

Carbapenemase-Producing Enterobacteriaceae and Nonfermentative Bacteria, the Philippines, 2013–2016

Technical Appendix

Technical Appendix Table. Molecular resistance mechanisms of carbapenem-resistant clinical (n = 45) and environmental isolates (n = 3) from a tertiary-care military hospital in Manila, the Philippines, August 2013–April 2016*

Identification	Source	Organism	Carba NP	<i>bla_{NDM}</i>	<i>bla_{KPC}</i>	<i>bla_{VIM}</i>	Month	Year	Imipenem MIC (µg/mL)	Meropenem MIC (µg/mL)	Sex	Hospital ward
Patient isolates												
PH-0138–14	Blood	<i>K. pneumoniae</i>	Pos	Pos	Neg	ND	Nov	2013	>8	>8	M	Neonatal ICU
PH-0542–14	Soft tissue	<i>E. coli</i>	Pos	Pos	Neg	ND	Jun	2014	>8	>8	M	Pediatric
PH-0630–14	Wound	<i>K. pneumoniae</i>	Pos	Pos	Neg	ND	Jul	2014	>8	>8	F	Female Medical
PH-0631–14	Blood	<i>C. freundii</i>	Pos	Pos	Neg	ND	Jul	2014	>8	>8	M	Neurosurgery
PH-0756–14	Catheter	<i>K. pneumoniae</i>	Pos	Pos	Neg	ND	Aug	2014	>8	>8	F	Medical ICU
PH-0787–14	Endotracheal tip	<i>K. pneumoniae</i>	Pos	Pos	Neg	ND	Aug	2014	>8	>8	M	Medical ICU
PH-0837–14	Catheter	<i>K. pneumoniae</i>	Pos	Pos	Neg	ND	Sep	2014	>8	>8	F	Female Surgical
PH-0846–14	Catheter	<i>E. cloacae</i>	Pos	Pos	Neg	ND	Sep	2014	>8	>8	M	Male Medical Oncology
PH-0850–14	Urine	<i>K. pneumoniae</i>	Pos	Pos	Neg	ND	Sep	2014	>8	>8	F	Female Medical
PH-0873–14	Urine	<i>K. pneumoniae</i>	Pos	Pos	Neg	ND	Oct	2014	>8	>8	M	Surgical ICU
PH-0874–14	Wound	<i>Klebsiella sp.</i>	Pos	Pos	Neg	ND	Oct	2014	>8	>8	M	Female Medical
PH-0901–14	Wound	<i>C. freundii</i>	Pos	Pos	Neg	ND	Oct	2014	>8	>8	F	Female Surgical
PH-1037–14	Catheter	<i>K. pneumoniae</i>	Pos	Pos	Neg	ND	Dec	2014	>8	>8	F	Female Medical
PH-1076–14	Urine	<i>K. pneumoniae</i>	Pos	Pos	Neg	ND	Dec	2014	>8	>8	M	Medical ICU
PH-1078–14	Blood	<i>K. pneumoniae</i>	Pos	Pos	Neg	ND	Dec	2014	>8	>8	F	Female Medical
PH-1088–14	Endotracheal tip	<i>K. pneumoniae</i>	Pos	Pos	Neg	ND	Jan	2015	>8	>8	F	Medical ICU
PH-1093–14	Tracheal aspirate	<i>K. pneumoniae</i>	Pos	Pos	Neg	ND	Dec	2014	>8	>8	F	Female Medical
PH-1099–14	Endotracheal tip	<i>Acinetobacter sp.</i>	Pos	Pos	Neg	ND	Dec	2014	*	>8	M	Surgical ICU
PH-1115–14	Blood	<i>K. pneumoniae</i>	Pos	Pos	Neg	ND	Dec	2014	>8	>8	F	Female Medical
PH-1142–15	Blood	<i>K. pneumoniae</i>	Pos	Pos	Neg	ND	Jan	2015	>8	>8	F	Female Medical
PH-1143–15	Wound	<i>K. pneumoniae</i>	Pos	Pos	Neg	ND	Jan	2015	>8	>8	M	Neurology
PH-1150–15	Catheter	<i>E. cloacae</i>	Pos	Pos	Neg	ND	Jan	2015	>8	>8	M	Neurosurgery
PH-1159–15	Catheter	<i>K. pneumoniae</i>	Pos	Pos	Neg	ND	Jan	2015	>8	>8	M	Neurology
PH-1165–15	Urine	<i>K. pneumoniae</i>	Pos	Pos	Neg	ND	Jan	2015	>8	>8	M	Pulmonary Disease
PH-1166–15	Urine	<i>K. pneumoniae</i>	Pos	Pos	Neg	ND	Feb	2015	>8	>8	M	Surgical ICU
PH-1261–15	Blood	<i>C. freundii</i>	Pos	Pos	Neg	ND	Jul	2015	8	>8	M	Nephrology
PH-1263–15	Blood	<i>E. cloacae</i>	Pos	Pos	Neg	ND	Jul	2015	>8	>8	F	Neonatal ICU
PH-1265–15	Blood	<i>E. cloacae</i>	Pos	Pos	Neg	ND	Jul	2015	8	8	F	Neonatal ICU
PH-1266–15	Blood	<i>E. cloacae</i>	Pos	Pos	Neg	ND	Jul	2015	>8	>8	F	Neonatal ICU
PH-1270–15	Blood	<i>K. pneumoniae</i>	Pos	Pos	Neg	ND	Jan	2015	>8	>8	F	Female Medical

