

How important is it to use a "valid" questionnaire to measure workplace stress?

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How important is it to use a "valid" questionnaire to measure workplace stress?

- In the HR field there are all kinds of surveys available to workplaces surveys that claim to measure engagement, job satisfaction, workplace culture, burnout, work/life balance, etc.
- Very few of authors of these commercially available surveys have published any evidence regarding their validity and reliability of their instruments.
- There are also **disagreements about the need** to establish the validity of questionnaires: some saying its "overkill".
- What does it mean to use a "valid" questionnaire?



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They've been using surveys for psychosocial assessments for years in the EU ...

- European Framework Directive on Health and Safety at Work (89/391/EEC), which came into force on January 1st 1993 was interpreted as including psychosocial risks as a part of the workplace risk assessment
- European Parliament's Resolution A4-0050/99 (February 25, **1999**) specified the goals of workplace well-being to include psychosocial aspects
- These were generic requirements (i.e. "assess risks including psychosocial") without specific performance evaluations (similar to our current state of affairs with violence & harassment policies) and were largely ignored or only paid lip-service to
- Within the **last 10-15 years** EU members have been passing very specific regulations requirement the measurement of psychosocial hazards and some even so far as requiring the quantitative demonstration of the effect of interventions
- EU 2012 enforcement "blitz" on psychosocial risk assessment





... also, in many South American countries





About

Reports v Public Data File Resources v Contact Us

Office of Personnel Management (1) Federal Employee Vlewpoint Survey



(෦») Empowering Employees. Inspiring Change. **2023 survey:**

- just over 650,000 respondents
- about 120 questions
- raw data available online
 <u>https://www.opm.gov/fevs/about/</u>

Help improve this site

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CSA Voluntary Standard Z1003-13





CAN/CSA-Z1003-13/BNQ 9700-803/2013 National Standard of Canada (reaffirmed 2022)

Psychological health and safety in the workplace —

Prevention, promotion, and guidance to staged implementation

Disponible en français Santé et sécurité psychologiques en milieu de travail — Prévention, promotion et lignes directrices pour une mise en œuvre par étapes

http://shop.csa.ca/en/canada/occupational-health-and-safety-management/cancsa-z1003-13bnq-9700-8032013/invt/z10032013/?utm_source=redirect&utm_medium=vanity&utm_content=folder&utm_campaign=z1003

> Commissioned by the Mental Health Commission of Canada





The 13 Psychosocial Factors:





(CAN/CSA-Z1003-13/BNQ 9700-803/2013 - Psychological health and safety in the workplace - Prevention, promotion, and guidance to staged implementation; page 8.)

Two questions we often get asked:

1. Does your survey measure the CSA 13 factors?

2. Is it a validated survey?



CSA 13 factors vs. COPSOQ 18-23 factors

- Psychological Support
- Organizational Culture,
- Clear Leadership & Expectations
- Civility & Respect
- Psychological Demands
- Growth & Development,
- Recognition & Reward •
- Involvement & Influence
- Workload Management
- Engagement
- Balance *
- Psychological Protection
- Protection of Physical Safety

- quantitative demands support from colleagues
- work pace
- emotional demands
- Influence
- role clarity
- meaning of work
- role conflicts
- predictability
- rewards (recognition)
- quality of leadership
- social support from supervisor
- possibilities for development
- commitment to the workplace

- job insecurity
- work-life imbalance
- → vertical trust
- → justice & respect
- general health
- symptoms (4)
- offensive behaviours (6)
- H&S/work env. (10)
 - culture/climate (3)

Items that make up a scale:

Guarding Minds @ Work

PF9: Workload Management

- 1. I feel my job is secure.
- 2. I have sufficient time to complete my work.
- 3. Deadlines are reasonable.
- 4. The frequency of staff turnover is reasonable for our sector.
- 5. The amount of work I am expected to do is reasonable for my position.
- 6. I can talk to my supervisor about the amount of work I have to do.
- 7. I can do my job effectively with the tools and equipment provided.

- **PF1: Psychological Support**
- **PF2:** Organizational Culture
- **PF3: Clear Leadership & Expectations**
- **PF4: Civility & Respect**
- **PF5: Psychological Demands**
- **PF6: Growth & Development**
- **PF7: Recognition & Reward**
- **PF8: Involvement & Influence**
- **PF9: Workload Management**
- **PF10: Engagement**
- **PF11: Balance**
- **PF12:** Psychological Protection
- **PF13:** Protection of Physical Safety

Ways to assess questionnaire validity

- 1. Face validity would a respondent feel you had covered the scope of the topic
- 2. Content validity do experts feel it covers the scope of the topic
- **3.** Criterion validity can you compare the measurement to a gold standard (if there is one)
- **4. Construct validity** do the scales function the way the theory predicts (factor analysis)
 - a) Convergent validity does the measure correlate with other measures it should correlate with
 - **b) Discriminant validity** can the scale does not correlate with measures that it shouldn't correlate with
 - c) Predictive validity it can predict who falls into their proper category, or will be within a certain range of scores





Face validity:

- While generally not taken very seriously, face validity was very important to MIT group – wanted to ensure the scope of the topic had good coverage from the perspective of the user
- Pilot administrations brought numerous suggestions of items that were missing
- Anecdotally we heard that simply filling out the expanded survey was "educational" in itself
- The length of the survey is always an issue, tried to strike a balance between being too long and incomplete – maximum tolerable seems to be at about 20-25 minutes for the majority (significant minority feel this is too long: typically, 10-25% abandonment which includes those who just want to see the content but not participate)



Workplace Psychosocial Scales

from the COPSOQ III CORE survey & COPSOQ II Short

Work demands:

quantitative demands: not having enough time to get your work done work pace: having to work at a high pace to get your work done emotional demands: doing work that involves emotional issues

Work organization:

influence: having influence over the amount of work and how to do it possibilities for development: able to learn new things, take initiative meaning of work: feeling your work is important and meaningful commitment: feeling your workplace makes a positive contribution

