

AMR IN CHINA

Zheng Bo, MD

CARSS, North Center

Peking University First Hospital

Institute of Clinical Pharmacology, Peking University

Morbidity and Mortality Weekly Report (*MMWR*)

[CDC](#) > [MMWR](#)

Notes from the Field: Pan-Resistant New Delhi Metallo-Beta-Lactamase-Producing *Klebsiella pneumoniae* – Washoe County, Nevada, 2016

Weekly / January 13, 2017 / 66(1);33



Format: ▾

Lei Chen, PhD¹; Randall Todd, DrPH¹; Julia Kiehlbauch, PhD^{2,3}; Maroya Walters, PhD⁴; Alexander Kallen, MD⁴ ([View author affiliations](#))

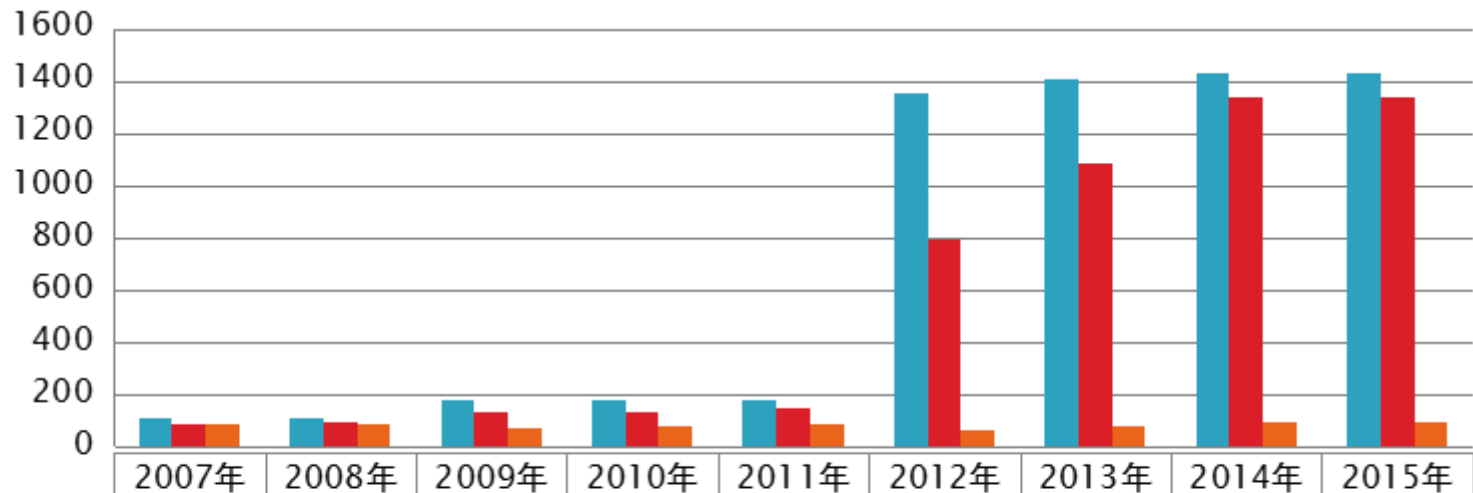


 News (156)
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On August 25, 2016, the Washoe County Health District in Reno, Nevada, was notified of a patient at an acute care hospital with carbapenem-resistant *Enterobacteriaceae* (CRE) that was resistant to all available antimicrobial drugs. Antimicrobial susceptibility testing in the United States indicated that the isolate was resistant to 26 antibiotics, including aminoglycosides, polymyxins and tigecycline.

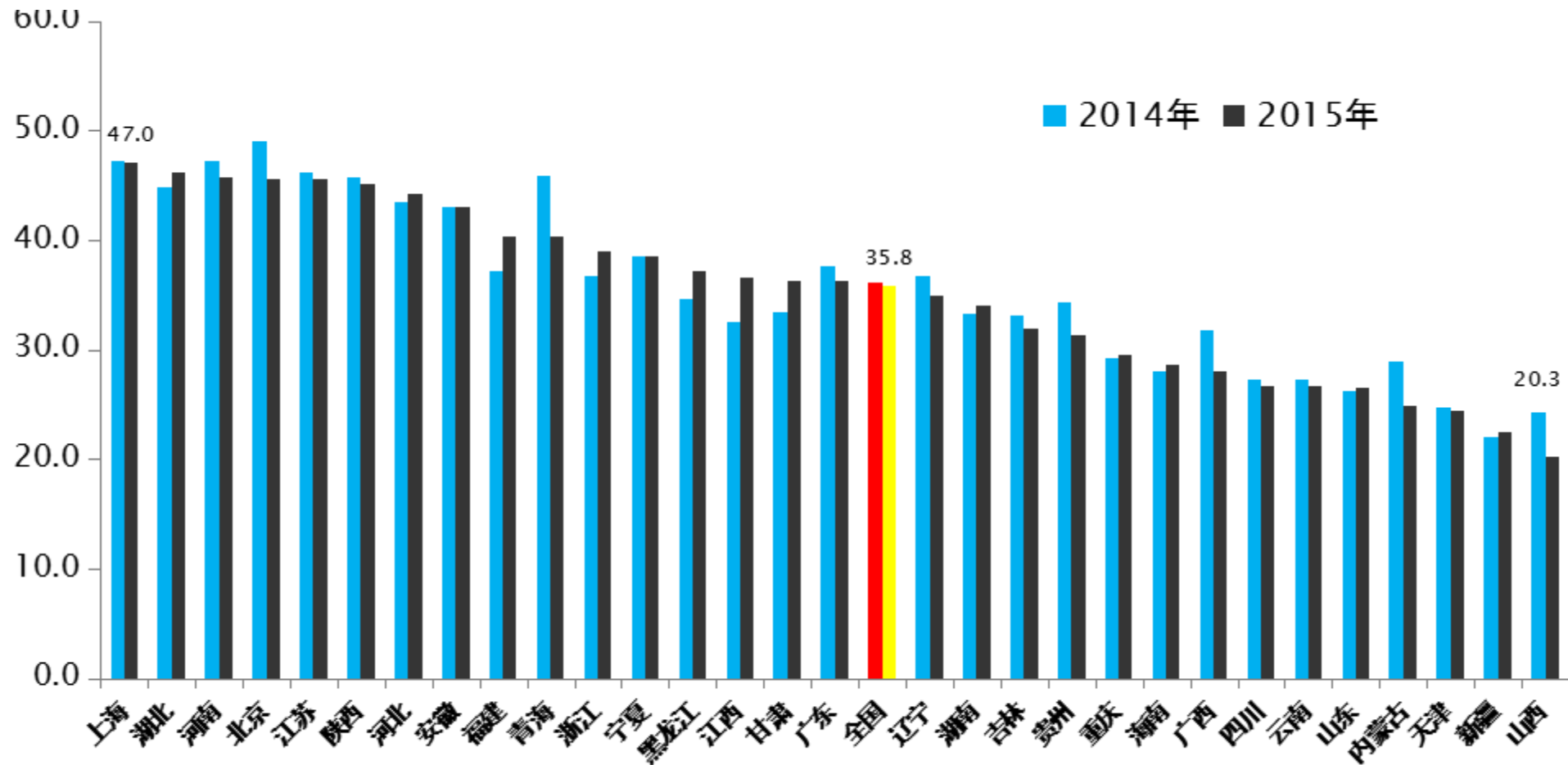
China Antimicrobial Resistance Surveillance System, CARSS

