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David S. Black, Ph.D.

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Seth Segall, Ph.D.

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Interventions

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

Ben Uriel-Maoz, L., Lavy, S., Berkovich-Ohana, A. (2023). **The effects of mindfulness on mother-child relationships and maternal well-being during the first COVID-19 lockdown in Israel.** *Child & Family Social Work.* [\[link\]](#)

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Guo, T., Jiang, D., Kuang, J., ... Chen, Y. (2023). **Mindfulness group intervention improved self-compassion and resilience of children from single-parent families in Tibetan areas.** *Complementary Therapies in Clinical Practice.* [\[link\]](#)

Hanssen, I., Huijbers, M., Regeer, E., ... Speckens, A. E. (2023). **MBCT v. treatment as usual in people with bipolar disorder: A multicentre, RCT.** *Psychol Medicine.* [\[link\]](#)

Khazaeian, S., Rahimi-Nezhad, M., Fathnezhad-Kazemi, A. (2023). **Effect of mindfulness on sexual self-esteem and marital intimacy in postmenopausal women: A quasi-experimental study.** *The Journal of Sexual Medicine.* [\[link\]](#)

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Lucas-Thompson, R. G., Prince, M. A., S. Adams, M., ... Seiter, N. S. (2023). **Does a mindfulness-based intervention strengthen mindfulness stress buffering effects in adolescence? A preliminary investigation.** *Current Psychology.* [\[link\]](#)

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Metcalf, C. A., Gallop, R., Segal, Z. V., Dimidjian, S. (2023). **Mental Health Outcomes and Putative Targets of an Online Mindfulness Program for New and Expectant Mothers: A RCT.** *J Technology Behavioral Science.* [\[link\]](#)

Myers, R. E., Medvedev, O. N., Oh, J., ... Singh, N. N. (2023). **A RCT of a Telehealth Family-Delivered Mindfulness-Based Health Wellness (MBHW) Program for Self-Management of Weight by Adolescents with Intellectual and Developmental Disabilities.** *Mindfulness.* [\[link\]](#)

Radin, R. M., Epel, E. S., Mason, A. E., ... Prather, A. A. (2023). **Impact of digital meditation on work stress and health outcomes among adults with overweight: A RCT.** *PLOS ONE.* [\[link\]](#)

Strauss, C., Bibby-Jones, A.-M., Jones, F., ... Cavanagh, K. (2023). **Clinical Effectiveness and Cost-Effectiveness of Supported MBCT Self-help Compared With Supported CBT Self-help for Adults Experiencing Depression: The Low-Intensity Guided Help**

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Wang, M., Zhang, H., Zhang, X., ... Yang, Y. (2023). **Effects of a online brief modified MBSR therapy for anxiety among Chinese adults: A RCT.** *Journal of Psychiatric Research.* [\[link\]](#)

Associations

Articles examining the correlates and mechanisms of mindfulness

Bang, M., Kim, B., Lee, K. S... Lee, S.-H. (2023). **Long-term benefits of mindfulness on white matter tracts underlying the cortical midline structures in panic disorder: A 2-year longitudinal study.** *Psychiatry and Clinical Neurosciences.* [\[link\]](#)

Bartos, L. J., Posadas, M. P., Wrapson, W., Krägeloh, C. (2023). **Increased Effect Sizes in a Mindfulness- and Yoga-Based Intervention After Adjusting for Response Shift with Then-Test.** *Mindfulness.* [\[link\]](#)

Bitton, S., Chatburn, A., Immink, M. A. (2023). **The Influence of Focused Attention and Open Monitoring Mindfulness Meditation States on True and False Memory.** *Journal of Cognitive Enhancement.* [\[link\]](#)

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Do, H., Hoang, H., Nguyen, N., ... Ha, H. (2023). **Intermediate effects of mindfulness practice on the brain activity of college students: An EEG study.** *IBRO Neuroscience Reports.* [\[link\]](#)

