# ABR-Scan Science Week 13

## 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

**Detection of mcr-1 colistin resistance gene in polyclonal Escherichia coli isolates in Barcelona, Spain, 2012 to 2015 –** [**Eurosurveillance**](http://www.eurosurveillance.org/ViewArticle.aspx?ArticleId=21430)

**Intrapopulation variability in mutator prevalence among urinary tract infection isolates of Escherichia coli –** [**Clinical Microbiology and Infection**](http://www.clinicalmicrobiologyandinfection.com/article/S1198-743X%2816%2930023-4/abstract)

**Faropenem Consumption is Increasing in India –** [**Clinical Infectious Diseases**](http://cid.oxfordjournals.org/content/62/8/1050.2.long)

**Changing Susceptibility of *Staphylococcus aureus* in a US Pediatric Population –** [**Pediatrics**](http://pediatrics.aappublications.org/content/137/4/peds.2015-3099.abstract?etoc)

## Treatment and diagnosis

**Declining Mortality among hospitalized patients with community-acquired pneumonia – [Clinical Microbiology and Infection](http://www.clinicalmicrobiologyandinfection.com/article/S1198-743X%2816%2930031-3/abstract)**

**Randomized Trial of Longer-Term Therapy for Symptoms Attributed to Lyme Disease –** [**New England Journal of Medicine**](http://www.nejm.org/doi/full/10.1056/NEJMoa1505425)

**Efficacy and safety of oral solithromycin versus oral moxifloxacin for treatment of community-acquired bacterial pneumonia: a global, double-blind, multicentre, randomised, active-controlled, non-inferiority trial (SOLITAIRE-ORAL) –** [**Lancet Infectious Diseases**](http://thelancet.com/journals/laninf/article/PIIS1473-3099%2816%2900017-7/abstract)

**Combinatorial Pharmacodynamics of Ceftolozane-Tazobactam against Genotypically Defined β-Lactamase-Producing Escherichia coli: Insights   into the Pharmacokinetics/Pharmacodynamics of β-Lactam–β-Lactamase Inhibitor Combinations –** [**Antimicrobial Agents and Chemotherapy**](http://aac.asm.org/content/60/4/1967.abstract?etoc)

**Clinical Utility and Safety of a Model-Based Patient-Tailored Dose of Vancomycin in Neonates –** [**Antimicrobial Agents and Chemotherapy**](http://aac.asm.org/content/60/4/2039.abstract?etoc)

## Prevention and intervention

**A Systematic Review of the Definitions, Determinants, and Clinical Outcomes of Antimicrobial De-escalation in the Intensive Care Unit –** [**Clinical Infectious Diseases**](https://www.ncbi.nlm.nih.gov/pubmed/?term=A+Systematic+Review+of+the+Definitions%2C+Determinants%2C+and+Clinical+Outcomes+of+Antimicrobial+De-escalation+in+the+Intensive+Care+Unit)

**Intravenous amoxicillin/clavulanate for the prevention of bacteraemia following dental procedures: a randomized clinical trial –** [**Journal of Antimicrobial Chemotherapy**](http://jac.oxfordjournals.org/content/early/2016/03/29/jac.dkw081.abstract?papetoc)

**Pathogen-Specific Clustering of Nosocomial Blood Stream Infections in Very Preterm Infants –** [**Pediatrics**](http://pediatrics.aappublications.org/content/137/4/peds.2015-2860.abstract?etoc)

**Acute Otitis Media and Other Complications of Viral Respiratory Infection –**  [**Pediatrics**](http://pediatrics.aappublications.org/content/early/2016/03/25/peds.2015-3555?sso=1&sso_redirect_count=1&nfstatus=401&nftoken=00000000-0000-0000-0000-000000000000&nfstatusdescription=ERROR%3a+No+local+token)

**Hand hygiene-related clinical trials reported since 2010: a systematic review –** [**Journal of Hospital Infection**](http://www.sciencedirect.com/science/article/pii/S0195670115004892)