2005-2012: Administrated by Institute of Clinical Pharmacology, PKU
 2012-: Administrated by Committee of Experts on Rational Drug Use, NHFPC

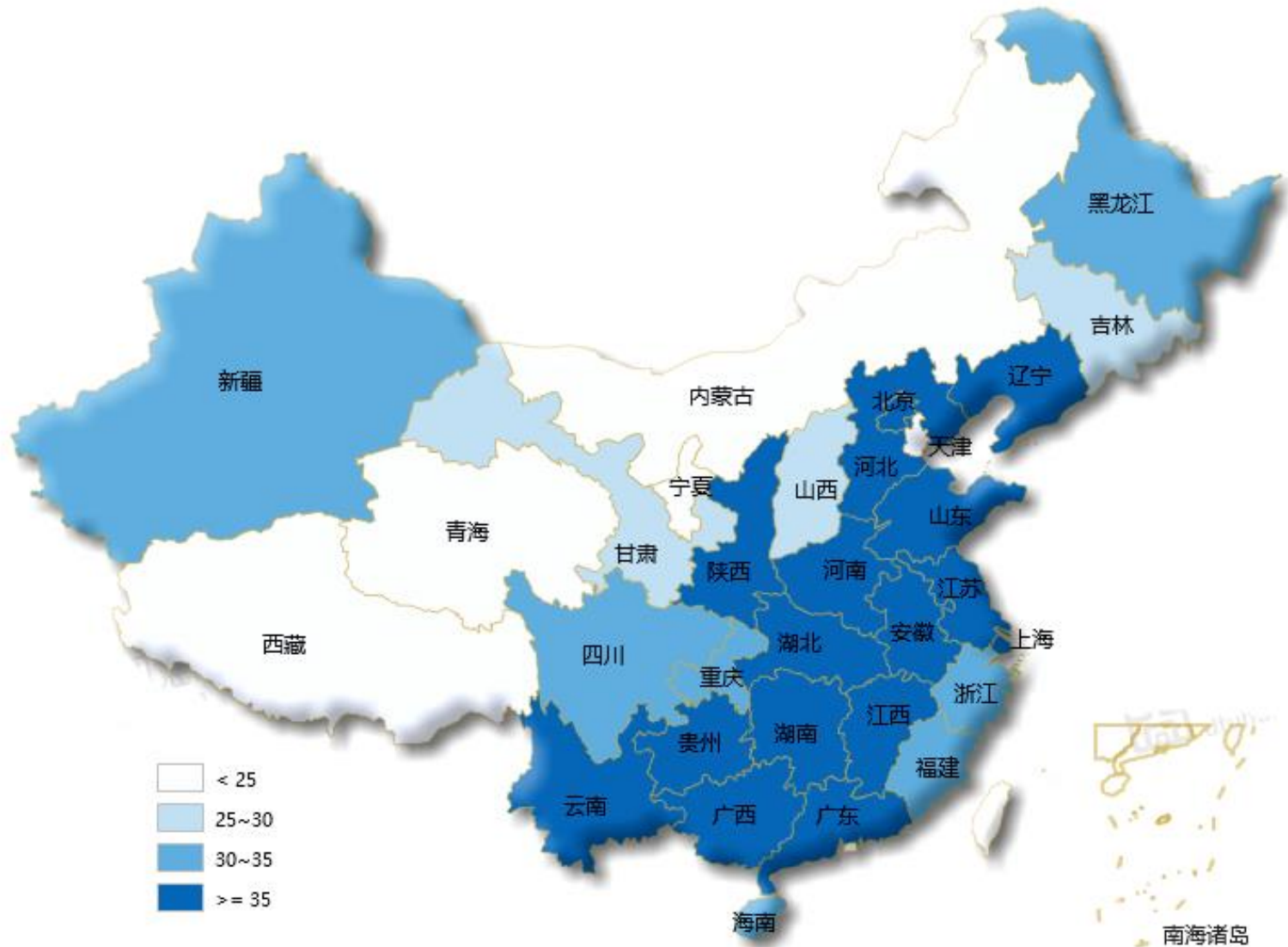


■ 入网医院	106	106	177	177	177	1349	1408	1427	1427
■ 上报数据医院	87	89	127	129	149	789	1081	1334	1339
■ 上报率 (%)	82	84	72	73	84	59	77	93	94