Work relationships:

predictability: being kept well informed, having enough information recognition: being appreciated and treated fairly role clarity: knowing what is expected and having clear objectives leadership: supervisor has planning skills & values your job satisfaction supervisor support: your supervisor listens and helps colleague support: your colleagues provide support & sense of community role conflicts: contradictory demands; having to do work inefficiently

COPSOQ International Network

Work values (Social Capital):

vertical trust: information from mgmt is
trustworthy; mgmt trusts worker
justice & respect: conflicts resolved
fairly, work distributed fairly

Job/employment factors:

insecure job: being worried about needing to find another job unstable job: being worried about changes in working loads/tasks job satisfaction: all things considered, being satisfied with work work/life conflict: time/energy away form work affected by job demands

Offensive behaviours:

sexual harassment; threats of violence; physical violence; bullying



Additional Items & Scales

scales/items added by the Mental Injury Tool (MIT) group:

Work demands:

- unpaid hours/week
- work through breaks
- % time doing paperwork
- shift work

Measures of employment precarity:

- full time/ not full time
- primary wage earner
- work for another employer
- job security

Job/employment factors:

- hours worked per week
- accommodation for outside responsibilities
- workplace has sufficient resources
- staffing levels are adequate

Personal/job demographics:

- seniority
- hours worked per week
- management status
- age category
- gender
- education
- job class/category

Workplace culture/climate:

- accident investigation attitudes (look for cause, or to blame)
- violence & harassment policy effectiveness
- tolerance of behaviours harmful to mental health
- rating of psychological H&S

additional Offensive behaviours:

- discrimination
- vicarious offensive behaviours



Workplace environment and H&S concerns:

workstation quality:

- thermal comfort
- air quality
- physical factors (noise & lighting)
- ergonomics

hazardous exposures/activities:

- dangerous chemicals
- biological
- radiation
- driving
- safety
- working alone

Long COPSOQ Health & Symptoms:

- self-rated health
- stress
- burnout
- sleeping troubles
- somatic symptoms
- cognitive symptoms

Content validity



- MIT group appreciated the work and intentions in the selection of items for the COPSOQ II – attempting to span the major theories of workplace stress
- Academic partners also endorsed COPSOQ II and had some experience using COPSOQ scales in investigations (Bernadette Stringer & Ted Haines et al (2008) "Final Report on Evaluating Mental Health Works: a feasibility study")
- The website with the psychometrics and the history of the development of the scales was quite valuable and appreciated
- Published scientific literature seems to appreciate the breadth of COPSOQ (<u>https://www.copsoq-network.org/publications-on-copsoq/</u>)



Theoretical Framework (construct):

- The intent was to create an instrument that measured psychosocial risk factors by covering the important dimensions of the seven theories of workplace stress:
 - 1. The job characteristics model (JCM)
 - 2. The Michigan organization stress (MOS) model
 - 3. The job demands-control model (DC)
 - 4. The sociotechnical (ST) approach
 - 5. The action-theoretical (AT) approach
 - 6. The effort-reward imbalance (ERI) model
 - 7. The vitamin model (VM)
 - 8. also absorbed other models such as Organizational Justice, over the yrs
 - 9. recently demonstrated that elements are also consistent with the Job Demands Resources (JD-R) model







Key factors mentioned in CSA Z1003



"From this perspective, law and science agree that risks to mental health are more likely to arise and contribute to a psychologically unsafe workplace in the following situations:

a) **Job demands** and requirements of **effort**: Job demands consistently and chronically exceed worker skill levels or exploit them beyond what would be considered reasonable for a particular type of undertaking, or where work is distributed inequitably.

b) Job control or influence: Discretion over the means, manner, and methods of their work (including "voice" or the perceived freedom to express views or feelings appropriate to the situation or context) is withheld from workers by choice rather than because of the intrinsic nature of the work.

c) **Reward**: Praise, recognition, acknowledgement, and credit are withheld from workers for no good business reasons.

d) **Fairness**: There is consistent failure or refusal to recognize and accommodate the reasonable needs, rights, and claims of workers. Perceptions of such failure can arise from feelings that decisions are made without attention to due process.

e) **Support**: Support with regard to advice, direction, planning, and provision of technical and practical resources and information (to the extent that they are available within the organization) is withheld from workers by choice rather than because of some systematic constraint within the organization."



Section A.3.2 page 19

Effort-Reward Imbalance (ERI – Seigrist, 1996)

- "An alternative theoretical model, which looks at the reward rather than the control structure of work"
- Effort is what the worker contributes
 - over-commitment is recognized as a risk factor
- Rewards are broken down into 3 categories:
 - money (e.g., adequate salary, pay raise),
 - esteem (e.g., respect and support), and
 - security/career opportunities (e.g., promotion prospects, job security and status).





Job Demand-Control model (JDC – Karasek, 1979)



"In the JDC model there are two different hypotheses, the strain hypothesis and the learning hypothesis."

- strain hypothesis
- learning hypothesis

"In the eighties the model expanded with a social dimension. The Job Demand-Control-**Support** (JDCS) model acknowledges that social support is vital for the employee when coping with different demands at work."



Organizational Justice Model (Elovainio, Kivimäki & Vahtera, 2001)



Originally conceived as two dimensions of procedural and relational justice

"In the work life context, it is a question not only of distributing resources and obligations, but also of the procedures and rules that guide the decision-making in the organization. Studies of these rules and procedures have provided the basis for a new line of research that evaluates leadership and social relationships in working communities; that is, **distributive**, **procedural**, and **relational** justice."

"Justice at the Workplace: A Review" by Virtanen & Elovainio

Camb Q Healthc Ethics. 2018 Apr;27(2):306-315

Job Demands-Resources (JD-R – Demerouti, Bakker & Schaufeli, 2001)

An attempt to unify existing theories:



"Demands are said to be physical or social aspects of a job that require efforts and thus have physical and mental costs, and ..."

