MUNI ARTS

Work Ability in the Context of the JD-R Model: Pathways to Promote the Well-being of Teachers



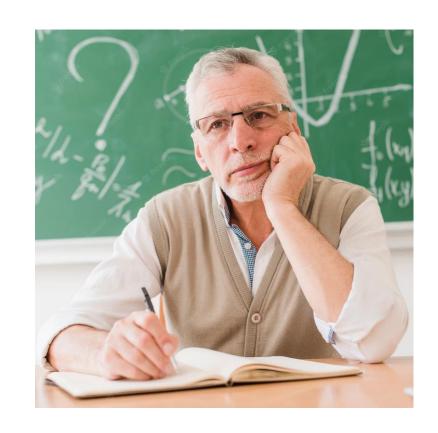
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This study is an outcome of the research project Research on perceived work ability among lower secondary school teachers [grant number GA23-05312S] funded by the Czech Science Foundation.

Background

- teaching is an increasingly demanding profession
- many European countries face or will face a teacher
 shortage in the near future
- EU: 39% aged 50 years and older (Eurostat, 2022)
- CZ: average age 45.7 years (Zatloukal et al., 2019), 41% of teachers are in the age category 50+ (MEYS, 2022)
- high level of work ability is associated with satisfied
 and longer/active working life (Tuomi et al., 2001; Ünlü & Filiz, 2019)





Work Ability (WA)

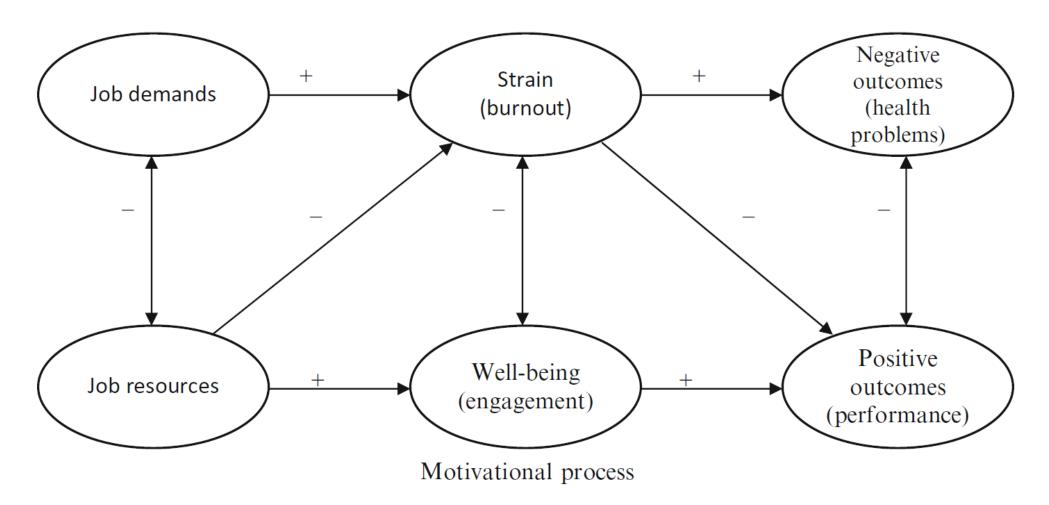
- individual capacity to complete required work tasks and cope with the job demands successfully (Ilmarinen et al., 1997)
 - objective WA: strictly based on evaluating the employee's health and functional limitations (McGonagle et al., 2015)
 - perceived WA: employee's self-perception or self-assessment of their ability to continue working in the current job (Brady et al., 2020)
- Work Ability Index (WAI): most frequently used diagnostic tool, which has been criticized (e.g., length, factor structure, sensitive health information) (Cadiz et al., 2019)





Health impariment process (JD-R)

Health impairment process





Expected relationships

- burnout → work ability (Hlado et al., 2020)
- burnout → job satisfaction (Tarcan et al., 2017)
- work ability → job satisfaction (Tuomi et al., 2001)
- burnout → work ability → job satisfaction
- H1: Burnout is negatively related to perceived work ability among lower secondary school teachers.
- H2: Burnout is negatively related to job satisfaction among lower secondary school teachers.
- H3: Perceived work ability serves as a mediator of the association between burnout and job satisfaction.