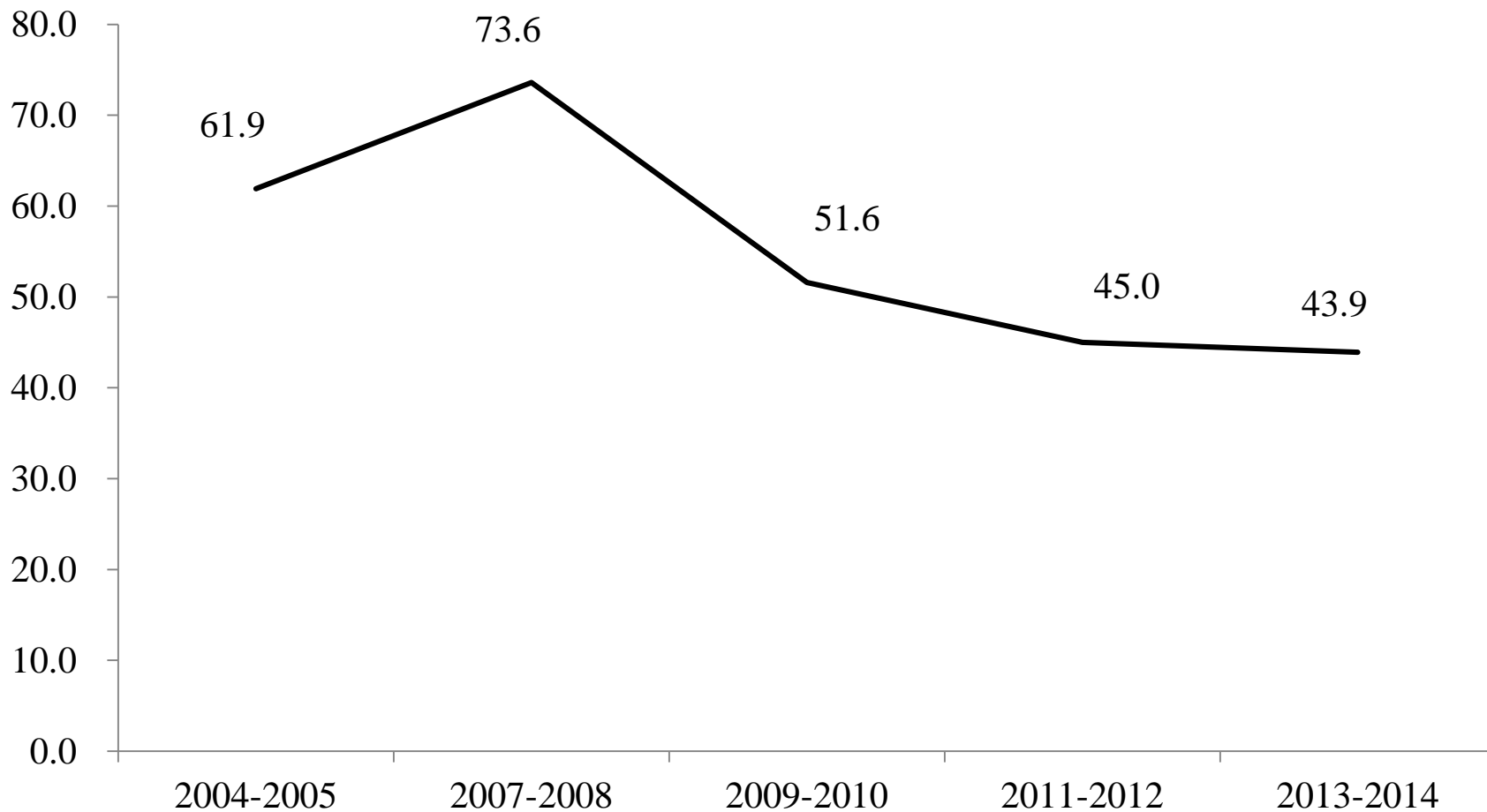
Proportion of MRSA Isolates in China



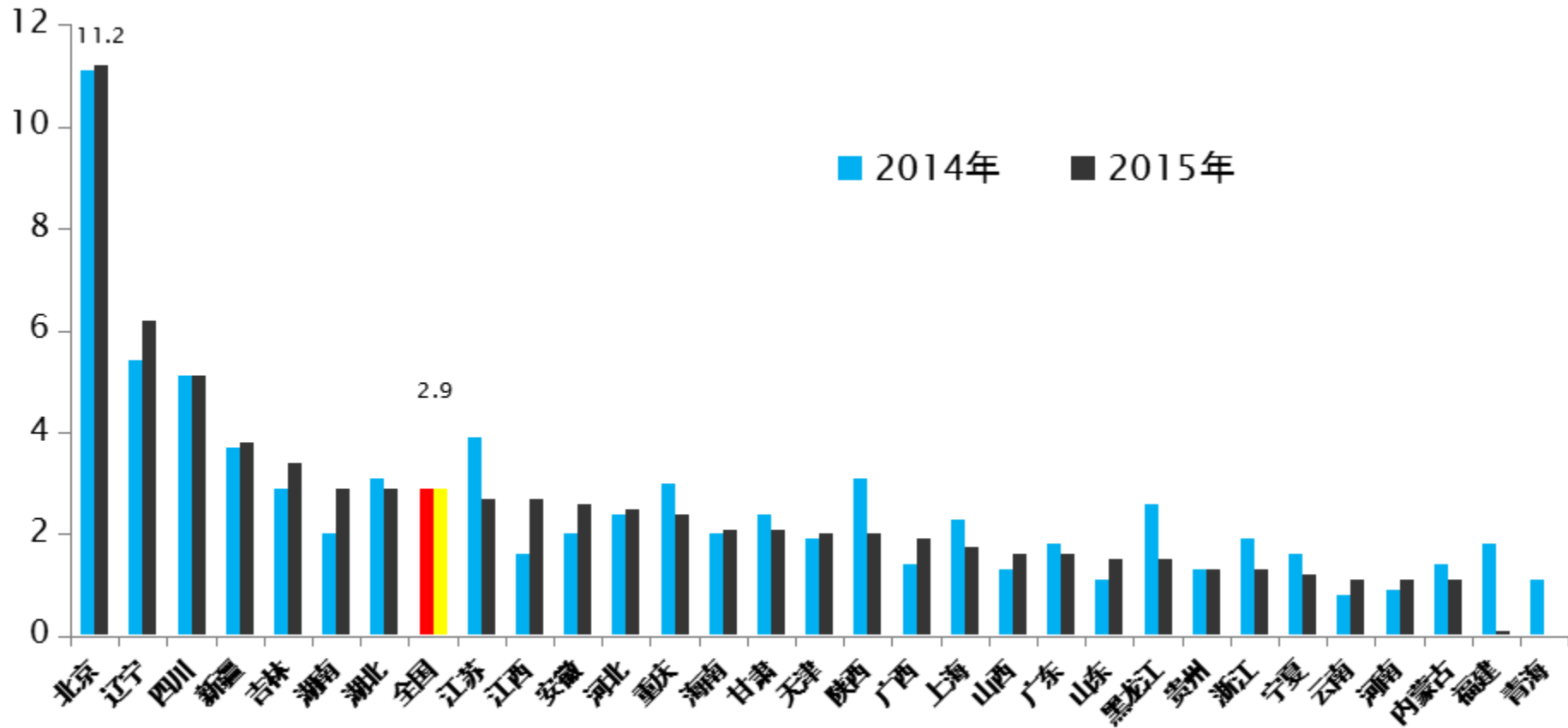
Proportion of MRSA Isolates in China