"resources as workplace or organisational aspects that help with the achievement of work goals, reduce demands, or stimulate growth and development. "



Mark, G.M. Smith, A.P. 2008. *Stress models: A review and suggested new direction*. Vol. 3. EA-OHP series. Edited by J. Houdmont S. Leka. Nottingham University Press. 111-144.

When all you have is a hammer, all your problems look like nails:

The tool (theory) you select will shape the possible "solutions"





Differing Perspectives:

Psychology

focus on what's going on between the ears

- individual only
 - ("responsibiltisation")

Psychosocial



P. Schnall, Session # 1 – Part 1: Introduction to "Work and Health", UCLA SPH EHS 270/CHS 278 Spring 2009 (March 31, 2009) focus on the interaction between the social environment and the personindividual and collective responsibilities

Items (Questions) & Scales (Group of Questions)

Items (2-item scale – COPSOQ Quantitative Demands):

- 1. How often do you not have time to complete all your work tasks?
- 2. Do you get behind with your work?

Response options:

Always (1); Often (2); Sometimes (3); Seldom (4); Never/hardly ever (5)

To a very large extent (1); To a large extent (2); Somewhat (3); To a small extent (4); To a very small extent (5)

Yes, daily (1); Yes, weekly (2); Yes, monthly (3); Yes, a few times (4); No (5)



Strongly agree (1); Agree (2); Neutral (3); Disagree (4); Strongly Disagree (5)

over all self-reported health



 Psychology and Health Vol. 26, No. 11, November 2011, 1407–1413



https://www.tandfonline.com/doi/full/10.1080/08870446.2011.621703

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EDITORIAL

Why does self-rated health predict mortality? An update on current knowledge and a research agenda for psychologists

'How in general would you rate your health – poor, fair, good, very good or excellent?' This simple question is typically labelled self-rated health (SRH) and is also known as self-assessed health, self-evaluated health, subjective health or perceived health. The large number of studies using this item is in stark contrast to its brevity and simplicity. Its value as a predictor of mortality and other health outcomes makes this paradox even more intriguing, especially since in most of the studies SRH retained an independent effect even after controlling for a wide variety of health-related measures that cover medical, physical, cognitive, emotional and social status (see reviews by Benyamini & Idler, 1999; Idler & Benyamini, 1997).

Interpreting the scale scores:

Fixed/absolute values

5 questions (items) per scale; with 4 response options each; all questions measuring positive (the higher the score the better); possible scores of 5-20; all scales have the same interpretation:

5-9 serious concerns10-13 significant concerns14-16 minimal concerns17-20 relative strengths

Relative values

- Scales of different lengths with varying response options (frequency, intensity, agreement), scores converted to a 0-100 scale; some scale positive, others negative
- Compare to population average; each scale has a different benchmark
- Minimal meaningful difference: about 0.2-0.5 standard deviation from population mean (depending on the scale)

Results (fixed scales):

Serious concerns* = Strongly Disagree*					
Significant concerns* = Somewhat Disagree*					
Minimal concerns** = Somewhat Agree*					
Relative Strengths*** = Strongly Agree*					

Balance	11.9%	25.4%	4	2.9%	19.8%			
Civility and Respect	4.8% 10.7%	46	.0%		38.5%			
Clear Leadership and Expectations	2.4% 15.2%	53.3%			29.0%			
Engagement	5.6% 14.7%		47.2%		32.5%			
Growth and Development	5.8% 17.3%		42.5%		34.4%			
Involvement and Influence	7.6% 16.2%		45.7%		30.5%			
Organizational Culture	6.7% 11.0%		46.7%					
Protection of Physical Safety	4.3 <mark>% 12.4%</mark>		48.6%					
Psychological Competencies and Demands	6.7% 15.7%		46.2%		31.4%			
Psychological Protection	8.2% 12.6%		48.6%		30.6%			
Psychological and Social Support	7.1% 19.5%	6	46.7%		26.7%			
Recognition and Reward	6.0% 17.1 %		39.7%		37.2%			
Workload Management	6.7% 19.5%	6	51.4%		22.4%			
	0 10 2	20 30	40 50	60 70	80 90 100			



How well are the questions (items) and scales perform:

- Average score (for 0-100 scale, average should not be <20 or >80)
- Percentage missing (>2% start to be concerned)
- Ceiling effects (>15% at the maximum possible score)
- Floor effects (>15% at the minimum possible score)
- Response option endorsement (no single response option should have >40% of the total response for that item)
- Internal consistency (Cronbach's α for 3 or more items; Spearman-Brown statistic for scales with 2 items; either >0.6-0.7)
- Correlation matrix, no items with Spearman rho correlation > 0.70



		English (n=3237)			French (n=771)						
	number	mean	Cronbach's	%	%	%	mean	Cronbach's	%	%	%
	of items	score	α	missing	floor	ceiling	score	α	missing	floor	ceiling
quantitative demands	2	46	0.611	0.5%	6.4%	3.3%	41	0.851	0.4%	9.1%	1.6%
work pace	2	60	0.706	1.4%	1.2%	8.3%	62	0.740	1.9%	1.5%	10.1%
emotional demands	3	46	0.782	0.2%	4.6%	2.2%	47	0.779	0.4%	3.1%	1.7%
influence	2	49	0.720	0.1%	6.6%	5.5%	48	0.736	0.1%	6.6%	3.2%
lities for development	3	70	0.753	1.3%	0.7%	11.4%	69	0.747	1.8%	0.7%	8.7%
meaning of work	2	70	0.886	4.6%	3.2%	25.9%	74	0.810	2.6%	1.7%	23.2%
tment to the workplace	2	61	0.722	0.6%	4.1%	12.0%	64	0.645	0.4%	2.2%	10.5%
predictability	2	53	0.782	0.6%	4.9%	6.0%	56	0.794	0.6%	3.7%	6.9%
rewards (recognition)	2	62	0.837	2.6%	4.0%	13.9%	65	0.724	2.5%	1.6%	14.2%
role clarity	2	71	0.827	0.9%	1.6%	19.9%	72	0.852	0.8%	1.2%	20.8%
role conflicts	3	48	0.826	0.9%	6.1%	3.8%	48	0.827	1.2%	2.1%	3.9%
quality of leadership	2	55	0.857	2.4%	6.0%	5.2%	59	0.845	1.2%	2.8%	6.6%
upport from supervisor	3	67	0.855	2.2%	4.4%	23.8%	67	0.856	1.0%	3.0%	20.1%
upport from colleagues	2	74	0.728	0.9%	0.9%	20.6%	74	0.690	0.5%	0.4%	15.8%
job insecurity	3	33	0.692	0.7%	16.4%	1.5%	27	0.721	0.6%	20.4%	1.4%
	_										
job satisfaction	1	70		0.7%	4.1%	24.4%	71		0.6%	2.6%	23.9%
work-life imbalance	3	46	0.797	0.2%	7.8%	7.0%	40	0.843	0.6%	13.6%	6.3%
trust of mgmt	2	65	0.794	0.3%	2.6%	12.6%	69	0.767	0.6%	1.2%	14.0%
justice & respect	2	58	0.780	0.3%	3.7%	8.3%	61	0.737	0.8%	1.7%	7.2%
							-				

