

Do you prefer logging in? The relevance of the experience of telework for wellbeing

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Do you prefer logging in?

The relevance of the experience of telework for wellbeing

Abstract:

Purpose: The swift and unanticipated integration of telework by European companies due to COVID-19 gave rise to distinct features of telework. These attributes underscore the necessity of analysing its impact on employee wellbeing. This paper explores how telework experiences impact wellbeing by influencing work—life balance and job satisfaction. Additionally, it investigates whether employee preferences for telework are a contributing factor.

Design/methodology/approach: Based on data provided by the 'Living, working and COVID-19' e-survey, structural equation models (SEM) were used to test the hypotheses. Specifically, a multiple mediation approach and path analyses were applied to measure the relationship between the variables under study. The moderating role of preference for telework was also tested.

Findings: Key findings support that telework experience has a positive impact on wellbeing, both directly and indirectly, particularly via work–life balance. Although preference for telework strengthens the relationship between telework experience and wellbeing, it does not enhance the predictive power of the mediated model.

Originality: COVID-19 as a sudden environmental constraint forced the implementation of telework without proper planning and training. Thus, how employees experience this major change in their working conditions has affected their wellbeing. The present paper contributes to clarifying how the proposed variables relate under such constraints.

Practical implications: These results have important implications from an applied perspective. Human capital departments as well as managers should design telework programmes to create a positive experience since this will ensure a positive influence on the perception of work–life balance, job satisfaction and wellbeing.

1. Introduction

Telework, remote work or telecommuting can be defined as work performed by through applying information and communication technology (ICT; smartphones, tablets, laptops and desktop computers) away from the employer's premises (Eurofound and International Labour Organization, 2017). The two main features that define telework are the site where the work is performed and the technology through which it is carried out.

Telework originated in the California information industry in the 1970s and 1980s in an attempt to reduce commuting time (Messenger, 2019) and has gradually expanded over the decades to other countries and industries. Therefore, a rapid increase in the implementation of telework was expected related to technological progress (Alexander et al., 2010), environmental reasons (Sardeshmukh et al., 2012) and job flexibility (Felstead et al., 2005). However, that prediction never materialised so that the expansion of telework turned into an unrealised promise (Aguilera et al., 2016). Only with the arrival of the SARS-CoV-2 (COVID-19) virus in 2020 did telework become a reality.

Even though telework is a complex intervention that requires technology and, more importantly, individual and organisational cultural change (Madsen, 2003; Mayo et al., 2009), almost 40% of the European workforce began to telework fulltime in virtually no time at all because of the pandemic (Eurofound, 2020) in what was called the 'telework boom'. Belzunegui-Eraso et al. (2020) referred to this rapid adoption as a 'massive experiment' of telework in the pandemic, and López-Peláez et al. (2021) underlined the role of COVID-19 as an accelerator of this change.

Figure 1 shows the percentage of employees teleworking from home in July 2020. Belgium (66.4%), Denmark (57.3%) and Italy (53.4%) have been leading the implementation of telework in Europe. In 2019, before the pandemic, only 11% of

European workers regularly worked from home – a percentage that had been quite constant since 2009 (Eurostat LFS, 2020). After the rise of teleworking during the pandemic, the number of teleworkers was reduced, although it remains higher than before the pandemic. In 2021, the percentage of employed individuals who usually or sometimes work from home was 24.4% (Eurostat LFS, 2022).

Insert Figure 1 around here

In the pandemic, telework presented specific characteristics. First, it was implemented without planning so that telework spaces were not adapted, and it was conducted from home (Belzunegui et al., 2020). Second, as schools were shut down, work—life interaction was difficult because children were also at home (Domenico et al., 2020; Fana et al., 2020). Third, companies did not have sufficient technological resources to face the challenges derived from working remotely (Belzunegui et al., 2020). In many cases, the employees were the ones who provided the technological media because they appreciated the opportunity to keep their jobs instead of occupying the unemployment lists (Abulibdeh, 2020).

Telework has been studied from various perspectives that emphasise the individual, organisational or societal standpoints (Greer and Payne, 2014). These studies have also reported positive and negative findings in relation to employee attitudes. On the bright side, telework contributes to work—life balance (Fonner and Roloff, 2010); increases job satisfaction and organisational commitment (Kelliher and Anderson, 2010); improves performance (Martínez-Sánchez et al., 2007a, 2007b); reduces at a minimum short-term absenteeism (Possenriede, 2011); attracts and retains talent (Eversole et al., 2012); and increases wellbeing (de Macêdo, 2020). Other studies have underscored its negative effects on employees since it decreases work—life balance via blurring boundaries

between work and non-work time and space (Hammer et al., 2005); reduces job performance (Beauregard and Henry, 2009) and work engagement (Sardeshmukh et al., 2012); and increases stress levels (Mann and Holdsworth, 2003; Raghuram and Wiesenfeld, 2004). Meta-analytical and other important studies have shed some light on the impact of telework on wellbeing and have found small but beneficial effects on work—life interaction, job satisfaction, wellbeing (Butler et al., 2009; Cohen et al., 2007; Gajendran and Harrison, 2007; Grant et al., 2013), productivity and organisational commitment (Martin and McDonnell, 2012). However, it remains unclear how the rapid generalisation of telework without planning and awareness programmes during the pandemic affected employee cognitions (i.e., work—life interaction), attitudes (i.e., job satisfaction) and states (i.e., wellbeing).

