

Line manager training and organizational approaches to supporting well-being

T. Dulal-Arthur¹, J. Hassard², J. Bourke³, S. Roper⁴, M. Wishart⁴, V. Belt⁴, C. Bartle¹, S. Leka⁵, N. Pahl⁶, L. Thomson^{1,7} and H. Blake^{8,9}

¹School of Medicine, University of Nottingham, Nottingham, UK

²Queen's University Business School, Queen's University Belfast, Belfast, Northern Ireland, UK

³Department of Economics, Spatial & Regional Economics Research Centre, Cork University Business School, University College Cork, Cork, Ireland

⁴Enterprise Research Centre, Warwick University Business School, Warwick University, Coventry, UK

⁵Centre for Organisational Health and Well-Being, Lancaster University, Lancaster, UK

⁶Society for Occupational Medicine, London, UK

⁷Institute of Mental Health, University of Nottingham, Nottingham, UK

⁸School of Health Sciences, University of Nottingham, Nottingham, UK

⁹NIHR Nottingham Biomedical Research Centre, Nottingham, UK

Correspondence to: H. Blake, School of Health Sciences, University of Nottingham, Nottingham NG7 2HA, UK. E-mail: holly.blake@nottingham.ac.uk

Background: Employee mental health and well-being (MH&WB) is critical to the productivity and success of organizations. Training line managers (LMs) in mental health plays an important role in protecting and enhancing employee well-being, but its relationship with other MH&WB practices is under-researched.

Aims: To determine whether organizations offering LM training in mental health differ in the adoption of workplace- (i.e. primary/prevention-focused) and worker-directed (including both secondary/resiliency-focused and tertiary/remedial-focused) interventions to those organizations not offering LM training and to explore changes in the proportions of activities offered over time.

Methods: Secondary analysis of enterprise data from computer-assisted telephone interview surveys. The analysis included data from organizations in England across 4 years (2020: $n = 1900$; 2021: $n = 1551$; 2022: $n = 1904$; 2023: $n = 1902$).

Results: Offering LM training in mental health was associated with organizations' uptake of primary-, secondary-, and tertiary-level MH&WB activities across all 4 years. The proportion of organizations offering primary-, secondary- and tertiary-level interventions increased over time. On average, tertiary-level activities were most adopted (2020: 80%; 2021: 81%; 2022: 84%; 2023: 84%), followed by primary-level activities (2020: 66%; 2021: 72%; 2022: 72%; 2023: 73%) and secondary-level activities (2020: 62%; 2021: 60%; 2022: 61%; 2023: 67%).

Conclusions: Offering LM training in mental health is associated with the adoption of other MH&WB practices by organizations. Suggesting that organizations that are committed to the mental health agenda are more likely to take a holistic approach (including both worker and workplace strategies) to promoting workforce mental health, rather than providing LM training in isolation.

INTRODUCTION

National surveys show population declines in personal well-being across the UK [1]. Over the past few years, there has been an increase in mental health challenges among working adults during and after the coronavirus disease 2019 (COVID-19) pandemic [2]. From a public health perspective, the prevention and management of mental ill health through the workplace setting is an important strategy for improving population health [3]. From an economic perspective, for those who are vocationally active, mental ill health is now a leading cause of workplace sickness absence, accounting for around 17 million working days lost each year [4], costing around £56 billion annually [5]. This has implications for the productivity of employees and a high economic impact on organizations [6,7]. Therefore, there

are clear public health and economic arguments for promoting mental health and well-being (MH&WB) at work. Despite the rising prevalence of mental ill health, many employers are still unaware of their critical role in supporting the mental health of their employees [5,8], with many employers having limited provisions or policies in place to promote employee psychological well-being [9]. We hypothesize that organizations that offer training to their line managers (LMs) in MH&WB may offer more, or a different profile of, MH&WB policies and practices compared to organizations that do not offer training. Potentially due to an increased awareness and knowledge about workforce well-being amongst their managers who may subsequently implement them. However, there is currently no evidence to demonstrate this.

Key learning points

What is already known about this subject:

- Improving employee well-being is important for the overall performance of organizations.
- Line managers play a crucial role in supporting employees' well-being and are strategically positioned to identify early signs of mental health issues.
- Providing line manager training in mental health is a recommended strategy for enhancing employee mental health and well-being.

What this study adds:

- Positive mental health and well-being practices increased throughout the COVID-19 pandemic—the proportion of organizations offering primary-, secondary- and tertiary-level interventions has increased year on year.
- Positive mental health and well-being practices cluster together—those organizations offering line manager training are more likely to offer a range of primary-, secondary- and tertiary-level interventions than organizations not offering this training.
- Among organizations offering line manager training in mental health, tertiary-level intervention activities are the most frequently adopted, followed by primary- and then secondary-level mental health and well-being practices.