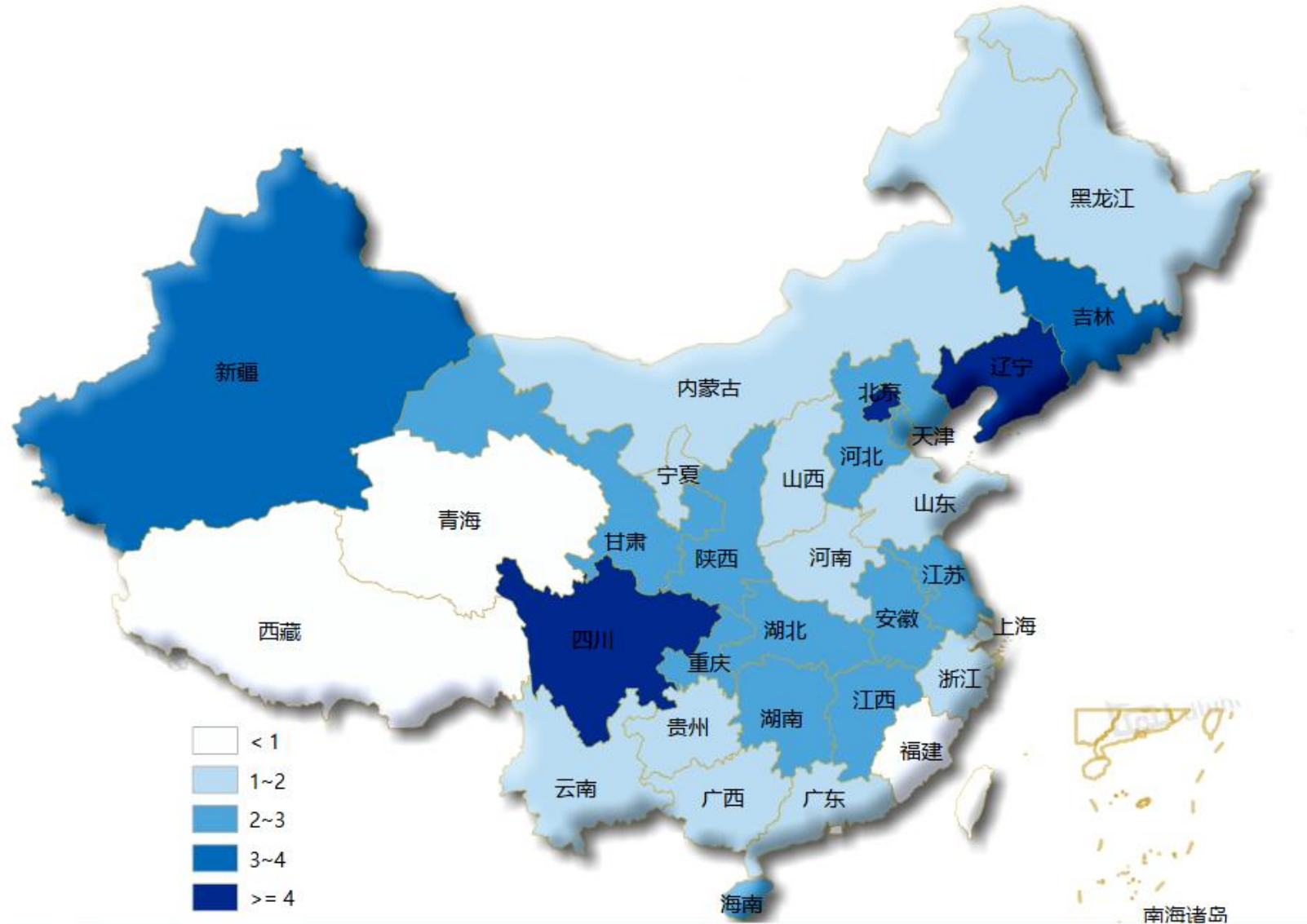
Proportion of MRSA Isolates, 2004-2014



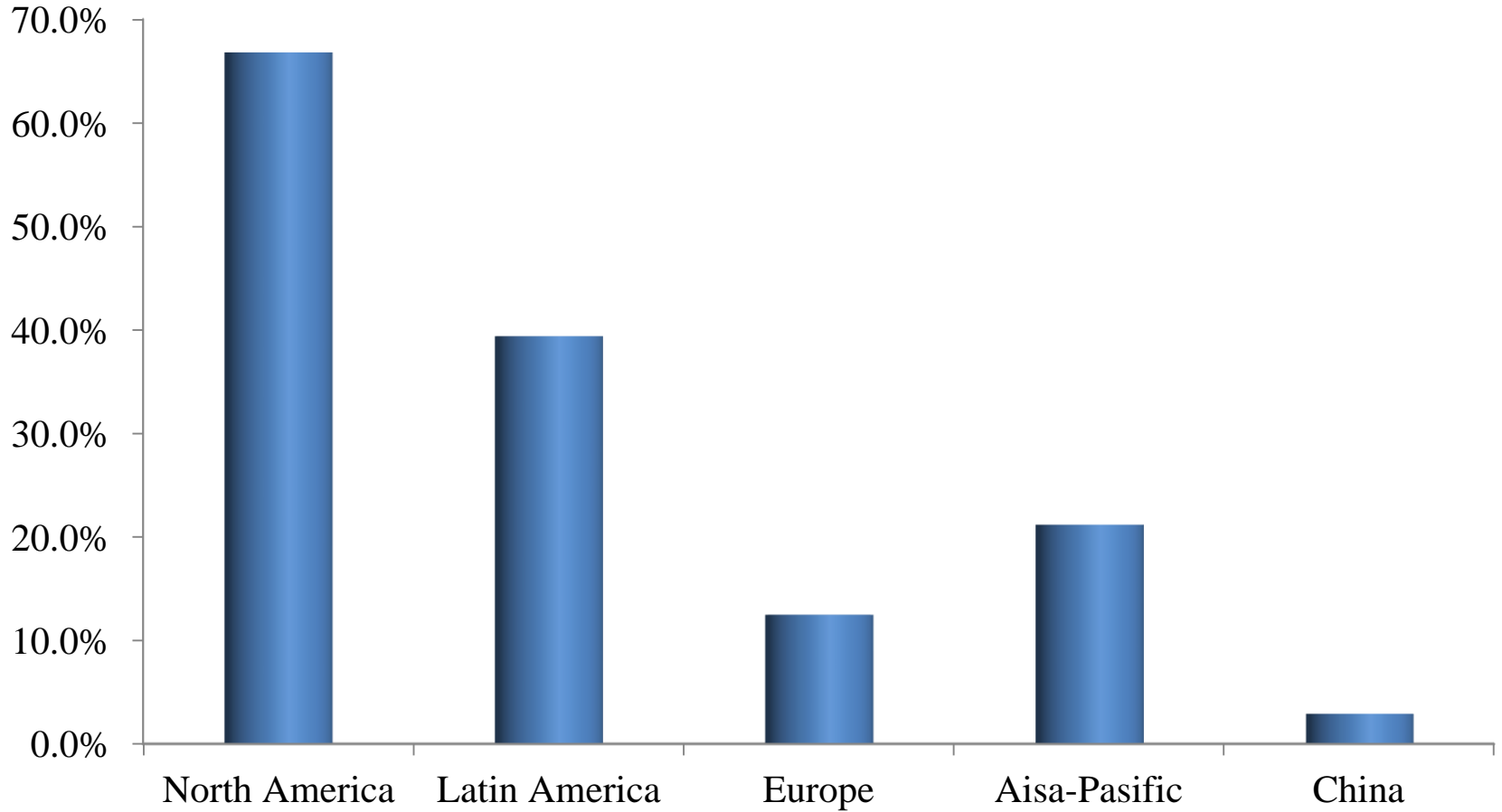
