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Coláiste na hOllscoile Corcaigh

Remote workers' experiences with electronic monitoring during Covid-19: implications and recommendations

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Abstract

Purpose – This conceptual article outlines the known effects of employee monitoring on employees who are working remotely. Potential implications, as well as practitioner suggestions, are outlined to identify how practitioners can create more supportive employee experiences as well as apply these to workplace health management scenarios.

Design/methodology/approach – This overview is based on a selective and practically oriented review of articles that hitherto considered the health implications of remote workers being monitored electronically over the last two years. This overview is subsequently complemented by a discussion of more recent findings that outline the potential implications of monitoring for remote employees, employees' work experience and workplace health management.

Findings – Several practitioner-oriented suggestions are outlined that can pave the way to a more supportive employee experience for remote workers, who are monitored electronically by their employers. These include the various health and social interventions, greater managerial awareness about factors that influence wellbeing and more collaboration with health professionals to design interventions and new workplace policies. Organizations would also benefit from using audits and data analytics from monitoring tools to inform their interventions, while a rethink about work design, as well as organizational reviews of performance and working conditions further represent useful options to identify and set up the right conditions that foster both performance as well as employee well-being.

Originality/value – The article outlines practitioner-oriented suggestions that can directly and indirectly support employee well-being by recognizing the various factors that affect performance and experience.

Keywords Employee monitoring, Remote work, Mental health, Well-being, Pandemic

Paper type Viewpoint

Introduction

Over the course of the last 20 years, many employers have increasingly experimented with remote working. As the number of freelancers and gig workers rose, coinciding with the expansion of online platforms, more and more individuals have started to work from home. This trend was mirrored in education as more and more private companies and public sector institutions started to move educational content and entire programs online. Prior to the pandemic, 15% of employees worked from home in the USA according to a survey by Brandon Hall Group (2020). This matches other studies in Germany (Groll, 2019). In 2020, the pandemic forced entire industries to explore and in part adopt remote working where possible. This has pushed up the number of remote workers in some companies and industries to 75% and higher (Brandon Hall Group, 2020). And many employees and employers in different countries expect that remote working arrangements will become the

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Effects of electronic monitoring

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established and more prominent work option following the pandemic than in previous decades for many office workers (Brandon Hall Group, 2020; Wandt, 2020).

These developments have also spawned new papers on the topic of working from home, the need to accommodate virtual teamwork and leadership (e.g. Koekemoer *et al.*, 2021) and the importance of establishing organizational norms for this form of work (Kniffin *et al.*, 2021). Furthermore, many researchers have noted that aspects such as employee experience – considering health and well-being – require more consideration in the future (Kniffin *et al.*, 2021; Sinclair *et al.*, 2020). Fortunately, a great number of resources and insights have been generated over the last few years in areas such as international human resource (HR) research and workplace health management that can readily support such efforts (Blanchard *et al.*, 2009; Caligiuri *et al.*, 2020; Carnevale and Hatak, 2020; Justesen *et al.*, 2017; Martin *et al.*, 2016, 2018; Mellor and Webster, 2013; Tomczak *et al.*, 2018).

Indeed, over the last two years, we have seen the increasing adoption of HR and communication tools to monitor and manage employees working from home. The emergence, popularity and increasing use of new tools that are installed and running on our work devices mean that employers are now in a situation that grants them a direct "line of sight" and minuteby-minute record concerning everything that their remote employees are doing during work hours (Allyn, 2020; Hern, 2020; Hill, 2020). Of course, some employers have used productivity analytics and employee monitoring on production sites and in offices for decades to keep track of production, monitor performance quality and manage potential risks in the workplace (Jeske, 2021). The emergence of new situational stressors and constraints due to the sudden move to remote working (Bolisani *et al.*, 2020) and limitations caused by lockdowns (and home-schooling for many working parents; Anderson and Kelliher, 2020), in combination with the increasing adoption of new employee monitoring tools in 2020 (Hern, 2020; Morrison, 2020), has created a maelstrom of challenges, which are causing strain for many remote workers (e.g. Passetti *et al.*, 2021; Kalischko and Riedl, 2021; Welter and Ensslin, 2021).

