Spontaneous resistance to temocillin, an old and rarely used antibiotic indicated for the treatment of multiresistant Enterobacteriaceae infections : a case report C. Tron¹, J. Surugue¹ CP-140 ¹Centre hospitalier Georges Renon, 79021, Niort, France. **Background** CARBAPENEM Extended spectrum beta-lactamase (ESBL) producing **Emergence of resistant** But Effective Enterobacteriaceae are spreading in Europe carbapenemase antibiotics producing strains Marketed in: **TEMOCILLIN** Old and rarely used antibiotic United Kingdom A beta-lactam antibiotic Belgium derivative of ticarcillin France High beta-lactamase stability Only delivered on < approval from the Effective and relevant national agency for alternative to drugs= limited use of in Proportion of 3rd gen. cephalosporins resistant Klebsiella pnet (ESLB) isolates in 2012- (source:EARS database) carbapenem France Low levels of minimum inhibitory concentrations (MIC) expected **Purpose** To describe a case of spontaneous resistance to temocillin **Materials and Methods** > Review of medical record A 78 years old man >Focus on drug treatments and microbiologic laboratory hospitalized in intensive care unit because of several ▶In the light of temocillin bibliography and multidrug infectious episodes resistance bacteria literature data Results High MIC value of 96 µg/mL First treated with carbapenem (usual range between The patient is colonized but $8-32 \mu g/mL$) by a nosocomial To spare carbapenem in case multiresistant ESLB and of further infections Susceptibility test of the cephalosporinase-Resistance of the strain to temocillin realised producing Klebsiella strain to the pneumoniae which alternative caused septicemia antibiotic Conclusions

- Temocillin was found resistant to ESLB-producing Klebsiella pneumoniae while sensitivity was expected
- ■This underlines the **necessity of a careful antibiotic stewardship** in complicated cases and multi-drug resistance, keeping in mind that drugs saved as spare alternatives may not demonstrate the expected efficacy in contaminated environments.
- This potential limitation of therapeutic options should always be anticipated to avoid that antibiotic therapy is no longer an option for our infectious patients.