The resistance to carbapenems in Enterobacteriaceae is mainly due to the diffusion of carbapenemase genes. To date, three main classes of carbapenemases have been identified. Ambler class A beta-lactamase enzymes are encoded by genes that can be chromosomally encoded (\(\text{bla}\)KPC, \(\text{bla}\)NDM, \(\text{bla}\)OXA-48-like) or plasmid encoded (\(\text{bla}\)VIM, \(\text{bla}\)IMP, \(\text{bla}\)VIM, \(\text{bla}\)VIM-1) (Verona integron-encoded metallo-

bla

VIM

beta-lactamases). The Xpert KP-KPC assay is based on the detection of \(\text{bla}\)KPC genes, while the Xpert KP-VIM assay is based on the detection of \(\text{bla}\)VIM genes, due to the plasmid diffusion. The treatment options for infections caused by carbapenemase-producing Enterobacteriaceae (CPE) are limited and the emergence of new classes of antibiotics is troublesome. For this reason, major efforts in managing the spread of CPE are necessary and the strict application of classes of antibiotics is troublesome. For this reason, major efforts in managing the spread of CPE are necessary and the strict application of classes of antibiotics is troublesome. For this reason, major efforts in managing the spread of CPE are necessary and the strict application of classes of antibiotics is troublesome. For this reason, major efforts in managing the spread of CPE are necessary and the strict application of classes of antibiotics is troublesome. For this reason, major efforts in managing the spread of CPE are necessary and the strict application of classes of antibiotics is troublesome. For this reason, major efforts in managing the spread of CPE are necessary and the strict application of classes of antibiotics is troublesome. For this reason, major efforts in managing the spread of CPE are necessary and the strict application of classes of antibiotics is troublesome. For this reason, major efforts in managing the spread of CPE are necessary and the strict application of classes of antibiotics is troublesome. For this reason, major efforts in managing the spread of CPE are necessary and the strict application of classes of antibiotics is troublesome. For this reason, major efforts in managing the spread of CPE are necessary and the strict application of classes of antibiotics is troublesome. For this reason, major efforts in managing the spread of CPE are necessary and the strict application of classes of antibiotics is troublesome. For this reason, major efforts in managing the spread of CPE are necessary and the strict application of classes of antibiotics is troublesome. For this reason, major efforts in managing the spread of CPE are necessary and the strict application of classes of antibiotics is troublesome. For this reason, major efforts in managing the spread of CPE are necessary and the strict application of classes of antibiotics is troublesome. For this reason, major efforts in managing the spread of CPE are necessary and the strict application of classes of antibiotics is troublesome. For this reason, major efforts in managing the spread of CPE are necessary and the strict application of classes of antibiotics is troublesome. For this reason, major efforts in managing the spread of CPE are necessary and the strict application of classes of antibiotics is troublesome. For this reason, major efforts in managing the spread of CPE are necessary and the strict application of classes of antibiotics is troublesome.