Proportion of VREM Isolates in China



Proportion of VREM Isolates in China



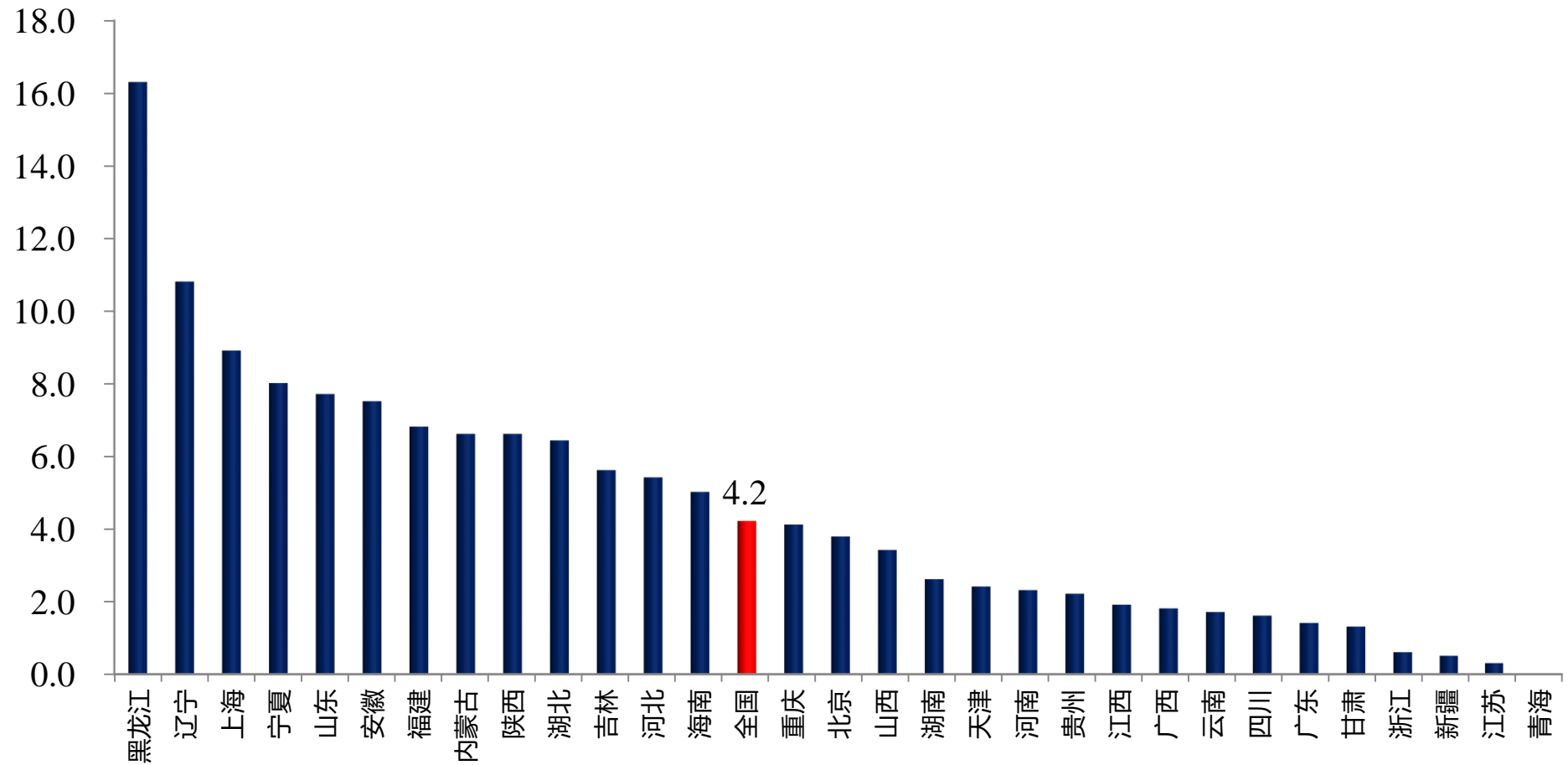
Proportion of VREM Isolates



