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

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#### I have no conflicts of interest to disclose

### Introduction

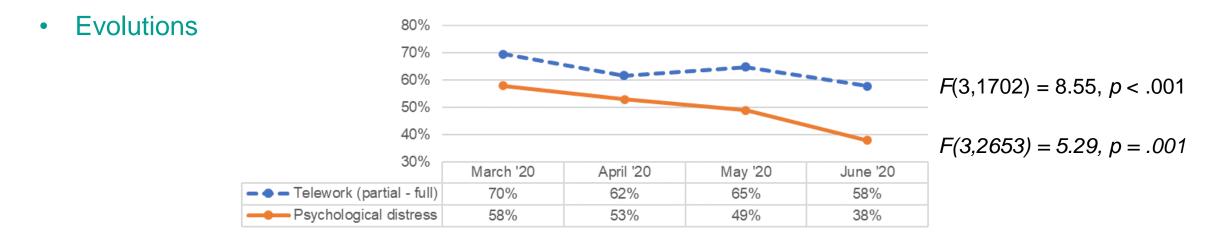
- COVID-19 pandemic: massive switch to telework
- Previous evidence: The impact of telework on employee mental health is inconsistent. (Allen et al., 2015)
- Important to gain insight into the explanations: <u>why</u> does telework affect health? (Sardeshmukh et al., 2012; Vander Elst et al., 2017, 2020)
- 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<sub>age</sub>= 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**



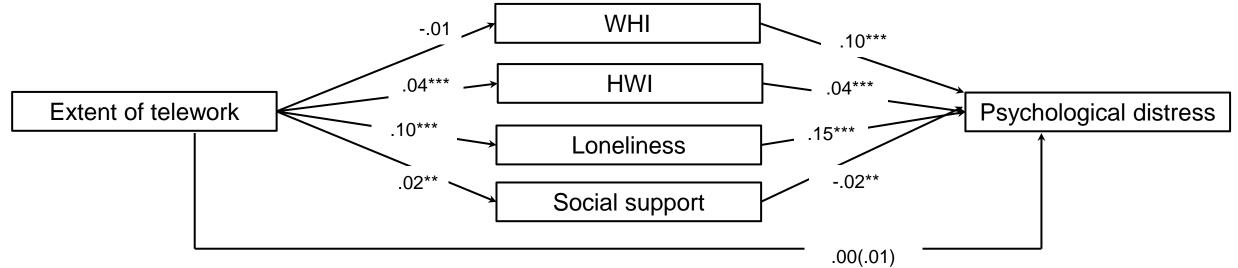
• Multi-level path analysis in MPlus 8.5: Direct effect model (standardized regression coefficients)

- 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</li>
  - 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