What impact this may have on practice or policy:

- Organizations should invest in line manager training in mental health as part of their broader mental health strategy as a primary preventative initiative.
- Organizations should aim for a comprehensive approach that comprises the implementation of primary-, secondary- and tertiary-level mental health and well-being practices.
- Research is needed to quantify the specific impacts of line manager training on organizational-level outcomes, such as sickness absence and presenteeism.

Workplace mental health interventions are typically categorized as *primary* (prevention-focused activities focused on reducing or better-managing work stressors through job design and management practices), *secondary* (employee-focused activities focused on bolstering their resilience and coping strategies), or *tertiary* (remedial- and curative-focused activities) [10]. A holistic approach integrating all three levels of intervention, which targets both workplace- (e.g. primary) and worker-directed strategies (e.g. secondary and tertiary interventions), is advocated as the best practice [11,12]. However, primary prevention is of particular importance to maximize employee health and productivity [12,13]. The importance of prevention-orientated approaches is strongly emphasized in both national guidance (e.g. National Institute for Health and Care Guidance [11]) and international standards (e.g. ISO 45003 standards on psychological health and safety at work [14]), with reference to the central and ongoing role played by LMs throughout the process.

LMs' behaviours and wider management practices are a determinant of employee well-being [15–17]. It is, therefore, crucial to equip LMs with the knowledge, skills and abilities to (i) effectively support, guide and promote the MH&WB of their direct reports (people they manage); (ii) ensure they can design and manage people's work to minimize work-related stress and (iii) cultivate a supportive and psychologically safe work environment. There is growing evidence that the necessary knowledge, skills and behavioural competencies needed to execute these tasks and roles by LMs can be learned and enhanced through targeted training programmes [18–20]. However, a survey conducted by the Institution of Occupational Safety and Health—prior to the COVID-19 pandemic—found that only 43% of organizations offered mental health training for their managers [21]. From 2020, the onset of the COVID-19 pandemic amplified workforce mental health risks [22]. While there are interventions being developed to support workforce mental health [23–26], the provision of LM training in mental health remains sub-optimal. Although data from large-scale employer surveys demonstrate that the proportion of organizations offering LM training has increased over time (to 59% in 2023), 41% of organizations still do not provide LM training in mental health [27].

There is little information available on the *context* in which LM training in mental health is delivered in organizations that provide it. The aim of this study, therefore, is to explore whether (or not) LM training initiatives contribute to a wider organizational strategy targeting employee well-being, which draws on a variety of workplace health promotion approaches and initiatives. To address this aim, the research question is: 'Do organizations offering LM training differ in their adoption of primary-, secondary- and tertiary-level MH&WB practices, compared to those that do not?'

METHODS

A secondary analysis of longitudinal, anonymized survey data from organizations in England was conducted. The data were derived from computer-assisted telephone interview surveys collected over 4 years, under a broader project 'Mental health and well-being practices, outcomes, and productivity: A causal analysis'. Data were collected from employer representatives (business managers) in 2020 (1900 firms), 2021 (1551 firms), 2022 (1904 firms) and 2023 (1902 firms). Of these, 118 organizations participated in the survey for all 4 years. Throughout this study, the predictor variable was 'LM training in mental health', measured as a single, dichotomous variable (coded: no = 0, yes = 1). All outcome variables were measured as categorical variables. To explore the relationships between our predictor variable and outcomes, we conducted probit regression analyses to determine the probability of specific outcomes occurring based on the presence or absence of LM training in mental health. This allowed for a deeper understanding of how LM training relates to the use of other MH&WB practices by surveyed organizations. The analyses controlled for age of the organization (0–10 years, 11–20 years, more than 20 years), sector (Production, Construction, Wholesale/Retail, Hospitality, Business Services and Other Services) and size of the organization (micro/small:1–49; medium: 50–249; large: 250+ employees). The MH&WB practices offered by organizations were classified into primary,

Table 1. Probit analysis of LM training in mental health associated with primary-level MH&WBs

