Level of contamination and antibiotic resistance of bacterial isolates from mobile phone of HCW’s in Hawassa referral hospital

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Background: The etiological agents of Nosocomial infections may spread through the hands of healthcare workers and other instruments.

Objective: The objective of this study was to determine the contamination rate of the health care workers mobile phones in the Hawassa referral Hospital.

Method: 152 Mobile phones was randomly sampled from wards, laboratory, ICU and operating rooms of doctors, nurses, Laboratory Technologists and other healthcare staffs were screened. The standard microbiological analysis was done.

Results: The rate of bacterial contamination of mobile phones was 97.4%. It was found that 50.6% of phones grew one bacterial species, 25.0% two different species, 24.8% three or more different species and no bacterial growth were identified in 2.6% of phones. The bacterial species that isolated from mobile phone and hands of the HCW’s was S. aureus, CoNS, Streptococcus spp, E. coli, K. pneumonia, Proteus spp, Citrobacter spp, Shigella spp, and P. aeruginosa. Ampicillin and Penicillin was less effective against the identified bacteria, whereas, Gentamicin, Ceftriaxone, Doxycycline and Ciprofloxacin were most effective.

Conclusion: Our study reveals that mobile phones may contaminate by different pathogenic bacteria which can cause nosocomial infection. It is needed to minimize the risk of mobile phones as vectors for pathogen transmission.

Biography
Deresse Daka is an Assistant professor of Medical Microbiology graduated from Addis Ababa University, Ethiopia with MSc in Medical Microbiology in 2011 and currently working at Hawassa University, College of Medicine and Health Sciences. He lectured Medical Microbiology, Immunology, and Serology for Nurses, Medical Laboratory technology students, Medical students, postgraduate students and health officer students. he also have vibrant engagement in research undertakings and associated with these publications. Right now he published 18 papers in peer reviewed local and international journals, made many research presentations (poster and oral) at scientific conferences. For these and many other activities he received many recognition the most recent one being the best academic staff of the year for Hawassa University College of Medicine and Health Sciences September 6, 2014.

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