Participants and Procedures

- a coss-sectional study was conducted among lower secondary school teachers in the Czech Republic
- the data collection took palce from May to June 2023
- database of teachers from all schools in the Czech Republic
- teachers were contacted by email to complete an online questionnaire
- 821 teachers (83.3% females); response rate 12.6%
- the mean age of the participants was 45.6 years
- everage time spent in the teaching profession was 17.5 years



Measure

– Work Ability:

- Teacher Work Ability Scale (TWAS; Hlado et al., 2023)
- 29-item inventory (7-point Likert type scale); four subsacles; $\alpha = 0.95$ (subscales 0.85–0.90)

– Burnout:

- Shirom-Melamed Burnout Questionnaire (SMBQ; Ptáček et al., 2017)
- 14-item inventory (7-point Likert type scale); three subsacles (physical, cognitive, emotional exhaustion); $\alpha = 0.93$ (subscales 0.87–0.94)
- e.g., I have no energy for going to work in the morning. I have difficulty concentrating. I have difficulty thinking about complex things.

– Job Satisfaction:

- Copenhagen Psychological Questionnaire: Job Satisfaction Scale (COPSOQ; Llorens et al., 2019)
- instrument designed for the assessment and improvement of psychosocial conditions in workplaces and for research purposes; $\alpha = 0.80$
- 5 items (5-point Likert scale), e.g., How pleased are you with: Your work proscpects? The way your Notes are use?

Teacher Work Ability Scale

Your overall (physical and mental) capacity for:

F1_Planning and Organization of Teaching

- 2. Preparing tools for teaching
- 8. Differentiation of teaching according to the needs of pupils

F2_Teaching and Assessment

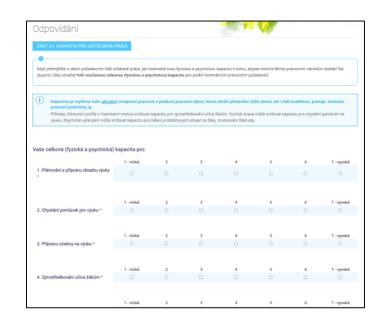
- 11. Keeping pupils' attention in the lesson
- 15. Assessment of pupils

F3_(Collegial) Professional Communication and Sharing

- 22. Communication with school management
- 29. Sharing of professional experience in a collegial manner

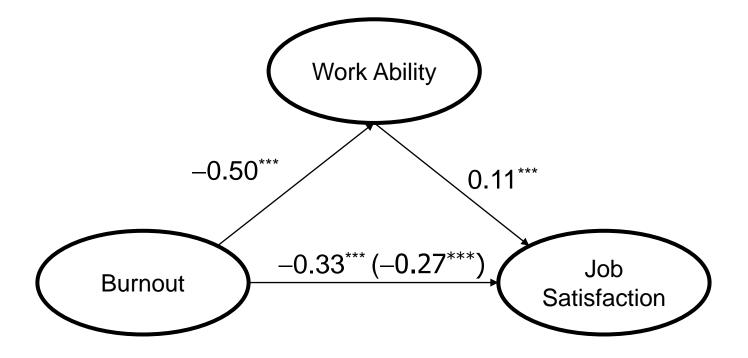
F4_Out of Class Duties

- 20. Supervision of pupils outside the classroom (e.g. corridors, canteen)
- 31. Administrative work