qu	antitative demands
	work pace
	emotional demands

influence
possibilities for development
meaning of work
commitment to the workplace

predictability
rewards (recognition)
role clarity
role conflicts
quality of leadership
social support from supervisor
social support from colleagues

job insecurity

job satisfaction
work-life imbalance
trust of mgmt
justice & respect

A "perfectly" balanced scale:





A "perfectly" balanced scale:



average score: 50


skewed scales:





average score: 77

0

11

average score: 26

Excessive endorsement of a single response option (<40%)

		score		
0	25	50	75	100
14.3%	27.0%	36.9%	15.6%	6.1%
11.9%	25.9%	29.8%	23.8%	8.5%
4.3%	12.7%	41.3%	27.1%	14.5%
3.8%	11.4%	32.5%	35.2%	17.1%
9.5%	13.9%	22.6%	25.1%	28.8%
19.9%	24.7%	33.4%	16.9%	5.1%
15.0%	19.7%	29.8%	23.1%	12.3%
12.7%	18.4%	30.0%	27.7%	11.2%
15.6%	20.9%	32.7%	22.1%	8.7%
13.9%	21.6%	31.3%	20.6%	12.6%
5.6%	11.0%	28.4%	33.7%	21.2%
3.0%	6.6%	18.7%	37.8%	33.9%
2.5%	6.6%	22.9%	36.8%	31.2%
5.2%	8.2%	22.1%	33.1%	31.5%
3.8%	6.5%	20.4%	34.3%	35.0%
	14.3% 11.9% 4.3% 3.8% 9.5% 19.9% 15.0% 12.7% 15.6% 13.9% 5.6% 3.0% 2.5% 5.2%	14.3%27.0%11.9%25.9%4.3%12.7%3.8%11.4%9.5%13.9%19.9%24.7%15.0%19.7%12.7%18.4%15.6%20.9%13.9%21.6%5.6%11.0%3.0%6.6%2.5%6.6%5.2%8.2%	0255014.3%27.0%36.9%11.9%25.9%29.8%4.3%12.7%41.3%3.8%11.4%32.5%9.5%13.9%22.6%19.9%24.7%33.4%15.0%19.7%29.8%12.7%18.4%30.0%15.6%20.9%32.7%13.9%21.6%31.3%5.6%11.0%28.4%3.0%6.6%18.7%2.5%6.6%22.9%5.2%8.2%22.1%	025507514.3%27.0%36.9%15.6%11.9%25.9%29.8%23.8%4.3%12.7%41.3%27.1%3.8%11.4%32.5%35.2%9.5%13.9%22.6%25.1%19.9%24.7%33.4%16.9%15.0%19.7%29.8%23.1%12.7%18.4%30.0%27.7%15.6%20.9%32.7%22.1%13.9%21.6%31.3%20.6%5.6%11.0%28.4%33.7%3.0%6.6%18.7%37.8%2.5%6.6%22.9%36.8%5.2%8.2%22.1%33.1%

item	0	25	50	75	100
q13 work is of great importance to you	7.1%	10.3%	24.9%	35.3%	22.3%
q14 recommend to apply for a position	11.3%	11.5%	25.9%	31.2%	20.0%
q15 you informed well in advance	17.5%	18.0%	29.7%	25.6%	9.2%
q16 receive all the info you need	5.7%	14.0%	29.7%	37.3%	13.3%
q17 work recognised appreciated by mgmt	11.3%	13.1%	27.1%	30.1%	18.4%
q18 treated fairly	5.5%	8.6%	23.3%	37.8%	24.8%
q19 work have clear objectives	3.2%	7.3%	24.2%	40.3%	24.9%
q20 know exactly what is expected	2.5%	5.4%	19.4%	43.8%	28.9%
Q22N2 contradictory demands	17.9%	23.5%	30.6%	17.6%	10.3%
Q22N3 should do work a different way	11.0%	19.9%	37.1%	21.1%	10.8%
Q22N4 doing unnecessary work	13.8%	22.0%	33.7%	19.2%	11.3%
q21 immediate superior gives high priority to job satisfaction	13.0%	11.1%	29.1%	32.8%	14.1%
q22 immediate superior is good at work planning	12.3%	11.3%	31.4%	32.3%	12.8%
Q22Q superior is good at solving conflicts	13.8%	12.6%	28.6%	30.5%	14.5%
q23 nearest superior willing to listen	6.1%	9.0%	21.9%	28.2%	34.7%



