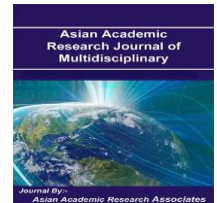




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OCCUPATIONAL HEALTH HAZARDS AND SAFETY MANAGEMENT IN FARMING

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Abstract

Agriculture section is associated with a different variety of occupational health hazard and farm workers often work above the normal retirement age. In agriculture sector different type of physical agents effected on farm workers health such as low back pain, infection and respiratory diseases, various cancer including brain, breast and ovary cancer. Preparation and application of pesticide and cleaning of spraying equipment is more dangerous for farm workers health. In the term of agriculture is identified that psychological factor and stress may be create mental and nervous system disorders. This study sought to determine farms have positive attitude, knowledge and understanding towards safe use of pesticide and machinery. It is also important to improve farm awareness and safe use of PPE.

Keyword: Occupational Health hazard, Physical Hazard, Chemical Hazard and Psychological Hazard, safety management

References

1. Akpinar-Elci, M., Pasquale, D. K., Abrokwah, M., Nguyen, M., & Elci, O. C. (2016). United airway disease among crop farmers. *Journal of agromedicine*, 21(3), 217-223.
2. Aktar, W., Sengupta, D., & Chowdhury, A. (2009). Impact of pesticides use in agriculture: their benefits and hazards. *Interdisciplinary toxicology*, 2(1), 1-12.
3. Aktar, W., Sengupta, D., & Chowdhury, A. (2009). Impact of pesticides use in agriculture: their benefits and hazards. *Interdisciplinary toxicology*, 2(1), 1-12.
4. Baksh, K. S., Ganpat, W. G., & Narine, L. K. (2015). Occupational health and safety issues among vegetable farmers in Trinidad and the implications for extension. *Journal of agricultural safety and health*, 21(3), 159-171.
5. Baksh, K., Ganpat, W., & Narine, L. (2015). Farmers knowledge, attitudes and perceptions of occupational health and safety hazards in Trinidad, West Indies and implications for the Agriculture sector. *Journal of Agricultural Extension and Rural Development*, 7(7), 221-228.
6. Bhattacharyya, N., & Chakrabarti, D. (2012). Ergonomic basket design to reduce cumulative trauma disorders in tea leaf plucking operation. *Work*, 41(Supplement 1), 1234-1238.
7. Bhattacharai, D., Singh, S. B., Baral, D., Sah, R. B., Budhathoki, S. S., & Pokharel, P. K. (2016). Work-related injuries among farmers: a cross-sectional study from rural Nepal. *Journal of occupational medicine and toxicology*, 11(1), 48.
8. Clay, L., Hay-Smith, J., Treharne, G., & Milosavljevic, S. (2016). "There are risks to be taken and some just push it too far": how farmers perceive quad-bike incident risk. *Australian and New Zealand journal of public health*, 40(1), 55-61.
9. Damalas, C. A., & Koutroubas, S. D. (2016). Farmers' exposure to pesticides: Toxicity types and ways of prevention.
10. Farquhar, S. A., Goff, N. M., Shadbeh, N., Samples, J., Ventura, S., Sanchez, V., ... & Davis, S. (2009). Occupational health and safety status of indigenous and Latino farmworkers in Oregon. *Journal of agricultural safety and health*, 15(1), 89-102.
11. Fetsch, R. J. *Managing Stress, Anger, Anxiety, and Depression on Dairy Farms*.
12. Gambatese, J., Barbosa, P. A., & Das, A. (2014). Use and Re-use of Formwork: Safety Risks and Reliability Assessment. Final Report. CPWR Small Study, (13-2).
13. Griffin, P. J. (2013). Farming-a hazardous occupation-how to improve health & safety. *Safety and Health in Agriculture*. Committee on Agriculture and Rural Development (AGRI).
14. Gunn, K. (2008). Farmers' stress and coping in a time of drought. University of Adelaide, School of Psychology.

