

## **Occupational Health Alert**

Occupational Health Alert issue deals with articles published on different subjects i.e. ***Health Hazards of Vegetable Vendors, Health Hazards of Flour Mills Workers, Occupational Health Hazards of Agriculture Workers in India and Aluminium Toxicity.***

Full text articles will be provided on request.

Library & Information Officer

# Health Hazards of Vegetable Vendors

1.	Evaluation of an intervention to reduce musculoskeletal <b>hazards</b> among fresh market <b>vegetable</b> growers. Chapman LJ, Newenhouse AC, Meyer RH, Taveira AD, Karsh BT, Ehlers JJ, Palermo T. Appl Ergon. 2004 Jan;35(1):57-66
2.	Heavy metal (Cu, Zn, Cd and Pb) contamination of <b>vegetables</b> in urban India: a case study in Varanasi. Sharma RK, Agrawal M, Marshall FM. Environ Pollut. 2008 Jul;154(2):254-63
3.	Neighborhood food environment and mortality among older Japanese adults: results from the JAGES cohort study. Tani Y, Suzuki N, Fujiwara T, Hanazato M, Kondo N, Miyaguni Y, Kondo K. Int J BehavNutrPhys Act. 2018 Oct 19;15(1):101
4.	Prevalence and Phylogenetic Characterization of Escherichia coli and Hygiene Indicator Bacteria Isolated from Leafy Green Produce, Beef, and Pork Obtained from Farmers' Markets in Pennsylvania. Scheinberg JA, Dudley EG, Campbell J, Roberts B, DiMarzio M, DebRoy C, Cutter CN. J Food Prot. 2017 Feb;80(2):237-244

## Health Hazards of Flour Mills Workers

1.	Dose responses of years of exposure on lung functions in flour mill workers. Meo SA J Occup Health. 2004 May;46(3):187-91.
2.	Occupational causes of chronic obstructive pulmonary disease. Rushton L. Rev Environ Health. 2007 Jul-Sep;22(3):195-212. Review.
3.	Study of pulmonary (lung) functioning of commercial wheat grinding machine operators in India using spirometric testing. Agashe A1, Deshpande VS. J Environ Sci Eng. 2010 Apr;52(2):163-6.

# Occupational Health Hazards of Agriculture Workers in India

1.	A systematic review of the public health risks of bioaerosols from intensive farming. Douglas P, Robertson S, Gay R, Hansell AL, Gant TW. Int J Hyg Environ Health. 2018 Mar;221(2):134-173
2.	Acute Metam Sodium Poisoning Caused by Occupational Exposure at a Flower Farm - Uganda, October 2016. Nakubulwa S, Kusiima J, Kadobera D, Mutyoba JN, Ario AR, Zhu BP. MMWR Morb Mortal Wkly Rep. 2018 Apr 13;67(14):414-417
3.	Agricultural child labor in West Bengal. Banerjee SR. Indian Pediatr. 1993 Dec;30(12):1425-9.
4.	Agricultural workers in a cohort of middle-aged Japanese women showed better health status than did women with other occupations. Iijima H, Suzuki S, Koyama H, Nakazawa M, Wakimoto Y. J Rural Med. 2018 May;13(1):57-63
5.	An evaluation of musculoskeletal disorder and socioeconomic status of farmers in West Bengal, India. Kar SK, Dhara PC. Nepal Med Coll J. 2007 Dec;9(4):245-9
6.	Are Our Farm Workers in Danger? Genetic Damage in Farmers Exposed to Pesticides. Marcelino AF, Wachtel CC, Ghisi NC. Int J Environ Res Public Health. 2019 Jan 27;16(3)
7.	Assessment of energy balance of Indian farm women in relation to their nutritional profile in lean and peak agricultural seasons. Singh S, Sinwal S, Rathore H. Work. 2012;41 Suppl 1:4363-71
8.	Assessment of Occupational Health Hazards Due to Particulate Matter Originated from Spices. Upadhyay E, Mohammad AlMass AA, Dasgupta N, Rahman S, Kim J, Datta M. Int J Environ Res Public Health. 2019 Apr 29;16(9).