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Gan, Y., Wang, R., Wang, X., ... Fan, H. (2023). **Who benefits more from mindfulness? A preliminary study exploring moderating effect of personality traits on competition anxiety in athletes.** *International Journal of Sports Science & Coaching.* [\[link\]](#)

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Pagni, B. A., Hill, E., Walsh, M. J. M., ... Braden, B. B. (2023). **Distinct and shared therapeutic neural mechanisms of mindfulness-based and social support stress reduction groups in adults with autism spectrum disorder.** *Journal of Psychiatry and Neuroscience.* [\[link\]](#)

Roys, M. R., Stewart, S. A., Copeland, A. L. (2023). **Effects of a brief mindfulness intervention on smoking urges and negative affect following a negative affect induction.** *Current Psychology.* [\[link\]](#)

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Sleimen-Malkoun, R., Devillers-Réolon, L., Temprado, J.-J. (2023). **A single session of mindfulness meditation may acutely enhance cognitive performance regardless of meditation experience.** *PLOS ONE*. [\[link\]](#)

Zhang, J., Raya, J., Morfini, F., ... Whitfield-Gabrieli, S. (2023). **Reducing default mode network connectivity with mindfulness-based fMRI neurofeedback: A pilot study among adolescents with affective disorder history.** *Molecular Psychiatry*. [\[link\]](#)

Zheng, D., Berry, D. R., Brown, K. W. (2023). **Effects of Brief Mindfulness Meditation and Compassion Meditation on Parochial Empathy and Prosocial Behavior Toward Ethnic Out-Group Members.** *Mindfulness*. [\[link\]](#)

Methods

Articles developing empirical procedures to advance the measurement and methodology

Callands, T. A., Hylick, K., Desrosiers, A., ... Hansen, N. B. (2023). **The feasibility and acceptability of Project POWER: A mindfulness-infused, cognitive-behavioral group intervention to address mental and sexual health needs of young pregnant women in Liberia.** *BMC Pregnancy and Childbirth*. [\[link\]](#)

Cioe, P. A., Sokolovsky, A. W., Brewer, J. A., Kahler, C. W. (2023). **App-Delivered Mindfulness Training to Reduce Anxiety in People with HIV Who Smoke: A One-Armed Feasibility Trial.** *Intern J Environ Research and Public Health*. [\[link\]](#)

Ghosh, K., Nanda, S., Hurt, R. T., ... Croghan, I. T. (2023). **Mindfulness Using a Wearable Brain Sensing Device for Health Care**

Professionals During a Pandemic: A Pilot Program. *J Primary Care Comm Health*. [\[link\]](#)

Peter, S. C., Murphy, J. G., Witkiewitz, K., ... Derefinko, K. J. (2023). **Use of a sequential multiple assignment randomized trial to test contingency management and an integrated behavioral economic and mindfulness intervention for buprenorphine-naloxone medication adherence for opioid use disorder.** *Trials*. [\[link\]](#)

Radosavljevic, J., Farb, N. A. (2023). **Walking the Talk: A Randomized Trial Exploring the Role of Mindfulness Booster Sessions on Skill Acquisition Following Workshop Attendance.** *Mindfulness*. [\[link\]](#)

Theadom, A., Mitchell, T., du Preez, E. (2023). **Experience of a cognitive behavioural therapy and mindfulness intervention for men with a history of traumatic brain injury in prison: A thematic analysis.** *The Journal of Forensic Psychiatry & Psychology*. [\[link\]](#)

Tofighi, B., Marini, C., Lee, J. D., Garland, E. L. (2023). **Patient Perceptions of Integrating Meditation-based Interventions in Office-based Opioid Treatment with Buprenorphine: A Mixed-methods Survey.** *Journal of Addiction Medicine*. [\[link\]](#)

Reviews

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

Barceló-Soler, A., Morillo-Sarto, H., Fernández-Martínez, S., ... Pérez-Aranda, A. (2023). **A Systematic Review of the Adherence to Home-Practice Meditation Exercises in Patients with Chronic Pain.** *Intern J Environ Research and Public Health*. [\[link\]](#)