In this context, the main contribution of this research is to examine the impact of the sudden implementation of telework during the pandemic on employee wellbeing, work—life interaction and job satisfaction. By analysing the effects of telework, the study sheds light on the benefits and drawbacks of this work arrangement and provides insights for companies to improve the implementation of telework. The research considers the specific characteristics of telework during the pandemic, such as the lack of planning and the challenges of work—life interaction due to school closures. By exploring the relationship between telework and employee attitudes and cognitions, the study provides a comprehensive analysis of the impacts of telework on individuals and organisations. The findings could help companies design programmes to enhance telework experiences and achieve the benefits of this work arrangement while minimising its negative effects.

2. Theoretical background

2.1 Telework, work-life interaction, job satisfaction and wellbeing: direct relationships

From a job design perspective and based on the job demands and resources theory (JD-R. Bakker and Demerouti, 2017), telework is a job-contextual condition that changes how and where a job is performed without altering the job content or the employee's role (Neri, 2017).

Job satisfaction is a positive job attitude that is generally studied as an outcome or mediator of a more distal result, such as wellbeing (Rothmann, 2008). Job satisfaction comprises the cognitive evaluation and the affective state associated with the overall work experience and/or with important job dimensions for the employee (Armstrong, 2006). Job attitudes shape employee behaviours both in and outside the organisation. Current definitions of work–life interaction consider it to be the sum of subjective affect, efficacy and involvement as instrumental aspects for experiencing balance between work and non-work domains (Casper et al., 2018, p. 5). If employees can manage the requirements derived from their jobs and lives, then they will perceive a positive work–life interaction.

Wellbeing is generally characterised based on two perspectives. The eudaimonic perspective underscores the degree to which an employee is fully functional at work (Ryan and Deci, 2001), while the hedonic perspective defines it as happiness and life satisfaction (Dagenais-Desmarais and Savoie, 2012). From a general perspective, wellbeing can be defined as the equilibrium between an individual's resources and the challenges he or she has to deal with on a regular basis (Dodge et al., 2012).

For some researchers, telework is a job resource (Kreitner and Kinicki, 2013; Van Steenbergen et al., 2018), that is, an organisational characteristic that is functional in

achieving work goals and managing employee job demands (Bakker and Demerouti, 2017). For others, it operates as a job demand (e.g., Mendonca et al., 2021), that is, a job characteristic that requires physical and/or mental effort from the employee (Bakker and Demerouti, 2017). Thus, if employees address telework as a demand (e.g., higher workload, blurred timetables), especially without the resources to deal with it (e.g., insufficient technology, lack of training), their telework experience will be negative, and this negative effect will be extended to work-life interactions (Carvalho and Chambel, 2014), job satisfaction (Kraut, 1987; Ramsower, 1985) and, ultimately, wellbeing (Mendonça et al., 2021; Song and Gao, 2020). Conversely, if employees assess telework as a resource (e.g., sufficient level of control to make decisions about their jobs), their telework experience will be positive, and this positive effect will extend to work-life interactions (Allen et al, 2015; Fonner and Roloff, 2010), job satisfaction (Kelliher and Anderson, 2010) and wellbeing (Adamovic, 2021; Kröll et al., 2017). Thus, the more positive the experience of telework, the higher the likelihood to assess it as a resource (Rieth and Hagemann, 2021). Regarding work-life interactions, some prior research has found that teleworkers' actual experiences were better than what they had expected them to be beforehand (Maruyama and Tietze, 2012), as was the case with job satisfaction (Tahlyan et al., 2022; Vega et al., 2015) and wellbeing (quality of life; Tahlyan et al., 2022). Inconclusive results have been reported about telework and work–life interaction (Palumbo, 2020). Telework could facilitate work—life interaction by providing employees with sufficient flexibility (i.e., resources) to manage both job and life demands and prevent them from developing into work-life inter-role conflict (Messenger, 2019). However, when COVID-19 rapidly generalised telework from home, employees needed to set up and maintain clear boundaries between work and life domains to prevent negative work-life interactions (Eurofound and the International Labour Office, 2017;

Golden et al., 2006). Keeping this clear boundary could have been difficult because employees were new at teleworking and without proper training and awareness. Likewise, as reciprocity theory states (Shore and Coyle-Shapiro, 2003), if employees thought that the company was acting responsibly and 'making an effort' to maintain their jobs, they could reciprocate by prolonging work hours without experiencing overwork and loss of work–life balance.

As mentioned, meta-analytic studies have consistently indicated that telework positively relates to job satisfaction (Gajendran and Harrision, 2007). The mechanisms behind this relationship are a sense of autonomy and the absence of unexpected demands, such as interruptions while working, which result in less job-related stress (Fonner and Roloff, 2010). However, as the COVID-19 pandemic 'imposed' and generalised telework, it could reduce job satisfaction by increasing uncertainty as to how to be efficient in moving from no telework at all to doing it all the time (Suh and Lee, 2016). Thus, its rapid and unplanned implementation could have affected whether it was assessed as a job demand or a job resource based on employee experiences. Thus, we hypothesised that:

H1: The positive experience of telework during COVID-19 exerts a positive effect on work–life interaction (H1a), job satisfaction (H1b) and wellbeing (H1c).