DVs	2020 (826 firms)	2021 (838 firms)	2022 (962 firms)	2023 (963 firms)
P1. A mental health plan	β 0.849*** LR chi ² 103.864 Log likelihood -122.561	β 0.830*** LR chi ² 99.756*** Log likelihood -106.019	β 0.738 LR chi ² 93.186 Log likelihood -128.806	β 0.858*** LR chi ² 112.095 Log likelihood -127.528
P2. A health and well-being lead at Board or senior level	β 0.757*** LR chi ² 77.303 Log likelihood -136.870	β 0.593*** LR chi ² 68.612 Log likelihood -105.894	β 0.722 LR chi ² 116.723 Log likelihood -133.211	β 0.995*** LR chi ² 150.233 Log likelihood -117.462
P3. Use data to monitor employee health and well-being	β 0.225* LR chi ² 42.222* Log likelihood -140.649	β 0.574*** LR chi ² 72.360 Log likelihood -113.648	β 0.422 LR chi ² 67.856 Log likelihood -133.239	β 0.450*** LR chi ² 60.938 Log likelihood -133.995
P4. Internal and external reporting of your approach to mental health	β 0.474*** LR chi ² 43.999 Log likelihood -135.150	β 0.684*** LR chi ² 85.218 Log likelihood -114.934	β 0.660 LR chi ² 86.506 Log likelihood -126.155	β 0.712*** LR chi ² 92.692 Log likelihood -123.434
P5. A budget for mental health and well-being activities	β 0.442*** LR chi ² 46.284 Log likelihood -123.069	β 0.386*** LR chi ² 44.084 Log likelihood -102.342	β 0.688*** LR chi ² 96.664 Log likelihood -125.725	β 0.553*** LR chi ² 67.772 Log likelihood -119.435
P6. Risk assessments/stress audits	β 0.242** LR chi ² 20.300* Log likelihood -127.340	β 0.553 LR chi ² 52.740 Log likelihood -109.225	β 0.454*** LR chi ² 45.863 Log likelihood -126.965	β 0.593*** LR chi ² 63.998 Log likelihood -124.289
P7. Encourage open conversations about mental health in the workplace	β 0.606** LR chi ² 20.707* Log likelihood -46.202	β 0.605** LR chi ² 37.367*** Log likelihood -40.714	β 0.721 LR chi ² 35.112 Log likelihood -57.725	β 0.643 LR chi ² 37.389 Log likelihood -56.783
P8. Reviews of staff workloads	N/C	β 0.412*** LR chi ² 38.946 Log likelihood -95.025	β 0.454*** LR chi ² 48.828 Log likelihood -123.168	β 0.457*** LR chi ² 44.623 Log likelihood -105.517
P9. Make appropriate workplace adjustments to those who need them to support their mental health	β 0.324 LR chi ² 15.261 Log likelihood -47.421	β 0.540 LR chi ² 21.291 Log likelihood -59.378	β 0.901 LR chi ² 50.141 Log likelihood -49.353	β 0.567*** LR chi ² 37.435 Log likelihood -58.642
P10. Ensure all staff have a regular conversation about their health and well-being with their manager	β 0.342** LR chi ² 58.193 Log likelihood -112.132	β 0.481*** LR chi ² 59.130 Log likelihood -91.725	β 0.661 LR chi ² 110.301 Log likelihood -102.151	β 0.459*** LR chi ² 55.004 Log likelihood -101.628
P11. Have employee mental health champions	β 0.719*** LR chi ² 108.580 Log likelihood -117.790	β 0.778*** LR chi ² 133.139 Log likelihood -123.329	β 0.799*** LR chi ² 139.973 Log likelihood -122.047	β 0.814*** LR chi ² 142.627 Log likelihood -123.649

N/C = not captured. LR chi² = Likelihood ratio chi-square. Size, sector, and age of organizations are included as controls in all estimations.

* $P < 0.05$; ** $P < 0.01$; *** $P < 0.001$.

secondary and tertiary (File 1, available as Supplementary data at *Occupational Medicine* Online) as conceptually defined by the public health paradigm [28,29].

RESULTS

We observed that organizations with LM training in mental health adopted more primary-level MH&WB practices compared to

organizations without such training provisions (Table 1). This trend strengthened over the 4 years, evidenced by an increase in the proportions of firms offering LM training from 2020 to 2023 (2020: $n = 413$; 2021: $n = 371$; 2022: $n = 497$; 2023: $n = 576$) (Figure 1).

