

## Supplemental Digital Content 6

### Characterization of $\beta$ -lactamase genotypes

Gram-negative pathogens meeting specific drug susceptibility criteria indicating the presence of a  $\beta$ -lactamase<sup>1</sup> underwent further evaluation for genotypic identification. Characterization of  $\beta$ -lactamase genotypes was completed using total genomic DNA extracted by a fully automated Thermo Scientific™ KingFisher™ Flex Magnetic Particle Processor (Cleveland, OH, USA); extracted DNA was used as input material for library construction. DNA libraries were prepared using the Nextera™ library construction protocol (Illumina, San Diego, CA, USA) according to the manufacturer's instructions and were sequenced on a MiSeq Sequencer (JMI Laboratories, North Liberty, IA, USA). FASTQ format sequencing files for each sample set were assembled independently using de novo assembler SPAdes 3.9.0. Screening of  $\beta$ -lactamase genes was performed by an in-house designed software that aligned the assembled sequences against a curated database containing known  $\beta$ -lactamase genes. In addition, the quantitative expression of the chromosomal AmpC gene was performed as previously described.<sup>1</sup>

1. Mendes RE, Castanheira M, Woosley LN, et al. Molecular beta-Lactamase Characterization of Aerobic Gram-Negative Pathogens Recovered from Patients Enrolled in the Ceftazidime-Avibactam Phase 3 Trials for Complicated Intra-abdominal Infections, with Efficacies Analyzed against Susceptible and Resistant Subsets. *Antimicrob Agents Chemother.* 2017;61.