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2 Pseudomonas aeruginosa infections: A pharmacokinetic/pharmacodynamic analysis using Monte Carlo simulation 3 4 Yongfu Hang¹, Yafang Chen², Ling Xue¹, Shusen Sun³, Long Liu⁴, Jie Gao¹, Cheng 5 Xie¹, Xianfeng Zhang⁵, Jianguo Zhu¹, Jun Jin⁶, Liyan Miao^{1#} 6 7 ¹Department of pharmacy, The First Affiliated Hospital of Soochow University, 8 Suzhou 215006, 9 10 China ²Department of pharmacy, The First People's Hospital of Kunshan, Suzhou 215006, 11 12 China³College of Pharmacy, Western New England University, Springfield, Massachusetts 13 01119, USA 14 ⁴Intensive Care Unit, The First People's Hospital of Kunshan, Suzhou 215006, China 15 ⁵Department of Laboratory, The First Affiliated Hospital of Soochow University, 16 Suzhou 215006, China 17 ⁶Intensive Care Unit, The First Affiliated Hospital of Soochow University, Suzhou 18 215006, China 19 20 Running Head: Monte Carlo simulation of Biapenem against P. aeruginosa 21 22

1

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