

Appendix 3

Table 4 Key Determinants of Dental Nurses' Health and Well-being of Included Studies

Study Author/ Date	Professional group	Micro level factors			Meso level factors		Macro level factors		
		Personal Factors	Professional/ Social relationships	Professional Career Level	Job Specification	Workplace Characteristic	Dental Healthcare System	Regulation	Profession
Yousra H.AL JAZAIRY et al., 2014	Dental assistants	Females satisfied compared to men	satisfied with their professional and personal life	degree linked to satisfaction	Satisfied assisting dentists	Those in private practice and those working less were more satisfied	Low income		
AL-OMOUSH, S et al., 2019	Dentists, dental technicians, and dental assistants	Hearing affected by age				Dental Assistants had poorer hearing in left ear			
ALANKO, K et al., 2004	Dental nurses					Occupational hazard-dermatoses			
ALZAHEM, A et al., 2020	Dentists, dental assistants, Lab technicians and dental hygienists	Burnout linked to age, sex, and marital status.		Low accomplishments					
AZODO, C et al., 2011	Dentists, dental nurses, dental technologists, dental therapists, record officers					Workplace violence linked to long waits, cancellations, intoxication, and bills			

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GOETZ, K et al., 2016	Dental nurses		Satisfied with colleagues	long length of employment	Clear responsibility within team	Satisfied by job variety, working less linked to improved well being			
BANAKAR, M. et al., 2023	Dentists, dental hygienists, dental assistants, and dental students	COVID-19 anxiety				Consecutive shifts and assistants linked to high PTSD symptoms			
DAJPRATHA M, P. et al., 2010	Clinical instructors, postgraduate students and dental assistants					Occupational hazard-musculoskeletal problems like pain, which affected health			
DREHER, A. et al., 2021	Dental assistants	Old age was linked to increase in perceived risk of infection	Family with the virus was linked to feeling PPE was inadequate		Lack of information and preparation during Covid-19	Increased risk of COVID-19, lack of PPE, Financial uncertainty during Covid-19			
FREEMAN, R. et al., 2021	Dental trainees and primary dental care staff	Depressive symptoms were less emotional exhausted				High quality service linked to emotional fatigue			
GNICH, W. et al., 2014	Extended duty dental nurses				Extended duty dental nurses (EDDNs) were satisfied with their role	Barriers and facilitators of duties			

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HAKANEN, J. et al., 2014	Dentist/nurse dyads		Friendly dentists-to exhaustion in nurses						
HAMASHA, A. et al., 2019	Dentist, dental assistant, hygienists, dental lab tech	Non-Saudis were more satisfied than Saudis				Quality of service linked to satisfaction	Low satisfaction with income		
HILT, B. et al., 2009	Dental assistants					Cognitive effect from occupational exposure to mercury			
HUMPHRIS, G. et al., 2021	Vocational dentist, therapist hygienist, Trainee Nurses, dental nurses	Emotional exhaustion				Some primary care staff were not prepared to take care of their health and stress	Financial concerns for practice owners due to Covid-19	Lack of control of redeploying	Anxiety and sadness from low professional recognition
JAAKKOLA, M. et al., 2007	Dental assistants	Atopic disease				Exposure to methacrylate at work			
KHADER, Y. S. et al., 2009	Dental assistants					Fairly satisfied with their job			
KIRLI, M. & KIRLI U., 2021	Dentists, nurses, data entry/cleaning staff					Increased anxiety restarting procedures			
KOTHA, S. B. et al., 2023	Dental assistants	Depressive symptoms				Work was challenging during the Covid-19 pandemic			

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LINDFORS, P. et al., 2006	Dentists, dental hygienists, and dental nurses	General health problems, increasing age linked to UED				UED linked to poor physical, psychosocial work environment			
MAHENDRAN , K. et al., 2020	Administrative, dental nurses, dental technicians, and dentists	Fears of the virus on personal health, high anxiety	Self-isolation from family and social distancing due to Covid -19	Uncertainty of impact of Covid -19 on training and career progression	Changing work patterns, outside scope, and higher risk settings due to Covid -19	PPE scarcity			
MEKHEMAR, M. et al., 2021	Dental nurses	Psychologic al impact of pandemic	Lower anxiety in single people			Private clinic higher psychological impact			
MINAMOTO, K. et al., 2012	Dentists, hygienists, technicians, assistants, and receptionists	Young age linked to eczema				Occupational Hazard – Eczema			
NAIDU, R. et al., 2006	Therapists-UK, NZ dental nurses- T&T					Lowest job satisfaction in nurses-Trinidad and Tobago			
NAIDU, R. S. et al., 2002	Dental nurse	Career breaks due to family reasons	Childcare responsibility	Unsatisfied by career development		Job satisfaction linked to unsatisfactory work conditions	Confused about legislation		Dissatisfied with CEs available to them
PARTIDO, B. et al., 2020	Dentists and dental assistants					Poor ergonomics was linked to muscular pain			

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PLESSAS, A. et al., 2021	Dentists and dental nurses		UDCs strengthened working relationship			Using strategies to maximize efficiency during Covid-19 challenges	Undervalued and ignored during COVID-19	Worries about litigation in covid-19 role	Dissatisfied with communicati on from chief dental officer
RADFORD, P. & MCKAY, A., 2020	Dental nurses			Training and CPD	Recognise their vital role	‘Referrals made by dentists’, ‘parental pressure’ and ‘demands placed on nurses’			
SAMAT, R. A. et al., 2011	Dentists, dental nurses, dental technicians, and dental surgery assistants					Compromised posture was linked to back pain			
SANDHU, B. K. et al., 2021	Dental nurses, dentists, dental core trainees		Isolation from family, but good teamwork during COVID-19		New skills, knowledge gained via redeployment during covid-19	Constantly changing guidance, lack of suitable personal protective equipment			
SCEPANOVIC, D. et al., 2019	General dentists, dental specialists, dental technicians, and dental assistants	Musculoskel etal pain was more common in women than in men							

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TURNER, S. et al., 2012	Dental nurses			CPD increased clinical responsibilities and skills	Majority felt mandatory CPDs had not influenced role	Feeling respected, more involved, and important due to extended duties	Negative financial impact of mandatory registration on career	Registration fee too high Agree with compulsory registration and CPD	Issues with the funding of continuing professional development (CPD)
UHLEN, M. et al., 2021	Dental specialists, general dental practitioners, dental hygienists, and dental assistants	Female participants concerned about Instability and Infection	Socially distanced from family and friends due to job responsibility			Increased work experience was associated with not expressing fear about instability and being infected and infecting others			
UZIEL, N. et al., 2019	Dental assistants					Stress was linked to income, workload, and work hazards			
WANG, Y. et al., 2021	Dental nurses	Age and exercise linked to work engagement		Higher professional titles liked to higher work engagement					
WIJARANAPHITI, S. et al., 2009	Dental nurses		Need to be accepted by society	Desire to reach Self-actualization	Stress caused by role conflict	Motivation liked to better performance			
ZHANG, Y et al., 2022	Dentists and dental nurses	Older age was linked to psychologic distress				Low income, burn out, linked to psychological distress			

