



# Occupational well-being and mental workload of health care educators in relation to professional competence

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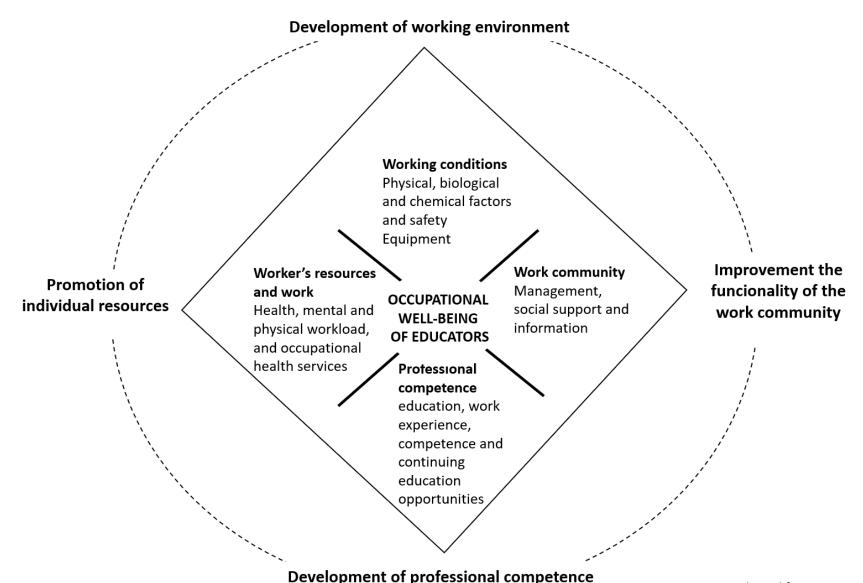
## Background

- Health care educators face challenges (Howard et al., 2022; Jarosinski, 2022; Rinne et al., 2022; Saaranen et al., 2020, 2021; WHO, 2021)
  - Excessive workload
  - Mental strain at work
  - Digitalisation
  - Labour shortages
- Research on occupational well-being of health care educators is limited





#### The concept of occupational well-being





Adapted from Saaranen et al. (2015).

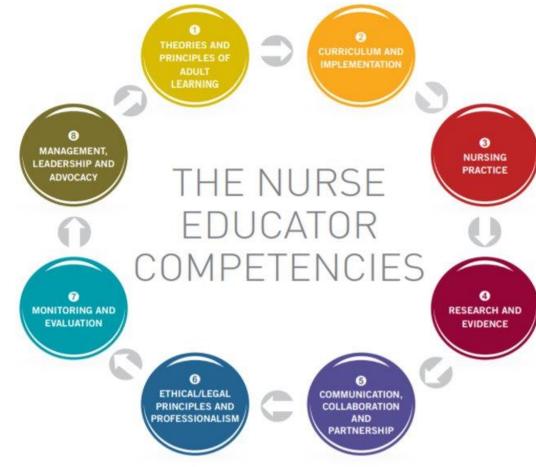


# Professional competence

NURSE EDUCATOR CORE COMPETENCIES (WHO 2016)

- Competence in evidence-based practice
- 2. Pedagogical competence in teaching and guidance
- 3. Administrative and curriculum competence
- Education technology competence
- Networking and social competence
- 6. Cultural competence

Based on HeSoEduCo-instrument (Mikkonen et al., 2020). See more Vauhkonen et al. (2024).









## The results of two research projects

European New Nurse Educator project, 2020-2023





 Social and Health Care Teachers' Occupational Wellbeing in Finland project, 2020-2023











# Study aim

To analyse occupational well-being and mental workload among health care educators in relation to professional competence.







#### Methods

#### Cross-sectional survey data collection in Finland September 2020

- Finnish health care educators (n=489)
- The Occupational well-being of social and health care teachers—index questionnaire\* (Rautiainen et al., 2023)
  - 18 items measure areas of professional competence Likert 1-5
  - Personal occupational well-being continuous 0-5
  - Balance of mental workload Likert 1-5

### Cross-sectional survey data collection May 2021 and February 2022

- Finnish, Spanish, Slovakian and Maltese nurse educators (n=302)
- The Health and Social Care Educator's Competence instrument (Mikkonen et al., 2020)
  - 43 items which measure areas of professional competence
  - + Personal occupational well-being continuous 0-5
  - Balance of mental workload Likert 1-5