On average, organizations that offered LM training in mental health were more likely to adopt secondary-level MH&WB practices compared to organizations without LM training provisions

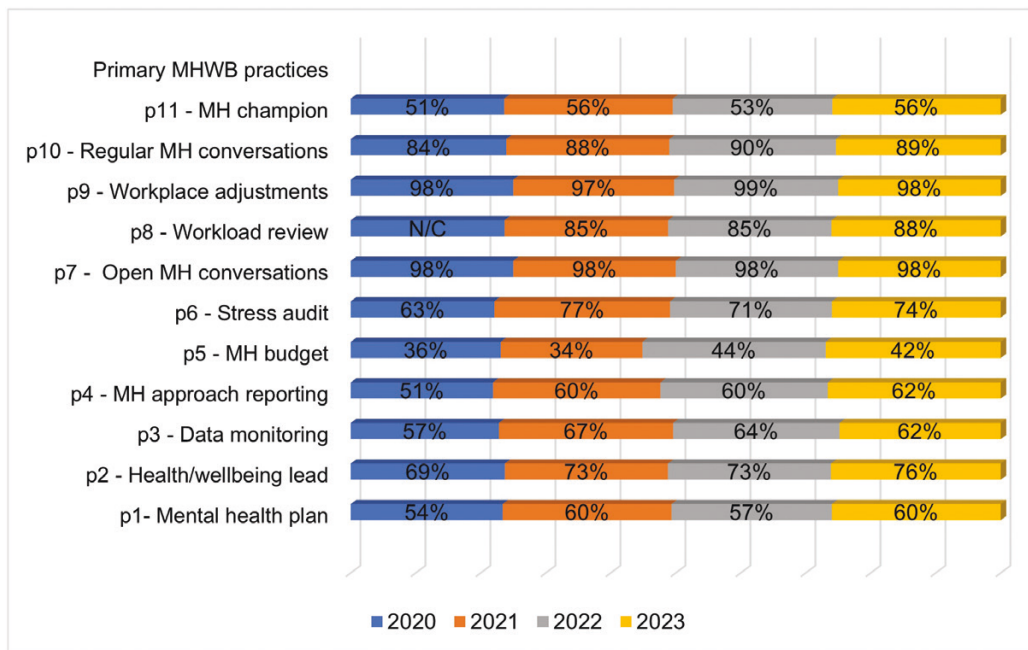


Figure 1. Primary-level intervention activities in organizations offering LM training in MH&WB (2020–2023).

(Table 2). Although the proportion of firms offering some of the secondary MH&WB practices increased from 2020 to 2023, there was an overall decrease in the proportion of firms offering general health promotion interventions including s1 ‘Support with physical activity such as gym memberships, cycle to work schemes’ and s2 ‘Supplying healthy food and drinks’ (Figure 2).

On average, organizations that offered LM training in mental health were more likely to adopt tertiary-level MH&WB practices compared to organizations without LM training provisions (Table 3). The proportion of firms offering these activities also increased from 2020 to 2023 or 2021 to 2023, where applicable (Figure 3).

Finally, the average proportions of primary-, secondary- and tertiary-level MH&WB practices were computed to determine which intervention levels were most adopted by organizations over the years. Overall, tertiary-level MH&WB practices were most adopted (2020: 80%; 2021: 81%; 2022: 84%; 2023: 84%), followed by primary-level MH&WB practices (2020: 66%; 2021: 72%; 2022: 72%; 2023: 73%) and then, secondary-level MH&WB practices (2020: 62%; 2021: 60%; 2022: 61%; 2023: 67%).

DISCUSSION

This study explored the relationship between LM training in mental health and the adoption of primary-, secondary- and tertiary-level MH&WB practices. Our findings show that LM training was significantly associated with MH&WB practices across all three levels. For organizations that offer LM training, there was a consistent increase in the proportion of primary- (prevention-focused) and tertiary (curative/remedial)-level MH&WB practices offered across the 4 years. However, there was some variation in the proportion of secondary-level MH&WB practices offered, with some increasing and others,

in contrast, decreasing over time. Among the three intervention levels, tertiary interventions were adopted most frequently, followed by primary and then secondary interventions.

A strength of this study is that it provides a comprehensive analysis of how a large sample of UK organizations adapted their MH&WB practices over several years, from immediately before (January 2020), to the end (May 2023) of a pandemic. The focus on LM training in mental health presents a valuable contribution by highlighting the overall benefits of providing this training to the wider organizational customs and practices. To the best of our knowledge, this is the first study to examine the relationship between LM training in mental health and the broader use of primary-, secondary- and tertiary-level MH&WB practices by organizations. However, the use of unbalanced panel data in the analyses limits our ability to capture the genuine ‘longitudinal’ effects of LM training on the organizational adoption of MH&WB practices. Due to the variations in the number of observations at each time point, there is reduced precision in capturing the temporal dynamics of the relationships being investigated. While our measures capture the presence/absence of various MH&WB practices (including LM training) and demonstrate how they are related, further research is required to determine the effectiveness of these practices on individual- and organizational-level outcomes.