This viewpoint article first outlines the known effects of employee monitoring on employees and the potential effects that might emerge for those who are working remotely. The second part of the article focuses on the potential implications as well as practitioner suggestions, which identify how health professionals and practitioners can, together with other stakeholders within their organizations, create more supportive employee experiences as well as connect these to workplace health management. In order to understand the issues around electronic performance monitoring, the next section outlines some of the prepandemic findings about electronic monitoring that demonstrates our current knowledge about the antecedents and effects of electronic monitoring more generally (leske, 2021; leske and Santuzzi, 2015; Ravid et al., 2020; Yost et al., 2019). These findings are complemented by insights gained about the employee experience during 2020 and 2021. The focus here is specifically placed on practice-relevant insights and the identification of potential implications for workplace health management, as a result of electronic performance monitoring within organizations. While this contribution focuses predominantly on the experiences of employees that have the option to work remotely -a smaller proportion of the working population in most countries (Baker, 2020) – some of these insights and potential implications may also be relevant for the management and support of on-site employees.

Electronic monitoring at work: known effects

Electronic monitoring has been a regular feature in many factory shop floors and offices for decades. Monitoring can be distinguished in terms of its purposes, invasiveness, synchronicity (which may allow for frequent, continuous and instantaneous recording) and the transparency of their use and deployment (Jeske and Santuzzi, 2015; Ravid *et al.*, 2020). Electronic monitoring and its effects have been explored and summarised in many different studies and practitioner reports in recent times prior to the pandemic

(e.g. Abraham *et al.*, 2019; Bernstrøm and Svare, 2017; Indiparambil, 2019; Martin *et al.*, 2016; Ravid *et al.*, 2020; Tomczak *et al.*, 2018). The increase in monitoring was further accelerated in numerous countries due to the start of the pandemic in 2020 as many employers across the world adopted remote working practices (e.g. Allyn, 2020; Gustavsson and Söderlund, 2021; Hill, 2020; Passetti *et al.*, 2021). In addition to this body of work, many researchers focused on aspects such as technostress and performance (Atanasoff and Venable, 2017; Laird *et al.*, 2018; Spagnoli *et al.*, 2020), recognizing the role of how technology can impact individual health and wellness as well as organizational outcomes. A critical component for the employee experience is the purpose that drives the use of electronic performance monitoring (Ravid *et al.*, 2020). Two purposes are particularly relevant for practitioners in the workplace health domain because they also carry the potential to affect employee experience, attitudes and emotions negatively or positively (Welter and Ensslin, 2021).

The first of these motives for the implementation of such monitoring is to reduce costs and risks (Adams, 2013; Welter and Ensslin, 2021). In this case, monitoring is used a means to exercise more control over employees' performance in the organization (e.g. Adams, 2013; Bartels and Nordstrom, 2012; Shaffer and Darnold, 2020; Siegel et al., 2021), an aspect that also became more prominent around the world in numerous countries as work moved online due to the pandemic (e.g. Blumenfeld et al., 2020; Gustavsson and Söderlund, 2021; Passetti et al., 2021). This approach is often based on the assumption employees cannot be trusted to act in the best interest of the company and should be tightly monitored to ensure that the business is getting the maximum return on investment (Hill, 2020), a standpoint more in line with digital Taylorism (Wang et al., 2020). Such a mindset often leads to decision-making that excludes employees from having any say in the adoption of monitoring or the invasiveness, regularity and pervasiveness of the monitoring (see also Vatcha, 2020). For example, close and continuous monitoring is often interpreted as reflecting a lack of trust on behalf of management (Allyn, 2020; Jamal et al., 2021). New tools will often generate new issues due to a poor fit with the prevailing culture, organizational characteristics, shared values and norms (Tomczak et al., 2018). Indeed, higher levels of perceived surveillance and coercive control have been linked to more counter-productive work behaviors (Martin et al., 2016; Shaffer and Darnold, 2020; Tomczak et al., 2018), that is, voluntary or intentional behaviors, which are not in the interest the organization (Chang and Smithikrai, 2010). Moreover, new concerns on the side of employees arise due to the demotivation of employees (Martin et al., 2016; McEvoy, 2020), and the emergence of negative attitudes and poorer performance of teams (e.g. team cohesion and collaboration reduces when team members are individually monitored and team contributions are no longer captured; see also Welter and Ensslin, 2021). Monitoring can therefore trigger resistance to monitoring and conflicts between employees and management (Alge and Hansen, 2014; Bathini and Kandathil, 2020; Wang et al., 2021).