2.2. Indirect relationships between telework and wellbeing via work-life interaction and job satisfaction

Apart from direct relationships between telework and work-life interaction, job satisfaction and wellbeing, this paper also analyses the mediating role of work-life interaction and job satisfaction in explaining the relationship between telework and wellbeing.

Extant studies have confirmed a mediating role for both variables. Research has consistently found positive relationships between work–life interaction and wellbeing (Clark, 2000; Fotiadis et al., 2019). Recent studies have also confirmed its mediational role in the relationship between telework and wellbeing via work–life boundary violations (Carvalho et al., 2021).

Job satisfaction also significantly contributes to wellbeing (Hünefeld et al., 2019; Lombardo et al., 2018; Scanlan and Hazelton, 2019). However, as far as we know, no research has yet analysed its moderator role between telework and wellbeing. Some support for this mediating role can be found in recent research, which confirms that job satisfaction mediates the relationship between working conditions (e.g., ethical leadership) and wellbeing (Kaffashpoor and Sadeghian, 2020). In our context, job satisfaction could be derived from the comparison between negative expectations when the COVID-19 pandemic imposed telework and the actual experience of working under this new job condition. Accordingly, we hypothesised that:

H2: Work–family interaction (H2a) and job satisfaction (H2b) mediate the effect of the experience of telework on wellbeing.

2.3. Telework preference

The paper also analyses to what extent employee preferences for telework influence wellbeing. Preference for telework shows to what extent employees are inclined to freely adopt this working condition (Asgari and Jin, 2015). Preferences influence positive attitudes and exert a motivational effect through activating and directing individual behaviour, in this case, towards adopting telework. In the current paper, preference comprises the positive evaluation and affective response towards telework (Credé, 2018).

Extant research has studied preferences for telework linked to its adoption and has found that such preferences influence how employees assess it (Bernardino et al., 1993; Peters et al., 2004). Recent research has found that preference for telework impacts several job outcomes, such as job satisfaction (Bakaç et al., 2021). However, how preferences could influence telework experiences and wellbeing require further analysis. The current paper thus examines the moderating role that preference for telework exerts on the direct relationship between the experience of telework and, specifically, perceived wellbeing.

Accordingly, although the pandemic generalised and imposed telework, we think that the preference for this job condition could have had an impact on the link between the preference for telework and wellbeing. It could also have influenced both moderators and the outcome under study. Thus:

H3. Preference for telework will strengthen the effect of telework experience on wellbeing (H3).

Insert Figure 2 around here

3. Methods

3.1 Data

The data set used in this empirical analysis came from the Living, working and COVID-19 e-survey conducted by Eurofound (2020). This study is based on the second round of the survey from 22 June to 27 July 2020 when the economic and social restrictions related to the pandemic began to decrease across Member States. This e-survey captures the impact of the COVID-19 on the way people lived and worked in Europe during that period.

Although data are in a merged-data file, which comprises the three rounds, Eurofound recommends a focus on one round and that the rounds be separately analysed. We decided to centre this research study on data from the second round, because at that time, employees would have had around three months of telework experience. The second round also includes information on all the variables relevant to our research purpose.

The survey was administered online, using a non-probabilistic sampling methodology. Although this non-probabilistic sampling method produces a non-representative sample, the composition of the data was adjusted using a number of known characteristics of the European population. To adjust data to the demographic profile of the EU27 as a whole and to each individual Member State, the sample was weighted based on gender, age, education and self-defined urbanisation levels. Additionally, those respondents without access to the Internet were excluded by default. Participation in an online survey also required digital literacy. It was not possible to correct for the bias introduced by these two factors. Con.

3.2 Measures

The proposed input-moderator-output model included the variables discussed in this subsection and described in Table 1. Variables were recoded and rescaled when necessary to facilitate the aggregation of items.

Independent variable:

Experience of telework. This dimension captured the personal experience of telework during the second phase of the pandemic restrictions. It consists of two items measured by a five-anchor Likert-type scale (M= 2.43; S.D.= 1.06). Scale reliability is 0.78 (Cronbach's alpha), which is above the recommended 0.70 threshold.

Dependent variable:

Wellbeing. This construct consists of four items measured by a six-anchor Likert-type scale (M= 3.59; S.D.= 1.07). This scale was recoded into a five-anchor scale to harmonise item scales. Scale reliability is 0.85 (Cronbach's alpha), well above the recommended threshold.

Mediators:

Work–life interaction. This two-item scale and its five anchors (M= 4.12; S.D.= 0.88) measured the interference of family responsibilities with job responsibilities. Scale reliability is 0.77, which is above the recommended 0.70.

Job Satisfaction. This scale (two items, five anchors) inquired about the level of satisfaction in relation to the amount and quality of the work undertaken (M= 2.50; S.D.= 0.99; α = 0.80)

Moderator:

Preference for telework. This item was recoded to divide the sample between high (two highest values; 4 and 5) and low (three lower values; from 1 to 3) preferences for telework when there are no restrictions (M= 2.83; S.D.=1.22). The specific question is shown in Table 1.