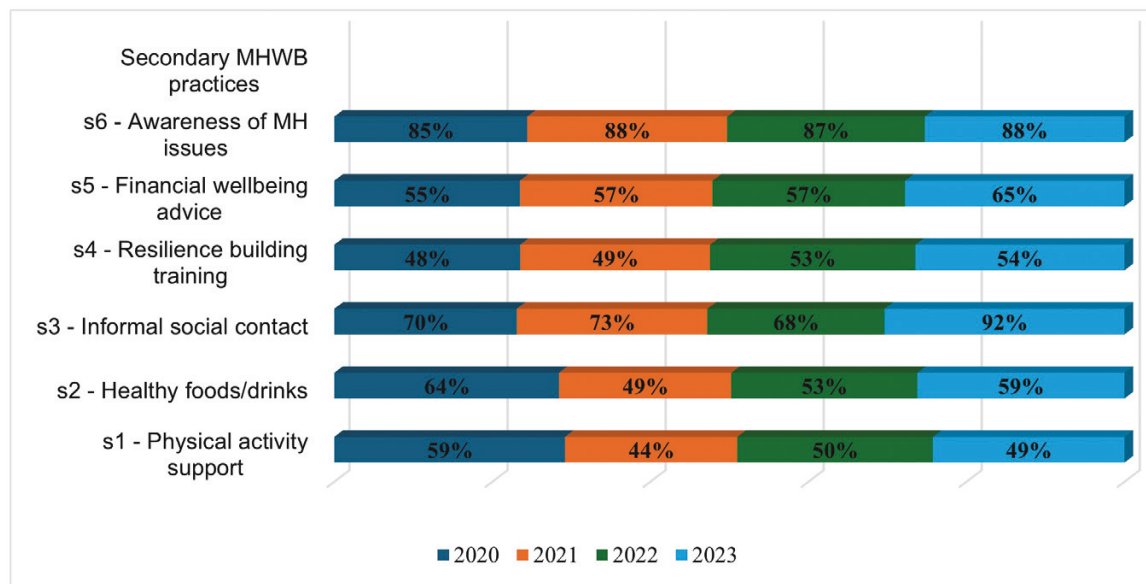
Our study contributes to the growing body of literature which highlights the importance of providing mental health training for LMs in the workplace [15,18,20,29]. While current intervention studies are exploring the impacts of LM training on individual employees and their LMs (e.g. Total Worker Health Intervention [25]; Managing Minds at Work [23,26]), our study explores patterns of well-being intervention at an organizational level which, to our knowledge, have not previously been documented. The establishment of a relationship between the provision of LM training in mental health and other positive MH&WB policies

Table 2. Probit analysis of LM training in mental health associated with secondary-level MH&WBs

DVs	2020 (826 firms)	2021 (838 firms)	2022 (962 firms)	2023 (963 firms)
S1. Support with physical activity such as gym memberships, cycle to work schemes	β 0.353*** LR chi ² 88.248 Log likelihood -117.339	β 0.171 LR chi ² 68.051 Log likelihood -125.677	β 0.333*** LR chi ² 97.958 Log likelihood -130.494	β 0.315*** LR chi ² 77.704 Log likelihood -124.575
S2. Supplying healthy food and drinks	β 0.192 LR chi ² 31.399 Log likelihood -118.948	β 0.281** LR chi ² 76.003*** Log likelihood -127.599	β 0.235*** LR chi ² 53.816 Log likelihood -131.633	β 0.241** LR chi ² 69.302 Log likelihood -130.236
S3. Provide regular opportunities for informal social contact for remote workers	N/C	β 0.213* LR chi ² 30.621** Log likelihood -112.107	β 0.270** LR chi ² 68.297*** Log likelihood -122.070	β 0.473* LR chi ² 10.909 (<i>P</i> = 0.365) Log likelihood -50.674
S4. Training aimed at building personal resilience	β 0.632*** LR chi ² 81.347 Log likelihood -113.115	β 0.721*** LR chi ² 99.676*** Log likelihood -119.168	β 0.755*** LR chi ² 99.735 Log likelihood -123.847	β 0.711 LR chi ² 93.078 Log likelihood -121.840
S5. Financial well-being advice	β 0.444*** LR chi ² 32.414 Log likelihood -124.205	β 0.358*** LR chi ² 62.422 Log likelihood -124.030	β 0.496*** LR chi ² 68.844 Log likelihood -129.078	β 0.556*** LR chi ² 86.178 Log likelihood -128.021
S6. Awareness raising for staff on mental health issues	β 1.109*** LR chi ² 161.334 Log likelihood -104.182	β 0.939*** LR chi ² 125.462 Log likelihood -96.548	β 0.946*** LR chi ² 167.966 Log likelihood -106.745	β 1.129*** LR chi ² 193.086 Log likelihood -108.650

N/C = not captured. DVs = dependent variables. LR chi² = Likelihood ratio chi-square.

