

WORKPLACE MENTAL HEALTH

SYMPOSIUM



COPSOQ INTERNATIONAL NETWORK

Mohsen Mohsenabadi

Ph D Candidate of Ergonomics

SHIRAZ UNIVERSITY OF MEDICAL SCIENCES



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Psychometric Properties of the Persian Version of COPSOQ III

Validity and Reliability study

Overview of COPSOQ.

- Reliability of the Original version
- Changes from last
- Various languages and versions
- Usage and performance



Why Persian?

- Iranian different culture
- Workers population in Iran
- Different managerial systems in Iranian industries
- Iran as a developing country

Criteria of Entering and Exiting

- 21y-o at least
- 3 years of employment and experience
- Educated to high school

Expelled by:

- No consumption of:
 - Narcotic drugs
 - Psychotropic drugs
 - Psychological Medication
- Wide defects in the answers





Translation

The Forward-Backward Method

1- Two English Experts and one of the researchers

2- Two other experts for backward

3- Finalization:

- Three English specialists,
- Two psychologists,
- An occupational health professional,
- A social science expert



Participants

 workers of industrial centers in Northeast Iran

• various industries selected

o power structures

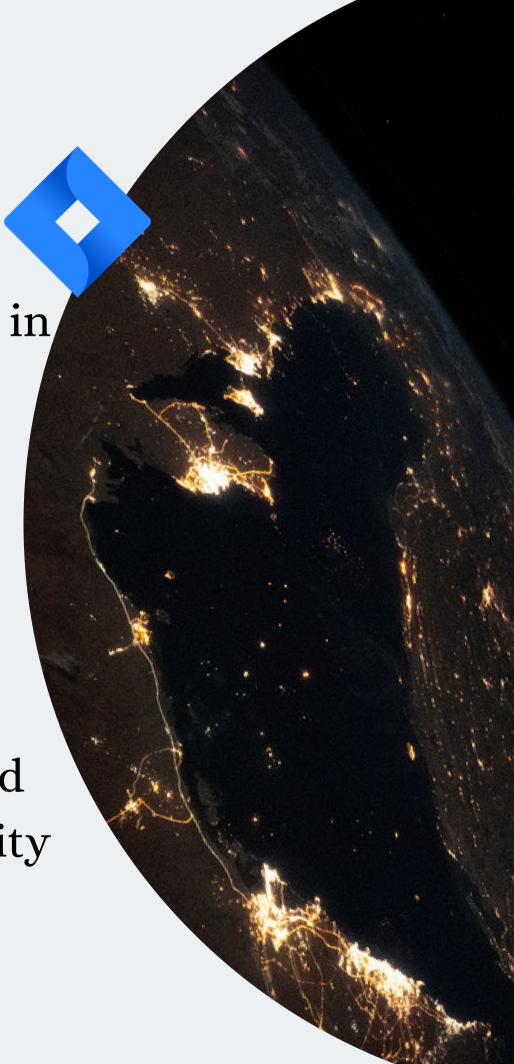
o railway industries

steel industries

cement production

• 3760 individuals were expected

• 316 people of this community presented





Statistics

Internal Consistency

Chronbach's Alpha

Validity Criteria

content validity (CVR/CVI)

convergent validity with WAS

RMSEA

construct validity (CFA)

