Title of session/presentation

- Pharmafilter
- Peter Kelly, International Director.
Cleaner hospital a cleaner environment

Pharmafilter first line of upstream treatment and defence in dealing with antibiotic resistance bacteria in hospital waste and wastewater

• KPC-2 and OXA-48 carbapenemase-harbouring Enterobacteriaceae detected in an Austrian wastewater treatment plant.

• Multiresistant Enterobacteriaceae, like carbapenemase-producing strains, have their primary reservoir in medical institutions. They can also be found with increasing tendency in other reservoirs. One possible way for entrance of multiresistant Enterobacteriaceae into the environment is via wastewater. The aim of the study was to screen isolates from a wastewater treatment plant for the presence of carbapenemase-producing Enterobacteriaceae. Three isolates harboured carbapenemase genes, one Klebsiella pneumoniae harbouring KPC-2 and one K. pneumoniae and one Escherichia coli harboured OXA-48. This is the first report of carbapenemase-harbouring Enterobacteriaceae isolated outside medical institutions in Austria and the first detection of KPC-harbouring K. pneumonia MLST ST 1245.

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Removal of Micropolutants = feasible at last Pharmafilter

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Final Slide

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