Insert Table 1 around here

3.3. Estimation methods

After estimating descriptive statistics and scale reliabilities, structural equation modelling (SEM) analyses were carried out to test to what extent the total sample data as well as subsamples high and low in preference fit the proposed theoretical model. Stata v.16

software was applied to conduct all statistical operations. SEM analyses assessed both the measurement model and the structural model. The former estimated the relationships between the items and their constructs (validity and reliability), whereas the latter measured the predictive capacity of the relationships between the constructs. The measurement model was evaluated for internal consistency by Cronbach's alpha (Tavakol and Dennick, 2011).

Two models were estimated; Model 1 measured the relationship between telework experience and wellbeing, directly and mediated via work–life interaction and job satisfaction; Model 2 incorporated the moderating effect of preference for telework when there are no restrictions on the relationship between telework experience and wellbeing.

The goodness of the fit was assessed by the following indices: Chi^2 and its probability (p), CFI (comparative fit index), TLI (Tucker-Lewis index), RMSA (root mean square error of approximation), and SRMR (standardised root mean residual). Standardised coefficients (β) were then estimated for the structural models' paths.

4. Results

For both models, structural equation fit indices (Table 2) and standardised coefficients and confident intervals (Table 3) indicate that data shows a good fit with the proposed model.

Insert Table 2 around here

As shown in Table 2, the fit indices for the two structural models are within the recommended cut-offs (CFI \geq 0.95; TLI \geq 0.95) or are well above them (RMSEA \leq 0.08; SRMR \leq 0.08), except for Chi² because its probability is significant. From these results, the proposed theoretical models can be considered useful to explain the dependent

variable (wellbeing). However, the data best fits the mediated model (Model 1) rather than the mediated-moderated model (Model 1: CFI = 0.99; TLI = 0.99; RMSEA = 0.03; SRMR = 0.02 / Model 2: CFI = 0.97; TLI = 0.96; RMSEA = 0.06; SRMR = 0.05).

Insert Table 3 around here

As Figure 3 and Table 3 show, Hypotheses H1a, H1b and H1c can all be accepted because telework experience directly explains wellbeing (β = 0.11; p < 0.001); work–live interaction (β = 0.25; p < 0.001); and job satisfaction (β = 0.77; p < 0.001). Telework experience exerts its strongest positive effect on job satisfaction, followed by work–life interaction and wellbeing.

Insert Figure 3 around here

Hypotheses H2 (H2a and H2b) that predicted indirect relationships between telework experience and wellbeing through work–life interaction and job satisfaction can also be accepted because results indicate an even stronger indirect effect between the independent variable and the criteria variable via the two moderators.

Insert Figure 4 around here

Hypothesis 3 (Figure 4 and Table 4) on whether preference for telework strengthens the effect of telework experienced on wellbeing (Model 2) can also be accepted. In this case, the direct (β = 0.08; p < 0.001) and indirect (β = 0.07; p < 0.001) effects of telework experience on wellbeing are lower than in Model 1. However, when incorporating the interaction between the former and preference for telework, the relationship between telework experience and wellbeing is strengthened (β = 0.75; p < 0.001).

Insert Table 4 around here

5. Discussion and Conclusions

From the second-round data (N= 8,777) of the "Living, working and COVID-19" esurvey (Eurofound, 2020), this paper examined to what extent telework experience during the pandemic could have affected employee wellbeing, both directly (H1) and through work–life interaction and job satisfaction (H2). The proposed mediated model also incorporated the moderating effect of preference for telework under no restrictions in the relationship between telework experience and wellbeing (mediated-moderated model – H3).

COVID-19 as a sudden environmental constraint forced the implementation of telework without proper planning and training. Thus, how employees experienced this major change in their working conditions could have impacted their wellbeing. Accordingly, this paper contributes to clarifying how the proposed variables relate under such constraints. Before the pandemic, extant research reported that the positive relations between telework and the mentioned variables slightly outweighed negative results (Bosua et al., 2013). This study sought to verify whether similar results could be reported under the restrictions imposed by the pandemic. Based on the job demands and resources theory (Bakker and Demerouti, 2017), we stated that telework forced by pandemic restrictions could be assessed as a job demand or a job resource based on the employee experience. Telework's sudden implementation could worsen wellbeing by increasing stress levels via more job demands, such as higher workloads and longer schedules due to the time invested in dealing with technological inefficiencies. Telework could also negatively affect work—life interactions by blurring the boundaries between the work and

life roles (Andrade and Petiz Lousä, 2020) and could deteriorate job satisfaction via increasing uncertainty because of a reduction in feedback (Ipsen et al., 2021). On the other hand, during the pandemic, telework was the means of maintaining jobs for a large number of European employees, and in accordance with reciprocity theory (Shore and Coyle-Shapiro, 2003), this circumstance could contribute to a positive effect from telework on wellbeing (Fana et al., 2020), work–life interactions (Irawanto et al., 2021) and job satisfaction (Karácsony, 2021) via reciprocating company efforts.

Structural equation modelling confirmed that data showed a good fit to the proposed theoretical model. This result directs us to confirm both hypotheses: H1 on direct effects and H2 on indirect effects. Consequently, positive telework experience has both a direct and indirect positive influence on wellbeing, but the indirect effect is stronger than the direct effect. Telework experience exerts a strong effect on job satisfaction, but the latter effect is weaker on wellbeing compared to that exerted by work-life interaction. Therefore, these results suggest that in the studied sample, telework experience functions as a job resource (Rieth and Hagemann, 2021). In addition, the link between telework experience and wellbeing can be reinforced by the positive assessment of work-life interaction and job satisfaction as proximal elements in the causal chain between telework experience and wellbeing. Employees in the study assessed that telework did not interfere with their work duties and that they felt satisfied with both the quantity and quality of their work. These findings indicate that a positive experience with telework exerts an important effect on how employees assess their work–life interaction and job satisfaction and, ultimately, their wellbeing. Our results are in line with extant studies, which have recognised such positive effects (Maruyama and Tietze, 20211; Tahlyan et al., 2022).