**Hand hygiene compliance: are we kidding ourselves? Editorial –** [**Journal of Hospital Infection**](http://www.sciencedirect.com/science/article/pii/S0195670116001249)

## Microbiology

**Plasmid-mediated colistin resistance: an additional antibiotic resistance menace –** [**Clinical Microbiology and Infection**](http://www.clinicalmicrobiologyandinfection.com/article/S1198-743X%2816%2930024-6/abstract)

**Wide variation in activity of antibiotic discs from nine manufacturers. Editorial –** [**Clinical Microbiology and Infection**](http://www.sciencedirect.com/science/article/pii/S1198743X15009908)

**Carbapenem resistance mediated by blaOXA-181 in Pseudomonas aeruginosa –** [**Journal of Antimicrobial Chemotherapy**](http://jac.oxfordjournals.org/content/early/2016/03/22/jac.dkw087.extract?papetoc)

## Other

**Proliferation of private online healthcare companies. Editorial.** Online private healthcare companies offer access to prescription-only medications previously controlled by GPs. This has implications in terms of safe drug monitoring, risks of drug interactions, and scope for drug companies to influence prescribing decisions. This is particularly relevant to antibiotics **–** [**bmj**](http://www.bmj.com/content/352/bmj.i1076)

**Doctors on demand –** [**bmj**](http://www.bmj.com/content/352/bmj.i1574?etoc)

**Do we need new antibiotics? –** [**Clinical Microbiology and Infection**](http://www.clinicalmicrobiologyandinfection.com/article/S1198-743X%2816%2930027-1/abstract)

**Is there a terrible issue with bacterial resistance: Pro-con –** [**Clinical Microbiology and Infection**](http://www.clinicalmicrobiologyandinfection.com/article/S1198-743X%2816%2930017-9/abstract)

**Public funding for research on antibacterial resistance in the JPIAMR countries, the European Commission, and related European Union agencies: a systematic observational analysis –** [**Lancet Infectious Diseases**](http://www.thelancet.com/journals/laninf/article/PIIS1473-3099%2815%2900350-3/fulltext)

**Healthcare workers mobile phone usage: A potential risk for viral contamination. Surveillance pilot study –** [**Infectious Diseases**](https://www.ncbi.nlm.nih.gov/pubmed/?term=Healthcare+workers+mobile+phone+usage%3A+A+potential+risk+for+viral+contamination.+Surveillance+pilot+study)

**Necessary Infrastructure of Infection Prevention and Healthcare Epidemiology Programs: A Review –** [**Infection Control & Hospital Epidemiology**](https://www.ncbi.nlm.nih.gov/pubmed/?term=Necessary+Infrastructure+of+Infection+Prevention+and+Healthcare+Epidemiology+Programs%3A+A+Review)

**Rifabutin: where do we stand in 2016? –** [**Journal of Antimicrobial Chemotherapy**](http://jac.oxfordjournals.org/content/early/2016/03/22/jac.dkw024.abstract?papetoc)

**Activity of temocillin in a lethal murine model of infection of intra-abdominal origin due to KPC-producing Escherichia coli –** [**Journal of Antimicrobial Chemotherapy**](http://jac.oxfordjournals.org/content/early/2016/03/29/jac.dkw066.abstract?papetoc)

**Emerging plasmid-encoded colistin resistance: the animal world as the culprit? –** [**Journal of Antimicrobial Chemotherapy**](http://jac.oxfordjournals.org/content/early/2016/03/29/jac.dkw074.extract?papetoc)

**Inappropriate use of antibiotics in children in China –** [**Lancet**](http://www.thelancet.com/journals/lancet/article/PIIS0140-6736%2816%2930019-8/fulltext?rss=yes)

**Impact of Surotomycin on the Gut Microbiota of Healthy Volunteers in a Phase 1 Clinical Trial –** [**Antimicrobial Agents and Chemotherapy**](http://aac.asm.org/content/60/4/2069.abstract?etoc)

*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.*