P* < 0.05; *P* < 0.01; ****P* < 0.001.

**Figure 2.** Secondary-level intervention activities in organizations offering LM training in MH&WB (2020–2023).

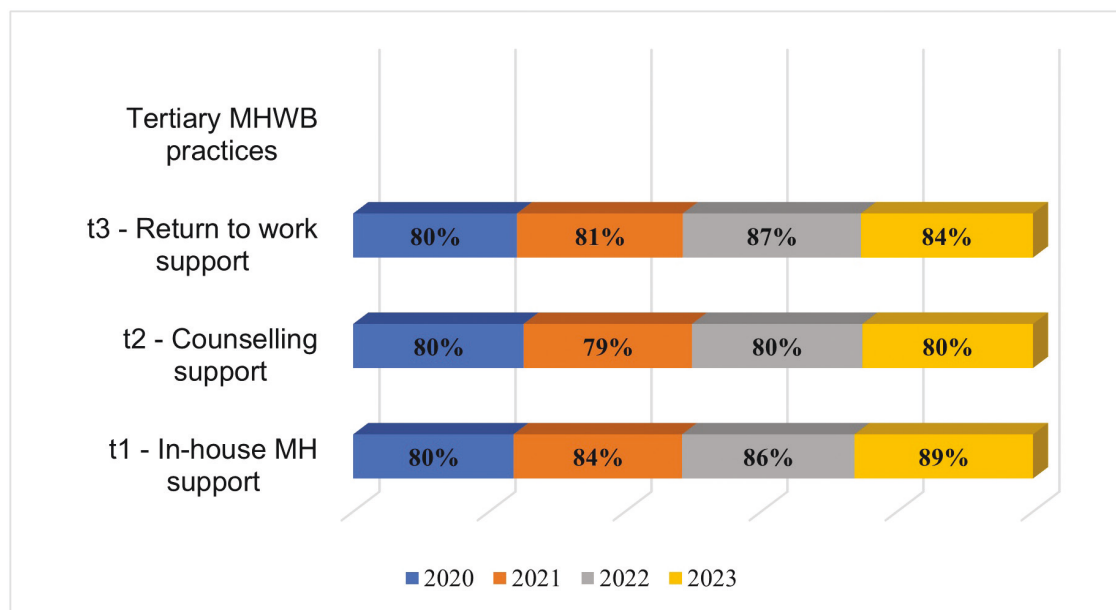
and practices suggests that the training of LMs in mental health is associated with a broader organizational commitment to employee well-being at all three intervention levels. Essentially, we observed that positive MH&WB practices cluster together.

Further research is needed to explore the types of intervention (i.e. their content/nature, dose, duration and frequency) that are more, or less, effective for improving workforce well-being and indices of business performance.

Table 3. Probit analysis of LM training in mental health associated with tertiary-level MHWBs

DVs	2020 (826 firms)	2021 (838 firms)	2022 (962 firms)	2023 (963 firms)
T1. In-house MH support and signposting to other services	$\beta 0.784^{***}$ LR chi ² 99.356 Log likelihood -102.512	$\beta 0.606^{***}$ LR chi ² 104.804 Log likelihood -98.702	$\beta 0.829^{***}$ LR chi ² 139.387 Log likelihood -106.141	$\beta 0.980^{***}$ LR chi ² 157.511 Log likelihood -93.751
T2. Access to counselling support	N/C	$\beta 0.572^{***}$ LR chi ² 87.235 Log likelihood -109.354	$\beta 0.635^{***}$ LR chi ² 101.919 Log likelihood -115.418	$\beta 0.525^{***}$ LR chi ² 87.867 Log likelihood -102.585
T3. Training and support for those returning to work	N/C	$\beta 0.465^{***}$ LR chi ² 58.564 Log likelihood -113.247	$\beta 0.732^{***}$ LR chi ² 112.463 Log likelihood -111.429	$\beta 0.741$ LR chi ² 108.555 Log likelihood -107.213

N/C = not captured. DVs = dependent variables. LR chi² = Likelihood ratio chi-square.
* $P < 0.05$; ** $P < 0.01$; *** $P < 0.001$.

