

Description of Additional Supplementary files

Supplementary Data 1. *Klebsiella pneumoniae* isolates, year of collection and minimum inhibitory concentration for 20 antimicrobial agents.

Supplementary Data 2. Metadata, genome features and genome quality metrics of 136 Illumina-sequenced *K. pneumoniae*.

Supplementary Data 3. Presence and/or absence of antimicrobial resistance genetic determinants, hypervirulence genes, and K and O locus types in 136 bloodstream *K. pneumoniae* genomes.

Supplementary Data 4. Antimicrobial resistance phenotype and genotype concordance analysis of bloodstream *K. pneumoniae* in this study.

Supplementary Data 5. Genomic features of plasmids harboring the ESBL gene blaCTX-M-15 in 12 *K. pneumoniae* genomes in this study.

Supplementary Data 6. Genomic information of plasmids harboring hypervirulence genes in five *K. pneumoniae* genomes in this study.

Supplementary Data 7. Genome quality metrics of 12 ONT-sequenced *K. pneumoniae*.