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## **Abstract**

### **Purpose**

Young adults have been particularly adversely affected by COVID-19 related disruptions, especially in relation to industries with an over-representation of young adults. This report discusses findings from survey data from young adults who reported poorer mental health comparative to older generations prior to the pandemic. Drawing on international literature and our research findings, we propose recommendations for rebuilding the workplace post-pandemic to support young adult's mental health.

### **Design and methodological approach**

Data from 1,999 respondents (aged 16-29, 30-44, 45-59 and 60+) from 200 organisations in the United Kingdom were sought in relation to workplace wellbeing and mental health through a 15-item multiple choice online survey. Overall, 17% of the sample were senior management, 31% junior management, 37% in non-management roles and a further 15% stated 'other'. Exploratory quantitative analyses were undertaken to assess differences in responses to questions between age groups.

### **Findings**

Participants in the 16-29-year-old age group were more likely than any other age group to report that work adversely affected their mental health. They reported their mental health challenges influenced their performance at work, that they had witnessed colleagues' employment negatively influenced by mental health challenges, and they felt more comfortable citing physical health challenges for absence over mental health difficulties.

### **Originality**

COVID-19 related disruptions meant a large-scale move to remote working for many people. As we return to physical workplaces, we have an exciting opportunity to reform and improve the status quo. Our findings in relation to the mental health of young adults highlight key risk factors that need to be addressed.

**Key words:** Young adults, mental health, improving workplaces, wellbeing, quantitative

## **Rebuilding the Workplace to Promote Young Workers' Mental Health**

Work-related stress is a serious occupational health problem that has been subject to a substantial body of research in recent years (Harvey *et al.*, 2016). Due to the amount of time people spend at work, the working environment can have a strong impact on physical and mental health (Aristotelis *et al.*, 2015). Beyond the negative impacts of workplace stress on the health of employees, stress at work can adversely affect companies in terms of productivity and absenteeism (Ippoliti *et al.*, 2017). Employers and workplaces have both the opportunity and responsibility to promote the wellbeing of their workforce, for both psychosocial and economic reasons (Tarroet *et al.*, 2020). Due to the interrelated nature of mental health difficulties in the working age population and workplace, indirect costs to employers of not supporting employees can be significant (Gaillard, Sultan-Taïeb, Sylvain and Durand, 2020).

According to the most recent analytics in the United Kingdom (UK; Deloitte, 2020), the cost of mental health difficulties to employers is rising. The cost of mental health difficulties to employers in 2019 causing absenteeism, rapid turnover and decreased productivity was £45 billion. Investment in health promotion interventions can be highly beneficial as employers are likely to see a £5 return for every £1 spent on mental health interventions, making mental health promotion initiatives a benefit to all (Deloitte, 2020). However, stigma is often a barrier to taking part in such interventions. Therefore, the primary intervention should be to reduce stigma within organisations to remove barriers to help-seeking for employees, before rolling out health promotion interventions for individuals who may not feel able to opt-in (Nogues and Finucan, 2018). Importantly, employees with experience of mental health difficulties can hold unique skills and qualities that can be particularly helpful at work (Hennekam, Follmer & Beatty, 2021). For example, the experience of overcoming mental health difficulties and engaging in therapy can increase self-awareness, empathy, effective coping strategies, and enhance personal resilience (Roe, et al., 2010; Wan Mohd Yunus, Musiat, and Brown, 2018). Therefore, employers should focus upon supportive and inclusive employment practices to enhance the retention of a skilled and resilient workforce.