**Figure 3.** Tertiary-level intervention activities in organizations offering LM training in MH&WB (2020–2023).

The fact that we identified increases in the adoption of MH&WB practices over recent years is promising given the rise in mental health problems in working adults during and after the pandemic [30]. This suggests a greater awareness of employers relating to mental health at work, which manifests in actions to mitigate or manage this growing trend. The association between the provision of LM training and other MH&WB practices perhaps indicates that raising managers' awareness, knowledge, confidence and skills relating to workforce mental health may act as a catalyst for the implementation of positive, health-focused practices across the organization.

A notable finding from this study is the increasing proportions of tertiary-level interventions used by organizations over the 4 years. Previous research suggests that organizations may opt for tertiary-level interventions due to the perceived immediate benefits and tangibility of support services [31]. However, while these interventions are important in offering

support to employees already suffering from mental health issues, their effects are not as long-lasting as primary and secondary interventions—as they do not address the root causes of the issue [32]. Hence, scholars argue that the best approach for addressing mental health issues at work (e.g. work-related stress) is a balanced, holistic approach that combines all three intervention levels [33]. Future research in this area should focus on quantifying the specific impacts of LM training on organizational-level outcomes, such as sickness absence and presenteeism. This evidence would help to inform employers' investment decisions relating to MH&WB at work, which will ultimately impact employee health and well-being.

COMPETING INTERESTS

N.P. is the CEO of the Society of Occupational Medicine. In this role, he has no editorial influence on the Journal although the

S.O.M. financially manages the Journal. All other authors have no competing interests to declare.

FUNDING

The data used here were originally collected as part of an Economic and Social Research Council funded project ‘Workplace mental-health and well-being practices, outcomes and productivity’ (grant number: ES/W010216/1). This secondary analysis project ‘Mental health at work: a longitudinal exploration of line manager training provisions and impacts on productivity, individual and organizational outcomes’ was supported by the Economic and Social Research Council [The Productivity Institute: grant number: ES/V002740/1].

