

Supplementary Table 1. Factors associated with WRMSDs using machine learning

Variable	Factors of WRMSDs
Sociodemographic or Individual	Age, female gender, BMI, height, underlying chronic illness, previous assessment of health status, history of musculoskeletal disease, tobacco consumption, involvement in physical activity, working experience, length of employment, educational level, sleeping duration, marriage status, multiple sick leave and alcohol consumption.
Workplace related	Inadequate rest period, inability to keep with job rhythm, job demand, long working hours without break, working with computers, working with internet or email, loud noise, long working hours or working duration, multiple exits or enter a workplace, increase frequency of work, duration of work, poor working ergonomics, sleeping post duty, poor working instrument ergonomics, frequent interaction with people and work design
Biomechanical	High task repetition, awkward posture, painful postures, prolonged static and sustained body posture, multiple or frequent change of body posture during work, forceful exertion, and exposure to vibrations.
Psychosocial	Feels tired after work, having work-related stress, having burnout, having depression, having post-traumatic stress disorders

Factors are grouped according to domains reported in the original studies.

WRMSD: work-related musculoskeletal disorders; BMI: body mass index.