Confirmatory Model

• 5 Main Domains

Analytical Tools

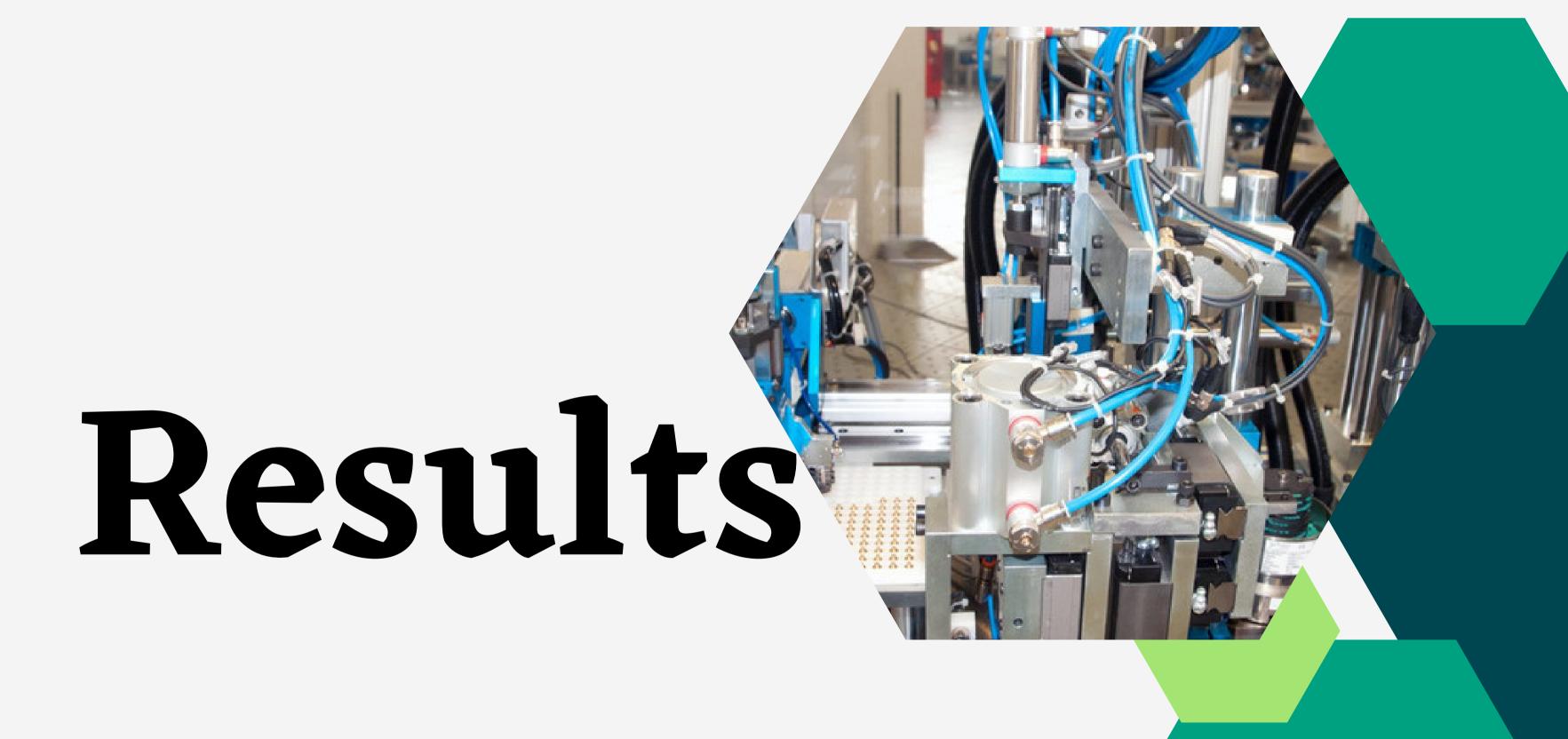
- SPSS 21.0
 - Correlations
 - Regressions
 - Cronbach's Alpha
- AMOS
 - o confirmatory model
- Microsoft Excel 2016
 - Data Collection



Questionnaires

- Sociodemographic
- Persian Translated COPSOQ III
 - Demands at work
 - Work Organization and Job Contents
 - Work-Individual Interface
 - o Interpersonal Relations and Leadership
 - Social Capital
- WAS (0 to 10 score)





COPSOQ

Items	n (%)	
Sex		
Male	230 (72.78)	
Female	56 (17.72)	
NA	30 (9.50)	
Age		
21-30	27 (8.54)	
31-39	192 (60.76)	
≥40	67 (21.20)	
NA	30 (9.50)	
Marital status		
Single	83 (26.26)	
Married	203 (61.24)	
NA	30 (9.50)	
Working sector		
Industrial worker	146 (46.20)	
Service worker	87 (27.53)	
Office worker	83 (26.26)	
Job tenure		
3-6	61 (19.30)	
7-10	112 (35.44)	
11-14	67 (21.20)	
>14	76 (24.05)	

Sociodemographics

Table 1: Demographic and jobrelated characteristics of the study population

Cronbach's Alpha Scores

Reliability and scale characteristics of the dimensions.