The second motive for the implementation of monitoring is to increase performance and identify room for development (Ravid *et al.*, 2020; Tomczak *et al.*, 2018). For example, many employers use monitoring tools to access dashboards that visualize processes, enabling them to assess workflow and delays (Blumenfeld *et al.*, 2020; Jeske, 2021). This can create more transparency and help employees to focus on core tasks (Wang *et al.*, 2021). In those instances, these tools enable managers to proactively support employees and share timely developmental feedback with individuals and teams to help them optimize their performance (ideally supplemented by appropriate training interventions; Tomczak *et al.*, 2018). This transparency, combined with employee consent, can help to maintain perceived fairness and justice (Tomczak *et al.*, 2018). The key here is that employees feel trusted (Bernstrøm and Svare, 2017; Rees, 2020) and retain some degree of autonomy, an aspect that has become important to many remote workers during the pandemic (Bathini and Kandathil, 2020; Jamal *et al.*, 2021). This motive has also sparked more interest in how future monitoring systems should be designed in recognition of the ethical, cultural and privacy concerns (e.g.

Kalischko and Riedl, 2021; Sherif *et al.*, 2021). Employers who emphasize trust and appreciation are far more likely to set up the monitoring in a way that meets rather than undermines employees' needs, such as the need for belonging, co-determination and trust (see also Tomczak *et al.*, 2020, on the impact of monitoring on the psychological contract). Indeed, the "employees' feeling of trust increases with the level of control over decisions at work and decreases relative to the level of monitoring at work" (Bernstrøm and Svare, 2017, p. 43). Such positive effects can be fostered if employees are able to voice their concerns, participate in the design of the tool and the setting of standards as well as the identification of appreciation and recognition means and appropriate tool training (Laird *et al.*, 2018; Kalischko and Riedl, 2021; Martin *et al.*, 2016). As a result, employee reactions to electronic monitoring are often influenced by the motives behind the implementation of the monitoring systems, the use of these systems and the extent to which employee needs are met and their voices heard (by the organizations and managers who are directly responsible for systems implementation).

Remote working plus electronic monitoring during Covid-19: emerging insights The importance of workplace health management in the monitored workplace becomes apparent when we reflect on the number of situational challenges that have arisen due to Covid-19, as well as the personal pressures on employees that emerged as a result of the pandemic and employer decision-making on how to manage performance (e.g. Sinclair *et al.*, 2020). Relevant peer-reviewed scholarly articles were identified using several keywords, usually in combination, such as "electronic monitoring," "electronic performance monitoring," "pandemic", "Covid-19", "remote work," "health management" and "employee health", using databases such as Emerald, Springer, Wiley and Google Scholar. The literature search focused on work published between January 2020 and September 2021. The next section describes general employees' work experience and identifies a number of challenges, which can trigger new or exacerbate existing mental and physical health issues.

In the context of Covid-19, many employees experienced a number of challenges. Many were suddenly sent home with minimal workplace provisions to accomplish their work remotely. Parents often ended up at home-schooling their children during lockdowns, creating significant levels of social strain, stress and work interruptions (APA, 2020; Zhou *et al.*, 2020). Access to everyday resources was restricted in many locations. Many individuals were physically isolated, reducing their interpersonal support network outside the workplace during the pandemic. Other issues reported in 2020 concerned increased work–life conflict, anxiety, financial concerns and an unequal workload allocation that disadvantaged parents more often, particularly women (e.g. Eurofound, 2020; Mallett *et al.*, 2020).

The introduction of new tools to monitor employees in their homes during work hours added another facet to already challenging everyday lives (Aloisi and De Stefano, 2021; Vatcha, 2020; Blumenfeld *et al.*, 2020). Many employees needed to manage multiple demands on their time simultaneously; this included the need to learn new technologies, readjust to working in shared and private spaces at home and managing the challenges of both work and home demands (CIPD, 2020; Wang *et al.*, 2021). This triggered a cascade of undesirable consequences related to workflow interruptions and work–life conflict, which, in turn, can be seen to contribute to emotional exhaustion, job and performance dissatisfaction (Baethge and Rigotti, 2013; Cho *et al.*, 2020; Pachler *et al.*, 2018; Wang *et al.*, 2021). These circumstances are further compounded for many remote workers by the extensive use of work reminders issued by most electronic monitoring tools (Allyn, 2020). The introduction of continuous and often video-based monitoring, akin to a "pandemic panopticon" (Aloisi and De Stefano, 2021), has further increased remote workers' concerns about the invasions of one's privacy while working at home (Hern, 2020; Vatcha, 2020). This means that the introduction and intensive use of monitoring has created an intractable situation for many employees, which results in

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less employee voice and raises more concerns about being made redundant (Allyn, 2020; CIPD, 2020).