Age is also a key demographic variable that can play a vital role in experiences of work-related stress. A meta-analysis of over 800 articles demonstrated older workers generally report higher levels of job satisfaction and lower work-related stress, and recommended

research examines the role of age group more closely across international organisations (Ng and Feldman, 2010). For example, older managers in a Hong Kong based study appeared to experience lower levels of stress than their younger counterparts (Siu et al., 2010). In contrast, research with nurses in the UK has identified nurses later in their careers reported higher levels of work-related stress and poorer psychological health than younger nurses (Kirkaldy and Martin, 2000). However, a recent Ghanaian study with nurses and midwives found younger age and perceived organizational support important influences upon emotional exhaustion (Lartey *et al.*, 2021). Lartey argues that older professionals can draw on greater professional and personal experiences to help buffer against emotional exhaustion from work. Other studies have reported an inverted U-shaped relationship with age and stress, with middle-aged workers experiencing the highest levels of stress (e.g. Rauschenbach and Hertel, 2011). Possible reasons for these varied trends include professional trajectories, that workers in their mid-life may typically have more responsibilities in their work and personal life roles (i.e. raising a family, caring for aging relatives, etc.), and multiple simultaneous occupations and caring responsibilities typically impact women more than men (Kelle, 2018). During the pandemic, it has also been suggested that the additional cognitive demands, requirements and invasiveness of working through technology in the home added to tensions for caregivers working from home (Ghislieri *et al.*, 2021).

A recent international scoping review identified that the finance, education, healthcare and technology sectors were most generous in terms of supporting a caregiver-friendly workplace; with support services, paid leave, and flexible work arrangements helpful mechanisms for caregivers (Lorenz *et al.*, 2021). It may be particularly productive to focus research around vocational and artistic professions that are associated with a passion or devotion to one's work as people described as 'work-devoted' demonstrated relatively positive psychological and physical health in a recent work investment study (Snir and Harpaz, 2021). Overall, whilst caution should be embraced around generalisations, age clearly plays a role in work-related distress, although further research is warranted to explore the nuanced mechanisms that may affect age groups across professions and workplaces as there are clearly important differences across sectors and professions.

### **Mental Health Risk Factors for Young Adults**

Risk factors associated with the COVID-19 pandemic such as social isolation, unemployment, housing and income uncertainties, and work-related stress have particularly affected young adults (Carbone, 2020). Anxiety, depression, poor sleep, substance reliance and suicidal thoughts have risen for 18-24-year-olds during the pandemic (Panchal *et al.*, 2021). Further, the move to remote working so early on in one's career has been cited as an additional stressor for young people (Panchal *et al.*, 2021). Whilst it is too soon to know all of the mechanisms that cause remote-working distress, it is reasonable to hypothesize that one reason remote working may bring additional stressors is a loss of implicit, experiential learning opportunities through observation and scaffolded learning that often supports early career workers in physical workplaces (Miller, 2019; Taylor and Hamdy, 2013), practically and emotionally.

Additionally, demands including quantitative workload (Pulkki-Ranack *et al.*, 2016), emotional strains (Bonde, 2008), interpersonal conflicts at work, organisational constraints (Baka, 2015), and organisational injustices (Theorell *et al.*, 2015) have all been identified as predictors of depressive symptoms. Workplace bullying in particular has been connected to increased workplace stress, lower levels of occupational health and reduced wellbeing (Yoo and Lee, 2018). Young women with lower self-esteem may be most likely to experience workplace bullying (López-Cabarcos, Vázquez-Rodríguez & Gieure, 2017). Another risk factor correlated with workplace stress is long working hours, which affect the work-life balance. However, control of one's diary and greater flexibility in relation to working tasks reduces work-related stress (Hsu *et al.*, 2019). Other commonly cited risk factors include role ambiguity, lack of autonomy and a lack of support from supervisors (Arcangeli, Girogi, Montali & Sderci, 2019). In some professions, such as in academia (Susi *et al.*, 2019) and medicine (Morrow *et al.*, 2014), long, unpredictable and unsociable hours are often expected from those early on in their careers and seen as part of the early career culture. In other industries, such as hospitality where young people often form the majority of the workforce, long unsociable hours and a variety of other factors (Ariza-Montes *et al.*, 2019) have also been found to lead to reduced quality of life (Roan and Diamond, 2018). Consequently, it seems young adults are exposed to more risk factors and fewer protective factors due to their age and career stage.

