# **Contents of INDUSTRIAL HEALTH**

# Volume 55, 2017

N		1
17	U.	

Editorial
Tackling psychosocial hazards at work
Masaya TAKAHASHI
Original Articles
Medical costs of asbestos-related diseases in Spain between 2004 and 2011
Montserrat GARCÍA-GÓMEZ, Rosa URBANOS GARRIDO, Rosario CASTAÑEDA LÓPEZ and Alfredo MENÉNDEZ-NAVARRO
Long-term exposure to diesel engine exhaust induced lung function decline in a cross sectional study
Li Ping ZHANG, Xiao ZHANG, Hua Wei DUAN, Tao MENG, Yong NIU, Chuan Feng HUANG, Wei Min GAO, Shan Fa YU and Yu Xin ZHENG
Lifting speed preferences and their effects on the maximal lifting capacity
Chiuhsiang Joe LIN and Chih-Feng CHENG27
The correlation of <i>Acanthamoeba</i> from the ventilation system with other environmental parameters in commercial buildings as possible indicator for indoor air quality
Soo Shen OOI, Joon Wah MAK, Donald K.F. CHEN and Stephen AMBU
The impact of long working hours on psychosocial stress response among white-collar workers  Kyungjin LEE, Chunhui SUH, Jong-Eun KIM and Jae Oh PARK
Safety in ready mixed concrete industry: descriptive analysis of injuries and development of preventive measures  Özge AKBOĞA and Selim BARADAN
Healthcare use for communicable diseases among migrant workers in comparison with Thai workers
Jutarat RAKPRASIT, Keiko NAKAMURA, Kaoruko SEINO and Ayako MORITA67
Role of work uniform in alleviating perceptual strain among construction workers
Yang YANG and Albert Ping-chuen CHAN76
Short Communication
Personal indium exposure concentration in respirable dusts and serum indium level
Satoko IWASAWA, Makiko NAKANO, Hiroyuki MIYAUCHI, Shigeru TANAKA, Yaeko KAWASUMI, Ichiro HIGASHIKUBO, Akiyo TANAKA, Miyuki HIRATA and Kazuyuki OMAE87
Letter to the Editor
Hematocrit level and cardiovascular risk among Thai taxi drivers: additional concern
Viroj WIWANITKIT91