The outcomes of work intensification via high-performance work systems, which also includes electronic monitoring systems (see Shaffer and Darnold, 2020), on employees' wellbeing are well known (Chillakuri and Vanka, 2021; Wang et al., 2021). The most recent evidence gathered during the pandemic would suggest that employee monitoring increases the tendency towards presenteeism among on-site and remote workers, a trend that has now become a prominent concern for many remote workers over the world (e.g. Bathini and Kandathil, 2020; Bulińska-Stangrecka et al., 2021; Sinclair et al., 2020). Indeed, many employees in 2020 worked longer, not shorter, work hours (Bolisani et al., 2020; DeFilippis et al., 2020; Rees. 2020) and experienced a significant increase in work intensification due to home working (Mallett et al., 2020). Closely monitored employees often fear punitive consequences, report stress and emotional exhaustion (Baer et al., 2015; Tayani, 2004). Monitored employees often report high tension and anxiety (Indiparambil, 2019), but also negative attitudes and emotions (Shaffer and Darnold, 2020). The inevitable outcomes are an increase in errors that may delay projects further, leading to underperformance due to exhaustion, and the adoption of undesirable work practices due to fatigue (Cheng et al., 2020; Martin et al., 2018) as well as counterproductive work behaviors; see also Shaffer and Darnold (2020). As a result, "occupational health and medicine" has become an important issue in the pandemic work environment (Sinclair et al., 2020). Several interventions can be helpful to address the work-related stress symptoms of remote workers, including those who are monitored electronically. These are outlined in the next section.

Supporting monitored remote workers: practitioner-oriented suggestions

The pandemic has created a situation where the expertise of health professionals is more critical than ever before (Sinclair *et al.*, 2020). Prior to the pandemic, crisis management was rarely a priority in the HR development domain (Sarmah and Chaudhuri, 2021), a domain that has been criticized for failing to research and tackle many of the current issues relevant to the modern workplace (Bierema, 2020). Though many specialists and HR development practitioners were quick to respond to the pandemic with crisis management interventions (see approach by Arora and Suri, 2020), professionals in health and safety, occupational health and emergency medicine were and still often have more experience when it comes to the employment of both crisis and health-promoting interventions. As a result, many organizations seek advice on how to effectively implement health-promoting interventions and new workplace policies (Jeffery, 2020), in addition to pandemic-related support with health and safety initiatives in the workplace.

Several options exist for health management professionals, in collaboration with HR experts and managers, to improve the work experience and well-being of remote employees that are monitored electronically (see also Sinclair *et al.*, 2020; Wang *et al.*, 2021). The following sections outline different opportunities and approaches that can complement, and enrich, existing health management options and inform future people management practice.

Health-promoting and social support interventions

Given the adoption of digital apps and online employee assistance programs, there is moreover no shortage of options and resources available to support employees who work remotely when this is necessary (e.g. National Safety Council, 2021; Pierce *et al.*, 2021). During the pandemic in 2020 and 2021, many employers rolled out new health-promoting digital wellbeing programs for their remote workers (Wyatt, 2020). In addition, some recent research has informed specific guidance on behavioral interventions that can help to improve the health of remote workers (e.g. Bartmann *et al.*, 2022). As a result, many employers have adopted a

variety of different approaches during the pandemic, from online daily live workouts, "Ask the Trainer" Q&A sessions, "Workout of the Day" videos and weekly live well-being chats with health professionals (Wyatt, 2020). The increasing participation of employees also suggests that such interventions are effective in reaching many more employees than expected due to the flexibility of these new digital offerings (Wyatt, 2020). These trends suggest that it is worthwhile adopting such offerings in the future, particularly if the remote or hybrid mode of working is retained by many organizations to increase the accessibility of health promotion initiatives to remote workers in the future.

While the increased use of digital media for corporate well-being programs is one way to provide health-promoting interventions, the need for other interventions has emerged rather suddenly due to the often-unplanned, transition to home working. One such issue that rose to prominence was the emergence of musculoskeletal disorders reported by many remote workers (e.g. Jain *et al.*, 2021). While some of these issues may have existed prior to the pandemic, working from makeshift offices and ergonomically questionable setups led to a significant increase of such reports (Jain *et al.*, 2021; Ipsen *et al.*, 2021). Digital ergonomics training can now play a significant part in reducing such challenges by increasing employees' awareness of how their posture and work setting in the home will affect their health (Mojtahedzadeh *et al.*, 2021). This too is certainly the case for remote workers who are being monitored continuously as many of these will often sit for long periods of time and have been known to skip breaks to meet task requirements (in line with on-screen presenteeism, see also e.g. Bathini and Kandathil, 2020; Bulińska-Stangrecka *et al.*, 2021).

