

OWAS

f.ghamari@gmail.com :

Abdoli Eramaki)

(2000

(Kuorinka and Forcier 1995)

OWAS

% / / % / % /

OWAS (p< /)
% (OWAS) % / (OWAS)
(OWAS) % / (OWAS)
(p< /)
(MSDs)

(% /) (% /) (% /)

(Ardakani et al. 2005)

(Choobineh 2008)

(Jafari and Bathaei 2004)

()

(NIOSH 1997).

(Perkiio and kela 2005)

(Choobineh et al. 2004)

%

(Fouladi Dehghi et al. 2008)

(% /) (%) (% /) :

/...

post) t-test
SPSS (hoc

)% /

()% / (

()% / ()% /

()% / ()% /

± /

(BMI)

/ ± /

)

R250

SPSS

WINOWAS

.($p < /$)

(Risk level)

(MSDS)

OWAS

% %

% / % /

.(Ghasemkhani and booya 2003)

()

OWAS

($p < /$)

($p > /$)

OWAS

()

(% /)

% /

% /

% /

(% /)

(% /)

(% /)

)

(

"

%

OWAS

%

%

%

%

%

(Nasl Saraji et al. 2005)

% / % /

% /

% /

% /

% /

% /

% /

% /

% /

% /

% /

% /

Nasl Seraji and)

% /

)

(Kachoian 1999)

/...

) (OWAS
(
.
% / OWAS
() % / % %
% / () % / % / % /
Hassanzade) ()
(and Nasl Seraji 2004

OWAS
% / (OWAS) % /
% (OWAS)
% / (OWAS)
(OWAS)
OWAS
% / :
Nasl Saraji et al.) % / % /
(2005 % /
(Habibi and Zohre 2004)

Kivi and Mattila 1991;).
(Fang et al. 2004; Wang et al. 2000

"

"

% /

RULA

Pvalue

/	/	/	/	/	/
/	/	/	/	/	/
/	/	/	/	/	/
/	/	/	/	/	/
/	/	/	/	/	/
/	/	/	/	/	/
/	/	/	/	/	/
/	/	/	/	/	/
/	/	/	/	/	/ /

/...

OWAS			MSDS		
()	()	()	()	()	()
/	/	/	/	/	/
/	/	/	/	/	/
/	/	/	/	/	/
/	/	/	/	/	/
/	/	/	/	/	/
/	/	/	/	/	/
/	/	/	/	/	/
/	/	/	/	/	/

OWAS

P value

< /	/	/	/	/	/	/	/	/	/	/)
< /	/	/	/	/	/	/	/	/	/	/)
/	/	/	/	/	/	/	/	/	/	/)
/	/	/	/	/	/	/	/	/	/	/)

- Iranian Ports. *Acta Medica Iranica*, **42**(5), pp.350-354 [In Persian].
- Jafari, MJ. and Bathaei, A., 2004. Associations of Awkward postures with musculoskeletal symptoms among assembling unit workers in an automobile industry. *Fourth congress of occupational health in iran-hamadan* [In Persian].
- Kivi, P. and Mattila, M., 1991. Analysis and improvement of work postures in the building industry: application on the computerized OWAS method. *Applied Ergonomics*. **22**(1), pp. 43–48.
- Kuorinka, I. and Forcier, L., 1995. Work related musculoskeletal disorders (WMSDs), A reference book for prevention. *London, Taylor and Francis*.
- Nasl Saraji, J., Hoseini, M., Shahtaheri, SJ. and Ghasemkhani M., 2005. Evaluation of ergonomic postures of dental professions by Rapid Entire Body Assessment (REBA), in Birjand, Iran.. *Journal Of dental Medicine*.**1**(18),pp.61-6[In Persian].
- Nasl Seraji, J. and Kachoian H., 1999. Ergonomics evaluation of work posture in OWAS method in Ballast mines. *The Journal of Tehran Faculty of Medicine*. **3**(57). pp, 58-52 [In Persian].
- National Institute for Occupational Safety and Health (NIOSH).,Musculoskeletal disorders and workplace factors: A critical review of epidemiologic evidence for work-related disorders of the neck, upper extremity, and low back. USA: DHHS (NIOSH) Publication;1997, pp. 97-141.
- Perkio, M. and Kela, M., 2005. Physical workstrain of dairy farming in loose housing barns. *International Journal of Industrial Ergonomics*. **35**, pp.57-65.
- Wang, Z., Dongxue, Y.u. and Kejun, Jia., 2000. Work-related Disorders in Steel Industry. *Ind Health and Occup Dis.*, **26**(4),pp.216-223.