score				
0	25	50	75	100
7.8%	11.3%	25.2%	28.6%	27.1%
3.0%	6.9%	24.2%	38.4%	27.5%
1.3%	2.7%	14.9%	45.9%	35.1%
38.7%	24.9%	19.9%	8.8%	7.7%
24.5%	17.8%	23.2%	16.5%	17.9%
61.2%	17.5%	11.9%	5.9%	3.5%
3.8%	8.2%	16.2%	47.4%	24.3%
6.0%	8.6%	27.5%	38.6%	19.2%
4.3%	7.9%	24.3%	42.4%	21.1%
7.3%	10.5%	31.5%	36.4%	14.4%
7.2%	13.1%	33.3%	34.5%	11.8%
0	33	67	100	
18.7%	32.4%	30.9%	18.1%	
29.3%	29.9%	26.5%	14.3%	
27.5%	34.6%	20.7%	17.2%	
	7.8% 3.0% 1.3% 38.7% 24.5% 61.2% 3.8% 6.0% 4.3% 7.3% 7.2% 0 18.7% 29.3%	7.8% 11.3% 3.0% 6.9% 1.3% 2.7% 38.7% 24.9% 24.5% 17.8% 61.2% 17.5% 3.8% 8.2% 6.0% 8.6% 4.3% 7.9% 7.3% 10.5% 7.2% 13.1% 0 33 18.7% 32.4% 29.3% 29.9%	025507.8%11.3%25.2%3.0%6.9%24.2%1.3%2.7%14.9%38.7%24.9%19.9%24.5%17.8%23.2%61.2%17.5%11.9%3.8%8.2%16.2%6.0%8.6%27.5%4.3%7.9%24.3%7.3%10.5%31.5%7.2%13.1%33.3%0336718.7%32.4%30.9%29.3%29.9%26.5%	02550757.8%11.3%25.2%28.6%3.0%6.9%24.2%38.4%1.3%2.7%14.9%45.9%38.7%24.9%19.9%8.8%24.5%17.8%23.2%16.5%61.2%17.5%11.9%5.9%3.8%8.2%16.2%47.4%6.0%8.6%27.5%38.6%4.3%7.9%24.3%42.4%7.3%10.5%31.5%36.4%7.2%13.1%33.3%34.5%0336710018.7%32.4%30.9%18.1%29.3%29.9%26.5%14.3%



Question:

JS4 Regarding your work in general. How pleased are you with your job as a whole, everything taken into consideration?



Job Satisfaction

V

How are the scales correlated with each other?

- Scales measuring psychosocial factors need to be distinct, yet can be related to each other to a certain degree
- "Quantitative Demands" and "Work Pace" would be expected to occur together (scales expected to correlate) but not always – somewhat distinct but related
- the correlation coefficient measures the degree to which two scales occur together: 1.00 (or -1.00) is considered perfect correlation; on the other extreme 0.00 is no correlation at all; correlations can be positive or negative
- Any two scales with a correlation of >0.70 (or <-0.70) should be reviewed to see if they measure the same thing





https://www.simplypsychology.org/correlation.html



										1						
Spearman Correlations of COPSOQ Scales	quantitative demands	work pace	emotional demands	influence	possibilities for development	meaning of work	predictability	rewards (recognition)	role clarity	role conflicts	quality of leadership	social support from supervisor	social support from colleagues	job insecurity	trust of mgmt	justice & respect
quantitative demands	1.000															
work pace	0.356	1.000														
emotional demands	0.349	0.391	1.000													
influence	0.020	-0.093	-0.084	1.000												
possibilities for development	0.119	0.191	0.119	0.452	1.000											
meaning of work	0.037	0.101	0.120	0.330	0.624	1.000										
predictability	-0.115	-0.070	-0.188	0.489	0.408	0.426	1.000									
rewards (recognition)	-0.139	-0.115	-0.267	0.515	0.450	0.441	0.694	1.000								
role clarity	-0.156	0.025	-0.170	0.269	0.347	0.412	0.545	0.576	1.000							
role conflicts	0.311	0.328	0.448	-0.211	-0.047	-0.122	-0.351	-0.412	-0.331	1.000						
quality of leadership	-0.136	-0.119	-0.238	0.386	0.331	0.339	0.590	0.643	0.461	-0.345	1.000					
social support from supervisor	-0.151	-0.147	-0.259	0.389	0.336	0.304	0.501	0.625	0.445	-0.375	0.718	1.000				
social support from colleagues	-0.122	-0.080	-0.185	0.280	0.321	0.342	0.379	0.470	0.382	-0.245	0.412	0.511	1.000			
job insecurity	0.146	0.107	0.193	-0.212	-0.199	-0.258	-0.256	-0.328	-0.262	0.290	-0.182	-0.257	-0.275	1.000		
trust of mgmt	-0.149	-0.102	-0.271	0.388	0.340	0.340	0.596	0.638	0.476	-0.423	0.574	0.515	0.408	-0.247	1.000	
justice & respect	-0.194	-0.190	-0.325	0.406	0.304	0.306	0.601	0.665	0.468	-0.454	0.622	0.568	0.453	-0.253	0.724	1.000

Why are these scales so correlated? (correlation = 0.718)

Quality of Leadership

Scale Questions:

QL2 To w hat extent w ould you say that your immediate superior gives high priority to job satisfactiorQL3 To w hat extent w ould you say that your immediate superior is good at w ork planning?QL4 To w hat extent w ould you say that your immediate superior is good at solving conflicts?

Social Support from Supervisor

Scale Questions: SSX1 How often is your nearest superior willing to listen to your problems at work, if needed? SSX2 How often do you get help and support from your nearest superior, if needed?

... should we combine these two?

Why are these scales so correlated? (correlation = 0.724)

Vertical Trust

Scale Questions:

TMX2 Can the employees trust the information that comes from the management?TM1 Does the management trust the employees to do their work well?

Justice and Respect

Scale Questions:

JU1 Are conflicts resolved in a fair way?

JU4 Is the work distributed fairly?

the combination is defined as social capital



Scale Internal Consistency (Reliability):

Internal consistency is a measure of the **reliability of the scale** (are the items in the scale similar to each other). For scales with only two items, the **Spearman-Brown Statistic** is recommended, and for scales with more than two items **Cronbach's** α is recommended.

Shorter scales have a disadvantage (Cronbach's α generally improves with the number of items in a scale).

Generally values above 0.70 are considered acceptable for empirical studies.

