

# Polymyxin B Resistance in Carbapenem-Resistant *Klebsiella pneumoniae*, São Paulo, Brazil

## Technical Appendix

**Technical Appendix Table 1.** Primers used for amplification and sequencing of the *bla<sub>KPC</sub>* gene

Primer designation	Use	Primer sequence
5-prom- <i>blaKPC</i> -JS	PCR and sequencing	5'-CTAGCTCCACCTTCAAACAAGGA
3-out- <i>blaKPC</i> -JS	PCR and sequencing	5'-TGGGTGGCCAATAGATGAT
<i>blaKPC</i> -397–416-seqF	Sequencing	5'-GCCGCCAATTTGTTGCTGAA
<i>blaKPC</i> -590–71-seqR	Sequencing	5'-GCAGAGCCCAGTGTCAAGTT

**Technical Appendix Table 2.** Demographic characteristics of *Klebsiella pneumoniae* isolates included in this study

Characteristic	No. (%) <i>K. pneumoniae</i> isolates (n = 3,085)
Year	
2011	468 (15.2)
2012	518 (16.8)
2013	629 (20.4)
2014	662 (21.5)
2015	808 (26.2)
Isolation source	
Blood	1,138 (36.9)
Respiratory tract	892 (28.9)
Other non-urinary non-surveillance	1,055 (34.2)

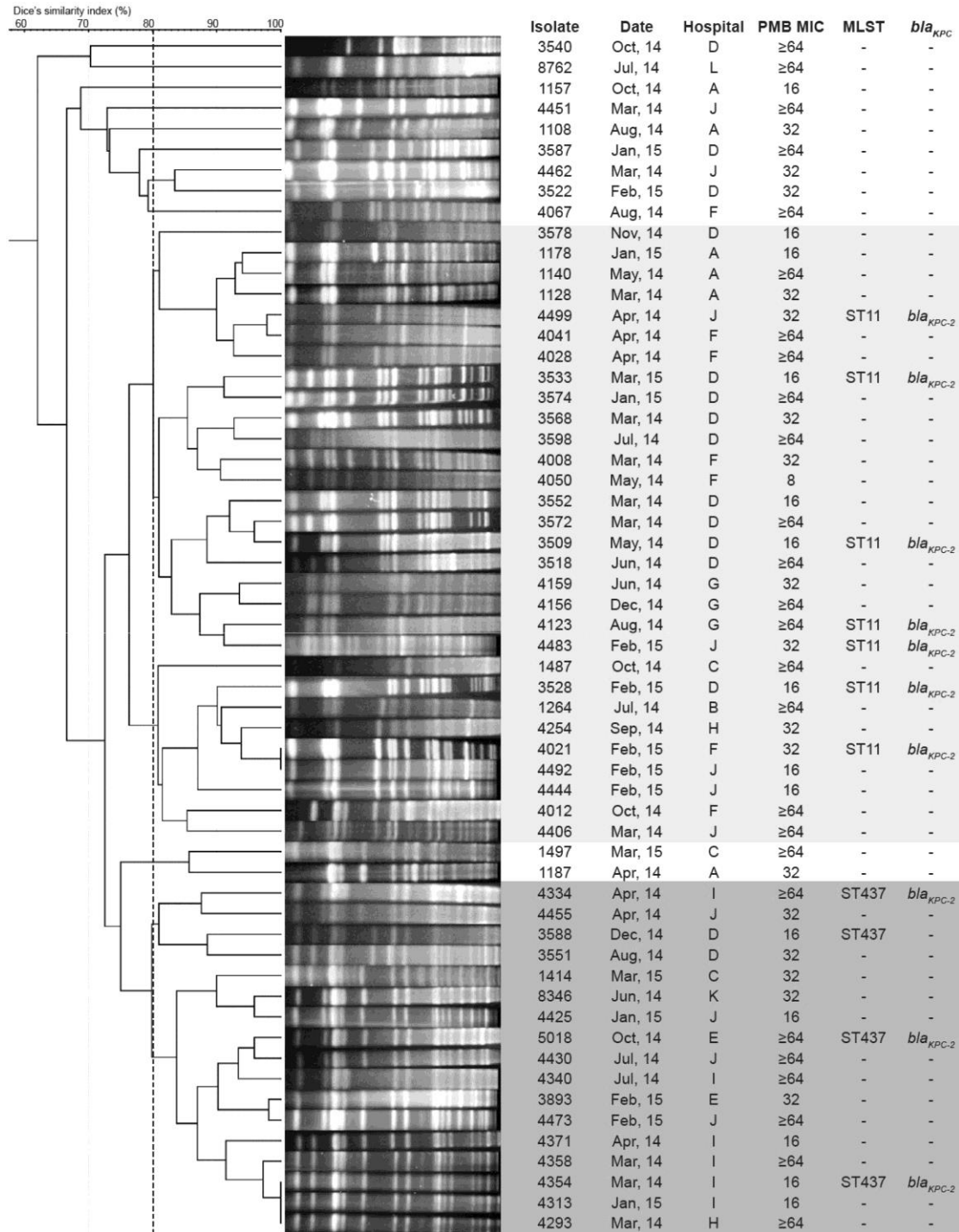
\*During July 1, 2015–December 31, 2015, only carbapenem-resistant *K. pneumoniae* were tested for polymyxin B susceptibility.

**Technical Appendix Table 3.** Susceptibility of carbapenem-resistant *Klebsiella pneumoniae* and carbapenem and polymyxin B-resistant *K. pneumoniae* to alternative antimicrobial drugs\*

Antimicrobial drug	Susceptibility	
	In CRKp, no. (%)†	In CPRKp, no. (%)†
Amikacin	841 (79.9)	183 (73.8)
Chloramphenicol	530 (23.8)	137 (41.6)
Fosfomicin	258 (27.9)	60 (81.6)
Gentamicin	839 (50.9)	182 (58.2)
Tigecycline	468 (72.2)	111 (69.4)

\*CRKp, carbapenem-resistant *K. pneumoniae*. CPRKp, carbapenem- and polymyxin B-resistant *K. pneumoniae*.

†Values indicate susceptibility rate and the number of isolates (n) tested for each antimicrobial drug.



**Technical Appendix Figure.** Clonal diversity among polymyxin B (PMB)– and carbapenem-resistant *Klebsiella pneumoniae* from São Paulo, Brazil. Isolates highlighted in shades of gray represent the 2 largest clonal groups that were detected. Public hospitals are represented by letters A and B. Private hospitals are represented by letters C–L. Date represents the month and year (i.e. 2014, or 2015). MLST, multilocus sequence typing; PMB MIC, PMB MIC in mg/L; ST, sequence type.