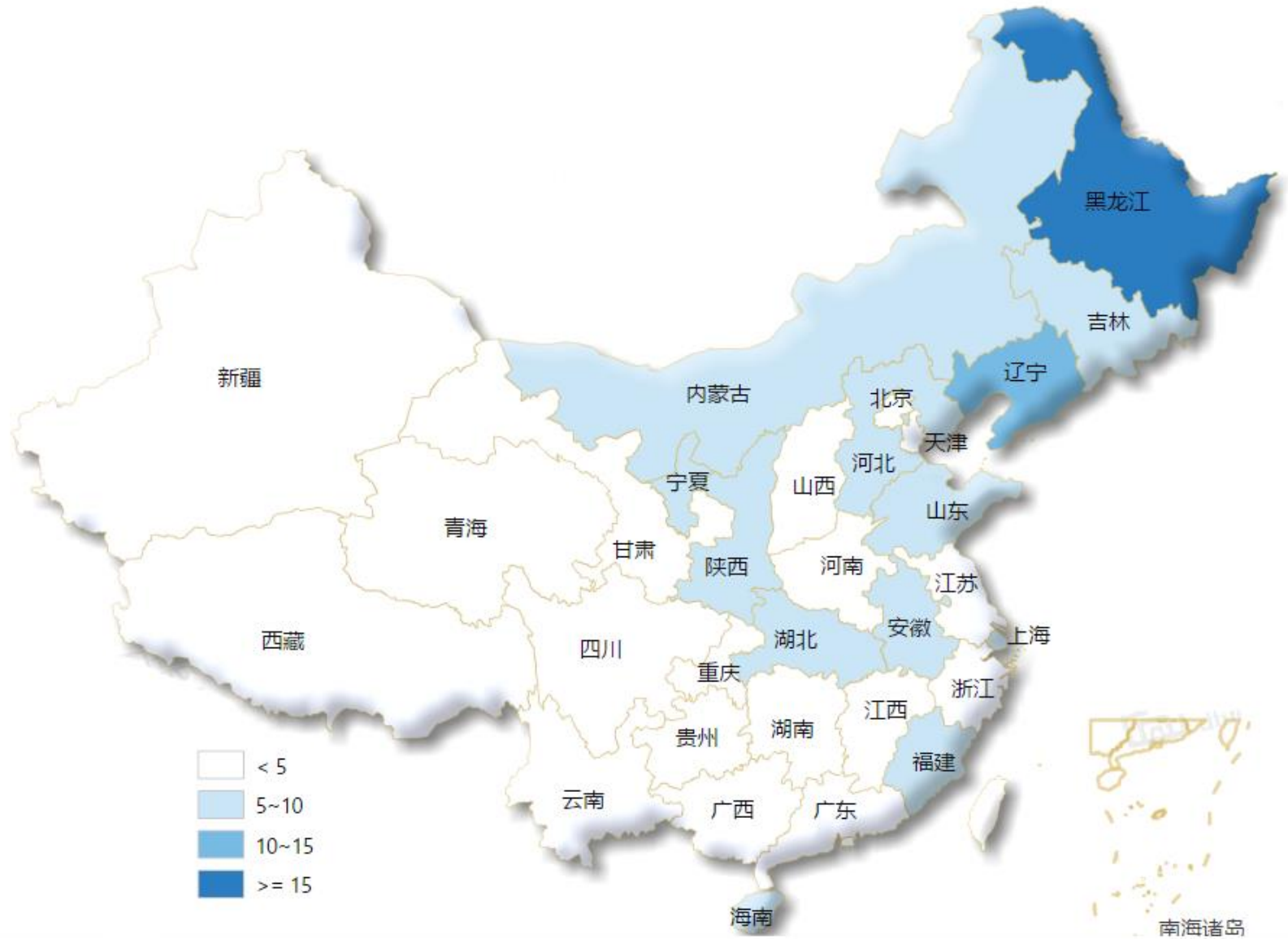
Trends in proportions of VRE isolates



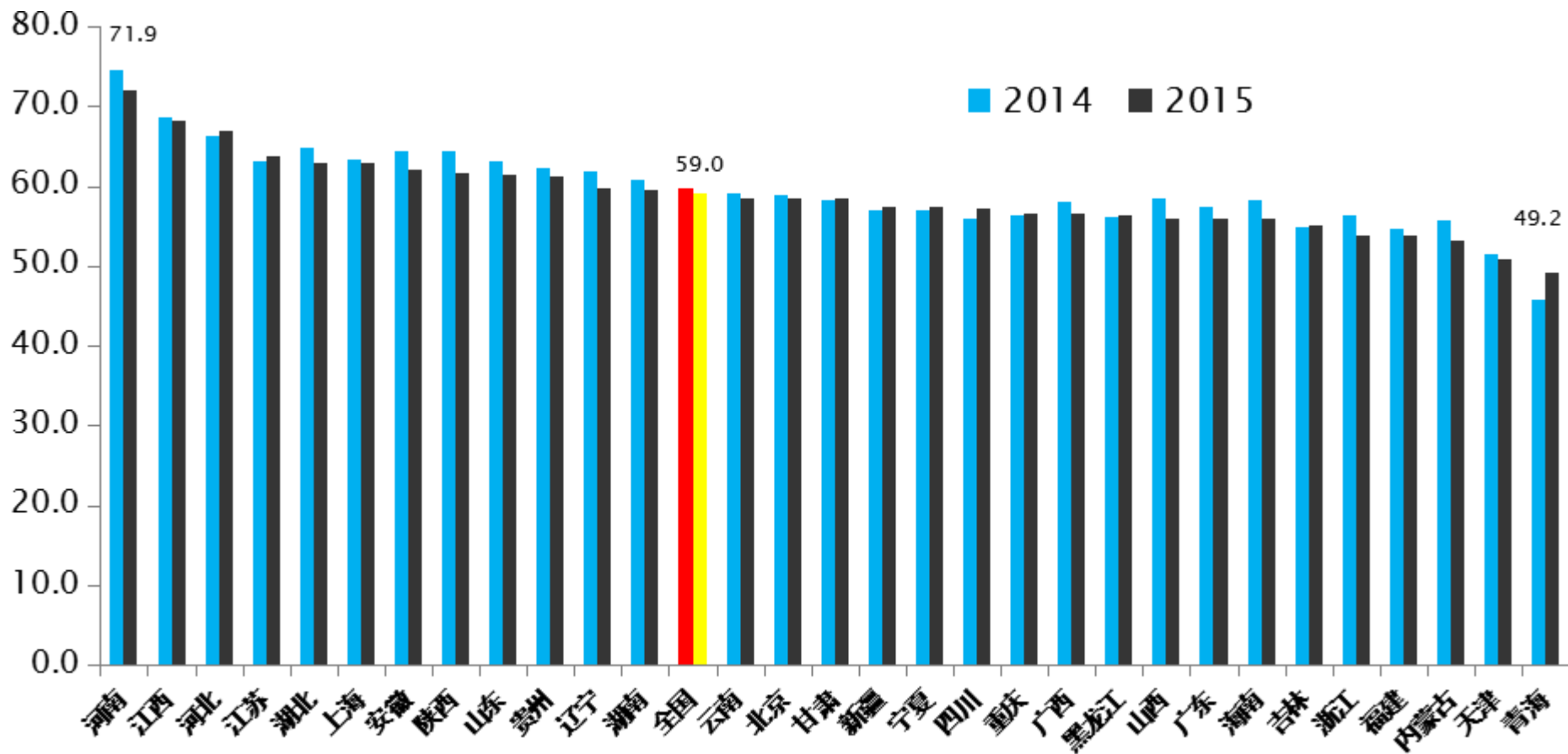
Proportion of PRSP Isolates in China