# No. 2

Work to live, to die, or to be happy? Akinori NAKATA	Editorial	
Original Articles  Mechanisms linking authentic leadership to emotional exhaustion: The role of procedural justice and emotional demands in a moderated mediation approach  Judith KAMPA, Thomas RIGOTTI and Kathleen OTTO	Work to live, to die, or to be happy?	
Mechanisms linking authentic leadership to emotional exhaustion: The role of procedural justice and emotional demands in a moderated mediation approach  Judith KAMPA, Thomas RIGOTTI and Kathleen OTTO	Akinori NAKATA	93
demands in a moderated mediation approach Judith KAMPA, Thomas RIGOTTI and Kathleen OTTO	Original Articles	
Judith KAMPA, Thomas RIGOTTI and Kathleen OTTO	Mechanisms linking authentic leadership to emotional exhaustion: The role of procedural justice and emotional	
Taurine inhibits 2,5-hexanedione-induced oxidative stress and mitochondria-dependent apoptosis in PC12 cells Shuangyue LI, Huai GUAN, Zhiqiang QIAN, Yijie SUN, Chenxue GAO, Guixin LI, Yi YANG, Fengyuan PIAO and Shuhai HU	demands in a moderated mediation approach	
Shuangyue LI, Huai GUAN, Zhiqiang QIAN, Yijie SUN, Chenxue GAO, Guixin LI, Yi YANG, Fengyuan PIAO and Shuhai HU	Judith KAMPA, Thomas RIGOTTI and Kathleen OTTO	95
Relationship between job stress and subjective oral health symptoms in male financial workers in Japan Koichi YOSHINO, Seitaro SUZUKI, Yoichi ISHIZUKA, Atsushi TAKAYANAGI, Naoki SUGIHARA and Hideyuki KAMIJYO	Taurine inhibits 2,5-hexanedione-induced oxidative stress and mitochondria-dependent apoptosis in PC12 cells	
Relationship between job stress and subjective oral health symptoms in male financial workers in Japan Koichi YOSHINO, Seitaro SUZUKI, Yoichi ISHIZUKA, Atsushi TAKAYANAGI, Naoki SUGIHARA and Hideyuki KAMIJYO		
Koichi YOSHINO, Seitaro SUZUKI, Yoichi ISHIZUKA, Atsushi TAKAYANAGI, Naoki SUGIHARA and Hideyuki KAMIJYO	Fengyuan PIAO and Shuhai HU	80
and Hideyuki KAMIJYO	Relationship between job stress and subjective oral health symptoms in male financial workers in Japan	
Odour as a determinant of persistent symptoms after a chemical explosion, a longitudinal study  Gro TJALVIN, Nils MAGERØY, Magne BRÅTVEIT, Stein Håkon Låstad LYGRE, Bjørg Eli HOLLUND and Bente Elisabeth MOEN		
Gro TJALVIN, Nils MAGERØY, Magne BRÅTVEIT, Stein Håkon Låstad LYGRE, Bjørg Eli HOLLUND and Bente Elisabeth MOEN	and Hideyuki KAMIJYO11	19
Bjørg Eli HOLLUND and Bente Elisabeth MOEN	Odour as a determinant of persistent symptoms after a chemical explosion, a longitudinal study	
Diagnosis of poor safety culture as a major shortcoming in OHSAS 18001-certified companies  Abolfazl GHAHRAMANI		
Abolfazl GHAHRAMANI	Bjørg Eli HOLLUND and Bente Elisabeth MOEN12	27
Work, sleep, and cholesterol levels of U.S. long-haul truck drivers  Michael K. LEMKE, Yorghos APOSTOLOPOULOS, Adam HEGE, Laurie WIDEMAN and Sevil SÖNMEZ	Diagnosis of poor safety culture as a major shortcoming in OHSAS 18001-certified companies	
Michael K. LEMKE, Yorghos APOSTOLOPOULOS, Adam HEGE, Laurie WIDEMAN and Sevil SÖNMEZ	Abolfazl GHAHRAMANI13	38
Trapezius muscle activity and body movement at the beginning and the end of a workday and during the lunch period in female office employees  Corinne NICOLETTI and Thomas LÄUBLI	Work, sleep, and cholesterol levels of U.S. long-haul truck drivers	
Trapezius muscle activity and body movement at the beginning and the end of a workday and during the lunch period in female office employees  Corinne NICOLETTI and Thomas LÄUBLI		
lunch period in female office employees  Corinne NICOLETTI and Thomas LÄUBLI	Sevil SÖNMEZ14	49
Corinne NICOLETTI and Thomas LÄUBLI		
Short Communication  Cross-sectional associations between daily rest periods during weekdays and psychological distress, non-restorative sleep, fatigue, and work performance among information technology workers  Masao TSUCHIYA, Masaya TAKAHASHI, Keiichi MIKI, Tomohide KUBO and Shuhei IZAWA		
Cross-sectional associations between daily rest periods during weekdays and psychological distress, non-restorative sleep, fatigue, and work performance among information technology workers  Masao TSUCHIYA, Masaya TAKAHASHI, Keiichi MIKI, Tomohide KUBO and Shuhei IZAWA	Corinne NICOLETTI and Thomas LAUBLI	62
sleep, fatigue, and work performance among information technology workers  Masao TSUCHIYA, Masaya TAKAHASHI, Keiichi MIKI, Tomohide KUBO and Shuhei IZAWA	<b>Short Communication</b>	
Masao TSUCHIYA, Masaya TAKAHASHI, Keiichi MIKI, Tomohide KUBO and Shuhei IZAWA	Cross-sectional associations between daily rest periods during weekdays and psychological distress, non-restorative	
Field Reports  Collaboration of occupational physicians with national health system and general practitioners in Italy Benedetta PERSECHINO, Luca FONTANA, Giuliana BURESTI, Bruna Maria RONDINONE, Patrizia LAURANO, Grazia FORTUNA, Antonio VALENTI and Sergio IAVICOLI	sleep, fatigue, and work performance among information technology workers	
Collaboration of occupational physicians with national health system and general practitioners in Italy Benedetta PERSECHINO, Luca FONTANA, Giuliana BURESTI, Bruna Maria RONDINONE, Patrizia LAURANO, Grazia FORTUNA, Antonio VALENTI and Sergio IAVICOLI	Masao TSUCHIYA, Masaya TAKAHASHI, Keiichi MIKI, Tomohide KUBO and Shuhei IZAWA17	73
Benedetta PERSECHINO, Luca FONTANA, Giuliana BURESTI, Bruna Maria RONDINONE, Patrizia LAURANO, Grazia FORTUNA, Antonio VALENTI and Sergio IAVICOLI	Field Reports	
Patrizia LAURANO, Grazia FORTUNA, Antonio VALENTI and Sergio IAVICOLI	Collaboration of occupational physicians with national health system and general practitioners in Italy	
Assessment of workplace air concentrations of formaldehyde during and before working hours in medical facilities Ichiro HIGASHIKUBO, Hiroyuki MIYAUCHI, Satoru YOSHIDA, Shinsuke TANAKA, Mitsunori MATSUOKA, Heihachiro ARITO, Akihiro ARAKI, Hidesuke SHIMIZU and		
Ichiro HIGASHIKUBO, Hiroyuki MIYAUCHI, Satoru YOSHIDA, Shinsuke TANAKA, Mitsunori MATSUOKA, Heihachiro ARITO, Akihiro ARAKI, Hidesuke SHIMIZU and	Patrizia LAURANO, Grazia FORTUNA, Antonio VALENTI and Sergio IAVICOLI18	80
Mitsunori MATSUOKA, Heihachiro ARITO, Akihiro ARAKI, Hidesuke SHIMIZU and	Assessment of workplace air concentrations of formaldehyde during and before working hours in medical facilities	
		92