While employee monitoring can contribute to sedentary behavior due to the pressure to be present in front of various devices, these tools can also generate important insights for health professionals as well as managers. By involving health professionals in the analysis of monitoring data, employers can set appropriate performance standards that enable employees to get the breaks they need and to prevent musculoskeletal as well as visual strain that may arise due to repetitive movements, long-term sedentary work on screen and insufficient breaks (see also Bartmann *et al.*, 2022; Mojtahedzadeh *et al.*, 2021). Given that data is usually collected by electronic monitoring tools about break times and hours worked (and thus also screen time), many health professionals should be able to use this data to also identify potential target groups for interventions such as ergonomic training and corporate well-being programs aimed at improving workers' health and work practices (see also recommendations by Mojtahedzadeh *et al.*, 2021).

Another area of concern for many employers over the course of the pandemic was the increase in psychosomatic and mental health complaints, which are known to increase due to presenteeism and work intensification (Franke, 2015), afflictions which affect many remote workers subject to monitoring (Bulińska-Stangrecka et al., 2021). As a result, many employers revisited, revised and expanded their remote work practices, mental health programs and their work-life balance policies, many of which predated the pandemic (Lockwood and Nath, 2021). However, policies alone were insufficient. Instead, new approaches were needed (Diab-Bahman and Al-Enzi, 2020). Several suggestions were therefore put forward by health companies as well as health professionals. Raising awareness of mental health is an important first step for many employers to address this followed by meaningful action (e.g. by offering all employees mental health days). As noted by Lyra Health (2020), employee distress and anxiety may not be as readily apparent when everybody works remotely (Lyra Health, 2020). Surveys can provide important insights into the mental health status of the workforce, although it is often difficult to disentangle the impact of work and work conditions on mental health (CIPD, 2020). In addition, aspects such as loneliness, isolation, depression and insomnia are aspects that may not always be apparent to managers, although they seemed to increase among many workers during the pandemic (Bartmann et al., 2022; Jamal et al., 2021; Wang et al., 2021). It is therefore important that there is room for these discussions to occur and identify suitable interventions that can be rolled out to all employees, remote or on site.

In addition to offering designated mental health initiatives (such as employee assistance programs, access to in-house health professionals, etc.), another approach here is to offer resilience training to help employees to handle stress and identify effective strategies to cope (a good guide for managers and organizations is the guide by Cooper *et al.*, 2013). However, these approaches may not address mental health issues that are the result of lower perceived social support. The move to working from home reduced the frequency with which many remote workers were able to access social support interactions (Bilotta *et al.*, 2021), a critical buffer for stress (Wang *et al.*, 2021), while the move to the use of monitoring during all work hours further reduced remote workers' time and opportunity to access such social support confidentially or at convenient times during working hours. As a result, working conditions also need to be reviewed (see section below on "Rethinking work design"), as the mere focus on training and interventions aimed at remote workers ignores the role of context variables, such as working and performance conditions.

Managerial insights into and understanding of well-being

Managers play a critical role in terms of how they employ performance standards, offer individuals and teams social support and create opportunities for training (e.g. Jamal *et al.*, 2021). Above all else, the pandemic revealed the importance and necessity for supportive, health-promoting leadership behaviors (Liu et al., 2021). However, reports about some of the behavior of many managers suggested that they were not fully aware of the positive but also the negative impact they had on their teams (e.g. by enforcing strict performance standards and rolling out very intensive employee monitoring tools, see also critique by Aloisi and De Stefano, 2021). As noted in a recent study of remote workers, both the workload and monitoring being employed essentially function as demands, which end up increasing workhome interference and, in turn, undermined employee well-being (Wang et al., 2021, p. 45). As a result, some researchers noted that many managers need more awareness of how their leadership style, their performance monitoring and feedback practices can directly, as well indirectly (via their use of certain tools), impact employee performance, well-being and health over time (Spagnoli et al., 2020; Wang et al., 2021). This situation is often compounded by the fact that many managers are often unfamiliar with, ill prepared, or uncertain about their role in promoting workplace health (Justesen et al., 2017; Mellor and Webster, 2013). As the last two years have shown, health professionals can and do play an important role in educating employees and managers about time management, boundary setting, health breaks and coping strategies (e.g. Park et al., 2020; Sinclair et al., 2020; Wilkie, 2020; Zhou et al., 2020).

