The impact of work stress on health

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Zagreb, Workplace risk assessment, 24.05.2019.1

World Health Organization

- Health is "a state of (complete) physical, mental and social well-being and not merely the absence of disease or infirmity."
- Mental Health is "a state of well-being in which the individual realizes his or her own abilities, can cope with the normal stresses of life, can work productively and fruitfully, and is able to make a contribution to his or her community."





Continuum of mental health and wellbeing





Promoting mental health: concepts, emerging evidence, practice. Geneva, WHO, 2005.



There is no definition of stress that everyone agrees on, what is stressful for one person may be pleasurable or have little effect on others. We allreact to stress differently.

What is Stress ?

It's the Gap Between Our Expectation & Reality. more the gap, more the Stress so Expect Nothing & Accept Everything.



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Lazarus R. i sur, Stress, appraisal and coping, New York: Springer, 1984.



DR. ANDRIJA ŠTAMPAR



Brain



Job/work/occupational stress

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"A condition araising from interaction of people and their jobs, adaptive response to an external situation characterized by changes (physical, psychological and/or beavioral) within people that force them to deviate from their normal funcioning." (Beehr and Newman)



Level of work stress	Causes of work stresss		
Small everyday stress			
causes			
workplace conditions	distance from home, equipment and space nonadequacy, low working resources, insufficient staff, shift work and overtime, low income, workplace insecurity		
processes in the workplace	organizational changes, legal regulations and clinical protocols, administrative burdens and lack of digitization, poor work organization (no priorities, unequal delegation of tasks without clear deadlines), overload		
communication	lack of information, vague communication, inappropriate content/tone		
interpersonal relationships	role ambiguity, conflicts, disrespect, rivalry, lack of support and group cohesiveness, lack of teamwork or supervision		
mismatch between wishes and opportunities	unrealistic expectations and perfectionism, lack of control due to lack of information, discouragement of creativity, lack of competences - inability and obligation of professional development, uncertainty in terms of business prospects, and opportunities for growth and development		
unwanted outcomes	lack of co-operation and disrespect by patients, reduction of harm or recovery - no cure, violent incidents, deaths		
manager style	organization and delegation of work, communication, suport		
Great stress with suffering	job loss or change		
Traumatic stress with longterm cosequences	violent incidents, mobbing at work Dyrbe L i sur, Med Educ, 2016.		

Burnout syndrome (BS)



- named by psychologist Herbert Freudenberger (1974.)
- ALARM SIGNAL "Stop and change your life, if you continue this way you will die!"
- psychological syndrome (Z73.0) 3 dimensions (emotional exhaustion, loss of empathy, feeling of personal failure) (ICD, WHO)
- responding to exposure to intense and long lasting stress
- the most prominent professions: students, teachers, doctors, nurses, psychologists, social workers, firefighters, soldiers, pilots, cops, managers, brokers, waitresses, actor, TV and radio speaker, journalist, reporter
- high prevalence (3-7% general population, 5% students, 25-75% doctors)
- subtypes (frenetic, underchallenged, worn-out) (Montero- Marin J i sur, PLoS One, 2014., BMC Psychiatry, 2012.) Maslach C i sur., World Psychiatry, 2016.

Etiology

• multifactorial - individual factors + job realted factors



- protective factors extraversion, stress coping skills + job satisfaction
- risk factors neuroticizm, inadequate stress coping skills, neglect own needs, unrealistic expectations (imbalance between effort and rewards), (Violanti JM i sur, Police Q, 2018., Maslach C i sur., World Psychiatry, 2016., Botha E i sur., JBI Database System Rev Implemment Rep, 2015.)

Phase of BS Symptoms	Honeymoon	Initial disappointment	The withdrawal	Depression of exhaustion
Cognitive	optimism, good concentration, increase alertness, expectation of success, recognition or earnings	the loss of idealism because of the disappointment of unfulfilled expectations, decline in attention	decline in concentration and memory, self-neglect, pessimism	intellectual exhaustion with difficulty of concentration, creativity and learning, negativism, life seems rather unimportant
Emotional	delight, euphoria, motivation	hypersensitivity (sound, smell, heat, light,), mood imbalance, insecurity, nervousness	irritability, frustration, intolerance, loss of empathy and cynicism	emotional exclusion, depression, feeling of helplessness, failure, despair, hopelessness, apathy
Behavioral	work hard	delay and postponement of jobs, prolonged breaks	non-acceptance of new work tasks, conflicts, more smoking, use alcohol and coffee	isolation from people, inability to change, excessive smoking, alcohol, coffee
Somatic Paganin D i sur, Sprir Paganin D i sur, Scad Maslach i sur., World	Psychiatry, 2014.,	energy fall, fatigue, insomnia, daily drowsiness, loss of appetite and libido	energy conservation, headache, loss of immunity, infections, allergies, PMS	physical exhaustion with frequent absences due to illness