9.	Effectiveness of an educational program to promote pesticide safety among pesticide handlers of South India. Sam KG, Andrade HH, Pradhan L, Pradhan A, Sones SJ, Rao PG, Sudhakar C. Int Arch Occup Environ Health. 2008 May;81(6):787-95
10.	Fields of rice: health hazards for women and unborn children. Batliwala S. Manushi. 1988 May-Jun;(46):31-5
11.	Gender involvement in manual material handling (mmh) tasks in agriculture and technology intervention to mitigate the resulting musculoskeletal disorders. Singh S, Sinwal N, Rathore H. Work. 2012;41 Suppl 1:4333-41.
12.	Gender-specific associations between polymorphisms in the Toll-like receptor (TLR) genes and lung function among workers in swine operations. Gao Z, Dosman JA, Rennie DC, Schwartz DA, Yang IV, Beach J, Senthilselvan A. J Toxicol Environ Health A. 2018;81(22):1186-1198
13.	Health hazards and adoption of personal protective equipment during cotton harvesting in Pakistan. Bakhsh K, Ahmad N, Tabasum S, Hassan S, Hassan I. Sci Total Environ. 2017 Nov 15;598:1058-1064
14.	Human Dermatitis After Skin Exposure to <i>Jacobaea vulgaris</i> and Spectrum of Health Hazards Induced by This Plant to Humans and Livestock. Pietkiewicz P, Gornowicz-Porowska J, Bowszyc-Dmochowska M, Dmochowski M. J Agromedicine. 2015;20(2):237-41
15.	Lung cancer risk and occupational exposures in crop farming: results from the AGRiculture and CANcer (AGRICAN) cohort. Boulangier M, Tual S, Lemarchand C, Guizard AV, Delafosse P, Marcotullio E, Pons R, Piel C, Pouchieu C, Baldi I, Clin B, Lebailly P; AGRICAN group. Occup Environ Med. 2018 Nov;75(11):776-785
16.	Occupational health hazards & efficacy of protective masks in threshing operation. Gandhi S, Dilbaghi M, Mehta M, Pruthi N. Work. 2012;41 Suppl 1:4983-6

17.	Occupational Exposure to Pesticides and the Incidence of Lung Cancer in the Agricultural Health Study. Bonner MR, Freeman LE, Hoppin JA, Koutros S, Sandler DP, Lynch CF, Hines CJ, Thomas K, Blair A, Alavanja MC. Environ Health Perspect. 2017 Apr;125(4):544-55
18.	Occupational hazards and health cost of women cotton pickers in Pakistani Punjab. Bakhsh K, Ahmad N, Kamran MA, Hassan S, Abbas Q, Saeed R, Hashmi MS. BMC Public Health. 2016 Sep 13;16:961
19.	Pesticide Knowledge and Safety Practices among Farm Workers in Kuwait: Results of a Survey. Jallow MF, Awadh DG, Albaho MS, Devi VY, Thomas BM. Int J Environ Res Public Health. 2017 Mar 24;14(4)
20.	Understanding farmers' safety behaviour towards pesticide exposure and other occupational risks: The case of Zanjan, Iran. Rezaei R, Damalas CA, Abdollahzadeh G. Sci Total Environ. 2018 Mar;616-617:1190-1198