#### **Analyses**

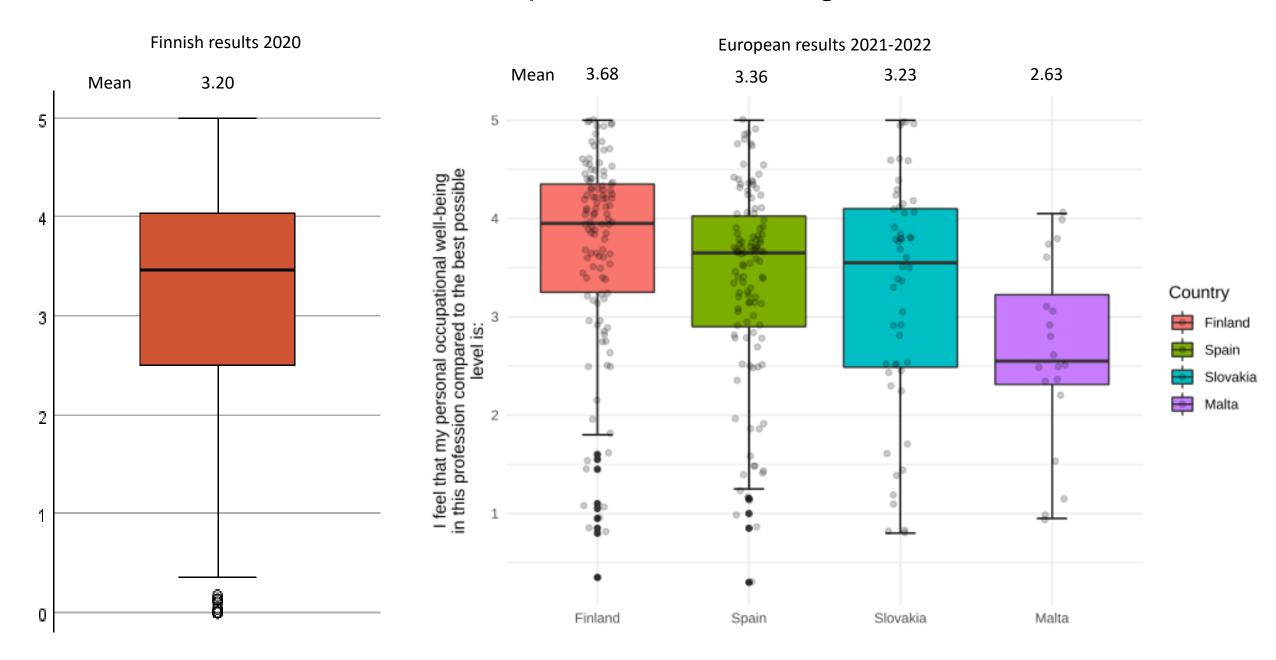
- The descriptive analysis
- Exploratory factor analysis EFA
- Kruskal-Wallis test
- Multiple regression modelling



<sup>\*</sup>contains altogether 73 items + 5 open-ended questions



#### Personal occupational well-being





# Occupational well-being and workload

	Finnish results 2020	European results 2021-2022*					
Variable			Mean (SD)				
	Total Finnish	Total European	Finland	Spain	Slovakia	Malta	p-value <sup>1</sup>
12. Personal occupational well-being *	3.20 (1.15)	3.41 (1.08)	(1.04)	3.36 (1.00)	3.23 (1.19)	2.63 (0.95)	<.001
14. The balance of the mental workload **	2.63 (1.20)	3.23 (1.12)	(1.07)	3.23 (1.14)	2.85 (1.17)	3.20 (1.01)	.027

Note. \*continuous scale 0 - 5, 0 = very poor, 5 = very good; \*\* Likert scale 1 - 5, 1 = totally disagree, 5 = totally agree,  $1 \times \text{Kruskal-Wallis test}$ .

\*Ref: Vauhkonen et al. (2024).



#### European model: Connections to personal occupational well-being

	В	SE	p-value
Model 1, R2 = .363			
Constant	.371	.720	.607
Total competence scale	.434	.185	.020
Balance of the mental workload	.477	.055	< .001
Model 2, R <sup>2</sup> = .387			
Constant	.874	.810	.281
1. Competence in evidence-based practice	099	.189	.602
2. Pedagogical competence in teaching and guidance	196	.216	.367
3. Administrative and curriculum competence	.484	.182	.008
4. Education technology competence	.083	.125	.504
5. Network and social competence	.193	.123	.118
6. Cultural competence	075	.114	.513
Balance of the mental workload	.455	.057	< .001

Note: B = unstandardized coefficients, SE = standard deviation, Country, age, work experience as an educator, attend to continuous education courses, and highest education level are controlled.

#### Finnish model: Connections to personal occupational well-being

	В	SE	p-value
Model 1, R2 = .373			
Constant	1.566	.509	.002
Total competence scale	.225	.094	.017
Balance of the mental workload	.538	.038	<.001
Model 2, R <sup>2</sup> = .419			
Constant	1.507	.502	.003
1. Teaching competence and collaboration with students	159	.093	.098
2. Research and project expertise	029	.070	.682
3. Language and teaching technology competence	.029	.063	.646
4. Professional competence and training	.420	.072	< .001
Balance of the mental workload	.509	.037	< .001

Note: B = unstandardized coefficients, SE = standard deviation, Age, work experience as an educator, and highest education level are controlled.



# Conclusions and implications for future

- Occupational well-being and the balance of mental workload varies in different countries
- Competence and balance of mental workload are positively related to personal occupational well-being
- Moderate level of occupational well-being which prevailed amongst the educators, the mental workload on health care educators requires further attention.
- Interventions are needed to reduce mental workload and increase occupational well-being





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