& Noto, A. R. (2023). **Effectiveness of Mindfulness for Anger Expression on Men in Treatment for Substance Use Disorders: A Randomized Controlled Trial.** *International Journal of Mental Health and Addiction.* [\[link\]](#)

Ficarra, M. E. (2023). **An Asynchronous Evidence-Based Mindfulness Intervention**

for Professional Nurses. *Journal of Holistic Nursing.* [\[link\]](#)

Hsiung, Y., Chen, Y.-H., Lin, L.-C., & Wang, Y.-H. (2023). **Effects of Mindfulness-Based Elder Care (MBEC) on symptoms of depression and anxiety and spiritual well-being of institutionalized seniors with disabilities: A randomized controlled trial.** *BMC Geriatrics.* [\[link\]](#)

Moran, M. J., Aichele, S., Shomaker, L. B., ...& Kaar, J. L. (2023). **Supporting Youth Mental Health Through a Health Coaching Intervention with a Mindfulness Component: A Pilot Randomized Controlled Trial During COVID-19.** *Child & Youth Care Forum.* [\[link\]](#)

Neece, C. L., Fenning, R. M., Morrell, H. E., & Benjamin, L. R. (2023). **Comparative effects of mindfulness-based stress reduction and psychoeducational support on parenting stress in families of autistic preschoolers.** *Autism.* [\[link\]](#)

Roos, C. R., Harp, N. R., Vafaie, N., ...& Kober, H. (2023). **Randomized trial of mindfulness- and reappraisal-based regulation of craving training among daily cigarette smokers.** *Psychology of Addictive Behaviors.* [\[link\]](#)

She, X., Tong, L., Wang, H., ...& Rozelle, S. (2023). **Community Mindfulness and Mentorship Preventive Intervention in Migrant Chinese Children: A Randomized Controlled Trial.** *JAACAP Open.* [\[link\]](#)

Silveira, S., Godara, M., Faschinger, A., & Singer, T. (2023). **Reducing alexithymia and increasing interoceptive awareness: A randomized controlled trial comparing mindfulness with dyadic socio-emotional**

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app-based practice. *Journal of Affective Disorders.* [\[link\]](#)

Stern, M., Rancourt, D., Soca Lozano, S., ...& Redwine, L. (2023). **Delivering ADAPT+ to Latino Families Living in Rural Communities: Feasibility and Acceptability of Implementing a Health Promotion Program Including Mindfulness.** *Journal of Pediatric Psychology.* [\[link\]](#)

Zou, H., Chair, S. Y., Luo, D., ...& Yang, B. X. (2023). **A mindfulness-oriented psycho-behavioral intervention for patients with acute coronary syndrome: A pilot study.** *Heart & Lung.* [\[link\]](#)

Associations

Articles examining the correlates and mechanisms of mindfulness

Aksen, D. E., Sleight, F. G., & Lynn, S. J. (2023). **Mindfulness intervention for impulsivity as a stand-alone treatment: A qualitative review of emerging evidence.** *Psychology of Consciousness: Theory, Res, and Practice.* [\[link\]](#)

Berryman, K., Lazar, S. W., & Hohwy, J. (2023). **Do contemplative practices make us more moral?** *Trends in Cognitive Sciences.* [\[link\]](#)

Hanley, A. W., Mai, T., & Garland, E. L. (2023). **Self-transcendent states during a modified MBSR program predict improvements in mood.** *Psychology of Consciousness: Theory, Res, and Practice.* [\[link\]](#)

Hurwitz, C., Shiner, C. T., Sharrock, M. J., ...& Mahoney, A. (2023). **Mindfulness-enhanced internet-based cognitive behavioural therapy for anxiety and depression: Outcomes in routine care.** *Journal of Affective Disorders.* [\[link\]](#)

Hyseni Duraku, Z., Konjufca, J., Hoxha, L., ...& Bajgora, S. (2023). **Reducing STEM test anxiety through classroom mindfulness training for lower secondary school children: A pilot study.** *International Journal of Adolescence and Youth.* [\[link\]](#)

Jelsone-Swain, L., Settepani, M., McMullen, K., ...& Cho, B. (2023). **An examination of mindfulness on Mu suppression and pain empathy and its relation to trait empathy.** *Social Neuroscience.* [\[link\]](#)

Maloney, S., Surawy, C., Martin, M., ...& Kuyken, W. (2023). **The State- and Trait-Level Effects and Candidate Mechanisms of Four MBCT Practices: Two Exploratory Studies.** *Mindfulness.* [\[link\]](#)

Moreira, M. F., Gamboa, O. L., & Oliveira, M. A. P. (2023). **Mindfulness-Based Intervention Effect on the Psychophysiological Marker of Self-Regulation in Women With Endometriosis-Related Chronic Pain.** *The Journal of Pain.* [\[link\]](#)

