# ABR-Scan Science Week 15

## Unit for Antibiotics and Infection Control

## *This ABR-Scan Science is compiled by the Unit for Antibiotics and Infection Control at the Public Health Agency of Sweden. It includes a summary of links to recent articles from a selection of 17 scientific journals that we find interesting. All journals included in the scan are listed at the bottom of the document. The articles are sorted according to our categorization: surveillance, treatment and diagnosis, prevention and intervention, microbiology and other. If you have any comments or suggestions, please send an e-mail to Karin Carlin at* *ABR-scan@folkhalsomyndigheten.se*

## Surveillance

**Molecular and epidemiological study of Clostridium difficile reveals unusual heterogeneity in clinical strains circulating in different regions in Portugal.** [**Clinical Microbiology and Infection**](http://www.clinicalmicrobiologyandinfection.com/article/S1198-743X%2816%2930059-3/abstract)

**Emergence of pan-resistance in KPC-2 carbapenemase-producing Klebsiella pneumoniae in Crete, Greece: a close call.** [**Journal of Antimicrobial Chemotherapy**](http://jac.oxfordjournals.org/content/71/5/1207.abstract?etoc)

**The Prevalence and Molecular Epidemiology of Multidrug-Resistant Enterobacteriaceae Colonization in a Pediatric Intensive Care Unit.** [**Infection Control & Hospital Epidemiology**](http://journals.cambridge.org/action/displayAbstract?fromPage=online&aid=10285258&fulltextType=RA&fileId=S0899823X16000167)

**Prevalence of multi-drug-resistant organism carriage in pregnant women.** [**Journal of Hospital Infection**](http://www.sciencedirect.com/science/article/pii/S0195670116001250)

**Carbapenem-resistant isolates of Acinetobacter baumannii in a municipal wastewater treatment plant, Croatia, 2014.** [**Eurosurveillance**](http://eurosurveillance.org/ViewArticle.aspx?ArticleId=21440)

**Aquaculture as yet another environmental gateway to the development and globalisation of antimicrobial resistance.** [**Lancet Infectious Diseases**](http://www.thelancet.com/journals/laninf/article/PIIS1473-3099%2816%2900100-6/fulltext?rss=yes)

## Treatment and diagnosis

**Switch to oral antibiotics in the treatment of infective endocarditis is not associated with increased risk of mortality in non-severely ill patients.** [**Clinical Microbiology and Infection**](http://www.clinicalmicrobiologyandinfection.com/article/S1198-743X%2816%2930060-X/abstract)

**ESCMID guideline: diagnosis and treatment of acute bacterial meningitis.** [**Clinical Microbiology and Infection**](http://www.clinicalmicrobiologyandinfection.com/article/S1198-743X%2816%2900020-3/abstract)

**Randomized controlled clinical trial on the efficacy of fosfomycin trometamol for uncomplicated gonococcal urethritis in men.** [**Clinical Microbiology and Infection**](http://www.clinicalmicrobiologyandinfection.com/article/S1198-743X%2816%2930049-0/abstract)

**Incidence, Risk Factors, and Attributable Mortality of Secondary Infections in the Intensive Care Unit After Admission for Sepsis.** [**JAMA**](http://jama.jamanetwork.com/article.aspx?articleID=2503469)

**Gender differences in antibiotic prescribing in the community: a systematic review and meta-analysis.** [**Journal of Antimicrobial Chemotherapy**](http://jac.oxfordjournals.org/content/early/2016/03/22/jac.dkw054.abstract?papetoc)

**Dynamic interaction of colistin and meropenem on a WT and a resistant strain of Pseudomonas aeruginosa as quantified in a PK/PD model.** [**Journal of Antimicrobial Chemotherapy**](http://jac.oxfordjournals.org/content/71/5/1279.abstract?etoc)