A number of interventions rolled out in different countries over the last two years of Covid-19 have demonstrated the importance of upskilling managers, leadership skills and managerial practices to support employees (Bartmann *et al.*, 2022; Dollard and Bailey, 2021; Jamal *et al.*, 2021; Koekemoer *et al.*, 2021). One example here is the importance of training managers to support work stress interventions. Dollard and Bailey (2021) tested the extent to which middle management training could increase the psychological safety climate, that is, the climate that will foster employees' psychological health and prevent harm due to workplace stressors. They observed that such training increased the psychological safety climate over four months during the pandemic in Australia (Dollard and Bailey, 2021).

Another example includes the role of managers in supporting relationship building during onboarding, during meetings and other interactions to increase bonding between people (Bartmann *et al.*, 2022). Role modeling behaviors, such as expressing gratitude, sharing experiences and disclosing, struggle can help remote workers build stronger relationships and enable them to exchange strategies on how to cope with certain challenges (Bartmann *et al.*, 2022). Such activities should not be delegated exclusively to HR and health

professionals; indeed, managers and leaders can also play an important role in setting up opportunities that allow employees to exchange experiences, learn from one another and promote well-being by fostering a sense of belonging and team cohesion (see also Wang *et al.*, 2021). This may be further facilitated when managers promote and support mindfulness or positive psychology interventions during work time to help employees cope with stress (Bartmann *et al.*, 2022; Dewe and Cooper, 2012).

Awareness campaigns should help managers to coach and support their employees more effectively when they experience stress. Given the popularity of monitoring tools, it is worth noting that many managers now also have access to tools that could allow them to track and analyze employee sentiment (Rees, 2020). This information can be helpful in generating ideas for timely interventions (Al-Hitmi and Sherif, 2018). Such insights can further help health practitioners to time their assistance programs ahead of expected stress peaks (e.g. key sales seasons or seasonal upturns in business operations). In addition, such data use can help managers identify specific target groups and time frames for specific interventions. As became apparent in 2020–2021, Covid-19 peaks occurred at different times in different countries. This also meant that many remote workers were experiencing different restrictions at different times (e.g. lockdowns). In international organizations, this is problematic, impacting the scheduling of interventions. Furthermore, as recent work has shown, cultural differences – both in terms of national and corporate cultures – can play a significant role in predicting the positive adjustment of workers to working from home (Biron et al., 2020), including those who are electronically monitored (Sherif et al., 2021). Awareness of these facets will help managers to identify the needs of their different remote working cohorts, which can, in turn, help them to select suitable models of intervention from mental health initiatives to social interventions.

Rethinking work design

The challenge of work design to support remote working during the pandemic has therefore become a more prominent concern for many employers (Kane *et al.*, 2021; Mojtahedzadeh *et al.*, 2021; Wang *et al.*, 2021). How work is designed can have a significant effect on the employee experience and thus over time, their performance, motivation, sense of belonging as well as their engagement and commitment (Tomczak *et al.*, 2018; Koekemoer *et al.*, 2021). Important work design factors that need to be considered when it comes to monitoring remote employees include self-direction and self-autonomy in one's work (Aloisi and De Stefano, 2021; Bathini and Kandathil, 2020; Jamal *et al.*, 2021; Wang *et al.*, 2021). Finding the right balance will be critical. Both decision latitude and psychological demands have been shown to effectively mediate the relationship between long work hours and psychological distress (Haines *et al.*, 2012).

When employers decide to implement monitoring, due consideration should be given to best practice that promotes performance (Tomczak *et al.*, 2018; Kalischko and Riedl, 2021) to avoid the "pandemic panopticon" becoming the new normal for remote workers (Aloisi and De Stefano, 2021). Many employers recognize the importance of good work organization, flexibility, autonomy, employee empowerment and control over work for better employee health (Dragano and Lunau, 2020). Yet, these aspects are often cast aside when new tools and work-from-home plans are hurriedly adopted, as was readily apparent during the rapid transit to remote work during the Covid-19 pandemic (see also Aloisi and De Stefano, 2021; Lockwood and Nath, 2021). This is often the case when electronic monitoring is brought in.

Health professionals and counselors understand which kind of control settings and mechanisms may inhibit rather than promote performance for different workers (see also Sinclair *et al.*, 2020). It is therefore advisable that employers are recommended to include these professionals in the implementation phases when adopting new monitoring tools. Such efforts will benefit employers as well as employees as is demonstrated in research that shows

us that when monitored employees are empowered, they are far less likely to experience the same negative effects of monitoring and will exhibit more positive attitudes and behaviors (Martin *et al.*, 2016). These steps, in combination with health-promoting initiatives in the workplace, increase the changes where employees maintain performance and report higher rates of well-being and morale over the short to long-term (see also Gorgenyi-Hegyes *et al.*, 2021).