Level	Consequences of BS in healthcare org.			
Individual	negative effects on persons health, productivity, relationships somatic - headaches, migrains, infections, allergies, chronic back pain, fibromyalgia, obesity, diabetes, autoimmune disorders (rheumatoid arthritis, lupus, multiple sclerosis, thyroiditis), acne, psoriasis, neurodermatitis, infertility, dysmonarrhae, impotence, asthma, thyroid disease, gastritis and			
	infertility, dysmenorrhea, impotence, asthma, thyroid disease, gastritis and ulcus, irritable bowel syndrom, ulcerative colitis, hypertension, heart disease, myocardial infarction, stroke, carcinoma			
	mental problems (17-52%) - anxiety disor., depression, addiction, suicidality			
	negative effects on professionalism - work performance, negative workplace relationships (nonverbal and verbal affront, underminning activities, witholding information, sabotage, failure to respect privacy and broken confidences), career continuation (absenteeism, drop in work abilities), job turnover (leaving the profession prematurely, early retirement)			
Organizational	reduced workplace productivity and efficiency, reduced practice revenue, affect quality of care (delivery and emotional support of patients)			
Patients	increased risk of patient safety incidents (medication, diagnostic, decision making) and suboptimal attidudes to patients (little attention to the social/ personal impact of an illness, increasing violence against patients), lower patient satisfaction Panagioti M i sur., JAMA Intern Med, 2018., Bonnie AC i sur, Systematic Reviews, 2017., West CP i sur., Lancet, 2016., Fothergill A i sur., Int J Soc Psychiatry, 2004.,			

- tracking, recognizing and reducing stress based on the connection of physical sensations, emotions, thoughts and behaviors (Baker K i sur, AMA J Ethics, 2016.)
- interventions improve the resilience (Harolds JA, Clin Nucl Med, 2018., 2019., Balch CM i sur, Adv Surg, 2010.)
- occupational hygiene less work stress, more satisfaction (Koreki A. i sur, BMC Research Notes, 2015.)







- raising **awareness** of stress impact on health better recognitions
- restructuring of cognitive distorsions related to work realistic expectations (Regehr C i sur, J Nerv Nent Dis, 2014., Regehr C i sur, J Affect Disord, 2013., Harolds JA, Clin Nucl Med, 2018., 2019.)

Cognitive distorsions	Positive thoughts		
catastrophizing - disastrous prediction of	belief in itself without anticipating the future		
outcome			
compulsions (rules, unrealistic	not forcing (flexibility, forgiveness, unexpected)		
expectations)			
reduction of positive (praise, forgiveness)	dismissal (training of retention and dismissal of		
and over-emphasizing negative (criticism)	thought)		
emotional thinking	patience (identification and emptying of		
	emotions)		
positive/negative thinking + labeling	nonconforming (do not react to everything,		
	think in gray)		





- by recognizing and empowering emotions we master new skills that result in the development of personality and resistance (applying existing skills to fit the environment into oneself - cognitive-affective assimilation)
 - suppressing emotions remain in consciousness as unwanted and recurrent thoughts, and unpleasant feelings resulting in cognitive and behavioral avoidance of causes of stress (changing the existing skills to fit into the environment cognitive affective acomodation) (Lazarus R. et al., Stress, appraisal and coping, New York: Springer, 1984)
- **strenghtening self-control** by recognizing negative unpleasant emotions and developing positive emotions
 - understand the emotions you feel (if you ignore them you feel worse)
 - breathe slowly and deeply (so you direct attention)
 - replace emotions with positive activity (recreation, relaxation, conversation) or change space (go to another room, outdoors)
 - create a list of activities that helped you for another time (write) (Ogbunya TC et al, Psychol Rep., 2018)

Self-care is not selfish It's self-respect

- self care better whole health
 - enough sleep, healthy food, relaxation (meditation, yoga, spa, hobby, walk, nature, travelling, reading, music, dance, cinema, theater, friendship), recreation (Almasry M, Int J Med Educ, 2017., Kuhn CM i sur., Can J Anesth, 2017., Harolds JA, Clin Nucl Med, 2018., 2019.)
- developing and maintaining a friendships and good familiy relationships - better support system (Fares J i sur, J Epidemiol Glob Health, 2016., Ishak W i sur, Clin, Teach 2013.)
- life skills training resilience promoting
 - **time management** (get more organized work day, keep balance between working and leisure time, prioritise tasks and solve problems, break big projects into steps, set deadlines and remainders)
 - self-criticism and responsibility (tidy your worksplace and remove distractions, make decisions responsibly, set realistic goals geared to your abilities, be focused on work (rest 5 min/25 min of work)
 - self-esteem and asertiveness (say no and set limits, stop multitasking and delegate tasks)
 - communication skills and conflict resolution (Braun J i sur., Aktuelle Urol, 2019.)



Mindfulness-Based Stress Reduction (MBSR) (Harolds JA, Clin Nucl Med, 2018., 2019.)