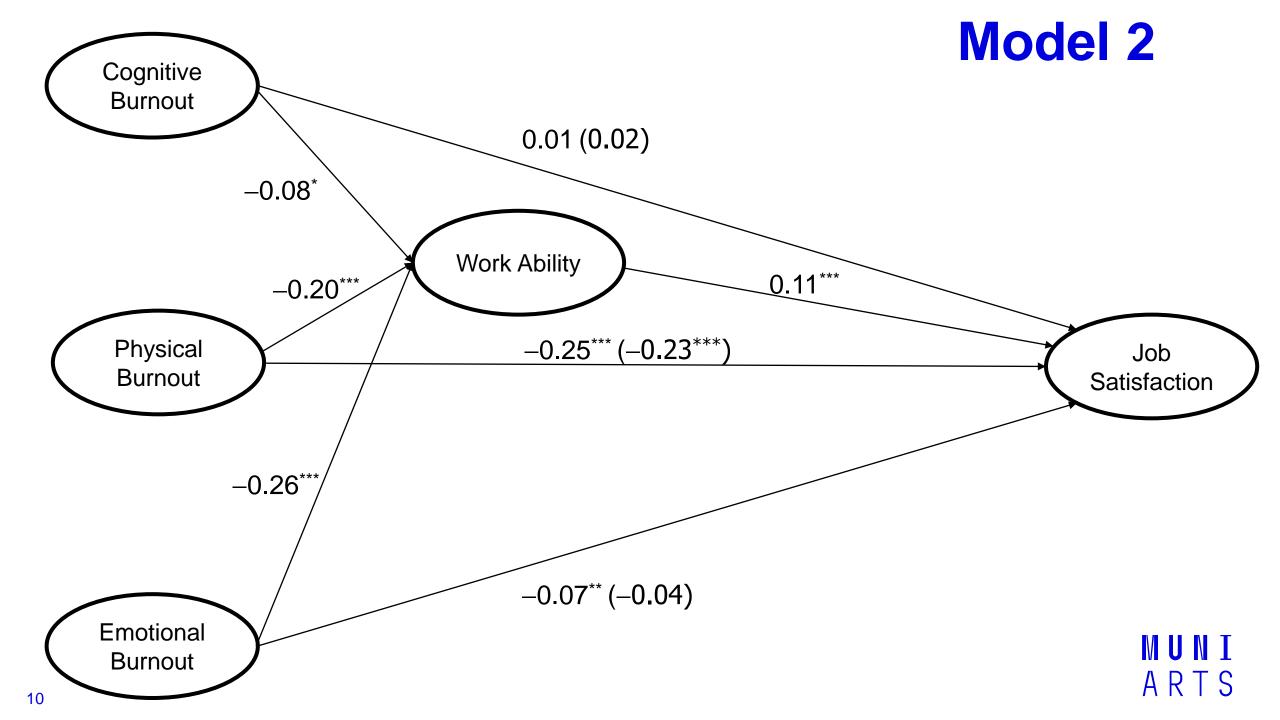


Model 1

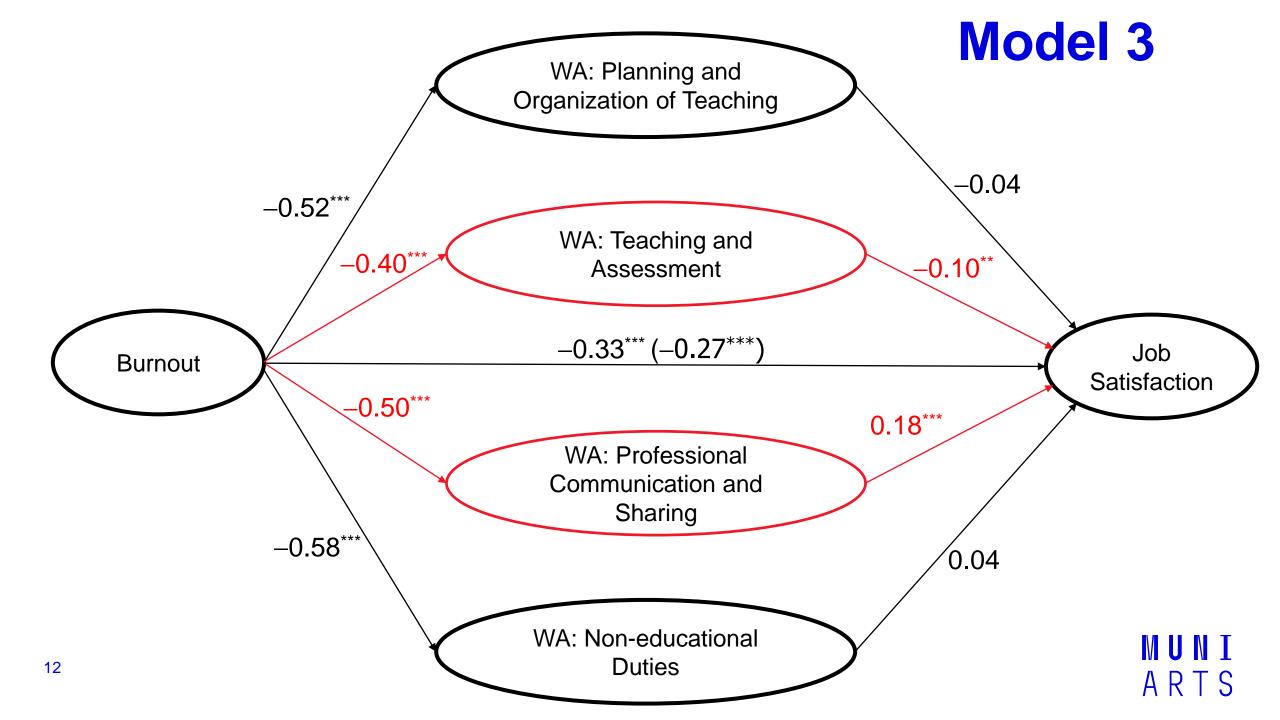


	Effects	95% CI	р
Total Effect	-0.325	[-0.369; -0.285]	0.000
Direct Effect	-0.271	[-0.325; -0.224]	0.000
Indirect Effect	-0.054	[-0.077; -0.029]	0.000
Proportion mediated	0.165	[0.091; 0.252]	0.000





	X -> Y effects	Est.	SE	р
	Total effects			
	SMBM_FU -> JSatis	-0.25	0.02	<0.001
	SMBM_KU -> JSatis	0.01	0.02	0.732
	SMBM_EV -> JSatis	-0.07	0.02	0.003
	Direct effects			
	SMBM_FU -> JSatis	-0.23	0.02	<0.001
	SMBM_KU -> JSatis	0.02	0.02	0.495
	SMBM_EV -> JSatis	-0.04	0.02	0.09
	X -> M effects			
	SMBM_FU -> A1_WA	-0.2	0.03	<0.001
	SMBM_KU -> A1_WA	-0.08	0.04	0.03
	SMBM_EV -> A1_WA	-0.26	0.03	<0.001
	M -> Y effects			
	A1_WA -> JSatis	0.11	0.02	<0.001
	Indirect effects	Est.	SD	CI
	Total indirect effects			
	SMBM_FU	-0.02	0.01	[-0.035; -0.01]
	SMBM_KU	-0.01	<0.01	[-0.017; -0.001]
	SMBM_EV	-0.03	0.01	[-0.042; -0.014]
	Specific indirect effects			
	SMBM_FU -> A1_WA	-0.02	0.01	[-0.035; -0.01]
11	SMBM_KU -> A1_WA	-0.01	<0.01	[-0.017; -0.001] ARTS
	SMBM_EV -> A1_WA	-0.03	0.01	[-0.042; -0.014]



Conclusions

- our findings are consistent with the JD-R
 model and bring new empirical support for the model
- burnout in the teaching profession is linked to negative occupational consequences
- improving teacher well-being (represented by job satisfaction) is possible through the prevention of burnout and the promotion of work ability
- support teachers in these domains appears to be a way to help retain teachers in the profession



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