Auditing working and performance conditions

Data analytics have become an important topic for many employers. By surveying employees and regularly using data analytics, health professionals and counselors can keep an eye on the pulse of an organization (Lockwood and Nath, 2021). Audits of work conditions and monitoring practices can be helpful (Lockwood and Nath, 2021) in order to gain a better understanding of remote workers' working conditions. Audits are assessments that capture hindering or performance promoting working conditions and assist in devising options to increase technological flexibility and identification of work stressors that can impact employees' adjustment (Blanchard *et al.*, 2009; Koekemoer *et al.*, 2021). Health professionals often have both the insight and tools to support such auditing activities and inform future initiatives by considering employee well-being effects that might arise because of future changes to working and performance conditions – both areas that need more attention.

The need to reassess performance standards is particularly obvious; these are often inherently connected to working conditions (or assumptions about these). While audits are not a new intervention, the need to gain a better understanding of employees' needs has risen in the last two years due to the many personal and situational strains that have arisen for many remote workers. Some employee groups were struggling to work effectively from home. For example, parents working from home while also caring for school age children or vulnerable family members (e.g. Anderson and Kelliher, 2020; Mojtahedzadeh et al., 2021). The rapid move to remote work meant that many employees had to cope with very different and variable working conditions. Many performance standards and rounds were set and designed before the pandemic (O'Connell, 2020; Wigert and Barrett, 2020). Yet, during the early stages of pandemic, many remote workers were subject to the "unforgiving expectations" of their employers (Mallett et al., 2020), with other authors questioning the "short-sightedness of personnel organization policies" (Aloisi and De Stefano, 2021, p. 11). Expecting high performance under extreme and challenging circumstances, such as pandemic-related lockdowns, created significant performance stress for employees, resulting in disengagement over time (O'Connell, 2020; Koekemoer *et al.*, 2021).

By getting feedback from both remote and on-site employees, health professionals can help to identify potential discrepancies regarding the use of monitoring tools for those working at home and those working on site. Such audits can also help to clarify the degree to which uniform performance standards – and performance values – are sustainable and achievable by employees (e.g. such as the tendency to identify and categorize employees into "high performers" or "talent" based on data or old metrics that are likely to be skewed and now taken out of context). This information can help managers to recognize and adjust prepandemic performance expectations and standards (O'Connell, 2020), in line with new situational demands and pandemic performance constraints that may not have been considered in performance rounds hitherto.

Audits can therefore deliver information that can be used to create both performance and work conditions that foster a more manageable balance and a better understanding of mutual needs for both employees and employers. This may be particularly important in the agile workplace as flexible working under Covid-19 has been shown to act as a buffering resource for some workers, while agile working practices can bring about more emotional exhaustion in employee cohorts that are impacted by Covid-19 demands (Koch and Schermuly, 2021). Health

professionals can often facilitate such negotiations when they have information from audits that point to certain preferred courses of action. Further, audits can help to identify those employee groups that face the most pressure, such as working parents who are more likely to be leaving their employment in favor of more supportive employers and flexible roles (e.g. Tyler, 2021). Given the increase in turnover reported across many industries and countries in 2021 due stress at work (Gallup, 2021), such audits may be a particularly important in reducing both turnover and stress through the implementation of timely interventions.

Work design is a moving target as situational demands in the workplace continuously change, be that due to pandemic, societal or a combination of technological changes. It is therefore imperative for organizations to really understand monitoring effects when they roll out new monitoring tools for their managers and workforce. Electronic monitoring is a multi-dimensional phenomenon where context and psychological variables interact in several ways (Ravid *et al.*, 2020). The introduction of new monitoring tools will most certainly require some readjustment, auditing and time to facilitate tool acceptance and ensure that all organizational members know how to appropriately use the monitoring, audits also allow employers to capture information about how new systems affect employees' performance and well-being (see also Wang *et al.*, 2021). Similarly, by identifying and matching cultural and leadership values to the monitoring approach taken (see Abraham *et al.*, 2019; Koekemoer *et al.*, 2021), employers can reduce the likelihood of conflict or lack of fit to established practices. Auditing thus helps employers to assess remote employees' experience and satisfaction with new monitoring tools.