Given the shortness of the scales used in this survey, we consider values between 0.60-0.70 also acceptable even though normally they would be classified as "questionable"



Values between 0.50-0.60 are considered poor and values below 0.50 are considered unacceptable

Scale Internal		scales	items	Spearman- Brown statistic	Cronbach's α
Consistance		quantitative demands	2	0.89	n/a
Consistency		work pace	2	0.84	n/a
(Reliability):		emotional demands	3	n/a	0.78
		influence	2	0.27	n/a
		possibilities for development	3	n/a	0.70
Analysis: reliability failure of the Influence sca	meaning of work	2	0.87	n/a	
the "influence" scale is made up of two questions	commitment to the workplace	2	0.60	n/a	
INX1: Do you have a large degree of influence concerning you		predictability	2	0.71	n/a
IN3: Can you influence the amount of work assigned to you?	?	rewards (recognition)	2	0.78	n/a
the average scores for these questions were:		role clarity	2	0.75	n/a
INX1: 44 IN3: 13		role conflicts	3	n/a	0.81
Quite obviously, there is a big difference between the influence	e over how	quality of leadership	3	n/a	0.88
work is done, as compared to how much work is assigned.		social support from supervisor	2	0.88	n/a
		social support from colleagues	2	0.73	n/a
		job insecurity	3	n/a	0.63
		work-life imbalance	3	n/a	0.78
		vertical trust	2	0.76	n/a
	justice & respect	2	0.69	n/a	

An Ultra-Brief Screening Scale for Anxiety and Depression: The PHQ-4

Kurt Kroenke, M.D., Robert L. Spitzer, M.D. Janet B.W. Williams, D.S.W., Bernd Löwe, M.D., Ph.D.

https://www.sciencedirect.com/science/article/pii/S0033318209708643

Background: The most common mental disorders in both outpatient settings and the general population are depression and anxiety, which frequently coexist. Both of these disorders are associated with considerable disability. **Objective:** When the disorders co-occur, the disability is even greater. Authors sought to test an ultra-brief screening tool for both. **Method:** Validated two-item ultra-brief screeners for depression and anxiety were combined to constitute the Patient Health Questionnaire for Depression and Anxiety (the PHQ-4). Data were analyzed from 2,149 patients drawn from 15 primary-care clinics in the United States. **Results:** Factor analysis confirmed two discrete factors (Depression and Anxiety) that explained 84% of the total variance. Increasing PHQ-4 scores were strongly associated with functional impairment, disability days, and healthcare use. Anxiety had a substantial effect on functional status that was independent of depressive disorders. (Psychosomatics 2009; 50:613–621)



n=4050

2023 results:

positive GAD screen 1074 positive PHQ screen GAD-2 = General Anxiety Disorder 963 symptom screener screened positive: 28.0% 396 285 678 **PHQ-2** = depressive symptoms screener screened positive: 25.0% positive screens for both GAD & PHQ PHQ-4 = anxiety & depressive 678 symptoms screener screened positive: 23.7%

Scale Internal Consistency (Reliability):

scales	items	Spearman- Brown statistic	Cronbach's α
GAD-2	2	0.92	n/a
PHQ-2	2	0.81	n/a
PHQ-4	4	n/a	0.91

... can use these scales separately or together.



Test-Retest Reliability

- After a few weeks, ask some participants to do the survey again (making sure no significant change for the repeat test)
- Compare the two responses (test-retest)

Criteria:

- 1.0 : perfect reliability,
- ≥ 0.9: excellent reliability,
- \geq 0.8 < 0.9: good reliability,
- \geq 0.7 < 0.8: acceptable reliability,
- ≥ 0.6 < 0.7: questionable reliability,
- \geq 0.5 < 0.6: poor reliability,





n=145

Test-Retest Reliability – ICC(2,1)

Results

Intraclass Correlation Coefficient(ICC)

Model	Туре	Unit	Subjects	Raters	ICC
twoway	consistency	single	145	2	0.728

Note. The analysis was performed by 'irr::icc' function.

Results

F test for ICC

					95% CI		
ICC	F	df1	df2	р	Lower	Upper	
0.728	6.36	144	144	0.000	0.642	0.797	





Predictive, Convergent & Discriminant Validity

	i i i i i i i i i i i i i i i i i i i		i	
Burnout	Cognitive	Self-rated Health	Job Satisfaction	Engagement
0.12	0.17			
0.16				
0.24		-0.05		
				0.06
			0.33	0.45
		0.08		0.22
			0.28	0.17
	0.17		-0.11	
		0.10		
	-0.15		0.10	
0.21	0.17	-0.14		
	0.12			
			0.13	
-0.19		0.16		0.11
	0.12 0.16 0.24	0.12 0.17 0.16 0.24 0.24 0.17 0.17 0.17 0.17 0.15 0.21 0.17 0.12	0.12 0.17 0.16 -0.05 0.24 -0.05 0.10 0.08 0.17 0.10 0.17 0.10 0.17 0.11 0.17 0.10 0.117 0.11 0.115 0.11 0.12 0.12	0.12 0.17 0.16 -0.05 0.24 -0.05 0.24 0.33 0.08 0.33 0.08 0.28 0.17 -0.11 0.17 -0.11 0.17 0.10 0.17 0.10 0.21 0.17 -0.14 0.12 0.13

Discriminant analysis example:

EKOS 2019		factors	mgmt & 0 extra hrs	non-mgmt & 0 extra hrs	mgmt & 6+ extra hrs	non-mgmt & 6+ extra hrs
4008		n=	39	91	41	23
45	Domondo et	quantitative demands	40	44	57	58
61	Demands at Work	work pace	54	46	59	71
46		emotional demands	45	45	52	67

wage theft

English Language Psychosocial Surveys (free):

- Guarding Minds @ Work (Canada)
- StressAssess (COPSOQ Canada)
- Management Standards Indicator Tool (UK & Ireland)
- People at Work (Australia)
- The Healthy Work Survey (US)

Which have published validation studies?





