Introduction The aim of the present study was to evaluate the association between chronotype and age in day and rotating shift workers.

Methods The present cross-sectional study was carried out between October 2012 and February 2015 in a large German chemical company. Employees participating in a regular voluntary occupational health check-up were requested to complete a written questionnaire, which included items on sleeping behaviour extracted from the Munich Chronotype Questionnaire. Inclusion criteria comprised a fully completed questionnaire, not having used an alarm clock on free days, and being employed either as a day or rotating shift worker. Senior executive managers, trainees and interns were excluded. We used univariable and multivariable linear regression analyses to assess the association between age and chronotype (in minutes) in the whole sample and stratified by shift status.

Result Altogether 10,348 persons completed the questionnaire, of which 4040 (39.0%) met the inclusion criteria. Participants were on average 41.8 years old (SD: 10.2), mainly male (75.4%) and engaged in day work (82.3%). Mean chronotype was 03:23 (SD: 54 min.) in the total sample, 03:16 (SD: 55 min.) in day and 03:57 (SD: 35 min.) in rotating shift workers. With increasing age, chronotype declined from 04:00 (±29 years) to 03:08 (±50 years) in the whole sample, and from 03:54 to 02:59 in day and 04:25 to 03:45 in rotating shift workers. Univariable and multivariable linear regression analyses correspondingly showed a significant decline of chronotype with age in both, day and rotating shift workers.

Discussion While day workers could benefit from a chronotype decrease, rotating shift workers could build up an intolerance regarding night work with increasing age. Shift workers might benefit from specific targeted prevention programs including sleep hygiene trainings.

Results Significant decrease in sitting time was the experimental group. The reduction in sitting time was of the subjects attributed the reduction in sitting time to the use of sit-stand tables, of the desk bikes and sit-stand supports was. Half of the subjects revealed that these devices were no important contributors to reduced sitting.

Conclusion A decreased sitting time in the intervention group, subjectively mainly attributed to the use of six important factors, this further.

FREE OF CHOICE OPTIONS TO REDUCE SITTING: DOES IT WORK?

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Abstracts

Introduction Increased cardiovascular diseases, obesity and diabetes are sedentary lifestyle. To tackle this problem, strategies to reduce sitting such as sit-stand tables, very low quality of evidence for the interventions. This study impact of a intervention reduc sitting.

Methods An RCT-study was conducted in the office environment of a pharmaceutical company: presentation of importance of good ergonomics/movement at the office and a check of the ergonomic set-up of the workstation. The experimental group (19) could use sit-stand tables, desk bikes and sit-stand chairs for 4 weeks. Iso a weekly motivation email was sent. Sitting time was measured using ActivPAL™ accelerometers before and after the 4 weeks intervention both groups. Data were analysed using SPSS.

MUSCULOSKELETAL PAIN PREDICTS ILL-HEALTH RETIREMENT AMONG KOREAN WORKERS

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WOMEN AGE 55 AND OLDER WORKING WITH PAIN

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Introduction The average worker in industrialised countries is ageing. The baby boomer generation (born 1946–1965) is gradually reaching retirement age. In Canada, the share of workers in the age 55+ age group is expected to attain 24% in 2031. There is also a shortage of young workers to replace retirees. Although data suggest that at least one in five older workers suffers from chronic musculoskeletal pain, most will...