### No. 3

Editorial	
Towards comprehensive health risk assessments of chemicals for occupational and environmental health  Chiharu TOHYAMA	199
Review Articles	
Heat stress intervention research in construction: gaps and recommendations	
Yang YANG and Albert Ping-chuen CHAN	201
Occupational safety and health in construction: a review of applications and trends	
Fabián Alberto SUÁREZ SÁNCHEZ, Gloria Isabel CARVAJAL PELÁEZ and Joaquín CATALÁ ALÍS	210
	210
Evaluation of the metabolic rate based on the recording of the heart rate	
Jacques MALCHAIRE, Francesca Romana d'AMBROSIO ALFANO and Boris Igor PALELLA	219
Original Articles	
Association of adaptive and maladaptive narcissism with personal burnout: findings from a cross-sectional study	
Roland VON KÄNEL, Raphael Manfred HERR, Annelies Elizabeth Maria VAN VIANEN and	
Burkhard SCHMIDT	233
Changes in drinking habits and psychological distress in Japanese non- or occasional drinking workers:	
a one-year prospective cohort study	
Yuko NAKAGAWA, Kosuke MAFUNE, Akiomi INOUE and Hisanori HIRO	243
Workaholism and daily energy management at work: associations with self-reported health and emotional	
exhaustion	
Anika Susanne SCHULZ, Jessica BLOOM and Ulla KINNUNEN	252
Suppressing emotion and engaging with complaining customers at work related to experience of depression and	
anxiety symptoms: a nationwide cross-sectional study	
Jin-Ha YOON, Mo-Yeol KANG, Dayee JEUNG and Sei-Jin CHANG	265
A non-invasive technique for the evaluation of peripheral circulatory functions in female subjects with	
Raynaud's phenomenon	
Seyed Mohammad MIRBOD and Haruo SUGIURA	275
Field Report	
1	
Physical and environmental hazards in the prosthetics and orthotics workshop: a pilot study	20.5
Sarah ANDERSON, Rwth STUCKEY, Diana POOLE and Jodi OAKMAN	285
Country Report	
Overwork-related disorders in Japan: recent trends and development of a national policy to promote preventive	
measures	
Takashi YAMAUCHI, Toru YOSHIKAWA, Masahiro TAKAMOTO, Takeshi SASAKI,	
Shun MATSUMOTO, Kotaro KAYASHIMA, Tadashi TAKESHIMA and	
Magazia TAVAIIACIII	202