**Tigecycline: Alone or in combination? [Infectious Diseases](http://www.ncbi.nlm.nih.gov/pubmed/26982103)**

## Prevention and intervention

**Impact of antibiotic restriction on resistance levels of Escherichia coli: a controlled interrupted time series study of a hospital-wide antibiotic stewardship programme.** [**Journal of Antimicrobial Chemotherapy**](http://jac.oxfordjournals.org/content/early/2016/03/22/jac.dkw055.abstract?papetoc)

**Cost-effectiveness of Ward Closure to Control Outbreaks of Norovirus  Infection in United Kingdom National Health Service Hospitals**[**Journal of Infectious Diseases**](http://jid.oxfordjournals.org/content/213/suppl_1/S19.abstract?etoc)

**Role of the Hospital Environment in Norovirus Containment.**[**Journal of Infectious Diseases**](http://jid.oxfordjournals.org/content/213/suppl_1/S12.abstract?etoc)

## Heat-resistant, extended-spectrum β-lactamase-producing Klebsiella pneumoniae in endoscope-mediated outbreak. [Journal of Hospital Infection](http://www.ncbi.nlm.nih.gov/pubmed/?term=Heat-resistant%2C+extended-spectrum+%CE%B2-lactamase-producing+Klebsiella+pneumoniae+in+endoscope-mediated+outbreakOriginal+Research+Article)

## Microbiology

**Dissemination of the blaKPC gene by clonal spread and horizontal gene transfer: comparative study of incidence and molecular mechanisms.** [**Journal of Antimicrobial Chemotherapy**](http://jac.oxfordjournals.org/content/early/2016/04/12/jac.dkw106.abstract?papetoc)

## Other

**Extraintestinal Pathogenic Escherichia coli, a Common Human Pathogen:
Challenges for Vaccine Development and Progress in the Field.**[**Journal of Infectious Diseases**](http://jid.oxfordjournals.org/content/213/1/6.abstract?etoc)

**Bacteriophage therapy: a regulatory perspective.** [**Journal of Antimicrobial Chemotherapy**](http://jac.oxfordjournals.org/content/early/2016/04/10/jac.dkw083.abstract?papetoc)

**Perception, Attitude, and Knowledge Regarding Antimicrobial Resistance, Appropriate Antimicrobial Use, and Infection Control Among Future Medical Practitioners: A Multicenter Study.** [**Infection Control & Hospital Epidemiology**](http://journals.cambridge.org/action/displayAbstract?fromPage=online&aid=10285200&fulltextType=RC&fileId=S0899823X16000088)

**Malnutrition and healthcare-acquired infections: the need for policy change in an evolving healthcare landscape.** [**Journal of Hospital Infection**](http://www.ncbi.nlm.nih.gov/pubmed/?term=Malnutrition+and+healthcare-acquired+infections%3A+the+need+for+policy+change+in+an+evolving+healthcare+landscape)

**Length of stay and mortality associated with healthcare-associated urinary tract infections: a multi-state model.** [**Journal of Hospital Infection**](http://www.ncbi.nlm.nih.gov/pubmed/?term=Length+of+stay+and+mortality+associated+with+healthcare-associated+urinary+tract+infections%3A+a+multi-state+model)

**Antimicrobial resistance diagnostics: time to call in the young? Comment.** [**Lancet Infectious Diseases**](http://www.sciencedirect.com/science/article/pii/S1473309916300111)

*The publications included in the scan are: Antimicrobial Agents and Chemotherapy, British Medical Journal, Clinical Infectious Diseases, Clinical Microbiology and Infection, Emerging Infectious Diseases, Eurosurveillance, Infection Control & Hospital Epidemiology, Infectious Diseases, JAMA - The Journal of the American Medical Association, Journal of Antimicrobial Chemotherapy, Journal of Hospital Infection, Journal of Infectious Diseases, Lancet, Lancet Infectious Diseases, New England Journal of Medicine, Pediatrics and Scandinavian Journal of Primary Health Care. In addition, other articles from other publications can be included.*