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Callen-Davies, R. J., Bristow, J., Gazder, T., ... Crane, R. S. (2023). **Mindfulness-based programmes and 'bigger than self' issues: Protocol for a scoping review.** *BMJ Open*. [\[link\]](#)

Fisher, V., Li, W. W., Malabu, U. (2023). **The effectiveness of MBSR on the mental health, HbA1C, and mindfulness of diabetes patients: A systematic review and meta-analysis of RCTs.** *Applied Psychology: Health and Well-Being*. [\[link\]](#)

Lee, S. Y., Gathright, E. C., Wu, W.-C., Salmoirago-Blotcher, E. (2023). **Mindfulness-Based Interventions for Patients with Cardiovascular Disease: A Focused Review for Practicing Clinicians.** *Current Cardiology Reports*. [\[link\]](#)

Min, W., Jiang, C., Li, Z., Wang, Z. (2023). **The effect of mindfulness-based interventions during pregnancy on postpartum mental health: A meta-analysis.** *Journal of Affective Disorders*. [\[link\]](#)

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O'Connor, M., Stapleton, A., O'Reilly, G., ... McHugh, L. (2023). **The efficacy of MBIs in promoting resilience: A systematic review and meta-analysis of RCTs.** *Journal of Contextual Behavioral Science*. [\[link\]](#)

Oman, D. (2023). **Mindfulness for Global Public Health: Critical Analysis and Agenda.** *Mindfulness*. [\[link\]](#)

Oystrick, V., Coholic, D., Schinke, R. (2023). **A Scoping Review of Mindfulness-Based and**

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Weare, K. (2023). **Where Have We Been and Where Are We Going with Mindfulness in Schools?** *Mindfulness*. [\[link\]](#)

Trials

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

Northeastern University (S. Whitfield-Gabrieli, PI). **Targeting adolescent depression symptoms using network-based real-time fMRI neurofeedback and mindfulness meditation.** NIH/NIMH project #1R61MH132072. [\[link\]](#)

University of Texas MD Anderson (D. Cho, PI). **Randomized controlled trial to test feasibility of a culturally adapted meditation-based support intervention for Black patients dealing with advanced cancer.** NIH/NCCIH project #1R34AT012360. [\[link\]](#)

Yeshiva University (M. Sala, PI). **Digital Mindfulness Meditation-enhanced Cognitive Behavioral Therapy (CBT-MM) for Binge Eating Disorder.** NIH/NCCIH project #1K23AT012126. [\[link\]](#)

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Highlights

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

Our mental health system is unable to provide care to all who need it: there are too few providers, and many clients cannot afford or access it. There is a need to creatively rethink how to offer care to more in need. One way is through self-help workbooks that allow clients to work on problems at their own pace while assisted by limited paraprofessional support.

British National Health Service guidelines currently endorse practitioner-supported Cognitive Behavioral Therapy Self-Help (CBT-SH) for depression. The National Health Service currently offers CBT-SH to over 100,000 clients annually, but the intervention suffers from a high drop-out rate.

Practitioner-supported Mindfulness-Based Cognitive Therapy Self-Help (MBCT-SH) is one possible alternative to CBT-SH, but its comparative efficacy is unknown. **Strauss et al. [JAMA Psychiatry]** conducted a randomized controlled trial comparing CBT-SH to MBCT-SH on clinical outcomes and cost effectiveness.

The researchers randomly assigned 410 clients with mild-to-moderate depression (62% female; 86% Caucasian; median age = 32) to practitioner-supported CBT-SH or MBCT-SH. Initial diagnosis and level of depression was established by structured clinical interview and self-report.

Participants were handed CBT or MBCT self-help workbooks and provided with six structured face-to-face or telephone 30-45 minute sessions with a psychological well-being practitioner focused on workbook material. "Psychological well-being practitioner" is a paraprofessional designation created through the British National Health Service's Improving Access to Psychological Services (IAPS) initiative.

