



:  
 .  
 %  
 (Matsui H. et al. . 1997)  
 ( Burdorf A. 1997, Buedorf A. et al. 1997,  
 Yamamoto .S . 1997)  
 (Matsui H. et al. 1997, .  
 Holmstrom E.B. et al. 1992)  
 -  
 . %  
 . %  
 (Hartvigsten J. et al. 2001)  
 (Anderson J. A. 1981).  
 /  
 -  
 % (Pope M.H. 1989)  
 %  
 % /  
 (Soriano E. R. et al. . 2002)  
 %  
 (Holmstrom E.B. . et al. .1992)  
 (Lu j.L. 2003). -  
 %  
 % /  
 (Masset D. and Malchaire . J. 1994)

(Funakoshi M. et al.

2004)

% % . % /

- )  
( / ± / ) .(

( ) . % /

(IPAQ) NORDIC

( ) .

% (Content Validity)

(

:

(Chi - SPSS Win/11  
Square)

:

( )

( )

(% / )

(% / )

(% / )

(% / )

(% / )

( $P = /$  )

(% / )

(% / )

( $P > /$  )

(% / )

(% )

:

- (% / )

(% / )

(% / )

- (% / )

(% / )

-

% /

(% / )

(% / )

%

(% / )

(% / )

).

%

(% / )

Holmstrom E.B. etal. 1992, Masset D.  
and malchaire J. 1994)

(% )

(% / )

%

% /

% /

).

(Anderson J.A. 1981

(% / )

(% / )

.L. 2003, Burgmeier A.C. etal. 1998)

(Pope M.H. 1989, De Gandemaris  
R.etal. 1986)

(Lu J. A. 2003, Burgmeier A.C. etal. . .  
1988, Nordin M. 1997).

).  
(Burgmeier A.C. etal. 1998)  
(aging)

(Pope M. H. .  
1989, Yamaoto S. 1997, Garcy P. etal.  
1996)

(Kalpen skey B. 2000).

% /  
% / (vibration)

( )

(Masset D. and Malchaire j. 1994)

(Kalpen skey B. .  
2000, Nordin M. 1997, Garcy P. etal.  
1996)

(Matsui .  
H. etal. 1997, Burdorf A. etal. 1997,  
Funakoshi M. etal. 2004, Kalpenskey  
B. 2000, Garg A. and Moore J. S.  
1992)

(Burdorf A. etal. 1997, Lu j.

(Verbeck J.H. et al. 2002, Yu T.S. et al.  
.1984)

(n = )

% /

)  
(Kalpen skey B.

2000

(Soriano .  
E.R. et al. 2002, Burgmeier A.C. et al .  
1988)

(Pope M.H. 1989, Yamamoto S.  
1997)

(Anderson J.A. .  
1981, Soriano E.R. et al. 2002)

-

		/ ± /	
		/ ± /	
		/ ± /	
/	/	/ ± /	BMI

-

P – Value		
/	(% )	
/	(% )	
/	(% )	
/	(% )	
/	(% )	

- and the role of various risk factors. *Rev Epidemiol Sante Publique*; **36**:128-37.
- De Gandemaris R., Blatier J.F., Quinton D., Piazza E., Gallin-Martel C., Perdrix A. and Mallion J.M. (1986) Analysis of the risk of backache in the occupational environment. *Rev Epidemiol Sante Publique*, **34**: 308-17.
- Funakoshi M. Tsujimura H. and Ishiyama K. (2004) Measurement of whole-body vibration in taxi drivers. *Occup Health*. **46**(2):119-24.
- Garcy P., Mayer T. and Gatchal R.G.(1996) Recurrent or new injury outcomes after return to work in chronic disabling Spinal disorders. Tertiary Prevention efficacy of functional restoration treatment. *SPINE*; **21**: 952-9.
- Garg A. and Moore J.S. (1992) Epidemiology of Low-back pain in industry. *Occup Med.*; **7**(4): 593-608.
- Hartvigsen J., Bakketeing L .S., Leboeuf Yde C., Enberg M. and Laurite T. (2001) The Association Between Physical workload and Low Back Pain Clouded by the Healthy Worker Effect Population-Based Cross-Sectional and 5-year Prospective Questionnaire Study. *SPINE*; **26**: 1788-1793.
- Holmstrom E.B., Lindell J. and Moritz U. (1992) Low back and neck/shoulder pain in construction workers: occupational workload and psychosocial risk factors. Part 1:Relationship to low back pain. *Spine*. **17**(6): 663-71.
- Kalpensky B.(1997) Occupational Low Back Pain 2000. By CRC Press Ilc. Nordin M, Musculoskeletal Disorders in Work Place . By Mosby-Year book. Inc.
- Lu J.L. (2003)Risk factors for low back pain among Filipino manufacturing
- Anderson J.A. (1981) Low back pain - cause and prevention of long term handicap (a critical review). *Int Rehabil Med.*, **3**(2) 89-93.
- Burdorf A., Rossignol M., Fathallah F.A., Snook S.H. and Herrick R.F. (1997) Challenges in assessing risk factors in epidemiologic studies on back disorders. *Am J Ind Med*; **32**: 142-52.
- Burdorf A., Van Riel M. and Brand T. (1997) Physical load as risk factor for musculoskeletal complaints among tank terminal workers *Am Ind Hyg Assoc J* **7**, **59**: 489-97.
- Burgmeier A.C., Blindauer B. and Hecht M.T. (1988) Backache in hospital environment: epidemiologic aspects



- workes and their anthropometric measurements. *Appl Occup Environ Hyg*; **18** (3): 170-6.
- Masset D. and Malchaire J. (1994) Low Back Pain, Epidemiologic Aspects and work- Related Factors in the steel Industry, *SPINE* , **19**: 143-146.
- Matsui H., Tsuji H. and Naruse Y. (1997) Risk indications of Low Back Pain among workers in Japan. Association of familial and Physical factors with Low Back Pain. *Spine* .1997 Jun 1; **22**(11): 1242-7.
- Pope M.H. (1989) Risk Indications in Low Back Pain. *Annals of Medicine*; **21**: 387-392.
- Soriano E.R, Zingoni C., Lucco F. and Catoggio L.J. (2002) Consulutions for work related low back pain in Argentina. *J Rheumatol*; **29** (5): 1029-33.
- Verbeek J.H., Van der weide W.E. and Van Dijk F.J. (2002) Early occupational health management of Patients with back pain : A randomized Controlled trial. *SPINE*; **27**:1844-51.
- Yamamoto S. (1997) A new trend in the study of Low Back Pain in workplaces. *Ind Health*. **35** (2): 173-85.Review.
- Yu T.S., Roht L.H., Wise R.A., Kilian D.J. and Weir F.W. (1984) Low-back pain in industry.An old problem revisited. *J Occup Med*. **26**: 517-24.