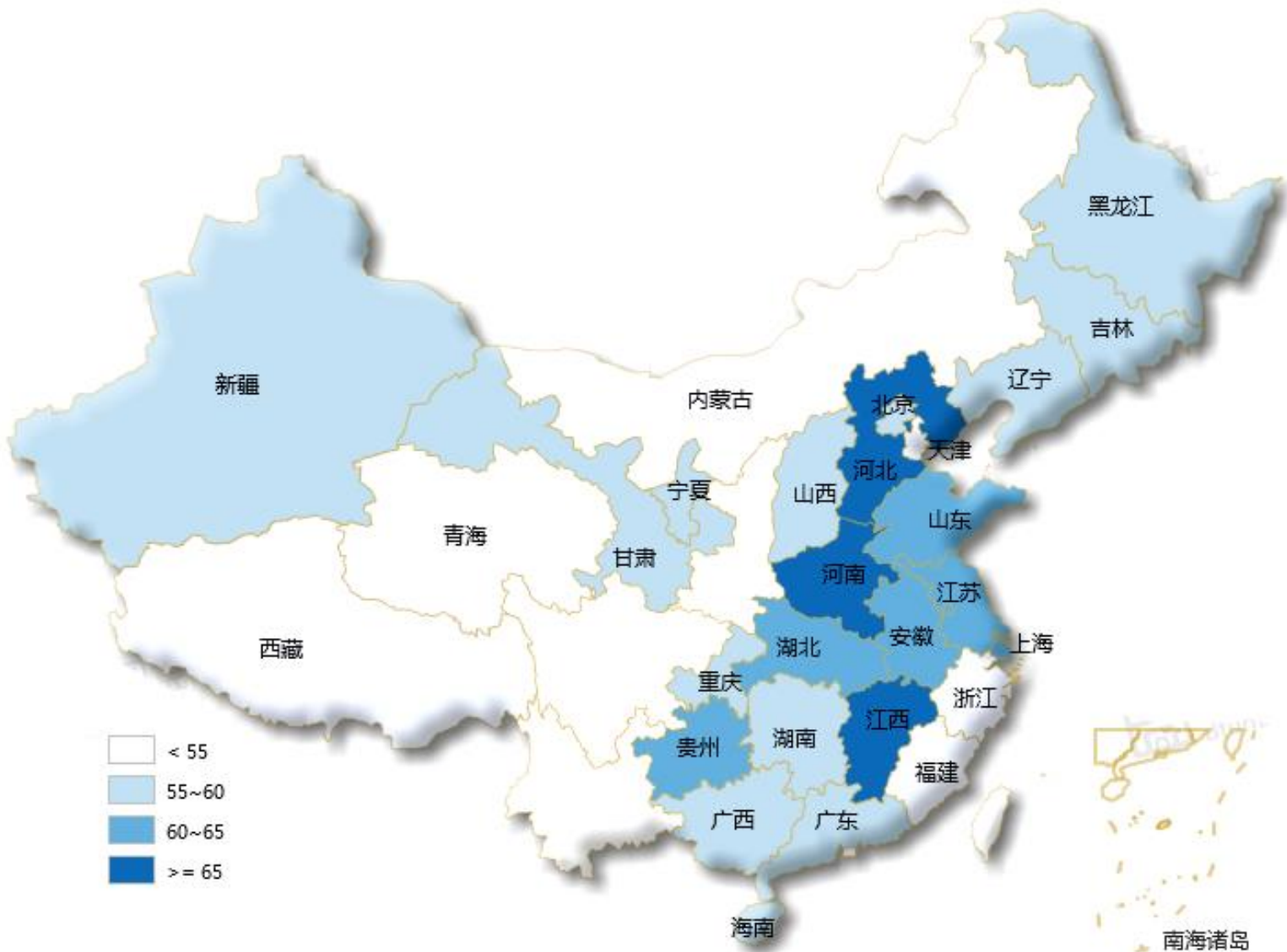
Proportion of PRSP Isolates in China



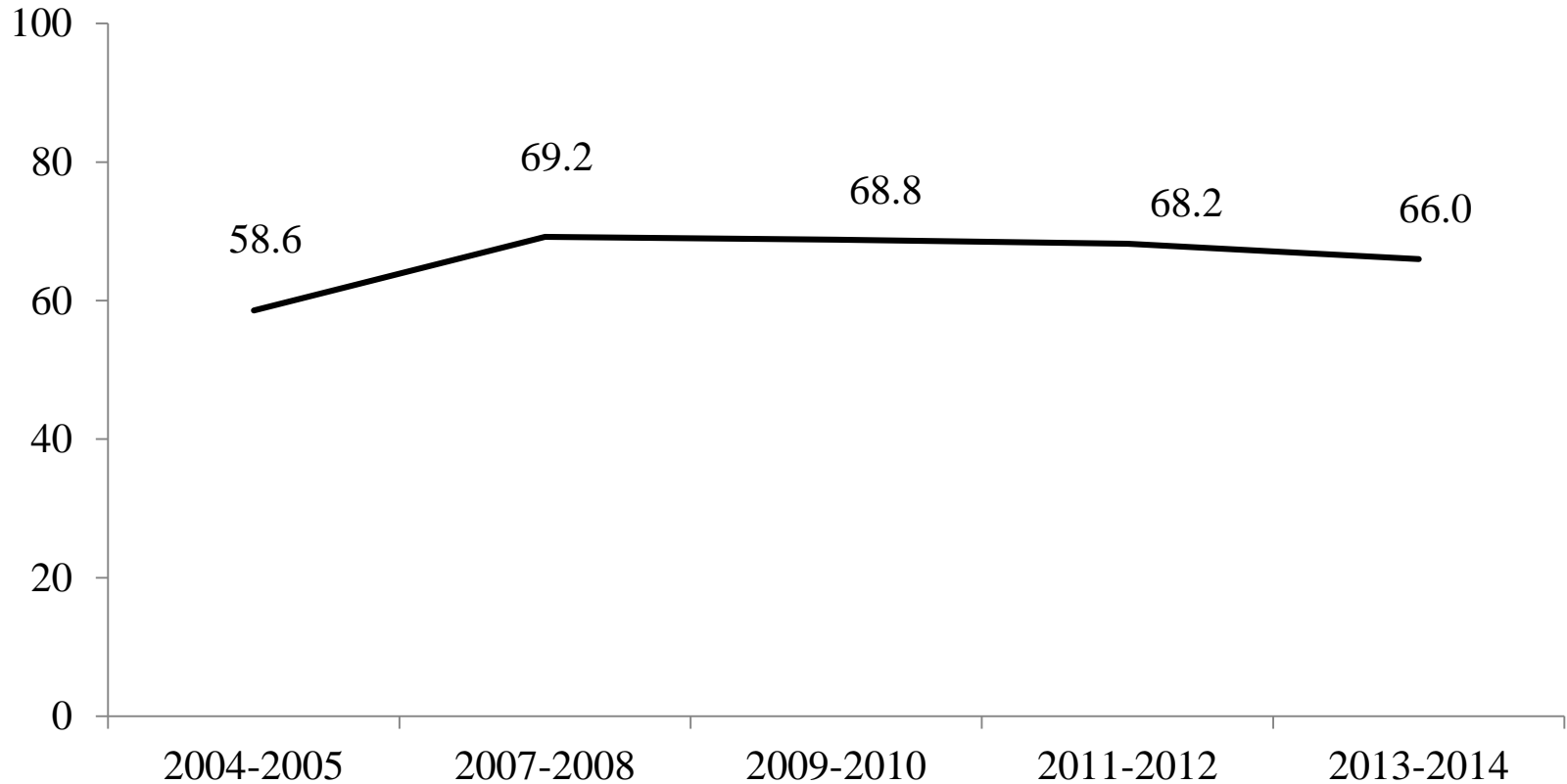
Proportion of 3rd Gen. Cephalosporins