

CORRECTION

# Correction: New Delhi Metallo- $\beta$ -Lactamase 1 (NDM-1), the Dominant Carbapenemase Detected in Carbapenem-Resistant *Enterobacter cloacae* from Henan Province, China

Cailin Liu, Shangshang Qin, Hui Xu, Lijuan Xu, Di Zhao, Xuchun Liu, Shaolei Lang, Xianju Feng, Hong-Min Liu

There is an error in the penultimate sentence of the “Detection of *bla*<sub>NDM-1</sub> positive isolates” subsection of the Results. The correct sentence is: These isolates were collected from 8 individual patients, consisting of 5 male (62.5%) and 3 female (37.5%) with a mean age of 29.7 years, including 2 infants (ECL-2, ECL-36).

There is an error in [Table 2](#), “Characteristics of *bla*<sub>NDM-1</sub>-positive *E. cloacae*.” Please see the corrected [Table 2](#) here.

There is an error in [Table 3](#), “Antibiotic susceptibilities of *bla*<sub>NDM-1</sub>-positive *E. cloacae* and transconjugants ( $\mu\text{g}/\text{mL}$ ).” Please see the corrected [Table 3](#) here.



## OPEN ACCESS

**Citation:** Liu C, Qin S, Xu H, Xu L, Zhao D, Liu X, et al. (2015) Correction: New Delhi Metallo- $\beta$ -Lactamase 1(NDM-1), the Dominant Carbapenemase Detected in Carbapenem-Resistant *Enterobacter cloacae* from Henan Province, China. PLoS ONE 10 (10): e0140726. doi:10.1371/journal.pone.0140726

**Published:** October 9, 2015

**Copyright:** © 2015 Liu et al. This is an open access article distributed under the terms of the [Creative Commons Attribution License](#), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

**Table 2. Characteristics of *bla*<sub>NDM-1</sub>-positive *E. cloacae*.**

Isolate	Clinical features				STs <sup>a</sup>	Associated resistance determinants <sup>b</sup>			Plasmid type carrying <i>bla</i> <sub>NDM-1</sub> / Plasmid size (kb)
	Age/ Sex	Specimen	Ward	Outcome		$\beta$ -lactamases	16SrRNA methylase	Others	
ECL-2	7m/ female	sputum	Cardial Surgery	discharge	ST177	<u>TEM-1</u> , EBC, CMY-2, CTX-M-1	RmtB	-	Untypeable/70
ECL-4	48y/ male	blood	ICU	discharge	ST88	<u>TEM-1</u> , ACT-20, <u>CTX-M-3</u>	-	-	N/65
ECL-27	57y/ male	blood	ICU	discharge	ST90	ACT-20, <u>CTX-M-G9</u>	-	-	Untypeable/55
ECL-36	15d/ male	sputum	NICU	death	ST41	MIR-2	-	-	A/C/160
ECL-37	37y/ male	urine	Urology	discharge	ST120	ACT-20, <u>CTX-M-3</u>	-	-	Untypeable/55
ECL- 62	25y/ female	urine	Neurosurgery	death	ST120	<u>ACT-20</u> , <u>CTX-M-15</u>	<u>ArmA</u>	<u>fosA3</u>	HI2/340
ECL- ZMD10	49y/ male	wound	Burn unit	discharge	ST120	-	<u>ArmA</u>	<u>fosA3</u>	Untypeable/360
ECL- ZMD12	21y/ female	blood	Hematology	death	ST93	-	<u>ArmA</u>	-	A/C/55

<sup>a</sup> ST: Sequence type determined by multilocus sequence typing (MLST)

<sup>b</sup> Resistance markers that are co-transferred with *bla*<sub>NDM-1</sub> by conjugation are underlined. Minus signs indicate negative results.