REFERENCES

- Office for National Statistics (ONS). *Personal Well-Being in the UK: April 2022 to March 2023*. London: ONS, 2023. <https://www.ons.gov.uk/peoplepopulationandcommunity/wellbeing/bulletins/measuringnationalwellbeing/april2022tomarch2023> (7 May 2024, date last accessed).
- Edge R, Plaat D, Parsons V *et al*. Changing patterns of sickness absence among healthcare workers in England during the COVID-19 pandemic. *J Public Health (Oxf)* 2021;**44**:e45–e50. doi:10.1093/pubmed/fdab341
- National Institute for Health and Care Excellence. NICE Guidelines. 2022. <https://www.nice.org.uk/about/what-we-do/our-programmes/nice-guidance/nice-guidelines> (7 May 2024, date last accessed).
- Health and Safety Executive. *Work-Related Stress, Anxiety, or Depression Statistics in Great Britain, 2022*. London: HSE, 2022.
- Deloitte. *Poor Mental Health Costs UK Employers up to £56 Billion a Year. 2023*. <https://www.deloitte.com/uk/en/about/press-room/poor-mental-health-costs-uk-employers-51-billion-a-year-for-employees.html> (30 June 2024, date last accessed).
- Ramos-Galarza C, Acosta-Rodas P. Stress and productivity in workers of textile companies. *J Fashion Market Manag* 2019;**23**:17–29. doi:10.1108/JFMM-02-2018-0030
- Stepanek M, Jahanshahi K, Millard F. Individual, workplace, and combined effects modeling of employee productivity loss. *J Occup Environ Med* 2019;**61**:469–478. doi:10.1097/JOM.0000000000001573
- Hassard J, Thomson L, Blake H. Understanding and exploring the cost of poor mental health at work for organizations and society. In: Day A, Cooper CL, eds. *The Routledge Companion to Mental Health at Work*. New York: Routledge, 2023, pp. 77–96.
- Arumdani K, Churiyah M. Job stress, work life balance, and workplace wellbeing: a bibliometric analysis. *J Syntax Transform* 2022;**3**:631–642. doi:10.46799/jst.v3i5.554
- Murphy LR, Sauter SL. Work organization interventions: stage of knowledge and future directions. *Soz Praventivmed* 2004;**49**:79–86.
- National Institute for Health and Care Guidance. NICE Guidance. 2022. <https://www.nice.org.uk/guidance> (7 May 2024, date last accessed).
- European Agency for Safety and Health at Work. *Health and Safety at Work Is Everybody’s Business—Practical Guidance for Employers*. 2022. <https://osha.europa.eu/en/legislation/guidelines/health-and-safety-work-everybodys-business-practical-guidance-employers> (7 May 2024, date last accessed).
- Le A, Rosen J. It is time to implement primary prevention in the workplace to ameliorate the ongoing U.S. opioid epidemic. *New Solut* 2021;**31**:210–218. doi:10.1177/10482911211039880
- Clayman K. Psychosocial safety & health: Q&A with Ken Clayman. *Prof Saf* 2021:46–47.
- Blake H, Hassard J, Bartle C, Thomson L. Training for line managers should focus on primary prevention of mental ill-health at work. *Perspect Public Health* 2023;**143**:124–125.
- Huo M, Boxall P, Cheung G. How does line-manager support enhance worker wellbeing? A study in China. *Int J Hum Resour Manag* 2020;**31**:1825–1843. doi:10.1080/09585192.2017.1423103
- Salas-Vallina A, Alegre J, López-Cabrales A. The challenge of increasing employees’ well-being and performance: how human resource management practices and engaging leadership work together toward reaching this goal. *Hum Resour Manag* 2021;**60**:333–347.
- Gayed A, Milligan-Saville JS, Nicholas J *et al*. Effectiveness of training workplace managers to understand and support the mental health needs of employees: a systematic review and meta-analysis. *Occup Environ Med* 2018;**75**:462–470.
- Gayed A, Bryan BT, LaMontagne AD *et al*. A cluster randomized controlled trial to evaluate HeadCoach: an online mental health training program for workplace managers. *J Occup Environ Med* 2019;**61**:545–551.
- Milligan-Saville JS, Tan L, Gayed A *et al*. Workplace mental health training for managers and its effect on sick leave in employees: a cluster randomised controlled trial. *Lancet Psychiatry* 2017;**4**:850–858.
- Institute for Occupational Safety and Health. *White Paper—Workplace Wellbeing: The Role of LMs in Promoting Positive Mental Health*. Management Today, 2019. <https://iosh.com/media/zcinwdnp/iosh-research-workplace-wellbeing-management-today-whitepaper.pdf> (7 May 2024, date last accessed).
- Giorgi G, Lecca LI, Alessio F *et al*. COVID-19-related mental health effects in the workplace: a narrative review. *Int J Environ Res Public Health* 2020;**17**:7857. doi:10.3390/ijerph17217857
- Blake H, Vaughan B, Bartle C *et al*. Managing minds at work: development of a digital line manager training program. *Int J Environ Res Public Health* 2022;**19**:8006.
- Prudenzi A, Jadhakhan F, Gill K *et al*. Supporting employers and their employees with Mental Health problems to remain engaged and productive at work (MENTOR): a feasibility randomised controlled trial protocol. *PLoS One* 2023;**18**:e0283598.
- Hammer LB, Brady JM, Brossoit RM *et al*. Effects of a Total Worker Health® leadership intervention on employee well-being and functional impairment. *J Occup Health Psychol* 2021;**26**:582–598. doi:10.1037/ocp0000312
- Thomson L, Hassard J, Frost A *et al*. Digital training program for line managers (managing minds at work): protocol for a feasibility pilot cluster randomized controlled trial. *JMIR Res Protoc* 2023;**12**:e48758.
- Blake H, Hassard J, Dulal-Arthur T *et al*. Typology of employers offering line manager training for mental health. *Occup Med (Lond)* 2024;**74**:242–250.
- Baumann LC, Ylinen A. Prevention: primary, secondary, tertiary. In: Gillman MD, ed. *Encyclopedia of Behavioral Medicine*. Cham: Springer International Publishing, 2020, pp. 1738–1740.
- Nielsen K, Yarker J. What can I do for you? Line manager’s behaviors to support return to work for workers with common mental disorders. *J Manag Psychol* 2023;**38**:34–46.
- Schuring M, Burdorf L, Kunst A, Mackenbach J. The effects of ill health on entering and maintaining paid employment: evidence in European countries. *J Epidemiol Commun Health* 2007;**61**:597–604.
- Reyes-Gibby C, Anderson K, Shete S, Bruera E, Yennurajalingam S. Early referral to supportive care specialists for symptom burden in lung cancer patients. *Cancer* 2012;**118**:856–863. doi:10.1002/cncr.26312
- LaMontagne AD, Keegel T, Louie AM, Ostry A, Landsbergis PA. A systematic review of the job-stress intervention evaluation literature, 1990–2005. *Int J Occup Environ Health* 2007;**13**:268–280.
- Priyanka S, Jitendra M. Holistic approach in dealing with mental stress during Covid-19 pandemic: a review. *Int J Adv Res* 2020;**45**:325–329. doi:10.21474/ijar01/12092