Dimensions	Cronbach's Alpha	%C**	%F**
Qualitative 0.87		18.5	9.4
	0.87	9.8	13.8
Demands		15.6	25.4
W-d-D	0.72	20.7	5.8
Work Pace 0.73	0.73	17.8	1.1
		15.2	18.8
Emotional	0.76	17.4	13.4
demands		10.5	12.3
Demands for		10.9	15.9
Hiding	0.82	13	10.5
Emotions		27.2	7.2
i i i i i i i i i i i i i i i i i i i		15.6	6.9
Influence at Work 0.81	0.01	14.9	17.0
	0.81	14.9	18.8
		32.6	5.4
Control Over Working Time		10.9	17.8
	0.77	3.6	31.9
	0.77	6.5	21.7
		10.5	61.6
Social Support		29.7	5.4
from Supervisor	0.72	19.6	6.5

Illegitimate Tasks*	20	10.9	17.4
Quality of	0.80	16.7	7.2
		21.7	5.1
Leadership		19.9	5.4
Tab Impagneity	0.77	20.7	14.5
Job Insecurity		22.5	16.3
Insecurity		19.6	17.0
over Work	0.73	12.3	20.7
Conditions		21.4	13.4
Quality of Work*	<u>=</u>	14.5	5.1
Horizontal Trust*	73	8.7	9.8
	0.78	20.3	3.3
Vertical Trust		29.0	2.9
		17.4	7.2
T.1.		16.3	10.1
Job	0.78	16.3	6.5
Satisfaction		7.2	17.0
Organizational	0.00	141	6.5
Justice	0.80	17.0	12.3
Work Life	0.88	25.7	11.6
Conflict		23.6	11.6
General Health*	2:	21.0	8.0

Crombach's Alpha Scores

Reliability and scale characteristics of the dimensions.

Cronbach's Alpha Scores

Reliability and scale characteristics of the dimensions.

Social Support	0.70	13.0	8.7
from Colleagues		15.2	9.8
Sense of	0.64	36.6	6.2
Community at Work		50.7	4.3
Possibilities	0.76	25.7	6.2
for		28.6	6.2
development		21.7	8.0
Meaning of		38.0	4.7
Work		52.2	1.4
Predictability 0.75	0.75	13.8	7.2
	0.75	17.8	2.9
Recognition *	1928	19.6	9.4
Role Clarity	0.67	34.8	5.1
		35.9	1.4
		35.5	3.6
Role Conflicts	0.56	11.2	11.2
		8.3	7.6

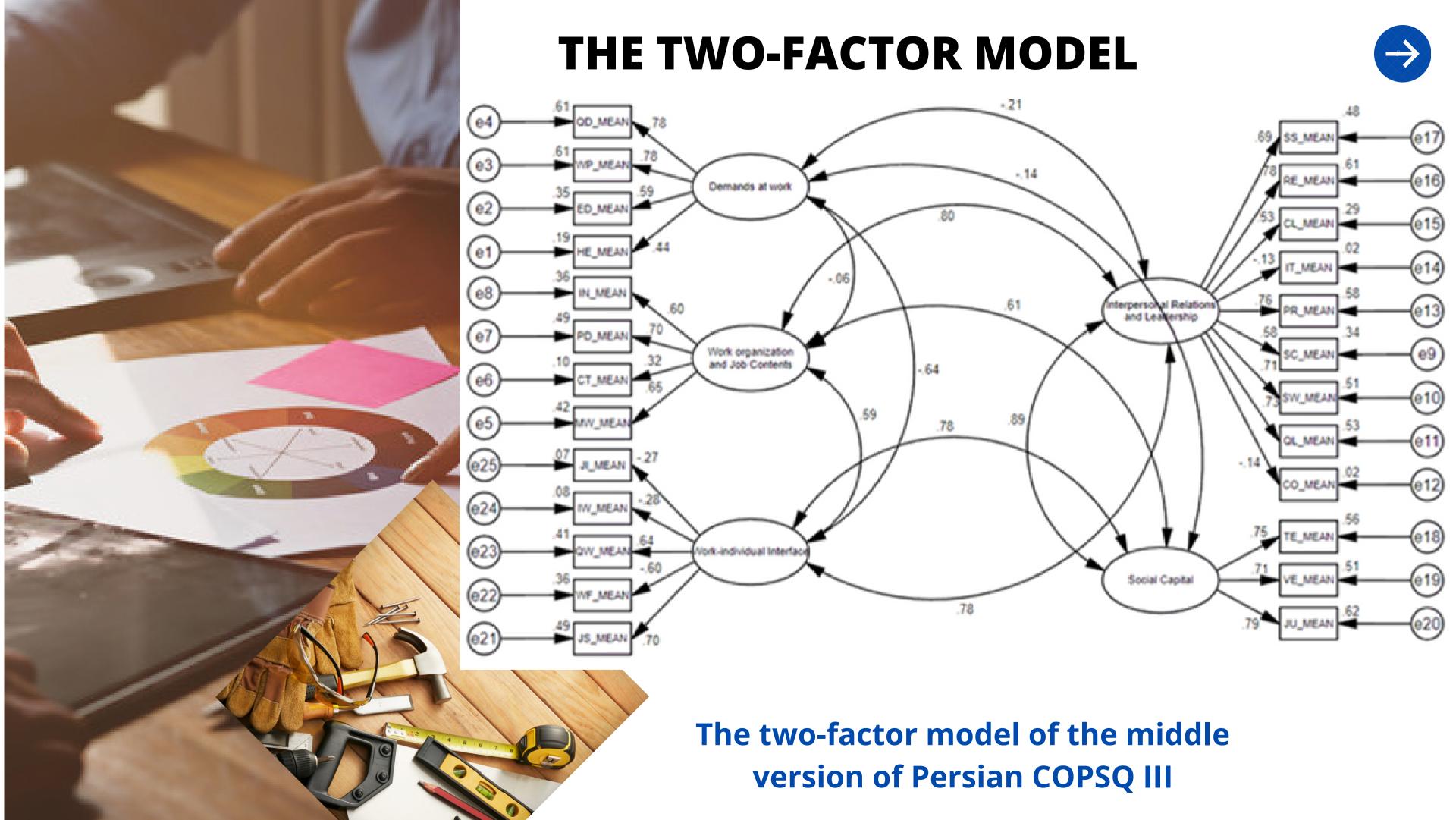
Correlation between the Persian version of COPOQ III and WAS