Task-technology fit is a real concern for many employers. For one, continuous electronic monitoring affects how they tackle different tasks and the degree to which they dedicate time to specific tasks (Hill, 2020; Rees, 2020). Second, the introduction of monitoring increases the potential for continuous interruptions, which are known to increase employee exhaustion and irritation (Blanchard et al., 2009; Baethge and Rigotti, 2013), resulting in a feeling of disempowerment (Martin et al., 2016). This means that audits such as the ones proposed above could be an important mechanism to revise the current use case for specific monitoring tools and generate information that actively informs organizational policies. Indeed, having an accurate contextual awareness of the different working conditions, and how the EPM systems interact with these, is essential for setting new workplace guidance (see also Kalischko and Riedl, 2021). Many employers still need to create or update policies that inform employees' expected use of technology (e.g. to avoid presenteeism), guide the managerial use of monitoring tools and set healthy boundaries in order to promote a better work-life balance among remote workers (Jamal et al., 2021; McDaniel et al., 2021). The involvement of health professionals as employee advocates during the creation, and rollout of new workplace policies appears more and more essential (e.g. Diab-Bahman and Al-Enzi, 2020) to ensure that employees' needs and health are heard and appropriately considered in future workplace policies and interventions.

Conclusions

This viewpoint article provides an overview of findings regarding the effect of electronic monitoring on employee experiences and well-being before and upon the start of the pandemic (e.g. Wang *et al.*, 2021). While close supervision is nothing new at work, the use of new digital tools on employee devices means that in many organizations, employer interests and employee needs at work are set to collide on several fronts. The potential impacts on employees' work experience, stress, performance but also counterproductive behavior at work further highlight the multiple facets that converge in relation to how performance is monitored (Laird *et al.*, 2018; Martin *et al.*, 2016; Yost *et al.*, 2019; Tomczak *et al.*, 2020).

In addition, future research could add significant insights into new workplace dynamics. More recent evidence that emerged during the pandemic in 2020 provides a starting point to understand how different situational and personal circumstances create new stress and workplace health challenges for many employees working remotely, often from a shared home. These insights generate several new constellations of stress factors. The sudden and often unplanned move to remote working from shared homes has created a maelstrom of challenges for employees (Mojtahedzadeh *et al.*, 2021), a situation that is compounded by the increasing use of electronic monitoring tools, spillover effects and rapid organizational changes (Welter and Ensslin, 2021; Wang *et al.*, 2021).

At the same time, it is also clear that some new questions arise due to combination of knowns and new unknowns. For example, the effects of electronic monitoring on on-site employees at work are well known. However, we are still learning more about the impact of electronic monitoring on remote employees (especially those working from home) during the current pandemic (e.g. Allyn, 2020; Aloisi and De Stefano, 2021; Bathini and Kandathil, 2020; Gustavsson and Söderlund, 2021; Hill, 2020; Passetti *et al.*, 2021; Vatcha, 2020; Wang *et al.*, 2021). Furthermore, the connection of remote work to current workplace health management has largely only been discussed tangentially by professional bodies, practitioners and various news sites (with exception such as Wang *et al.*, 2021).

As a result, there is a significant need for more research on the topic of workplace health management in different workplace settings that are remote, monitored and overlap with one's home environment. That said, health and other professionals can employ a number of practices and utilize different approaches (e.g. work design) to support employees via HR and health-promoting activities even in challenging times. Given this emerging new body of literature (such as Arora and Suri, 2020; Bartmann *et al.*, 2022; Bilotta *et al.*, 2021; Chillakuri and Vanka, 2021; Dollard and Bailey, 2021; Gorgenyi-Hegyes *et al.*, 2020; Wang *et al.*, 2020), health and HR practitioners now have a number of resources to help their organizations to create positive, performance-enhancing, well-being promoting work experiences in the future.

Key insights

- (1) The pandemic increased the adoption of electronic monitoring tools for remote workers in many professions and countries.
- (2) Recent evidence suggests that the use of employee monitoring tends to indirectly reduce the well-being of remote workers by increasing the likelihood of conflict, longer hours and spillover effects.
- (3) The effects of employee monitoring are ameliorated when employees have more autonomy, decision latitude and input into how monitoring is rolled out and implemented.
- (4) The use of data generated by employee monitoring tools may be a useful resource for managers and health professionals to identify and promote well-being-oriented work practices, monitor working hours and identify issues around and predictors of presenteeism, overwork and exhaustion.
- (5) The potential levers to address well-being issues include the adoption of more healthpromoting leadership behaviors, health and social interventions, increased managerial awareness of factors affecting employee well-being and organizational reviews of work design (including employee monitoring approaches) and work policies in collaboration with health professionals.

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