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Diversity of carbapenemase-producing Enterobacteriaceae epidemiology in long-term acute care rehabilitation settings from an area of hyper-endemicity, and evaluation of an intervention bundle

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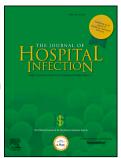
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1 Diversity of carbapenemase-producing Enterobacteriaceae epidemiology in long-term acute care 2 rehabilitation settings from an area of hyper-endemicity, and evaluation of an intervention 3 bundle 4 Fabio Arena¹, Federica Vannetti², Vincenzo Di Pilato³, Laura Fabbri², Olga Lorenza Colavecchio³, 5 Tommaso Giani³, Chiara Marraccini⁴, Roberto Pupillo², Claudio Macchi², Francesco Converti² and 6 7 Gian Maria Rossolini^{3,5} 8 9 1. Department of Medical Biotechnologies, University of Siena, Siena, Italy 10 2. Don Carlo Gnocchi Foundation, Florence, Italy 11 3. Department of Experimental and Clinical Medicine, University of Florence, Florence, Italy 4. Synlab Laboratory, Sesto Fiorentino, Italy 12 13 5. Clinical Microbiology and Virology Unit, Florence Careggi University Hospital, Florence, Italy 14 15 * Corresponding author: Gian Maria Rossolini, Dipartimento di Medicina Sperimentale e Clinica, 16 Università di Firenze, S.O.D. Microbiologia e Virologia, Azienda Ospedaliera-Universitaria Careggi, Largo Brambilla, 50134 Florence, Italy. E-mail: gianmaria.rossolini@unifi.it 17 18 19 **Keywords:** Klebsiella pneumoniae; KPC; intestinal colonization; infection control Running title: CRE epidemiology in rehabilitation 20 21

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