Dimensions	Pearson correlation	р
Quantitative demand	238	.000
Work pace	187	.002
Emotional Demands	266	.000
Demands for Hiding Emotions	.082	.172
Influence at Work	.090	.135
Possibilities for Development	.208	.001
Control over Working time	.124	.040
Meaning of Work	.285	.000
Predictability	.302	.000
Recognition	.309	.000
Role Clarity	.350	.000
Role Conflicts	072	.234



Correlation between the Persian version of COPOQ III and WAS

Illegitimate Tasks	078	.199
Quality of Leadership	.292	.000
Social Support from Supervisor	.334	.000
Social Support from Colleagues	.128	.034
Sense of Community at Work	.301	.000
Job Insecurity	129	.032
Insecurity over Working Conditions	017	.780
Quality of Work	.331	.000
Horizontal Trust	.185	.002
Vertical Trust	.223	.000
Organizational Justice	.181	.003
Work Life Conflict	239	.000
Job Satisfaction	.446	.000
General Health	.472	.000



DISCUSSION

COPSOQ

The current study was conducted to evaluate the psychometric properties of the Persian translation middle version of the COPSOQ III.



Validity and Reiliability COPSOQ

Turkish

internal consistency $(\alpha = 0.70)$

Portuguese

internal consistency

 $(\alpha = 0.86)$



CFA Model

all dimensions are categorized into 5 domains to analyze CFA.

- 1. Demands at work
- 2. Work Organization and Job Contents
- 3. Work-Individual Interface
- 4. Interpersonal Relations and Leadership
- 5. Social Capital



MAS



All dimensions Correlated Except:

- 1 HE-Hiding Emotions
- 2 IN-Influence at Work
- 3 CO-Role Conflicts
- 4 IT-Illegitimate Tasks
- 5 IW-Insecurity over Work Conditions







Limitations

- self-report in cross-sectional studies
- the sample size
- heterogeneity in terms of gender
- categorize the dimensions into five domains



Conclusions

This is the first study to examine COPSOQ III in Persian on

316 Workers from different Industries of Northeast Iran

This study confirmed the reliability and validity

20 Million Workers

3670 Workers

316 Workers

So is Comparable to 3670 workers in the selected area Since 20 Million Workers of Iran

Our Team

Occupational Health Department
Ergonomics Faculty

Mazandaran University of Medical Sciences



Dr. Syavosh Etemadinejad Manager



Dr. Omid Kalteh Correspondence



Dr. Mousavi nasab

Statistics



Dr. Mohsen Mohsenabadi Executor



THANK YOU

9th international workshop on COPSOQ

Dedicated to those involved in organizing the workshop

Mr. John Oudyk and Mrs. Wolf

Occupational Health Clinics for Ontario Workers

Mazandaran University of Medical Sciences, Iran

Shiraz University of Medical Sciences, Iran

- M.Mohsenabadi@gmail.com
- **②**@Mohsen_M.Abadi

+98-919-492-2018

+98-920-630-9293