Existing mental health challenges also influence people's experiences of their work. Importantly, around one in five people aged 16-24-years and one in three young women aged 16-24-years in the UK report mental health difficulties, such as anxiety and depression (ONS, 2020). The pandemic has seen mental health challenges increase specifically for women, young adults (18–29 years), people from socially disadvantaged backgrounds, and those with pre-existing mental health difficulties (Connor *et al.*, 2020). Clearly there are multiple factors that contribute to experiences of work-related stress and impact employees mental health and wellbeing, including sociodemographic variables (e.g. age, gender, job level) and job-specific variables (e.g. job demands, job control, job satisfaction, support from colleagues and supervisors).

### **Coping with Challenges**

The added and amplified risk factors that have emerged through the pandemic mean it is even more essential we recognise effective coping strategies and find opportunities to promote health coping within and outside of work. *Coping* is defined as the cognitive and problem-solving behaviours we employ to tolerate, alleviate and reduce distress (Lazarus & Folkman, 1984). Developing the agency and resources to choose effective coping strategies can reduce the impact of work-related stress and the occurrence of stress-related diseases (Bhagyalakshmi *et al.*, 2012).

Workplace wellbeing interventions have adopted varying strategies with fluctuating degrees of success. For example, interventions that have targeted employee resilience have shown promise in reducing symptoms of stress and anxiety (Kunzler *et al.*, 2020). Resources and interventions that have been linked to having the potential to reduce workplace stress include mindfulness based cognitive therapy (Hente *et al.*, 2020), yoga, peer supervision and formal debriefing in some scenarios (Jarden *et al.*, 2019), with some evidence from healthcare settings suggesting that participation in workplace wellness activities can reduce workplace stress (Ledikwe *et al.*, 2018). However, the heterogeneity in interventions and evaluations means it is difficult to draw meaningful conclusions on efficacy.

Research conducted during the pandemic has demonstrated that the home-based workplace has intensified work for many, with online presenteeism cited as a stress factor, and employment insecurity and poor adaptation to new ways of working potentially affecting

younger adults with greater severity (Adisa *et al.*, 2021). As offices and physical workplaces begin to welcome back their employees following waves of COVID-19 and related disruptions, we have an exciting and important opportunity to consider how we can create something better than we had before. Young adults have been particularly adversely affected by the pandemic socially, emotionally and economically. Therefore, workplaces and professional bodies have an imperative role to play in improving working conditions for these young adults, which will benefit all in the long-term.

The current study aimed to identify self-reported factors that influence people's wellbeing in the workplace across a range of settings and age groups, with a particular focus upon young working age adults. Greater understanding of these mechanisms could inform professional practice and policy recommendations, multisystemic support structures, and guide workplaces in recreating the workplace post-pandemic for the benefit of all, particularly those at an early career stage who have generally been most adversely affected.

### **Method**

#### *Design*

Data was collected in the UK in October 2019 through a 15-item multiple choice online survey by GingerComms. GingerComms is a survey-led big data company that operates across multiple media platforms in the UK and globally. The target sample size for the data collection was 2,000. In total, 2,011 UK respondents took part. As the data was acquired through market research and not originally designed for academic research purposes, an exploratory statistical research design was adopted, focusing on the impact of age group upon workplace stress.

#### *Participants*

2,011 individuals from 200 UK based organisations responded to the online questionnaire, self-selecting take part Participants were recruited from all areas of the UK and demographic data was provided in relation to age, gender, working role, geographical location and industry. Just over half of the sample comprised of females (N =1051). The majority of participants were aged 30-44 (N = 832), with about a quarter aged 16-29 (N = 544) and another quarter comprising of those aged 45-59 (N = 524). The smallest age group were

those aged 60 and over (N = 111). In terms of workplace position, 17% of the sample were senior management, 31% junior management, 37% were in non-managerial roles, and a further 15% stated 'other'. London was reported as being the nearest city for most participants (13.03%). The next highest number of participants reported their nearest cities as Brighton (9.20%), Manchester (8.55%) and Birmingham (8.25%). The cities with the lowest number of participants were Stoke on Trent (0.90%), Belfast (1.74%), Norwich (2.19), Leicester (2.69%), Liverpool (2.83%), and Sheffield (2.88%). The majority of participants reported working in retail/wholesale trade (12.53%), healthcare (10.59%) and education (8.8%).

