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References

- 1 WHO (2004) Guidelines for drinkingwater quality: Volume 1. Recommendations, 3rd edition, World Health Organization, Geneva.
- Harries, A. (1991) 'Some clinical aspects of HIV infection', Current Opinion in Infectious Diseases, 14(15): 567–71. Kelley, P., K. Sri Baboo, P. Ndubani, M. Nchito, N.P. Okeowo, N.P. Luo, R. Feldman, M.J.G. Farthing (1997) 'Cryptosporidiosis in adults in Lusaka, Zambia and its relationship to oocyst contamination of drinking water' Journal of Infectious Diseases 176(4): 1120-23.
- Howard, G., S. Pedley and S. Tibatemwa, in press, 'Quantitative microbial risk assessments to estimate health risks in water supply: can they be applied in developing countries with limited data?' paper accepted for publication in the Journal of Water and Health.
- 4 Davison, A.D., E.L. Pryor, G. Howard and D.A. Deere (2004) 'Duly diligent utilities', paper presented at the IWA World Congress, Marrakech, Morroco.
- WHO (1997) Guidelines for drinkingwater quality: Volume 3. Surveillance and control of community water supplies, 2nd edition, World Health Organization, Geneva.
- WHO (1999) Guidelines for monitoring, surveillance and control of water supplies in medium sized towns, WHO Bangladesh, Dhaka, Bangladesh. Rojas, R. (2002) 'Guidelines for the surveillance and control of drinking water quality', CEPIS, Lima, Peru. Howard, G. (2002) 'Water supply surveillance – a reference manual', WEDC, Loughborough, UK.
- Howard, G. and J. Bartram, in press, 'Effective water supply surveillance in urban areas of developing countries', paper accepted for publication in the Journal of Water and Health.

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WHO Guidelines on Drinking Water Quality (2004)

This fully revised third edition discussed elsewhere in this issue is available

http://whqlibdoc.who.int/publications/2004/9241546387.pdf

Safe piped water: Managing microbial water quality in piped distribution systems (2004)

The information and conclusions contained in Safe Piped Water are described as being intended for policy makers and those responsible for formulating 'Water Safety Plans' for the supply of drinking water. The book is also described as being highly relevant to engineers and scientists who are responsible for water-supply planning, operations and monitoring. Full text available for downloading.

http://www.who.int/water_sanitation_health/dwq/en/safepipedwater.pdf

Watermark

This is a worldwide website for drinking-water supply surveillance and monitoring in developing and transitional countries. The site is structured around a reference manual providing detailed description of urban surveillance, guides for implementation based on Ugandan experience, surveillance tools and reports and case studies from programmes. http://www.lboro.ac.uk/wedc/watermark/index.htm

Bangladesh Arsenic Policy Support Unit (APSU)

This site provides information on the development of risk management plans for arsenic-affected waters. There are links to APSU studies and reports detailing experience of applying the WHO guidelines for drinking-water quality in Bangladesh. http://www.apsu-bd.org

Drinking water standards for New Zealand 2000

This lists the maximum concentrations of chemical, radiological and microbiological contaminants acceptable for public health in drinking water http://www.moh.govt.nz/moh.nsf/wpg_index/Publications-Drinking-Water+ Standards+for+New+Zealand+2000

How to prepare and develop public health risk-management plans for drinking-water supplies

These plans are an adaptation of Water Safety Plans based on the Hazard Analysis and Critical Control Points (HACCP) principles to help create and operate a public health risk-management plan for drinking-water supply. http://www.moh.govt.nz/moh.nsf/238fd5fb4fd051844c256669006aed57/ cca65c18b2e29251cc256a7900082b9c?OpenDocument

UBA – German Environment Agency

An international conference in Berlin in 2003 to promote the understanding of currently available approaches to risk management, particularly of approaches using elements of HACCP. A further aim was the exchange of current experience with this approach in relation to other qualitymanagement systems applied to secure drinking-water safety. http://www.polarpixel.de/archiv/uba/

The Sphere Project

The Sphere Humanitarian Charter and Minimum Standards in Disaster Response has a chapter on water, sanitation and hygiene promotion. It includes qualitative minimum standards, key indicators to measure and communicate results and guidance notes to consider when applying the standards and indicators in different situations. http://www.sphereproject.org/handbook/html/4_ch2.htm

Sanitation Connection

The Monitoring and Evaluation topic of Sanitation Connection provides an introduction to these issues, with links to online key references, publications and websites.

http://www.sanicon.net/titles/topicintro.php3?topicId=41

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water**lines** Vol. 23 No. 4 April 2005