Identification	Source	Organism	Carba				Month	Year	Imipenem		Meropenem		Sex	Hospital ward
			NP	<i>bla_{NDM}</i>	<i>bla_{KPC}</i>	<i>bla_{VIM}</i>			MIC (µg/mL)	MIC (µg/mL)				
PH-1279-15	Wound	<i>K. oxytoca</i>	Pos	Pos	Neg	ND	Jan	2015	8	>8		M	Neurology	
PH-1280-15	Urine	<i>C. freundii</i>	Pos	Pos	Neg	ND	Jan	2015	>8	>8		M	Neurology	
PH-1363-15	Wound	<i>P. aeruginosa</i>	Pos	Pos	Neg	ND	Sep	2015	>8	>8		M	Surgical ICU	
PH-1379-15	Blood	<i>K. pneumoniae</i>	Pos	Pos	Neg	ND	Sep	2015	>8	>8		M	Medical ICU	
PH-1384-15	Blood	<i>K. pneumoniae</i>	Pos	Pos	Neg	ND	Oct	2015	>8	>8		F	Medical ICU	
PH-1394-15	Wound	<i>K. pneumoniae</i>	Pos	Pos	Neg	ND	Oct	2015	>8	>8		M	Surgical ICU	
PH-1419-15	Urine	<i>K. pneumoniae</i>	Pos	Pos	Neg	ND	Oct	2015	>8	>8		F	Female Medical	
PH-1477-15	Wound	<i>E. cloacae</i>	Pos	Pos	Neg	ND	Oct	2015	>8	>8		F	Medical ICU	
PH-1478-15	Wound	<i>E. cloacae</i>	Pos	Pos	Neg	ND	Oct	2015	>8	>8		F	Female Medical	
PH-1482-15	Wound	<i>K. pneumoniae</i>	Pos	Pos	Neg	ND	Oct	2015	>8	>8		F	Medical ICU	
PH-1499-15	Wound	<i>E. cloacae</i>	Pos	Pos	Neg	ND	Oct	2015	>8	>8		F	Medical ICU	
PH-1595-16	Blood	<i>E. cloacae</i>	Pos	Pos	Neg	ND	Jan	2016	>8	>8		F	Female Medical	
PH-1641-16	Blood	<i>K. pneumoniae</i>	Pos	Pos	Neg	ND	Feb	2016	>8	>8		M	Neurology	
PH-0745-14	Wound	<i>P. aeruginosa</i>	Pos	Neg	Neg	Pos	Aug	2014	8	>8		M	Male Surgical	
PH-0905-14	Soft tissue	<i>P. aeruginosa</i>	Pos	Neg	Neg	Pos	Oct	2014	>8	>8		M	Post-anesthesia Care Unit	
ATCC strains														
ATCC 2473		<i>K. pneumoniae</i>	Pos	Pos	Neg	ND	Apr	2016						
ATCC 1705		<i>K. pneumoniae</i>	Pos	Neg	Pos	ND	Apr	2016						
ATCC 1706		<i>K. pneumoniae</i>	Neg	Neg	Neg	ND	Apr	2016						
Environmental isolates <i>bla_{NDM}</i> positive (n = 3)														
E1	Laryngoscope	<i>K. pneumoniae</i>	Neg	Pos	Neg	ND	Nov	2014	>8	>8			Neonatal ICU	
E3	Incubator	<i>K. pneumoniae</i>	Neg	Pos	Neg	ND	Nov	2014	>8	>8			Neonatal ICU	
E7	Suction 1	<i>K. pneumoniae</i>	Neg	Pos	Neg	ND	Nov	2014	>8	>8			Neonatal ICU	

*ICU, intensive care unit; ND, not done; Neg, negative; Pos, positive.