### *Measures*

The survey included items regarding demographic information including, gender, age, occupation, work position and location of work. The 15 multiple choice items were designed by GingerComms, each relating to an aspect of workplace support and mental health (Table I). For the purposes of data analysis, eight of the 15 questions were assessed for differences between age groups, while the remaining seven questions were not suitable for inferential analysis.

<INSERT TABLE 1>

### *Analytic Approach*

The data set was anonymised and then securely transferred to the research team for analysis. Following the cleaning and cataloguing of the data set, statistical analyses were undertaken. Participants provided informed consent to take part through GingerComms and ethical approval for the transfer and analysis of data was gained through the Research Ethics Committee of the host University.

Initially, exploratory analyses of the survey questions were undertaken to understand the effects of age on participant responses. N=12 were removed from the analysis as these participants responded to 'occupation' as 'wife/husband' so there was ambiguity as to the 'workplace' they reported on. Perhaps of interest, this group appeared to be the most dissatisfied with their 'workplace' and 'employer' overall. However, for the purpose of clarity, their data was removed prior to the final analysis. Consequently, data from 1,999 participants



formed the final analysis. Participants who answered 'prefer not to say' or left the response blank were also removed from the analysis for each individual question. Data was analysed using SPSS v26, non-parametric tests (Kruskal-Wallis) were used due to the non-parametric and ordinal nature of the data, to assess differences in responses to questions between age groups. Results were adjusted for multiple comparisons (Bonferroni) and alpha levels are reported as .05.

Exploratory analyses were run based on participant data from the most socioeconomically deprived and wealthiest locations, but no significant differences were found in responses. Differences between professional groups and gender were also non-significant (analyses provided as supplementary material). The most significant indicator for how people experienced their mental health in the workplace was age group.

## Results

Table II reports results from the eight questions (see Table I) , exploring differences in age group responses.

<Insert Table 2>

Significant differences in response to Q2 (*having a mental health issue that impacted participants performance at work*) was observed between the four different age groups (Table II). Dunns Post hoc pairwise comparisons indicated that 16-29-year olds reported significantly higher impact of mental health on job performance than 30-44-year olds ( $z = 129.24$ ,  $SE 30.27$ ,  $p < .001$ ), 45-59-year olds ( $Z = 240.07$ ,  $SE 33.57$ ,  $p < .001$ ), and those aged 60+ (*difference*  $z = 391.04$ ,  $SE 57.17$ ,  $p < .001$ ). Additionally, 30-44-year olds reported higher impact than those aged 60+. ( $z = 261.80$ ,  $SE 55.50$ ,  $p < .001$ ) and those aged 45-49-year olds ( $z = 110.84$   $SE 30.64$ ,  $p = .002$ )

Significant differences were also observed in response to Q4 (*called in sick because you felt mentally low/unwell but told your work you were physically unwell*) between the four different age groups (Table II). Dunn post hoc pairwise comparisons indicated that 60+-year olds reported significantly less instances of reporting physical ill health in place of mental health issues than 45-59-year olds ( $z = 166.31$ ,  $SE 57.84$ ,  $p = .024$ ), 30-44-year olds ( $z = 319.95$ ,  $SE 55.97$ ,  $p < .001$ ), and those aged 16-29 ( $z = 372.63$   $SE 57.64$ ,  $p < .001$ ). Additionally, 45-59-

year olds reported less instances than those aged 30-44 ( $z = 153.64$ ,  $SE 30.85$ ,  $p < .001$ ) and 16-29-year olds ( $z = 206.32$   $SE 33.78$ ,  $p < .001$ )

Results for Q5 (*feeling mentally unwell as a result of or made worse by work*) also revealed significant differences between the age groups surveyed. Dunn post hoc pairwise comparisons 60+-year olds reported statistically significantly lower reports of feeling mentally unwell than 45-59-year olds ( $z = 175.34$ ,  $SE 56.52$ ,  $p = .012$ ), 30-44-year olds ( $z = 230.50$ ,  $SE 54.69$ ,  $p < .001$ ), and those aged 16-29 ( $z = 281.10$   $SE 56.32$ ,  $p < .001$ ). Additionally, 45-59-year olds reported less instances than those aged 16-29-year olds ( $z = 105.76$   $SE 33.01$ ,  $p = .008$ ).