Pagni, B. A., Williams, C., Abrams, G., ...& Braden, B. B. (2023). **Neurophysiological Signatures of MBSR in Adults with Autism: Putative Mechanism of Anxiety Alleviation.** *Mindfulness.* [\[link\]](#)

Singh, N. N., Lancioni, G. E., Felver, J. C., ...& Medvedev, O. N. (2023). **Effects of Mindful Engagement and Attention on Reciprocal Caregiver and Client Interactions: A Behavioral Analysis of Moment-to-Moment Changes During Mindfulness Practice.** *Mindfulness.* [\[link\]](#)

Tanaka, C., Wakaizumi, K., Ninomiya, A., ...& Fujisawa, D. (2023). **Impact of continued mindfulness practice on resilience and well-being in mindfulness-based intervention graduates during the COVID-19 pandemic: A**

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cross-sectional study. *Psychiatry and Clinical Neurosciences Reports.* [\[link\]](#)

Vieth, E., & von Stockhausen, L. (2023). **Effects of short mindful breathing meditations on executive functioning in two randomized controlled double-blinded experiments.** *Acta Psychologica.* [\[link\]](#)

Yamamoto, A., Tsukuda, B., Minami, S., ...& Kato, M. (2023). **Effectiveness and Changes in Brain Functions by an Occupational Therapy Program Incorporating Mindfulness in Outpatients with Anxiety and Depression: A Randomized Controlled Trial.** *Neuropsychobiology.* [\[link\]](#)

Methods

Articles developing empirical procedures to advance the measurement and methodology

Ching, A. S. M., & Lim, J. (2023). **A Mega-Analysis of the Relationship Between Breath Counting Test Performance and Subscales of the Five Facet Mindfulness Questionnaire.** *Mindfulness.* [\[link\]](#)

Hotchkiss, J. T., Cook-Cottone, C. P., Wong, M. Y. C., ...& Garcia, A. C. M. (2023). **Intercultural Validation of the Mindful Self-Care Scale— Rasch and Factor Analysis of 16 Studies Representing Five Continents.** *Mindfulness.* [\[link\]](#)

Jones, G., Herrmann, F., & Nock, M. K. (2023). **A Digital Music-Based Mindfulness Intervention for Black Americans With Elevated Race-Based Anxiety: A Multiple-Baseline Pilot Study.** *JMIR Formative Research.* [\[link\]](#)

Kelly, A. R., & Fillmore, M. T. (2023). **Use of mindfulness training to improve BAC self-**

estimation during a drinking episode. *Psychology of Addictive Behaviors.* [\[link\]](#)

Petzold, P., Silveira, S., Godara, M., ...& Singer, T. (2023). **A randomized trial on differential changes in thought and affect after mindfulness versus dyadic practice indicates phenomenological fingerprints of app-based interventions.** *Scientific Reports.* [\[link\]](#)

Sun, L., & Chen, S. (2023). **Validation of the Observing Scale in Chinese Populations.** *Mindfulness.* [\[link\]](#)

Reviews

Articles reviewing content areas of mindfulness or conducting meta-analyses of published research

Barré, T., Cherikh, F., Carrieri, P., & Marcellin, F. (2023). **A call for mindfulness-based interventions for cannabis-use disorders.** *L'Encéphale.* [\[link\]](#)

Durand-Moreau, Q., Jackson, T., Deibert, D., ...& Straube, S. (2023). **Mindfulness-based Practices in Workers to Address Mental Health Conditions: A Systematic Review.** *Safety and Health at Work.* [\[link\]](#)

Ewelina Ciaramella, & Maia, D. (2023). **The Effects of Mindfulness-Based Interventions on Anxiety and Depression in Healthcare Professionals.** *Archives of Clinical Psychiatry.* [\[link\]](#)

Hidajat, T. J., Edwards, E. J., Wood, R., & Campbell, M. (2023). **Mindfulness-based interventions for stress and burnout in teachers: A systematic review.** *Teaching and Teacher Education.* [\[link\]](#)

Knabb, J. J., & Vazquez, V. E. (2023). **Decentering Mindfulness: Toward Greater**

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Meditative Diversity in Global Public Health. *Mindfulness.* [\[link\]](#)

Lu, C.-P., Dijk, S. W., Pandit, A., ...& Hunink, M. G. M. (2023). **The effect of mindfulness-based interventions on reducing stress in future health professionals: A systematic review and meta-analysis of RCTs.** *Applied Psychology: Health and Well-Being.* [\[link\]](#)