- increases activity and thickness of PFC (self-healing) and hippocampus, reduces amygdala activity (emotional response)
- better regulation of affect with more flexible psychological and behavioral responses to internal and external stimuli
- 8 weeks (2,5h per week) 4 types of formal practices (body scan awareness, yoga mindful movement, walking and sitting meditation, discussion about application of mindfulness at work) (Goodman MJ i sur., Int J Psyc Med, 2012.), brief (4h) (Gilmartin H. i sur., Am J Med, 2017.)
- focusing attention to "here" and "now,,, to ourselves (body, emotions and thoughts, thoughts are mind produced, evoke patterns of behavior, change habits, and make a more conscious decision) and to the world around us (explore the environment sounds, smell, observe with attention, focus on touches) (Tang YY et al., Soc Cogn Affect Neurosci, 2013, Goyal M et al., JAMA Intern Med 2014)



Individual interventions for burnout syndrom

recognize and change your stressors

- **change your view of the situation** (Harolds JA, Clin Nucl Med, 2018., 2019.)
- change the pattern of work (less) and lifestyle (more vacations, adopting healthier lifestyle) (Lloyd C i sur, Ir Vet J, 2017.)
- find help
 - no self treatment with medicaments (bzo), alkohol, drugs, food
 - colleagues, friends, professional help (stigma, medical records) (Kuhn CM i sur., Can J Anaesth, 2017.)
- treatment fundamental insight and changes in behavior

	Adjustment	Strategies	Non adjustment
\mathbb{N}	transforming expectations, seeking information, planning,	cognitive	self-reliance, denial, neglect
	focusing on positive aspects of the situation		
	seeking support, openly expressing emotions, learning to	behavioral	escape in imagination
	make a defeat		
	fostering good relationships, avoiding impulsiveness,	emotional	avoiding action, binge eating,
	taking action		excessive smoking, medicaments,
			alcohol, coffee
	enough sleep, healthy food, relaxation (meditation, yoga,	physical	insomnia, obesity, self treatment
	spa, walk, nature, dance), recreation		

Organizational interventions



- significantly more effective than individual interventions (Clough i sur., Systematic Reviews, 2017.)
- organizations have major role in causing, preventing and mitigating burnout (Panagioti M i sur, JAMA intern Med, 2018., 2017., Andolsek KM, FP Essent, 2018.)
- positive organizational cultures, appropriate business communication
- responsible resource management (people, space, time, finance)
- protocols, reducing administrative burdens, computerization
- improving the meaning of work and work satisfaction (good management for better working conditions and human relationships, continuous professional education, autonomy) (Koreki A i sur, BMC Research Notes, 2015.)
- practicing the leaders (Shanafelt TD i sur., Mayo Clinic Proc, 2015.)
- support groups
 - teamwork and supervision (van Wyk BE i sur., Cochrane Database Syst Rev, 2010.)

Organizational interventions



- organizations must invest in efforts to improve staff (doctor) wellness
 - measurement and monitoring work stress
 - open conversations on issues and potential solutions
 - reducing the stigma related to seeking care
 - work digital mental health interventions (Axisa C i sur, Aust Health Rev, 2019., Carolan S i sur., J Med Intenet Res, 2017.)
 - professional coaching (Gazelle G i sur, J Gen Intern Med, 2015.)
 - mind body workplace stress reduction programs (Wolever RQ i sur., J Occup Health Psychol, 2012., Joyce S i sur, Psychol Med, 2016.)
 - interventions based on cognitive or behavioural principles
 - stress management/coping, communication, cognitive reappraisal skills
 - mindfulness course (MBSR, MBSP, brief MP) (Pang D i sur., J Occup Health Psychol, 2019.,McConville J i sur., Explore, 2017., Heckenberg RA i sur., J Psychosom Res, 2018.)
 - **meditation or yoga asanas** (Puerto Valencia LM i sur., Occup Med, 2019., Pascoe MC, J Psychiatr Res, 2017., Pascoe MC i usr., Psychoneroendocin, 2017.)
 - physical activities (Isoard-GautheurS i sur.,Workplace Health Saf, 2019., Chu AH i sur, Occup Med, 2014., Bhui KS i sur, J Envirron Public Health, 2012.)
 - at work (or vauchers for free time)

Engagement is defined by 3 Factors. How Employees...

Conclusions



"Factors at personal and organisational levels contribute to burnout and somatic/psychiatric morbidity, and so efforts made to counter these problems sholud target both levels.

Burnout

- has reached epidemic levels in health care organizations so is system issue, rather than individuals
- is associated with significant costs to doctors, patients and healthcare systems

Interventions based on cognitive or behavioural principles have the greatest evidence base, are moderately effective and can be easily integrated.

Engagement is the positive antithesis of burnout characterized by vigor, dedication and absorption in work.

There is a strong business case for organizations to invest in efforts to reduce burnout and promote engagement." (Shanafelt TD i sur., Mayo Clinic Proc, 2017., Imo UO, BJ Psych Bull, 2017.)

