

Supplementary Materials

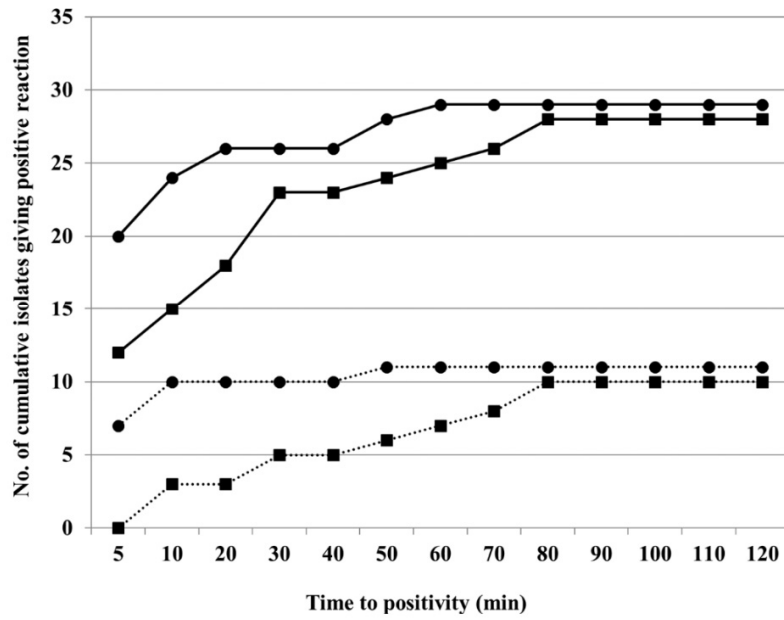


Figure S1. Time to positivity by the modified GoldNano Carb test (●) compared with the conventional GoldNano Carb test (■) among 29 carbapenemase producers (solid lines) and 11 OXA producers (dashed lines).

Table S1. Detail of Gram-negative bacilli clinical isolates collected from six hospitals

Organisms	No. of isolates from each hospital						Total
	A	B	C	D	E	F	
Collection period between	Jun and Jul 2019	May and Aug 2020	Feb and Aug 2019	Sep 2019 and Jan 2020	Jan and Aug 2020	Feb and Aug 2019	
Enterobacterales	105	124	94	72	53	47	495
<i>Acinetobacter</i> spp.	63	44	0	68	37	0	212
<i>P.aeruginosa</i>	59	21	0	24	21	0	125
Total	227	189	94	164	111	47	832

A & B, Northeast; C & D, Central; E, West; F, South.

Table S2. Carbapenemase genes in clinical isolates collected from the six hospitals

Hospitals/Gram negative bacteria	No. of isolates with carbapenemase genes														Non- carbapenemases	Total	
	<i>bla</i> _{OXA-48}	<i>bla</i> _{NDM}	<i>bla</i> _{VIM}	<i>bla</i> _{IMP}	<i>bla</i> _{OXA-23}	<i>bla</i> _{OXA-58}	<i>bla</i> _{IMP}	<i>bla</i> _{NDM}	<i>bla</i> _{NDM}	<i>bla</i> _{NDM}	<i>bla</i> _{NDM}	<i>bla</i> _{NDM}	<i>bla</i> _{OXA-23}	<i>bla</i> _{NDM}			
	like				like	like	<i>bla</i> _{OXA-48}	<i>bla</i> _{IMP}	<i>bla</i> _{VIM}	<i>bla</i> _{OXA-48}	<i>bla</i> _{OXA-23}	<i>bla</i> _{OXA-58}	like ₇	<i>bla</i> _{OXA-23} like ₇			
							like			like	like	like	<i>bla</i> _{OXA-58}	<i>bla</i> _{OXA-58} like			
														like			
A																	227
<i>K.pneumoniae</i>	14	10														22	46
<i>E.coli</i>	1	1														42	44
<i>P.mirabilis</i>																5	5
<i>Enterobacter</i> spp.																4	4
<i>Klebsiella</i> spp.																3	3
<i>P.vulgaris</i>																1	1
<i>M.morganii</i>																1	1
<i>C.koseri</i>																1	1
<i>A.baumannii</i>					27						2		1			33	63
<i>P.aeruginosa</i>		2	3	3				1								50	59
B																	189
<i>K.pneumoniae</i>	19	14								1						34	68
<i>E.coli</i>	2	21														31	54
<i>K.aerogenes</i>		2															2
<i>A.baumannii</i>		1			32	2							3			6	44
<i>P.aeruginosa</i>		10	2	2												7	21
C																	94
<i>K.pneumoniae</i>	52	8								2						8	70
<i>E.coli</i>	5						1			1						9	16
<i>Proteus</i> spp.	1															3	4
<i>Enterobacter</i> spp.	1															1	2
<i>Serratia</i> spp.																1	1
<i>M.morganii</i>																1	1
D																	164

Hospitals/Gram negative bacteria	No. of isolates with carbapenemase genes														Non- carbapenemases	Total
	<i>bla</i> _{OXA-48}	<i>bla</i> _{NDM}	<i>bla</i> _{VIM}	<i>bla</i> _{IMP}	<i>bla</i> _{OXA-23}	<i>bla</i> _{OXA-58}	<i>bla</i> _{IMP}	<i>bla</i> _{NDM}	<i>bla</i> _{NDM}	<i>bla</i> _{NDM}	<i>bla</i> _{NDM}	<i>bla</i> _{NDM}	<i>bla</i> _{OXA-23}	<i>bla</i> _{NDM}		
	like				like	like	<i>bla</i> _{OXA-48}	<i>bla</i> _{IMP}	<i>bla</i> _{VIM}	<i>bla</i> _{OXA-48}	<i>bla</i> _{OXA-23}	<i>bla</i> _{OXA-58}	like	<i>bla</i> _{OXA-23} like		
							like			like	like	like	<i>bla</i> _{OXA-58}	<i>bla</i> _{OXA-58} like		
<i>K.pneumoniae</i>	5	11		1											22	39
<i>E.coli</i>		2													14	16
<i>Enterobacter</i> spp.				1											8	9
<i>Serratia</i> spp.															4	4
<i>E.aerogenes</i>															1	1
<i>E.cloacae</i>															1	1
<i>S.marcescens</i>															1	1
<i>M.morganii</i>															1	1
<i>A.baumannii</i>					51	4					1		2		9	67
<i>A.haemolyticus</i>		1														1
<i>P.aeruginosa</i>			1												23	24
E																111
<i>K.pneumoniae</i>	10	14													5	29
<i>E.coli</i>		6													10	16
<i>Enterobacter</i> spp.		1													3	4
<i>C.freundii</i>		1													1	2
<i>Klebsiella</i> spp.		1													1	2
<i>A.baumannii</i>		1			26	2						3	3	1	1	37
<i>P.aeruginosa</i>		5	6	7				1	1						1	21
F																47
<i>K.pneumoniae</i>	4	12													15	31
<i>E.coli</i>		8													3	11
<i>Enterobacter</i> spp.		4													1	5
Total	114	136	12	14	136	8	1	2	1	4	3	3	9	1	388	832

A & B, Northeast; C & D, Central; E, West; F, South.