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 (Matsui H. et al. . 1997)
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1988, Nordin M. 1997).

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H. etal. 1997, Burdorf A. etal. 1997,
Funakoshi M. etal. 2004, Kalpenskey
B. 2000, Garg A. and Moore J. S.
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- 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.
- Kalpenskey 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) Consulations 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.