doi:10.1371/journal.pone.0140726.t001

**Table 3. Antibiotic susceptibilities of *bla*<sub>NDM-1</sub>-positive *E. cloacae* and transconjugants (µg/mL).**

Isolate no. <sup>a</sup>	Antibiotics <sup>b</sup>															
	TZP	CAZ	FEP	IPM	ETP	CIP	LEV	GEN	AMK	SXT	ATM	CHL	TET	FOS	TGC	CST
ECL-2	>256	>256	>256	32	>32	1	1	>256	>256	>320	>256	64	>256	32	2	0.5
ECL-4	>256	>256	>256	64	>32	16	>32	8	16	>320	>256	32	128	64	16	0.5
ECL-27	>256	>256	>256	>64	>32	>32	16	64	2	>320	>256	64	>256	16	3	1
ECL-36	>256	>256	>256	32	>32	<0.25	<0.25	32	<2	>320	256	8	4	8	2	1
ECL-37	>256	>256	>256	16	32	16	>32	>256	>256	>320	>256	32	128	64	3	1
<b>ECL-62</b>	<b>&gt;256</b>	<b>&gt;256</b>	<b>&gt;256</b>	<b>64</b>	<b>32</b>	<b>16</b>	<b>32</b>	<b>&gt;256</b>	<b>&gt;256</b>	<b>&gt;320</b>	<b>&gt;256</b>	<b>256</b>	<b>&gt;256</b>	<b>&gt;512</b>	<b>4</b>	<b>1</b>
<b>ECL-ZMD10</b>	<b>64</b>	<b>&gt;256</b>	<b>&gt;256</b>	<b>8</b>	<b>32</b>	<b>&gt;32</b>	<b>&gt;32</b>	<b>&gt;256</b>	<b>&gt;256</b>	<b>&gt;320</b>	<b>256</b>	<b>256</b>	<b>256</b>	<b>128</b>	<b>1</b>	<b>1</b>
<b>ECL-ZMD12</b>	<b>&gt;256</b>	<b>&gt;256</b>	<b>&gt;256</b>	<b>8</b>	<b>32</b>	<b>&gt;32</b>	<b>&gt;32</b>	<b>&gt;256</b>	<b>&gt;256</b>	<b>&gt;320</b>	<b>&gt;256</b>	<b>256</b>	<b>256</b>	<b>32</b>	<b>3</b>	<b>2</b>
<i>E. coli</i> Transconjugant Strains																
ECL-2-J53	>256	>256	>256	32	32	1	0.5	64	64	>320	128	8	64	16	1	0.5
ECL-4-J53	>256	>256	>256	32	32	16	32	2	8	>320	128	8	32	16	4	0.5
ECL-27-J53	>256	>256	>256	32	>32	16	8	16	2	>320	>256	32	64	8	1.5	1
ECL-36-J53	64	>256	>256	32	>32	<0.25	<0.25	32	<2	>320	<1	8	8	8	1.5	1
ECL-37-J53	>256	>256	>256	16	32	16	32	16	>64	>320	>256	16	128	32	1.5	1
ECL-62-J53	>256	>256	>256	32	16	16	32	64	>64	>320	>256	32	128	>512	2	1
ECL-ZMD10-J53	64	>256	>256	4	16	32	16	>256	>256	>320	128	256	256	128	1.5	0.5
ECL-ZMD12-J53	>256	>256	>256	8	32	32	32	>256	16	<20	>256	256	256	32	3	1
EC J53	<4	<1	<1	<1	<0.5	<0.25	<0.25	<1	<2	<20	<1	8	2	2	0.25	0.5

<sup>a</sup> ECL, *E. cloacae* strains; For the transconjugants, all were *E. coli* J53 harboring plasmids from the respective clinical isolates. All of the *bla*<sub>NDM-1</sub>-positive isolates were multidrug-resistant (MDR) strains, the XDR isolates are highlighted in bold type.

<sup>b</sup> Abbreviations used: TZP, piperacillin/tazobactam (0.5/4-256/4); CAZ, ceftazidime (0.03–256); FEP, cefepime (0.015–256); IPM, imipenem(0.06–64); ETP, ertapenem(0.004–32); CIP, ciprofloxacin (0.004–32); LEV, levofloxacin (0.008–32); GEN, gentamicin (0.25–256); AMK, amikacin (0.5–256); ATM, aztreonam (0.06–256); CHL, chloroamphenicol (0.016–256); TET, tetracycline (0.016–256); FOS, fosfomycin (0.25–512); TGC, tigecycline (0.016–256); CST, colistin (0.016–256). The numbers in parentheses indicate the test range (µg/mL) for each agent.

doi:10.1371/journal.pone.0140726.t002

## Reference

1. Liu C, Qin S, Xu H, Xu L, Zhao D, Liu X, et al. (2015) New Delhi Metallo-β-Lactamase 1 (NDM-1), the Dominant Carbapenemase Detected in Carbapenem-Resistant *Enterobacter cloacae* from Henan Province, China. PLoS ONE 10(8): e0135044. doi:10.1371/journal.pone.0135044 PMID: 26263489