When testing the mediated-moderated model (Model 2 – H3), the direct link between telework experience and wellbeing was strengthened. This result demonstrated the

reinforcing effect that a preference for telework exerts on the relationship between telework experience and wellbeing. Though not essential, this finding underscores the importance of maintaining a positive attitude towards telework when implementing this working condition to enjoy success well beyond the COVID-19 pandemic (Peters et al., 2004).

These results also have implications from an applied perspective. Human capital departments as well as managers should design telework programmes to provide the best possible experiences for their employees. Its careful design will ensure its perception as a job resource, and therefore, it will exert a positive impact on work–life interaction, job satisfaction and wellbeing. As long as ICTs continue to reshape work environments, the presence of telework will increase. Keeping in mind that telework can be assessed as a demand could help companies to anticipate its potential drawbacks before implementing it (Messenger, 2019). As telework experience is important for wellbeing, companies should allow employees to involve themselves in 'job crafting' of telework (Bakker and Demerouti, 2017) to adapt it to their specific needs. Companies should also consider the importance of developing a positive attitude towards telework because such attitudes (preference) will reinforce the positive link between telework and wellbeing.

As with any other research, our study has certain limitations. The empirical evidence is derived from a single round of the Living, working, and COVID-19 e-survey conducted by Eurofound (2020). Eurofound recommends focusing on a single round to address potential issues, such as variations in items or sample sizes across rounds. Consequently, our research is grounded in the second round of the survey, which was chosen for its comprehensive information on variables aligned with our research objectives. While future studies could explore additional databases in the field, our choice is justified by the relevance of data in the second round.

It is important to note that our sample was collected using a non-probability sampling methodology. Although efforts were made to align the sample with the demographic characteristics of the European population, this could introduce some bias. Future research should explore other potential mediators (e.g., type of work) and moderators (e.g., work-unit social climate) between telework and wellbeing to enhance our understanding of the implications of this emergent work condition, particularly in post-COVID-19 implementation.

Due to COVID-19, telework's dramatic expansion helped companies to maintain their business activities and employees to keep their jobs. Within a context of unplanned implementation, the individual experience of telework directly influences wellbeing, work—life interaction and job satisfaction, but even more so indirectly via the latter two variables. The preference for telework when there are no restrictions is also important to predict wellbeing while teleworking and to strengthen the effect of telework experience on wellbeing. Thus, companies should consider directing some effort to developing positive experiences with telework beyond pandemic restrictions. Employee job crafting of telework could be a valid tool to reinforce positive experiences and attitudes to assess telework as a resource and, therefore, to ensure that it will exert a positive effect on employee wellbeing.

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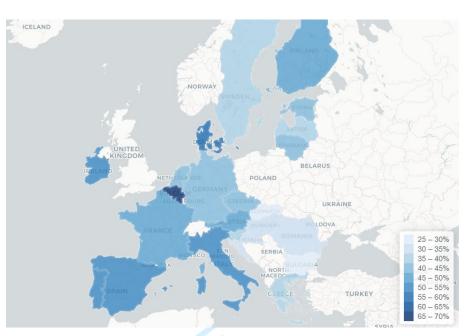
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Figure 1. Telework in Europe 2020



Source: Eurofound (2020) (Authors own creation)

Figure 2. The proposed model

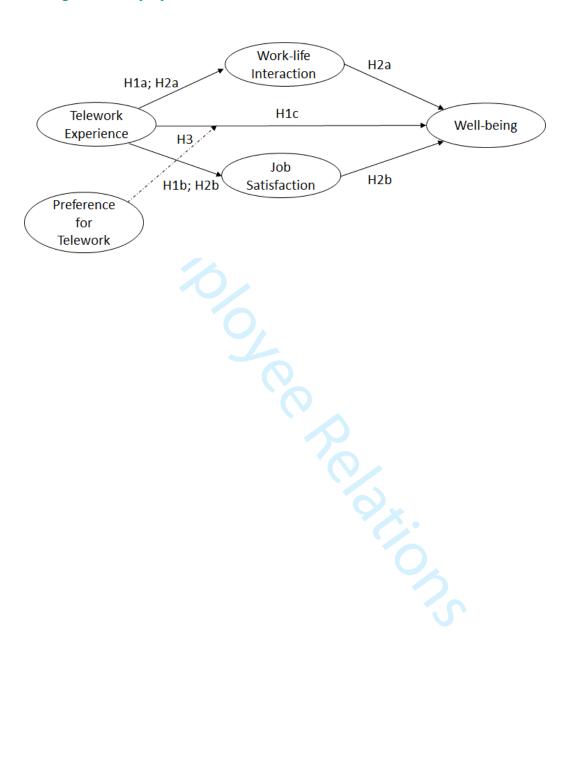


Figure 3. Mediated structural model (standardized coefficients in bold).

