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## A cross-sectional survey on the knowledge and attitudes towards E-waste and its impact on public health among IIUM students-Kuantan Campus

(Article)

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### Abstract

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Background: E-waste is a subset of solid waste and is defined as any solid waste which is generated by individual, educational institution, general institution, industry, housing area or as a household and so many other sources. This survey has led to an enhanced national or local and international awareness of the potential detrimental effects on the environment and public health. Objective: The main objective of this survey is to develop of public awareness about dangerous effect of e-waste on public health and environment. Methods: From the calculated sample size (341), a total of 296 surveys were included in the final analysis. This was a descriptive cross-sectional survey involving with individual users based on a structured questionnaire format with answer sets. Data were analysed using SPSS version 21.0 and excel. Results: The most significant number of respondents came to know about e-waste through internet and friend 36% and 22% while government awareness program and newspapers cover only 16% and 8% of them respectively. Almost all (99.66%) respondents do not know how to dispose e-waste. 86.49 percent of the total respondents agree that as an emerging industrial country Malaysia is at high risk for generating electrical waste where 82.77% are concerned of its related health problem caused. More than 95% of the respondents thinks that individual effort would the effective to reduce e-waste volume by practicing 3R. However, 93.24% of the respondents never got a chance to attend such awareness program because they never knew that there is e-waste awareness programme being conducted by university or community. Conclusion: Based on this survey report, all the respondents think that awareness programme on e-waste should be conducted by the institution to spread negative impact of e-waste on environment and public health. © 2018 Wolters Kluwer Medknow Publications. All rights reserved.

### SciVal Topic Prominence

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Attitude E-waste Environment Knowledge Public health

### Indexed keywords

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undertaken to reduce e-waste generation and make e-waste constituents more simply reused and recycled ? The findings have highlighted the scientific 緣?xpert ?la?y divide in perception of health and environmental impacts of e-waste. Admittedly, even though not likely to inhibit or without difficulty resolve these misconceptions, this study documents the mightily held opinions about a potential health and environmental hazard in the study area. This will enable the authorities to fashion appropriate policy intervention(s) to increase public acceptability and willful participation, knowledge and attitudes towards e-waste. This calls for a multi-sectoral approach involving the Ministry of Local Administration and Rural Development; Ministry of Environment, Science and Technology and the Malaysian Health Service to

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## References (13)

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- 1 Abul Kalam Azad, M., Islam, M., Ismail Hossin, M.  
**Generation of electronic-waste and its impact on environment and public health in Malaysia**  
 (2017) *Annals of Tropical Medicine and Public Health*, 10 (5), pp. 1123-1127.  
<http://www.atmph.org>  
 doi: 10.4103/ATMPH.ATMPH\_349\_17  
[View at Publisher](#)
- 2 (2005) *E-Waste: The Hidden Side of IT Equipment'S Manufacturing and Use*. Cited 96 times.  
 UNEP. United Nations Environment Programme. *Early Warnings on Emerging Environmental Threats 5*
- 3 Lee, C.-H., Chang, S.-L., Wang, K.-M., Wen, L.-C.  
**Management of scrap computer recycling in Taiwan**  
 (2000) *Journal of Hazardous Materials*, 73 (3), pp. 209-220. Cited 100 times.  
 doi: 10.1016/S0304-3894(99)00191-0  
[View at Publisher](#)
- 4 Brigden, K., Labunska, I., Santillo, D., Johnston, P.  
 (2008) *Chemical Contamination at E-Waste Recycling and Disposal Sites in Accra and Korforidua, Ghana*. Cited 61 times.  
 Amsterdam: Greenpeace International

- 
- 5 Brigden, K., Labunska, I., Santillo, D., Allsopp, M.  
Recycling of electronic wastes in China and India: Workplace and environmental contamination  
Publ. Greenpeace International, Greenpeace Research Laboratories Technical Note 09/2005, 56. Cited 3 times.
- 
- 6 Hicks, C., Dietmar, R., Eugster, M.  
The recycling and disposal of electrical and electronic waste in China - Legislative and market responses  
  
(2005) Environmental Impact Assessment Review, 25 (5 SPEC. ISS.), pp. 459-471. Cited 243 times.  
[www.elsevier.com/inca/publications/store/5/0/5/7/1/8](http://www.elsevier.com/inca/publications/store/5/0/5/7/1/8)  
doi: 10.1016/j.eiar.2005.04.007  
  
View at Publisher
- 
- 7 Roman, L.S., Puckett, J.  
E-scrap exportation: Challenges and considerations  
  
(2002) IEEE International Symposium on Electronics and the Environment, pp. 79-84. Cited 29 times.  
  
View at Publisher
- 
- 8 Agyei-Mensah, S., De-Graft Aikins, A.  
Epidemiological transition and the double burden of disease in Accra, Ghana  
  
(2010) Journal of Urban Health, 87 (5), pp. 879-897. Cited 112 times.  
doi: 10.1007/s11524-010-9492-y  
  
View at Publisher
- 
- 9 Wong, M.H., Wu, S.C., Deng, W.J., Yu, X.Z., Luo, Q., Leung, A.O.W., Wong, C.S.C., (...), Wong, A.S.  
Export of toxic chemicals - A review of the case of uncontrolled electronic-waste recycling  
  
(2007) Environmental Pollution, 149 (2), pp. 131-140. Cited 508 times.  
doi: 10.1016/j.envpol.2007.01.044  
  
View at Publisher
- 
- 10 Azad, M.A.K., Ansary, M.R.H., Akhter, M.A., Al-Mamun, S.M.M., Uddin, M., Rahman, M.M.  
Disposal practice for unused medications among the students of the international islamic university Malaysia ([Open Access](#))  
  
(2012) Journal of Applied Pharmaceutical Science, 2 (7), pp. 101-106. Cited 14 times.  
[http://www.japsonline.com/admin/php/uploads/553\\_pdf.pdf](http://www.japsonline.com/admin/php/uploads/553_pdf.pdf)  
doi: 10.7324/JAPS.2012.2712  
  
View at Publisher
- 
- 11 Azad, A.K., Hossin, M.M., Muhammad, K.R., Robuiul, I., Abdullahi, M.M., Islam, M.
- 
- 12 Azad, A.K., Muhammad, K.R., Hossin, M.M., Robiul, I., Abdullahi, M.M., Islam, M.A.  
Medication wastage and its impact on environment: Evidence from Malaysia  
  
(2016) Pharmacologyonline, 3, pp. 114-121. Cited 3 times.  
[http://pharmacologyonline.silae.it/files/archives/2016/vol3/PhOL\\_2016\\_3\\_A018\\_30\\_Azad.pdf](http://pharmacologyonline.silae.it/files/archives/2016/vol3/PhOL_2016_3_A018_30_Azad.pdf)
-

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(2012) International Journal of Environmental Health Research, 22 (6), pp. 500-517. Cited 17 times.  
doi: 10.1080/09603123.2012.667795

[View at Publisher](#)

---

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