Lastly, differences could also be observed between age groups for Q7 (experiences of a colleague made redundant or demoted due to mental health reasons). Dunn post hoc pairwise comparisons indicated that those aged 16-29-years old had higher levels of experiencing colleagues being pushed out due to mental health than those aged 45-59-year olds ( $z = 204.01$ ,  $SE 31.75$ ,  $p < .001$ ) and those aged 60+ ( $z = 271.65$ ,  $SE 54.17$ ,  $p < .001$ ). Furthermore, those aged 30-44-year olds also had higher levels of experiences than those aged 45-59-year old ( $z = 150.83$ ,  $SE 28.99$ ,  $p < .001$ ) and those aged 60+ ( $z = 218.47$ ,  $SE 52.60$ ,  $p < .001$ ).

## Discussion

In summary, younger participants reported their mental health could be adversely affected by their work and younger participants were more likely to report a physical health complaint when they were absent from work over a mental health issue, even if the true cause was a mental health related challenge. This large-scale survey sought to identify the role of age group at work and has highlighted that the mental health of young adults is both affected *by* their work and affects them *in* their work, significantly more so than their older colleagues. Participants in the 16-29-year-old age group (emerging/young adults, Dovey-Pearce *et al.*, 2005) were more likely than any other age group to report that they had known colleagues who had been made redundant or demoted as a result of poor mental health. Finally, older age was found to be a protective factor against the impact of existing mental health challenges on work performance, perhaps due to an interplay of work-related experience and learnt copings strategies over time. It would be helpful for qualitative and mixed methods research to explore mechanisms that support older people in relation to their

mental health at work to see what mechanisms could be translated to younger age groups to support their wellbeing. Mentorship and buddying programmes could also be helpful to this end.

Research conducted during the pandemic has highlighted that those with a lower household income are more likely to experience higher levels of stress (Panchal, et al., 2021), which is another risk factor for young people at an earlier career stage who are often on lower incomes than their older colleagues. Additionally, the comprehensive review of Kniffin, *et al.* (2021) cite Murthy's work (2017) that recognised loneliness was an epidemic for young people long before the pandemic emerged, which has been compounded by being furloughed and working from home during COVID-19 disruptions. Workplace loneliness has been associated with poorer workplace relationships and performance (Ozce-lik and Barsade, 2018). Research prior to the pandemic suggests people aged younger than 25-years and those aged over 65-years demonstrate the highest levels of loneliness, with young adults experiencing loneliness at particular risk of poor physical health and loneliness (Victor & Yang, 2012). Post-pandemic working environments will need to provide opportunities for good quality social interactions, which are beneficial for health (Mogilner *et al.*, 2018). Consequently, ensuring workplaces, spaces and meetings offer meaningful opportunities for positive social interaction for young people is particularly important as workplaces respond to the impact of COVID-19.

The social, economic and environmental repercussions of COVID-19 will change how we work in future, perhaps leading to blended virtual and physical working practices long-term (Kniffin, et al., 2021). From a strengths-based perspective, young people could be well placed to support this shift in terms of technical competencies. However, we also need to be mindful to nurture known protective factors for wellbeing at work such as control of one's diary, flexibility over working hours (Hsu *et al.*, 2019) and avoid known stressors such as role ambiguity, lack of autonomy and a lack of support from supervisors (Arcangeli, Girogi, Montali & Sderci, 2019).

It has been proposed that workplaces are well placed to contribute to the prevention of mental health difficulties during and after COVID-19 through evidence-based workplace wellbeing programmes (Carbone, 2020). Although stigma can be a barrier to accessing some interventions at work (Nogues and Finucan, 2018), the existence of COVID-19 could be a

facilitator to engagement as to varying degrees, everyone has lived experience of the pandemic, which could act as a leveller to reduce stigma surrounding related distress. Further, it is recognised that frontline health and social care workers who have experienced both the personal and professional stressors of the pandemic, and quite possibly secondary traumatic stress from supporting vulnerable others, should be prioritised for mental health support at work (Torales *et al.*, 2020). However, we can transfer much of what is known to be helpful and beneficial for health and social care workers to other settings as well. For example, to feel valued, a sense of belongingness, and to feel emotionally supported at work (Parry, 2017) are human needs, not necessarily specific to certain caring professions. Further, multisystemic approaches and organisation wide responsibility for staff support are likely to be more effective than tasking individual managers or managerial levels with staff wellbeing (Parry *et al.*, 2021).