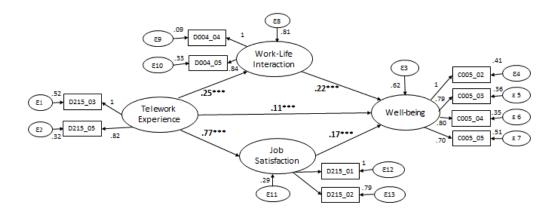


Figure 4. Mediated moderated structural model (standardized coefficients in bold).

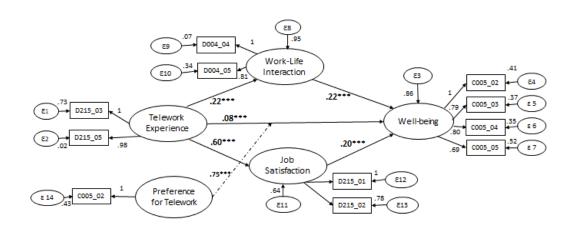


Table 1. Items and descriptive statistics

Variables (SEM models)	Items	Description	N	Mea n	S.D.	Min.	Max.
Telework experience	nD215_03	With my equipment I have at home I could do my work properly	14,763	3.7	1.13	1 (strongly disagree)	5 (strongly agree)
	nD215_05	Overall, I am satisfied with my experience	14,385	3.62	1.15	1 (strongly disagree)	5 (strongly agree)
Job satisfaction	nD215_01	I am satisfied with the amount of work I managed to do	14,838	3.49	1.12	1 (strongly disagree)	5 (strongly agree)
	nD215_02	I am satisfied with the quality of my work	14,881	3.74	1.00	1 (strongly disagree)	5 (strongly agree)
Work-life interaction	D004_04	Found it difficult to concentrate in your job because of your family responsibilitie s	14,414	3.91	0.96	1 (always)	5 (never)
	D004_05	Found that your family responsibilities prevented you to giving the time you should to your job	14,395	4.16	0.93	1 (always)	5 (never)

Preference for telework	D216_01	Work from home preferences when there are no restrictions	10,035	2.83	1.21	1 (never)	5 (daily)
Wellbeing	C005_02	I have felt calm and relaxed	24,076	3.73	1.24	1 (at no time)	6 (all the time)
	C005_03	I have felt active and vigorous	24,072	3.60	1.25	1 (at no time)	6 (all the time)
	C005_04	I woke up feeling fresh and rested	24,061	3.41	1.37	1 (at no time)	6 (all the time)
	C005_05	My daily life has been filled with things that interest me	24,057	3.78	1.30	1 (at no time)	6 (all the time)
			PC O		Š		

Table 2. Structural equation fit indices

	Chi2	р	CFI	TLI	RMSEA	SRMR
Mediated model						
FIT indices	353.889	0.000***	0.99	0.99	0.03	0.02
Mediated-moderated model						
FIT indices	900.608	0.000***	0.97	0.96	0.06	0.05



Table 3. Models Standardized Coefficients (N= 8,777)

Dependent	Standard	S.E.	z-value	value $P > z$ 95% conf.		f. interval
variable:	coefficient					
Wellbeing						
Mediated model		'				
Telework	0.11***	0.02	4.42	0.000	0.06	0.16
Experience						
→Wellbeing						
Work-life	0.21***	0.01	18.44	0.000	0.19	0.24
interference						
→Wellbeing						
Job Satisfaction	0.17***	0.02	6.77	0.000	0.12	0.22
→Wellbeing						
Telework	0.25***	0.12	20.32	0.000	0.23	0.28
Experience						
→Work-life						
interference						
Telework	0.77***	0.01	87.44	0.000	0.75	0.79
Experience \rightarrow Job						
Satisfaction						
Mediated-moderat	ted model					
Telework						
experience	0.08***	0.02	4.82	0.000	0.05	0.11
→Wellbeing						
Work life		1				
interference	0.22***	0.01	16.83	0.000	0.19	0.25
→Wellbeing						
Job satisfaction						
→Wellbeing	0.20**	0.02	10.49	0.000	0.16	0.24
Telework	0.000 steateste	0.01	17 40	0.000	0.10	0.24
Experience	0.22***	0.01	17.48	0.000	0.19	0.24
→Work-life						
interference Telework						
Experience	0.60***	0.01	56.93	0.000	0.58	0.62
→ Job Satisfaction	0.00	0.01	30.73	0.000	0.50	0.02
Telework	0.75***	0.00	122.38	0.000	0.74	0.76
Experience x	0.73	0.00	122.30	0.000	0.74	0.70
Preference for						
telework						
→Wellbeing						
· Welloomig	1		1			

Table 4. Structural models paths direct, indirect and total effects

Model	Paths	Direct coeff.	Indirect coeff.	Total
Mediated	TW Exp.—Wellbeing	0.11***	0.18***	0.29***
model	TW Exp.—WLI	0.25***		0.25***
	TW Exp.—Job Satisfaction	0.77***		0.77***
	WLI—Wellbeing	0.21***		0.21***
	Job Satisfaction—	0.17***		0.17***
	Wellbeing			
Mediated-	TW Exp.—Wellbeing	0.08***	0.07***	0.15***
moderated	TW Exp.—WLI	0.22***		0.31***
model	TW Exp.—Job Satisfaction	0.60***		.75***
	WLI—Wellbeing	0.22***		0.22***
	Job Satisfaction—	0.20***		0.13***
	Wellbeing			
	TW Exp. x Preference—	0.75***		0.75***
	Wellbeing			



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12 December 2023

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Document title: Do you prefer logging in?