Healthy Work Campaign

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ORIGINAL ARTICLE

OPEN



The Healthy Work Survey

A Standardized Questionnaire for the Assessment of Workplace Psychosocial Hazards and Work Organization in the United States

Marnie Dobson, PhD, Peter Schnall, MD, MPH, Pouran Faghri, MD, MS, and Paul Landsbergis, PhD, MPH

Objectives: Work-related psychosocial stressors have been recognized as occupational hazards and assessed in workplaces in many countries for decades. Identifying tools to measure work-related psychosocial hazards to increase awareness in the United States about the impact on employees' health and safety is critical (*J Occup Environ Med.* 2021;63:e245–e249). **Methods:** We describe the development and psychometric validation of an online tool, the Healthy Work Survey, utilizing items from the National Institute for Occupational Safety and Health Quality of Work Life questionnaire. **Results:** There are 55 items in the final core work section of the HWS. Factor analyses confirmed nine factors, and the subsequent multi-item scales had acceptable internal consistency. A user-friendly, online system and automated report compares individual's and organization's scores to distributions from a representative US working population (General Social Survey Quality of Work Life). **Discussion:** The HWS is a reliable, valid tool for organizations and individuals to assess psychosocial work hazards.

LEARNING OUTCOMES

- Occupational health practitioners, researchers, and other professionals interested in workplace surveillance for psychosocial hazard risk will be able to utilize the online Healthy Work Survey system after reading this article.
- Upon completion of reading this journal article, occupational health practitioners, researchers, and other professionals will be able to justify and explain why the psychosocial risk assessment tool is valid and helpful to employers and/or other organizations they work with.



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Psychological health and safety ~ Resources Y FAQ

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People at Work

A free and validated Australian psychosocial risk assessment survey https://www.peopleatwork.gov.au/



People at Work:

Create your account > **People at Work** About People at Work > > process Start your People at Work Gain an understanding Learn about People at Work: journey by registering for of the five step People the funding partners a free account. at Work process. and research history. Psychological health > FAO Resources > and safety A hub of useful resources for Find out about your workplace Find answers to frequently your workplace and workers. responsibilities, psychosocial asked questions about hazards and building People at Work. a business case.

Helping to create psychologically healthy and safe workplaces

Evidence for the validity of the Australian People at Work survey

- "The tool is a combination of a number of different measures that were already developed to assess the presence of psychosocial hazards all of which had their own psychometric properties. They were then considered in line with how they performed in combination to assess psychosocial hazards together in the management of psychosocial risk in the Australian context. The benefit of **using measures that were already developed was that they had a long history of being validated across different contexts** and industries which is important in large scale use such as what we have seen with People at Work tool." (personal email communication with Katharine Smith, April 4/24)
- In other words, they picked pre-existing scales and relied on other people's validation studies



HSE (UK) online survey:



http://www.hse.gov.uk/stress/standards/notesindic atortool.htm

Notes on HSE Management Standards Indicator Tool

The HSE Management Standards Indicator Tool should be used in conjunction with the HSE Management Standards Indicator Tool User Manual. The HSE Management Standards Indicator Tool is also available in a number of different languages on HSE's Management Standards website.

If you plan to use the HSE Management Standards Indicator Tool as part of a customised 'pick and mix' approach:

There are a number of ways in which you may wish to incorporate some of the Management Standards survey tools into your own customised approach. Some of these are listed below:

- Incorporating HSE Management Standards Indicator Tool into your own survey: You may wish to incorporate the HSE Management Standards Indicator Tool into your own survey. In this case, we would suggest that you keep the question wording and scoring system the same and the items in the same order and use the HSE Management Standards Analysis Tool to analyse your results. If you use other software to carry out a preliminary analysis of the data, please note that the scoring system is reversed for some items.
- Using online survey tools: You may wish to use the HSE Management Standards Indicator Tool in conjunction with a commercially available survey tool to conduct an online survey. Once you have completed the

Study published on the validity of the HSE Management Standards Indicator Tool

• Edwards et al. (2008) "Psychometric Analysis of the UK Health & Safety Executive's Management Standards"

https://www.researchgate.net/publication/48989953 Psychometric_Analysis_of_the_UK_Health_Safety_Executive%27s Management_Standards_Work-Related_Stress_Indicator_Tool

"Data collected from 39 UK organizations (N = 26,382) was used to perform a first-order Confirmatory Factor Analysis (CFA) on the original 35-item seven-factor measurement scale. The results showed an acceptable fit to the data for the instrument."

"A second-order CFA was also performed to test if the Indicator Tool contains a higher order uni-dimensional measure of work-related stress. These findings also revealed an acceptable fit to the data, suggesting that it may be possible to derive a single measure of work-related stress." https://www.workpositive.ie/

GET STARTED / LOGIN

WORKPOSITIVE

1. PREPARE 2. MEASURE 3. ACTION PLAN 4. REVIEW Q

HSE Management Indicator Tool + PHQ-4

Positively supporting employee engagement and wellbeing

Work Positive^{CI} is a FREE State and stakeholder supported psychosocial risk management process that helps organisations identify ways to improve employee wellbeing.

Welcome to StressAssess



Web-App: www.StressAssess.ca



Results of Reliability & Validation Studies

with the help of **Peter Smith** from the IWH:

- ✓ Face validity
- ✓ Content validity
- ✓ Test-retest reliability
- ✓ Internal consistency (Cronbach's α , ICC)
- ✓ Confirmatory factor analysis

✓ Discriminant and convergent validity (correlations)

... published February 2019





Research Excellence Advancing Employee Health



DOI: 10.1002/ajim.22964

RESEARCH ARTICLE https://onlinelibrary.wiley.com/doi/full/10.1002/ajim.22964

Dissecting the effect of workplace exposures on workers' rating of psychological health and safety

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⁴Occupational Health Clinics for Ontario Workers, Toronto, Ontario

Correspondence

Abstract

Objectives: To validate the factor structure of the Copenhagen Psychosocial Questionnaire (COPSOQ) in a North American population and dissect the associations between psychosocial factors and workplace psychological health and safety.