Although this study offers novel data from a relatively large sample, there are a number of limitations and areas for further study. The questions posed to participants were developed by a market research company and the research team would recommend future surveys do not pose questions with more than one part. For example, *'Have you ever felt mentally unwell (e.g. stressed, anxious, depressed) either as a result of, or made worse by, your job?'* could have been posed as two questions for further clarity and nuance of experience: (1) *'Have you ever felt mentally unwell (e.g. stressed, anxious, depressed) as a direct result of your job?'* (2) *'Has your mental health (e.g. feeling very stressed, anxious, depressed) been made worse by your job?'* Additionally, the survey did not request information about existing mental health difficulties or diagnoses so we cannot be sure how representative our findings are for the general population, which limits transferability. However, it is encouraging that our findings align contextually with research around workplace wellbeing and mental health at work. It would be helpful if future research could explore some of the trends we have identified qualitatively to develop a more in-depth and nuanced understanding of mechanisms underpinning work-related health and some of the intersectional factors that may influence particular professions, such as female police officers reporting a lack of social support in a male dominated profession (Baka, 2020). As such, future research should seek to establish the sector in which participants work to allow for further

sub-group analyses. Finally, opting for validated and reliable measures of wellbeing constructs would also be beneficial to draw comparisons across datasets over time.

To conclude, we recommend that a culture of social and professional learning support, validation and reassurance could help young people in the workplace recognise and report their mental health struggles so they can receive support and open communication channels with their support structures. Further research is needed to inform mechanisms to operationalise support for younger workers in particular, which are likely to vary enormously across professions and industries. Overall, our findings and the wider literature combine to suggest workplaces were not supporting the wellbeing or optimum productivity of young people before the pandemic. Young people have disproportionately experienced further adversity during COVID-19. Therefore, change is needed to support them in the near and current future throughout a period of readjustment and reform. Communication from organisational leadership also needs to recognise the responsibilities of organisations to create a supportive working environment, rather than expecting employees to be relentlessly resilient in the face of increasing pressures and uncertainty. Finally, providing opportunities for experiential learning with experienced colleagues, good quality social interaction amongst peers, promoting a culture of positive self-esteem and flexible working for people with caring responsibilities in particular could transform workplaces into wellbeing spaces, nurturing creativity, productivity, resilience and the retainment of talent, skills and implicit knowledge.

### **Key Learning:**

- Further research is warranted to explore the nuanced mechanisms that may affect age groups across professions and workplaces to learn how coping mechanisms and systemic support may need to change to reflect age-specific needs.
- Mental health challenges have increased specifically for women, young adults, people from socially disadvantaged backgrounds, and those with pre-existing mental health difficulties during the pandemic. Organisations should consider targeted and proactive support for these groups in particular during the recovery period from the pandemic.
- Loneliness is common amongst young adults and detrimental to physical and psychological health. Therefore, workplaces should carefully consider how to offer opportunities for good quality social interactions and experiential learning through

senior colleagues upon the return to the workplace, particularly for young people who may have changed jobs and lack transferable skills and confidence.

- We can benefit from a knowledge mobilisation approach in three key areas:
  1. nurture known protective factors for wellbeing at work such as control of one's diary, flexibility over working hours, clear boundaries and expectations;
  2. avoid known stressors such as role ambiguity, lack of autonomy and a lack of support from supervisors;
  3. we can transfer much of what is known to be beneficial for health and social care workers to other settings. For example, to feel valued, a sense of belongingness, and to feel emotionally supported at work. Ultimately, multisystemic approaches and organisation wide responsibility for staff support are likely to be more effective than tasking individual managers or managerial levels with staff wellbeing.

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