Oyler, D. L., Hulett, J. M., Pratscher, S. D., ...& Bettencourt, B. A. (2023). **The Influence of Meditative Interventions on Immune Functioning: A Meta-Analysis.** *Mindfulness.* [\[link\]](#)

Paley, C. A., & Johnson, M. I. (2023). **Perspective on salutogenic approaches to persistent pain with a focus on mindfulness interventions.** *Frontiers in Pain Research.* [\[link\]](#)

Reangsing, C., Trakooltorwong, P., Maneekunwong, K., ...& Oerther, S. (2023). **Effects of online mindfulness-based interventions (MBIs) on anxiety symptoms in adults: A systematic review and meta-analysis.** *BMC Complementary Medicine and Therapies.* [\[link\]](#)

Rose Sin Yi, L., Jing Jing, S., Hammada, A.-O., & Jonathan, B. (2023). **Effects of mindfulness-based interventions on neuropsychiatric symptoms and psychological well-being on people with subjective cognitive decline and mild cognitive impairment: A meta-analysis.** *International Journal of Geriatric Psychiatry.* [\[link\]](#)

Schwartz, K., Ganster, F. M., & Tran, U. S. (2023). **Mindfulness-Based Mobile Apps and Their Impact on Well-Being in Nonclinical Populations: Systematic Review of RCTs.** *Journal of Medical Internet Research.* [\[link\]](#)

Sharpe, L., Richmond, B., Menzies, R. E., ...& Colagiuri, B. (2023). **A synthesis of meta-analyses of mindfulness-based**

interventions in pain. *Pain.* [\[link\]](#)

Trials

Research studies newly funded by the National Institutes of Health (AUG 2023)

Center for Veterans Research and Education (D. Burgess, PI). **Reaching Rural Veterans: Applying Mind-Body Skills for Pain Using a Whole Health Telehealth Intervention (RAMP-WH).** NIH/NINR project # 1UG3NR020929-01. [\[link\]](#)

Florida International University (M. Hospital, PI). **A Reinforced Mindfulness-Based Intervention to Reduce Problematic Drinking among Latinx Emerging Adults: Feasibility and Acceptability.** NIH/NIAAA project # 1R01AA030976-01. [\[link\]](#)

RLR VA Medical Center (S. Shue, PI). **Pilot Testing a Virtual Mindfulness-Based Intervention Aimed at Improving Reintegrating Veterans' Health Outcomes.** VA project #1I21HX003699-01A1. [\[link\]](#)

University of Alabama at Birmingham (A. Fobian, PI). **A multi-site feasibility clinical trial of Retraining and Control Therapy (ReACT), a mind and body treatment for pediatric functional seizures.** NIH/NCCIH project #1R01AT012101-01A1. [\[link\]](#)

University of New Mexico (K. Witkiewitz, PI). **Mindfulness-Based Relapse Prevention as Video Conferencing Continuing Care to Promote Long Term Recovery from Alcohol Use Disorder.** NIH/NIAAA project #1R01AA031159-01. [\[link\]](#)

University of Utah (E. Garland, PI). **Optimizing Patient-Centered Opioid Tapering with Mindfulness-Oriented Recovery Enhancement.** NIH/NIDA project # 1R01DA058621-01. [\[link\]](#)

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Highlights

A summary of select studies from the issue, providing a snapshot of some of the latest research

Inadequate diet and high stress during pregnancy are risk factors for having low birthweight infants and experiencing poorer cognitive and social development in early childhood. Improving dietary intake and reducing maternal stress during pregnancy may yield long-term benefits for their children's later development. Crovetto et al. [JAMA Network Open] conducted a study to test the long-term effects of Mindfulness-Based Stress Reduction (MBSR) or a Mediterranean diet intervention compared to treatment as usual for pregnant women on toddler development.

The study recruited 1,221 Barcelonian mid-gestation pregnant women who were assessed as being at high-risk for delivering low birthweight infants. The prospective mothers were randomly assigned to usual treatment alone, usual treatment plus MBSR, or usual treatment plus a Mediterranean diet. MBSR consisted of eight 2.5 hour weekly group sessions, a full day retreat, and home practice. It used a standard MBSR syllabus that included a specialized focus on maternal yoga and mothers' relationships with their fetuses.

The Mediterranean diet intervention consisted of monthly 30-minute assessments and 1-hour group sessions conducted by trained nutritionists. Participants were provided with 2 liters of extra virgin olive oil and 450 grams of walnuts each month, along with weekly suggested shopping lists, detailed meal plans, and menus. The usual care group received pregnancy care according to institutional protocols. Adherence was 72% in the Mediterranean diet group (based on a ≥ 3 point pre-post improvement on a 17 item dietary adherence questionnaire) and 64% in the MBSR group (based on attendance of ≥ 6 group sessions).