WILEY

Methods: Confirmatory factor analysis and multivariate linear regression were used to determine the associations between COPSOQ dimensions and a global rating of workplace psychological health and safety. Models were stratified by sex, gender Safety and Health at Work 10 (2019) 482-503



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journal homepage: www.e-shaw.net

Original Article https://www.sciencedirect.com/science/article/pii/S2093791118302725

The Third Version of the Copenhagen Psychosocial Questionnaire

Hermann Burr^{1,*}, Hanne Berthelsen², Salvador Moncada³, Matthias Nübling⁴, Emilie Dupret⁵, Yucel Demiral⁶, John Oudyk⁷, Tage S. Kristensen⁸, Clara Llorens^{3,9}, Albert Navarro^{9,10}, Hans-Joachim Lincke⁴, Christine Bocéréan^{5,11}, Ceyda Sahan⁶, Peter Smith^{12,13,14}, Anne Pohrt¹⁵, on behalf of the international COPSOQ Network

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New for 2023:



Guarding Minds at Work and all supporting resources are now more useful. In addition to tracking the psychosocial factors described in the National Standard of Canada on Psychological Health and Safety in the Workplace, the report will include a measurement of the psychosocial hazards described in the International Organization for Standardization (ISO) 45003:2021. Indicators of workplace inclusion, stress and trauma have also been added, yet employees will not need additional time to complete the survey and everything will remain free of charge. Learn more about the <u>2023 Guarding Minds update</u>.

GUARDING MINDS AT WORK VALIDATION STUDY

Heather Stuart PhD, FRSC, C.M. QUEEN'S UNIVERSITY June 2020 "A different approach is to assume that **the GM@W survey is an index** where the structures and practices measured by the presence of each questionnaire item can be understood as creating (not reflecting) the culture of an organization."

"Two omnibus questions were chosen to reflect aspects of a psychologically safe workplace culture. These variables were:
(a) People at my workplace understand the importance of protecting employee psychological safety and
(b) My work does not threaten my psychological health."

"This analysis approached validation of the GM@W survey items from the perspective of an index, meaning that their presence in a workplace would create a psychologically safe culture. Statistical analysis supported the validity of the survey items and the domains. The result is **a redesigned survey and a new resource for employers that is aligned with both ISO45003 and the Canadian standard z1003**."



G4: Stress & Trauma Indicator, n=20



Comparison of workload scales:



Individual questions (grouped by scale) results:

"Prease note that individual Guarding winds at Wonesurvey items need to be considered in the context of the Psychostical Factor to which they belong. Each tem was carefully selected to reflect specific and complementary aspects of that particular factor. Individual questions are much less valid if taken out of context, thus increasing the inclusion of misinterpretation and mappropriate action."

"These graphs combine and average the responses for all statements for each factor. <u>When data is combined, we may lose</u> <u>important information</u>. While this graph can be used as a general point of reference, it is highly recommended that you <u>review each</u> <u>individual item within each factor</u>. The individual items help you identify issues requiring action to improve psychological health and safety."



65 items; 13 CSA factors; 21 ISO factors; 2 indicators = 101 outcomes to consider

Request a Demo

https://www.worktango.com/resources/articles/what-is-survey-validity-and-why-does-it-matter



ARTICLES

What is Survey Validity and Why Does it Matter?

in 🅑

Table of Contents

A Validated Survey Measures What it Should

Question and Survey Design Assessment

How a Survey is Validated

Employee Surveys, After All, Depend On It

In a list of the <u>toughest academic courses in the world</u>, statistics ranks tenth. To say that the collection and interpretation of data is complex is an understatement for most. That's why survey validity expertise is a fundamental must in matters of employee feedback—assuming, of course, that you want solid, reliable data from which to make decisions.

Some liken statistics to epistemology; the study or investigation into the nature of knowledge, ways of asking how we can learn about the world, and how **certain we can be about that knowledge**. Plato and Descarte, among countless other philosophers pondered ways of knowing and learning about social reality. To a certain extent survey methodologists, statisticians, social and behavioral scientists, and the likes, walk in their stead today.



EMPLOYEE EXPERIENCE - 5 MIN READ Last updated April 18, 2023

What do validation and significance mean in employee surveys?

Why does validation not always matter?

There are three reasons why asking whether a question has a sufficient or even helpful.

1. There's no easy or often practical way to pre-validate ne organization were there is no validated form of the specific question that you important is asking the most meaningful questions to your organization.

You don't need a survey at all to understand how your people are feeling

At the end of the day, what we're doing in employee feedback is <u>studying real people to see</u> <u>how they feel about their working environment</u>. If we discover something meaningful to the organization we work in it shouldn't matter if the methods are validated or the results are statistically significant. The most important question is always whether the question or results are meaningful to your organization.

- 2. It's possible to validate a question in your own organization. If we ask a question in our organization and find that it's predictive of something, that in itself is validation. People often forget that we're conducting live research in our organizations. So if you can predict when people are leaving or how positive someone is about various aspects of your workplace because of your research, there's your validation.
- 3. Just because a question is validated doesn't guarantee that asking it will give you anything meaningful for your organization. The validation may have been done decades ago or for a context that is no longer relevant.
 https://www.cultureamp.com/blog/employee-survey-validation-significance

Summing it all up:

- 1. You don't need an evidence-based survey to assess psychosocial conditions (you don't need a survey at all, for that matter)
- 2. A survey for which there is evidence that it performs reliably and validly in a population similar to yours, allows you to know what you are measuring and that it is reasonable stable (repeatable)
- 3. A workplace devoted to making things better can use a **poor tool** and still make improvements
- 4. A workplace not interested in changing can use an **excellent tool** and not make any progress
- 5. It's not the tool (although a good tool makes it easier), it's the commitment to change that makes it work or not
- 6. Hopefully, this peak behind the curtain with respect to gathering evidence for survey validity and reliability may **help you choose**



Thank you! ... any questions/comments?

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