#### No. 4

Editorial	
Construction—Is there a better way?	
Nic RIGBY	303
Review Articles	
Comparison the effects of poor health and low income on early retirement: a systematic review and meta-analysis Enayatollah HOMAIE RAD, Arash RASHIDIAN, Mohamad ARAB and Ali SOURI	306
Musculoskeletal disorders: OWAS review  Marta GÓMEZ-GALÁN, José PÉREZ-ALONSO, Ángel-Jesús CALLEJÓN-FERRE and Javier LÓPEZ-MARTÍNEZ	314
Original Articles	
Self-reported musculoskeletal symptoms among dentists in Saudi Arabia  Zainah AL-SHEHRI and Mustafa AL-ZOUGHOOL	338
The association of occupational metals exposure and oxidative damage, telomere shortening in fitness equipments manufacturing workers	
Jiunn-Liang KO, Yu-Jung CHENG, Guan-Cen LIU, I-Lun HSIN and Hsiu-Ling CHEN	345
Effects of modifications to the health and social sector's collective agreement on the objective characteristics of working hours  Annina ROPPONEN, Päivi VANTTOLA, Aki KOSKINEN, Tarja HAKOLA, Sampsa PUTTONEN and Mikko HÄRMÄ	354
White-collar workers' hemodynamic responses during working hours	
Xinxin LIU, Kazuyuki IWAKIRI and Midori SOTOYAMA	362
Job stress and behavioral characteristics in relation to coronary heart disease risk among Japanese police officers Maki SHIOZAKI, Nobuyuki MIYAI, Ikuharu MORIOKA, Miyoko UTSUMI, Sonomi HATTORI, Hiroaki KOIKE, Mikio ARITA and Kazuhisa MIYASHITA	369
Relationships between occupational and behavioral parameters and oral health status	
Takashi ZAITSU, Toshiya KANAZAWA, Yuka SHIZUMA, Akiko OSHIRO, Sachiko TAKEHARA, Masayuki UENO and Yoko KAWAGUCHI	381
Effectiveness of participatory training for the promotion of work-related health and safety among Korean farmers  Jin-Seok KIM, Seong-Yong YOON, Seong-Yong CHO, Sang-Kyu KIM, In-Sung CHUNG and  Hyeong-Soo SHIN	391
No. 5	
Editorial	
Prevention of alcohol-related health harm in the workplace Tatsuya TAKESHITA	403
Original Articles	
Service and sales workers, are they vulnerable to smoking cessation?	
Youn-Mo CHO, Jun-Pyo MYONG, Hyoung-Ryoul KIM, HyeEun LEE and Jung-Wan KOO	406

