

ICOH 2022 33rd International Congress

on Occupational Health

The Impact of Telework on Mental Health during the COVID-19 Pandemic: A Four-Wave Cohort Study among Belgian Workers in the First Wave

<u>Tinne Vander Elst</u>^{1,2,3}, Sofie Vandenbroeck^{1,2}, Isabelle Boets^{1,2}, & Lode Godderis^{1,2}

¹ Knowledge, Information and Research Center, IDEWE Group (External Service for Prevention and Protection at Work), Leuven, Belgium

² Environment and Health, Faculty of Medicine, KU Leuven, Leuven, Belgium

³ Department of Social Psychology, Tilburg University, Tilburg, the Netherlands



I have no conflicts of interest to disclose

Introduction

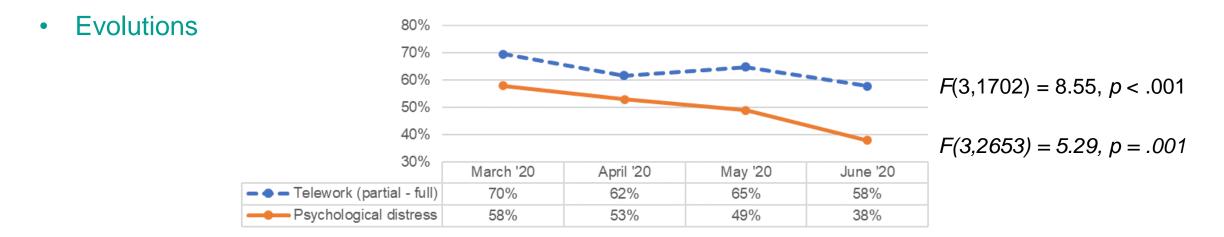
- COVID-19 pandemic: massive switch to telework
- Previous evidence: The impact of telework on employee mental health is inconsistent. (Allen et al., 2015)
- Important to gain insight into the explanations: <u>why</u> does telework affect health? (Sardeshmukh et al., 2012; Vander Elst et al., 2017, 2020)
- Current study:
 - Impact of telework on mental health in the first wave of the COVID-19 pandemic?
 - Are the following explanatory mechanisms in play (i.e., test of mediation)?
 - Work-home interference (WHI)
 - Home-work interference (HWI)
 - Loneliness
 - Social support

Methods

- Design and procedure
 - Prospective cohort study with 4 monthly measurements via online questionnaire (March-June 2020)
 - Recruitment via:
 - IDEWE research panel
 - Media campaign: social media, website and newsletter
- Sample
 - 5959 working Belgians, who participated in at least one of the four surveys
 - Heterogenous: M_{age}= 45 years (SD = 10.25), 77% female, 60% cohabiting children, 24% manager, multiple sectors
- Protocol
 - Approved by the Social and Societal Ethics Committee (SMEC) of KU Leuven (G- 2016 10 645, amendment)

- Measures:
 - Extent of telework
 - "In the last 4 weeks during the corona crisis, did you make use of the following measures? Working from home"
 - 1 (no telework), 2 (telework partial), 3 (telework – all the time)
 - Psychological distress
 - GHQ-12 (Goldberg, 1972; Koeter & Ormel, 1991)
 - Threshold of 2/3 (Makowska et al., 2002)
 - WHI & HWI
 - E.g., "My work causes hindrance to my private life." (based on QPSNordic; Dallner et al., 2000)
 - 1 ((Almost) never) 5 ((Almost) always)
 - Loneliness ($\alpha = [.72-.77]$ across times)
 - 4 items (Neto, 2014)
 - Social support from colleagues ($\alpha = [.80-.83]$)
 - 2 items (SIMPH, Notelaers et al., 2007)

Results: Telework and psychological distress



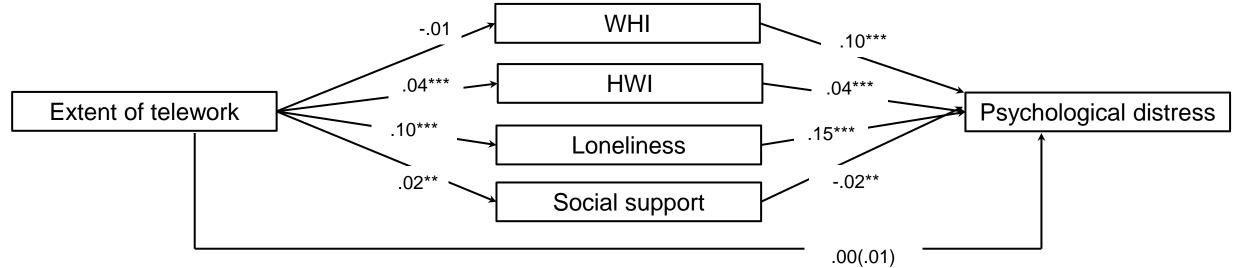
• Multi-level path analysis in MPlus 8.5: Direct effect model (standardized regression coefficients)

- Focus on intra-individual processes: Relationships between variables were tested at the within-person level, while controlling for their variance at the between-person level.
- The DV at time T was regressed on IVs at time T-1, while controlling for the DV at time T-1.

•
$$R^2_{\text{psychological distress}} = .06 (.01), p < .001$$

Results: Explanatory mechanisms

• Multi-level path analysis in MPlus 8.5 : Indirect effect model (standardized regression coefficients)



 $R^{2}_{psychological distress} = .29 (.01), p < .001$

- Indirect effects (unstandardized coefficients)
 - WHI: -.002 (.001), *ns*
 - HWI: .002 (.001), *p* =.001
 - Loneliness: .02 (.002), p < .001
 - Social support by colleagues: -.001 (.000), p = .044

Conclusion

- There is a small direct effect from extent of telework on psychological distress across time.
- The relationship between extent of telework and psychological distress is mediated by HWI, loneliness and social support from colleagues.
 - Surprising: telework was positively related to subsequent social support
- Initial study results
- Next step: Are the effects different for different time lags?
- Practical implications:
 - Focus on HWI and loneliness among teleworkers