The relevance of the experience of telework for wellbeing

Author(s): Begoña Urien; Amaya Erro-Garcés

Format: **British English**

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20th December, 2023

Dear Professor Nickson:

First of all, thank you very much for the time and effort given to our manuscript (ID ER-10-2022-0487) and for giving us the opportunity to revise and resubmit it. We would also like to thank you and the reviewer for the time and effort devoted to review our paper.

In the revised version of the manuscript, we have carefully addressed all the concerns and feel that the quality of the manuscript has improved as a result.

Following your comments and the reviewer, we have made several changes in the document that pertain to its different sections. In particular, as regards your concerns, we have estimated our model including the "preference for telework" as a moderator in the relationship between "telework experience" and "well-being". Abstract, theoretical background, estimation methods, results, discussion and conclusion sections were adapted accordingly. In addition, Table 1 has been completed by splitting the "Variables" ("Variable" before) column into two sub-columns, as suggested, including the label of the variable in each item. Finally, all typos have been corrected.

Please see the response letter enclosed with this note for the detailed responses to the reviewers' comments. Additionally, below please see our point-by-point responses to the reviewers' comments. Comments from the reviewer are numerated and in italics. Some words are in bold letters to facilitate the reading.

We hope we have responded to all the concerns made to the last version of the manuscript and incorporated all the required changes. We would be glad to provide further details and clarifications if necessary.

Many thanks again and best regards,

The authors

Reviewer Comments

1. The main issue is that H3 doesn't make sense logically in Fig.2. When I checked the data (in Table 3), 72% of the sample (6,344 out of 8,777) has a high preference in telework, the sample is biased towards this group. It can be treated as a control variable; or a moderator (on H1c, H1a, or H1b) in the framework, this means the author(s) has to restructure the whole paper accordingly.

As suggested, we introduced the variable "preference for telework" as a moderator in the relationship between "telework experience" and "well-being".

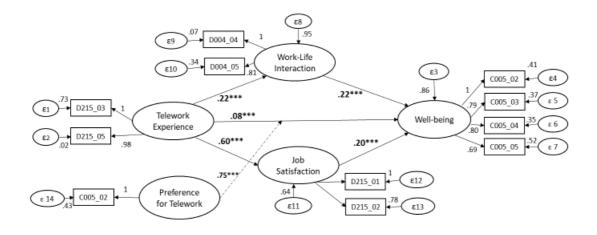
The moderator positively and significantly influences the relationship between "preference for telework" and "well-being". However, the resulted structural model, although showing a satisfactory fit, did not improve the firstly tested mediated model (Table 2).

Table 2. Structural equation fit indices

	Chi2	р	CFI	TLI	RMSEA	SRMR	
Mediated model							
FIT indices	353.889	0.000***	0.99	0.99	0.03	0.02	
Mediated-mod	Mediated-moderated model						
FIT indices	900.608	0.000***	0.97	0.96	0.06	0.05	

Accordingly, both Figure 2 (the proposed model) and Figure 3 (mediated structural model) were adapted.

We also added a new Figure 4 which shows the measurement and structural mediated-moderated model.



As a result, Tables 3 and 4 were also modified.

Abstract, theoretical background, estimation methods, results, discussion and conclusion sections incorporate the changes introduced. In the manuscript, those changes are highlighted "green letters".

As examples, page 9, first paragraph:

"Accordingly, the present paper also studies the moderating role that preference for telework exerts on the direct relationship between the experience of telework and perceived wellbeing specifically."

Or pages 15-16 (last-first paragraph).

"When testing the mediated-moderated model (Model 2 – H3), the direct link between telework experience and wellbeing was strengthened. This result indicated the reinforcing effect that a preference for telework exerts on the relationship between telework experience and wellbeing. Though not essential, this finding underscores the importance of maintaining a positive attitude towards telework for success well beyond the COVID-19 pandemic when implementing this working condition (Peters et al., 2004)."

2. There are issues with tables and presentations. In Table 1, the author(s) needs to clearly indicate which survey items were used to measure their independent variable, dependent variables, mediators or moderator. It may need an extra column to make this clear. For example, telework experience includes nD215 03 and nD215 05.

Table 1 has been completed by splitting the "Variables" ("Variable" before) column into two sub-columns, including the label of the variable in each item.