Equation to estimate visceral adipose tissue volume based on anthropometry for workplace health checkup in Japanese abdominally obese men  Rina SO, Tomoaki MATSUO, Kousaku SAOTOME and Kiyoji TANAKA
The impact of meal timing on performance, sleepiness, gastric upset, and hunger during simulated night shift Crystal Leigh GRANT, Jillian DORRIAN, Alison Maree COATES, Maja PAJCIN, David John KENNAWAY, Gary Allen WITTERT, Leonie Kaye HEILBRONN, Chris DELLA VEDOVA, Charlotte Cecilia GUPTA and Siobhan BANKS
Application of Universal Thermal Climate Index (UTCI) for assessment of occupational heat stress in open-pit mines Parvin NASSIRI, Mohammad Reza MONAZZAM, Farideh GOLBABAEI, Somayeh FARHANG DEHGHAN, Athena RAFIEEPOUR, Ali Reza MORTEZAPOUR and Mehdi ASGHARI
Mechanical lifting energy consumption in work activities designed by means of the "revised NIOSH lifting equation" Alberto RANAVOLO, Tiwana VARRECCHIA, Martina RINALDI, Alessio SILVETTI, Mariano SERRAO, Silvia CONFORTO and Francesco DRAICCHIO
Field Report
The relationship between sleep disturbances and depression in daytime workers: a cross-sectional structured interview survey
Hiroki IKEDA, Kotaro KAYASHIMA, Takeshi SASAKI, Sachiko KASHIMA and Fumihiko KOYAMA455
Country Report
Latent profile analysis of lifestyle characteristics and health risk behaviors among Koreans who have completed industrial accident care
Wan-Suk CHOI, Ok-Kon MOON and Dong-Moon YEUM460
No. 6 SPECIAL ISSUE: NEW DEVELOPMENT OF RESEARCH ON PERSONAL PROTECTIVE EQUIPMENT (PPE) FOR OCCUPATIONAL SAFETY AND HEALTH
Editorial
New development of research on personal protective equipment (PPE) for occupational safety and health Shin-ichi SAWADA, Kalev KUKLANE, Kaoru WAKATSUKI and Hideaki MORIKAWA471
Review Articles
Measurements of clothing evaporative resistance using a sweating thermal manikin: an overview  Faming WANG
Current global standards for chemical protective clothing: how to choose the right protection for the right job?  Eric VAN WELY
Original Articles
An integrated approach to develop, validate and operate thermo-physiological human simulator for the development of protective clothing
Agnes PSIKUTA, Barbara KOELBLEN, Emel MERT, Piero FONTANA and Simon ANNAHEIM500

Development of a high-density nonwoven structure to improve the stab resistance of protective clothing material	
Limin BAO, Yanling WANG, Takeichiro BABA, Yasuhiro FUKUDA, Kaoru WAKATSUKI and Hideaki MORIKAWA	513
Performance of materials used for biological personal protective equipment against blood splash penetration	
Noriko SHIMASAKI, Katsuaki SHINOHARA and Hideki MORIKAWA	521
Maximum allowable exposure to different heat radiation levels in three types of heat protective clothing	
Ronald HEUS and Emiel A. DENHARTOG	529
Thermal comfort sustained by cold protective clothing in Arctic open-pit mining—a thermal manikin and questionnaire study	
Kirsi JUSSILA, Sirkka RISSANEN, Anna AMINOFF, Jens WAHLSTRÖM, Arild VAKTSKJOLD, Ljudmila TALYKOVA, Jouko REMES, Satu MÄNTTÄRI and Hannu RINTAMÄKI	537
Prediction of WBGT-based clothing adjustment values from evaporative resistance	
Thomas E. BERNARD, Candi D. ASHLEY, Ximena P. GARZON, Jung-Hyun KIM and Aitor COCA	549
Development of a new test cell to measure cumulative permeation of water-insoluble pesticides with low vapor pressure through protective clothing and glove materials	
Anugrah SHAW, Ana Carla COLEONE-CARVALHO, Julien HOLLINGSHURST, Michael DRAPER and Joaquim Gonçalves MACHADO NETO	555
A user-centred design process of new cold-protective clothing for offshore petroleum workers operating in the Barents Sea	
Ole Petter NAESGAARD, Tore Christian Bjørsvik STORHOLMEN, Øystein Nordrum WIGGEN and Jarl REITAN	564
Short Communications	
Effect of shelf aging on vibration transmissibility of anti-vibration gloves	
Nobuyuki SHIBATA	575
Development of bioassay system for evaluation of materials for personal protective equipment (PPE) against toxic effects of ionizing radiations	
Masatake YAMAUCHI and Sachiko SAKUMA	580
Author Index to Volume 55 (2017)	584
<b>Subject Index to Volume 55 (2017)</b>	588
Acknowledgements	