## Aluminium Toxicity

1.	<p>Geochemical Characteristics and Toxic Elements in Alumina Refining Wastes and Leachates from Management Facilities. Sun C1, Chen J2,3, Tian K4, Peng D5, Liao X6, Wu X7. Int J Environ Res Public Health. 2019 Apr 11;16(7). pii: E1297. doi: 10.3390/ijerph16071297.</p>
2.	<p>Green sol-gel synthesis of novel nanoporous copper aluminosilicate for the eradication of pathogenic microbes in drinking water and wastewater treatment. Hemdan BA1, El Nahrawy AM2, Mansour AM2, Hammad ABA2. Environ SciPollut Res Int. 2019 Apr;26(10):9508-9523. doi: 10.1007/s11356-019-04431-8. Epub 2019 Feb 6.</p>
3.	<p>Impacts of Egyptian propolis extract on rat cerebellum intoxicated by aluminum silicate: histopathological studies. Omar NA1, Abu-Almaaty AH2, Abd El-Aziz YM2, Abdeen AM3, Mohamed FEZA4,5, Hashem MMM6, Hammad S7 Environ SciPollut Res Int. 2019 Jul;26(21):22061-22068. doi: 10.1007/s11356-019-05469-4. Epub 2019 May 29.</p>
4.	<p>Increased Aluminum Content in Certain Brain Structures is Correlated with Higher Silicon Concentration in Alcoholic Use Disorder. Grochowski C1,2, Blicharska E3, Bogucki J4, Proch J5, Mierzwińska A6, Baj J7, Litak J8, Podkowiński A9, Flieger J10, Teresiński G11, Maciejewski R12, Niedzielski P13, Rzymiski P14. Molecules. 2019 May 3;24(9). pii: E1721. doi: 10.3390/molecules24091721.</p>
5.	<p>Long-term exposure to low level of fluoride induces apoptosis via p53 pathway in lymphocytes of aluminum smelter workers. Wen P1,2, Wei X1, Liang G3, Wang Y4, Yang Y1, Qin L1, Pang W5, Qin G3, Li H3, Jiang Y6, Wu Q7. Environ SciPollut Res Int. 2019 Jan;26(3):2671-2680. doi: 10.1007/s11356-018-3726-z. Epub 2018 Nov 26.</p>
6.	<p>Neuroprotective role of hyperforin on aluminum maltolate-induced oxidative damage and apoptosis in PC12 cells and SH-SY5Y cells. Wang H1, Shao B1, Yu H1, Xu F1, Wang P1, Yu K1, Han Y1, Song M1, Li Y2, Cao Z3. ChemBiol Interact. 2019 Feb 1;299:15-26. doi: 10.1016/j.cbi.2018.11.016. Epub 2018 Nov 24.</p>

7.	<p>Prescription Infant Formulas Are Contaminated with Aluminium.  Redgrove J1, Rodriguez I2, Mahadevan-Bava S3, Exley C4.  Int J Environ Res Public Health. 2019 Mar 12;16(5). pii: E899. doi:  10.3390/ijerph16050899.</p>
8.	<p>Relationship between the Use of Aluminium Utensils for Cooking Meals  and Chronic Aluminum Toxicity in Patients on Maintenance Hemodialysis: A  Case Control Study.  Bichu S1, Tilve P2, Kakde P3, Jain P4, Khurana S3, Ukirade V3, Jawandhiya  P3, Dixit A3, Bhasin N3, Billa V5, Kumar R6, Kothari J7.  J Assoc Physicians India. 2019 Apr;67(4):52-56.</p>
9.	<p>Role of Melatonin in Aluminum-Related Neurodegenerative Disorders: a  Review.  Esparza JL1, Gómez M1, Domingo JL2.  Biol Trace Elem Res. 2019 Mar;188(1):60-67. doi: 10.1007/s12011-018-  1372-4. Epub 2018 May 7.</p>
10.	<p>The effects of amiodarone prophylaxis on cardiac dysrhythmia in  acute aluminium phosphide poisoning.  Beyranvand MR1, Farrokhi S2, Peyvandi H3, Soltaninejad K4, Shadnia S5.  Arh Hig Rada Toksikol. 2019 Mar 1;70(1):49-53. doi: 10.2478/aiht-2019-70-  3162</p>
11.	<p>The possible neuroprotective effects of melatonin in aluminum chloride-  induced neurotoxicity via antioxidant pathway and Nrf2 signaling apart  from metal chelation.  Sadek KM1, Lebda MA2, Abouzed TK3  Environ Sci Pollut Res Int. 2019 Mar;26(9):9174-9183. doi: 10.1007/s11356-  019-04430-9. Epub 2019 Feb 4.</p>