All participants completed dietary questionnaires, and a randomly selected subset (47%) of the sample underwent blood and urine draws to assess biomarkers of walnut and olive oil consumption at both baseline and the final visit. Participants were also assessed on measures of stress, anxiety, wellbeing, and mindfulness. A separate randomly selected subset (27%) of the sample had 24-hour measures of urinary stress hormones at both baseline and the final visit.

In a separately published study, MBSR mothers (16%) and Mediterranean diet mothers (15%) were less likely to deliver low birthweight infants than usual care mothers (22%). In the present study, 626 toddlers (53% male; average age = 25 months) from the women in that original study were assessed on cognitive, language, motor, and social-emotional development and adaptive behavior using the Bayley Scales of Infant and Toddler Development. The number of toddlers is lower than the study sample of mothers, mainly due to difficulties in locating mothers for follow-up or obtaining their consent.

The results showed that Mediterranean diet toddlers had significantly higher Bayley cognitive and social-emotional scores than usual care toddlers. MBSR toddlers had significantly higher Bayley social-emotional scores than usual care toddlers, although the effect size was small. Mediterranean diet adherence (regardless of group) was significantly positively associated with Bayley cognitive and language scores. Higher levels of consumption of foods containing docosahexaenoic acid was associated with significantly better language scores, while higher consumption of foods containing trans fats was inversely associated with social-emotional scores and language scores. Maternal levels of stress and anxiety during pregnancy, irrespective of the group, showed significant negative associations with all five Bayley scales. Several FFMQ subscales (especially Describing and Acting with Awareness) showed significant positive associations with multiple Bayley scales.

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The study shows improved maternal diet and MBSR during pregnancy have positive long-term effects on early childhood development for mothers at risk of having low birthweight babies. Adding nutritional support and mindfulness meditation to maternity care-as-usual for high-risk mothers could have a significant impact on the lives of children, their families, and on the social competencies gained by society in general.

Contemplative practices such as mindfulness, lovingkindness, and self-compassion may have different effects on humans, and these differences may become obscured when they are combined in interventions. Certain practices may prove more effective than others in remedying specific types of mental and physical health problems. **Petzold et al. [Scientific Reports]** compared the immediate mental effects of using two different types of contemplative practice apps: a mindfulness meditation app and a social-emotional app.

The researchers randomly assigned 212 German-speaking Berlin residents (average age = 44 years; 73% Female) to use either a mindfulness meditation app or a social-emotional Affect Dyad app. Participants in both conditions participated in 2.5-hour orientation webinars and proceeded to 10 weeks of app use. Participants used the apps six days a week, and on the seventh day of each week participated in 2-hour on-line group coaching sessions. The mindfulness app contained 12-minute guided breath-focused, sensory, and open monitoring meditations. Mindfulness coaching sessions emphasized bodily and sensory awareness, dealing with difficult emotions, and cultivating an attitude of dignity and respect towards oneself.

The Affect Dyad app paired participants with another participant to discuss two recent events—one that elicited difficult emotions and one that elicited gratitude—and describe how those emotions affected their bodies. Participants spoke for 6 minutes while their partner listened without interruption, and then switched roles. Affect Dyad coaching

sessions emphasized social connectedness, non-judgmental listening, bodily awareness, dealing with difficult emotions, and cultivating care and gratitude.

Participants rated their thoughts and affect prior to and after daily app sessions. Thoughts were rated for temporality (about past, present, or future), social orientation (about self or other) and emotional valence (positive or negative). Affect was rated for emotional valence and intensity. The data enabled researchers to compare immediate changes in thought and affect resulting from app use and analyze group differences in these changes. These were immediate mental changes due to engaging with the app and not long-term results from engaging in these interventions over a period of 10 weeks. There were no significant between- or within-group long-term changes in thought and affect.

The results showed that mindfulness meditation app group significantly reduced future-oriented, negative, and other-oriented thoughts while increasing positive affect and affect intensity. In contrast, the Affect Dyad app group significantly reduced future-oriented thoughts, increased past-oriented and other-oriented thoughts, and raised positive affect and affect intensity. Self-oriented thoughts increased for both groups but did so significantly more for the Affect Dyad group compared to the mindfulness group.

The researchers interpreted these results as showing that mindfulness meditation app reduces thinking and improves mood through “calming the mind,” whereas the Affect Dyad app increases past-, self-, and other-directed thoughts and improves mood through enhancing social connection and caring. While both apps showed substantial immediate short-term effects, it is unclear whether they yield meaningful long-term effects. Smartphone apps are becoming an increasingly important way people engage with contemplative practices—meditation apps now have 185 million users—and this study’s combining of daily app practice with weekly on-line coaching seems one promising way to scale-up engagement with these practices.