Variables (SEM models)	Items	Description	N	Mean	S.D.	Min.	Max.
Telework experience	nD215_03	With my equipment I have at home I could do my work properly	14,763	3.7	1.13	1 (strongly disagree)	5 (strongly agree)
	nD215_05	Overall, I am satisfied with my experience	14,385	3.62	1.15	1 (strongly disagree)	5 (strongly agree)

Job satisfaction	nD215_01	I am satisfied with the amount of work I managed to do	14,838	3.49	1.12	1 (strongly disagree)	5 (strongly agree)
	nD215_02	I am satisfied with the quality of my work	14,881	3.74	1.00	1 (strongly disagree)	5 (strongly agree)
Work-life interaction	D004_04	Found it difficult to concentrate in your job because of your family responsibilities	14,414	3.91	0.96	1 (always)	5 (never)
	D004_05	Found that your family responsibilities prevented you to giving the time you should to your job	14,395	4.16	0.93	1 (always)	5 (never)
Preference for Telework	D216_01	Work from home preferences when there are no restrictions	10,035	2.83	1.21	1 (never)	5 (daily)
Wellbeing	C005_02	I have felt calm and relaxed	24,076	3.73	1.24	1 (at no time)	6 (all the time)
	C005_03	I have felt active and vigorous	24,072	3.60	1.25	1 (at no time)	6 (all the time)
	C005_04	I woke up feeling fresh and rested	24,061	3.41	1.37	1 (at no time)	6 (all the time)
	C005_05	My daily life has been filled with things that interest me	24,057	3.78	1.30	1 (at no time)	6 (all the time)

a. keep two decimal places (in all Tables).

Decimals are just two except for Chi^2 and probabilities (p) in all Tables.

Those corrections were made in all Tables.

Example, Table 2.

	Chi2	P	CFI	TLI	RMSEA	SRMR	
Mediated model							
FIT indices	353.889	0.000***	0.99	0.99	0.03	0.02	
Mediated-moderated model							
FIT indices	900.608	0.000***	0.97	0.96	0.06	0.05	

b. Variables to replace Variable in Table 1.

Please, check in Table 1 in pages 2 and 3. Corrected.

c. Min. or Max. to replace Min or Max

Please, check in Table 1 in pages 2 and 3. Corrected

d. In Table 3, N=6,344 or N=2,433 to replace N=6.344 or N=2.433 currently.

Table 3 is now like this. Please note that N = 8,777 Please, check below the new version of Table 3.

Table 3. Models Standardized Coefficients (N= 8,777)

Dependent	Standard	S.E.	z-value	P > z	95% conf	. interval
variable:	coefficient					
Wellbeing						
Mediated model						
Telework	0.11***	0.02	4.42	0.000	0.06	0.16
Experience						
→Wellbeing						
Work-life	0.21***	0.01	18.44	0.000	0.19	0.24
interference						
→Wellbeing						
Job Satisfaction	0.17***	0.02	6.77	0.000	0.12	0.22
→Wellbeing						
Telework	0.25***	0.12	20.32	0.000	0.23	0.28
Experience						
→Work-life						
interference						
Telework	0.77***	0.01	87.44	0.000	0.75	0.79
Experience →Job						
Satisfaction						
Mediated-moderat	ed model					•
Telework						
experience	0.08***	0.02	4.82	0.000	0.05	0.11
→Wellbeing						
Work life	4					
interference	0.22***	0.01	16.83	0.000	0.19	0.25
→Wellbeing						
Job satisfaction						
→Wellbeing	0.20**	0.02	10.49	0.000	0.16	0.24
Telework						
Experience	0.22***	0.01	17.48	0.000	0.19	0.24
→Work-life						
interference						
Telework			C	/		
Experience	0.60***	0.01	56.93	0.000	0.58	0.62
→Job Satisfaction						
Telework	0.75***	0.00	122.38	0.000	0.74	0.76
Experience x						
Preference for						
telework						
→Wellbeing						

e. Table 4, 0.11*** to replace .11*** all ways through.

Below, you can check the new Table 4, in response to what was suggested.

Table 4. Structural models paths direct, indirect and total effects

Model	Paths	Direct coeff.	Indirect coeff.	Total
Mediated	TW Exp.—Wellbeing	0.11***	0.18***	0.29***
model	TW Exp.—WLI	0.25***		0.25***
	TW Exp.—Job Satisfaction	0.77***		0.77***
	WLI—Wellbeing	0.21***		0.21***
	Job Satisfaction—	0.17***		0.17***
	Wellbeing			
Mediated-	TW Exp.—Wellbeing	0.08***	0.07***	0.15***
moderated	TW Exp.—WLI	0.22***		0.31***
model	TW Exp.—Job Satisfaction	0.60***		.75***
	WLI—Wellbeing	0.22***		0.22***
	Job Satisfaction—	0.20***		0.13***
	Wellbeing			
	TW Exp. x Preference—	0.75***		0.75***
	Wellbeing			

3. The revised version requires a thorough proof-reading

The proofreading certificate can be found attached.

4. In the Findings, it needs to be made clear that the findings are under the Covid-context. The sentence 'the subsample high in preference for telework reveals stronger relationships between telework experience and wellbeing' is hard to understand. This is about H3, they may have to change this after the issue raised above.

Certainly, that sentence was removed and the new paragraph is:

"Findings: Key findings support that telework experience positive impacts on wellbeing, both directly and indirectly, particularly via work-life balance. Although preference for telework strengthens the relationship between telework experience and wellbeing, it does not enhance the predictive power of the mediated model."

5. On P 11 S.D.=1.22 to replace SD=1.22 On p13
$$\beta$$
= 0.13 to replace β = .13 On p14. N=8,777 to replace N=8.777

Changes made in the corresponding Tables.

6. On p. 15 (Fana et al, 2020) (Irawanto et al, 2021) need to be (Fana et al., 2020) and (Irawanto et al., 2021)

These necessary corrections have been applied.

Thank you very much for your help.

Yours sincerely,

though the Relations Amaya Erro-Garcés Ph. D. Corresponding author