15. Habib, R. R., Hojeij, S., & Elzein, K. (2014). Gender in occupational health research of farmworkers: A systematic review. *American journal of industrial medicine*, 57(12), 1344-1367.
16. Jain, R., Meena, M. L., Dangayach, G. S., & Bhardwaj, A. K. (2017). Association of risk factors with musculoskeletal disorders in manual-working farmers. *Archives of Environmental & Occupational Health*, 1-10.
17. Kalyani, K. S., Singh, K. D., & Naidu, S. K. (2008). Occupational Health Hazards of Farm Women in Tobacco Cultivation. *Indian Research Journal of Extension Education*, 8(1), 8-12.
18. Kresge, L. (2012). Health-related inequities among hired farm workers and the resurgence of labor-intensive agriculture. Health Program—The Kresge Foundation. Troy, Michigan.
19. Letnes, J. M., Torske, M. O., Hilt, B., Bjørngaard, J. H., & Krokstad, S. (2016). Symptoms of depression and all-cause mortality in farmers, a cohort study: the HUNT study, Norway. *BMJ open*, 6(5), e010783.
20. Lovelock, K., & Cryer, C. (2009). Effective Occupational Health Interventions in Agriculture: Summary Report. Injury Prevention Research Unit, University of Otago.
21. Lovelock, K., Lilley, R., McBride, D., Milosaviljevic, S., Yates, H., & Cryer, C. (2008). Occupational injury and disease in agriculture in North America, Europe and Australasia: a review of the literature. Dunedin: University of Otago.
22. Lu, J. L. D. (2011). Occupational safety of farmers in the vegetable industry. *International journal of occupational safety and ergonomics*, 17(4), 445-453.
23. Lu, J. L. D. (2011). Occupational safety of farmers in the vegetable industry. *International journal of occupational safety and ergonomics*, 17(4), 445-453.
24. Mazurek, J. M., White, G. E., Rodman, C., & Schleiff, P. L. (2015). Farm work-related asthma among US primary farm operators. *Journal of agromedicine*, 20(1), 31-42.
25. Obonyo, A., Njogu, P., & Gitu, L. (2017). Assessment of the level of awareness in occupational safety and health among pesticides handlers in kisumu county, kenya. *Journal of Agriculture Science and Technology*, 18(1).
26. Osborne, A., Finnegan, G., Blake, C., Meredith, D., McNamara, J., Phelan, J., & Cunningham, C. (2012). An evaluation of low back pain among farmers in Ireland. *Occupational medicine*, 63(1), 53-59.
27. Pyykkönen, M., & Aherin, B. (2012). 53 Occupational Health and Safety in Agriculture.
28. Ramesh, A. S., & Madhavi, C. (2010). Occupational stress among farming people. *Journal of Agricultural Sciences*, 4(3).
29. Rautiainen, R. H. (2012). Factors affecting occupational safety and health of foreign farm workers in Nordic countries. Nordic Council of Ministers.

30. Riquinho, D. L., & Hennington, E. A. (2012). Health, environment and working conditions in tobacco cultivation: a review of the literature. *Ciência & Saúde Coletiva*, 17(6), 1587-1600.
31. Sabharwal, K., & Kaushik, S. (2011). Inter gender occupational health problems in paddy cultivation. *Journal of Dairying Foods & Home Sciences*, 30(1).
32. Suthar, N., & Kaushik, V. (2013). Musculoskeletal problems among agricultural female workers. *Stud Home Com Sci*, 7(3), 145-149.
33. Tago, D., Andersson, H., & Treich, N. (2014). Pesticides and health: a review of evidence on health effects, valuation of risks, and benefit-cost analysis. In *Preference Measurement in Health* (pp. 203-295). Emerald Group Publishing Limited.
34. Torske, M. O., Hilt, B., Glasscock, D., Lundqvist, P., & Krokstad, S. (2016). Anxiety and depression symptoms among farmers: the HUNT Study, Norway. *Journal of agromedicine*, 21(1), 24-33.
35. Whelan, S., Ruane, D. J., McNamara, J., Kinsella, A., & McNamara, A. (2009). Disability on Irish farms—a real concern. *Journal of agromedicine*, 14(2), 157-163.
36. www.saferfarms.org.nz/guides/managing-health-and-safety-a-guide-for-farmers/
37. www.betterhealth.vic.gov.au/health/healthyliving/farm-safety-risks-and-hazards
38. www.fao.org/3/a-i4434e.pdf
39. www.gov.uk/guidance/farm-health-and-safety
40. www.hsa.ie/eng/Publications_and_Forms/Publications/Agriculture_and_Forestry/Guidance_on_the_Safe_Use_of_Tractors_and_Machinery_on_Farms.pdf
41. www.hse.gov.uk/statistics/industry/agriculture/agriculture.pdf?pdf=agriculture
42. www.ini.wa.gov/Safety/Research/Face/Files/TractorFatal.pdf
43. www.ncfh.org/uploads/3/8/6/8/38685499/fs-occ_health.pdf
44. www.osha.gov.
45. www.saferfarms.org.nz/
46. www.saferfarms.org.nz/assets/resources/safe-use-of-tractors-on-farms.pdf
47. www.thepeopleindairy.org.au/farm-policies-systems/health-and-safety-risk-management.htm
48. Xiao, H., McCurdy, S. A., Stoecklin-Marois, M. T., Li, C. S., & Schenker, M. B. (2013). Agricultural work and chronic musculoskeletal pain among Latino farm workers: the MICASA study. *American journal of industrial medicine*, 56(2), 216-225