The CBT workbook used in this study was one already in wide use in IAPS programs. The MBCT workbook was *The Mindful Way Workbook: An 8-Week Program to Free Yourself from Depression and Emotional Distress* written by the MBCT co-founders. Participants were given up to 16 weeks to complete the workbook curricula. Participants were assessed on measures of depression, anxiety, quality of life and mindfulness at baseline, 16 weeks (post-intervention) and 42-week follow-up. Drop-out rates for both groups were similar (28%).



MBCT-SH participants reported greater reductions in depression at post-intervention than CBT-SH participants ($d=-0.36$) but the group difference was no longer significant at 42 weeks. MBCT-SH participants also reported greater improvement in anxiety than CBT-SH participants at postintervention ($d=-0.23$), but not at 42 weeks. The absence of significant differences at 42 weeks reflects a continued improvement in depression for both groups.

The direct costs of providing treatment were \$209 for MBCT-SH and \$202 for CBT-SH. Other health care and social costs were higher for the CBT-SH group (\$1,684) than the MBCT-SH group (\$923). The increased CBT-SH costs were due to participants receiving more individual psychotherapy outside of the program, receiving more general practitioner visits, and the higher psychotropic medication usage.

The results show MBCT-SH superior to CBT-SH as a treatment for mild-moderate depression in terms of post-intervention mental health outcome and lower health care and social costs. Findings make a case for considering MBCT-SH to be at least as effective as CBT-SH and including it within the IAPS initiative.

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Studies of the short-term effects of mindfulness meditation on cognitive performance often show conflicting findings. These differences in study findings may result from heterogeneity in the populations, meditation methods, cognitive tasks, and study designs used, and the extent of participant's prior meditation experience.

Sleimen-Malkoun, et al. [PLOS One] attempted to clarify the effects of short-term mindfulness meditation on cognitive performance by comparing it to a control intervention and studying its effect on cognitive reaction time in both experienced and novice meditators.

Forty-two healthy French adults, including 22 experienced meditators (64% female; mean age = 49 years) and 20 meditation-naïve participants (55% female; mean age = 42 years), were enrolled in the study. Experienced meditators meditated at least 3 times weekly over an average of over 5 years (range = 5-250 months), while meditation-naïve participants had no prior meditation experience.

Participants' resting heart rates were recorded and they then performed a baseline Stroop task. Afterwards, half the participants engaged in 10 minutes of guided breath-focused mindfulness meditation while the other half actively listened to a 10 minute pre-recorded audio on the history, origins, and philosophy of mindfulness meditation without guided practice.

Participants then performed a repeat Stroop task. At this point, participants initially in the mindfulness condition were now assigned to the listening condition, and vice versa so that participants served as their own controls. Participants then completed a third Stroop task. Heart rate was monitored during both interventions.

The Stroop task was a cognitive performance task that involved showing participants computer-presented slides of colored words.

Sometimes the words spelled the names of colors (e.g., "RED"), and when that happened, sometimes the text color agreed with the word name (congruent condition), and at other times text color and word name were discordant (incongruent condition). There were also times when the words named parts of the body, so that their color was irrelevant (neutral condition).

Participants were asked to identify the color the words were printed in and their reaction times were recorded. The Stroop task is a commonly used measure of participants' attentiveness and ability to ignore distracting information.

RED

GREEN

The results showed Stroop reaction times to congruent and incongruent color word presentations were significantly faster after mindfulness meditation than after active listening. Average heart rates were significantly slower during active listening than while at rest, and significantly slower still while meditating.

The extent of participants' prior meditation experience did not interact with experimental condition to affect Stroop reaction time or heart rate.

The study shows that a brief 10-minute mindfulness meditation is associated with slowed heart rate and improved Stroop task reaction times in both experienced and novice meditators. Acute cognitive benefit accrues after a brief meditation, even for novices. The study is limited by its reliance on the Stroop task as the single outcome measure representing cognitive performance.