Resistant *E.coli* Isolates in China



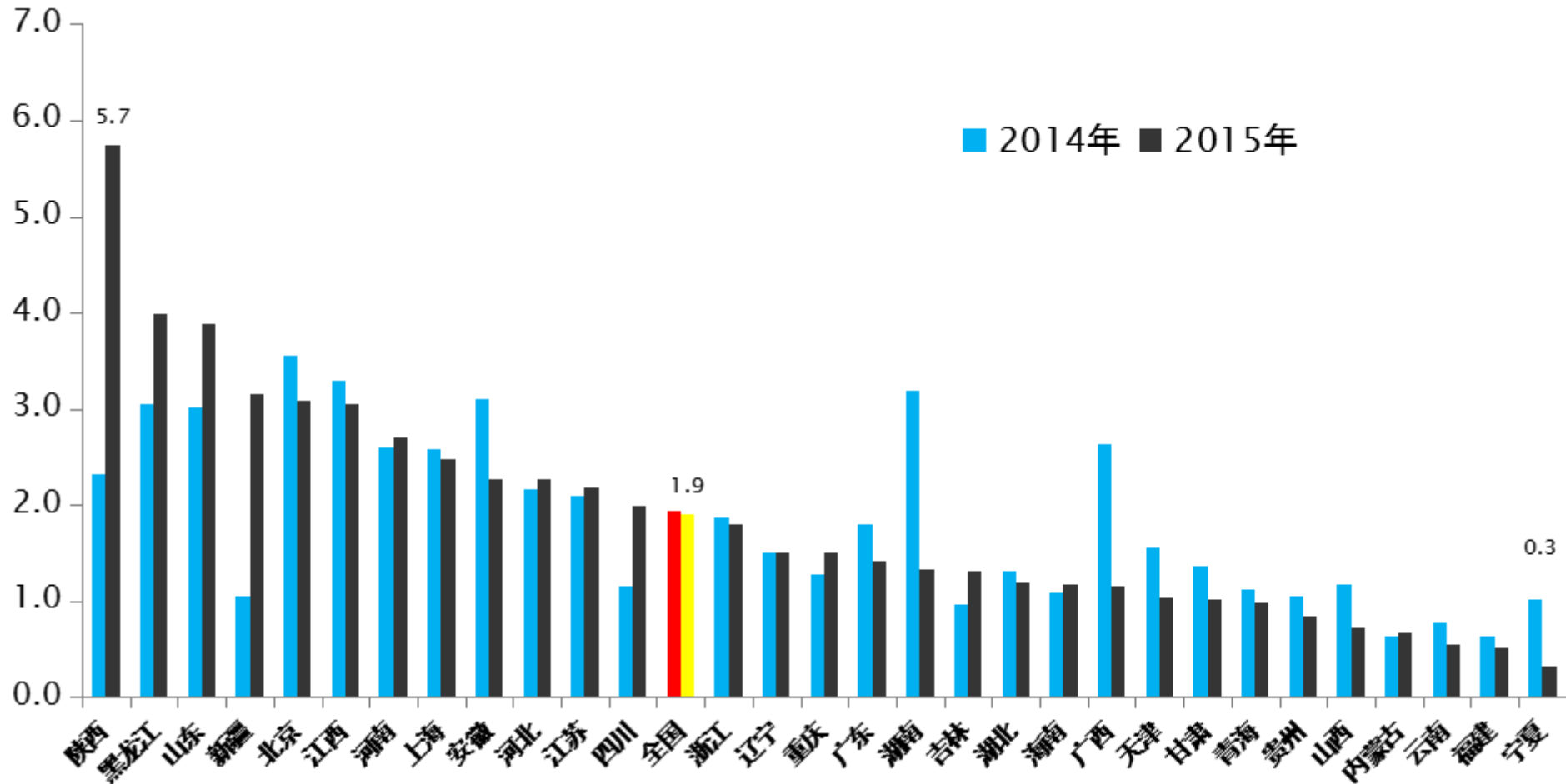
Proportion of 3rd Gen. Cephalosporins Resistant *E.coli* Isolates



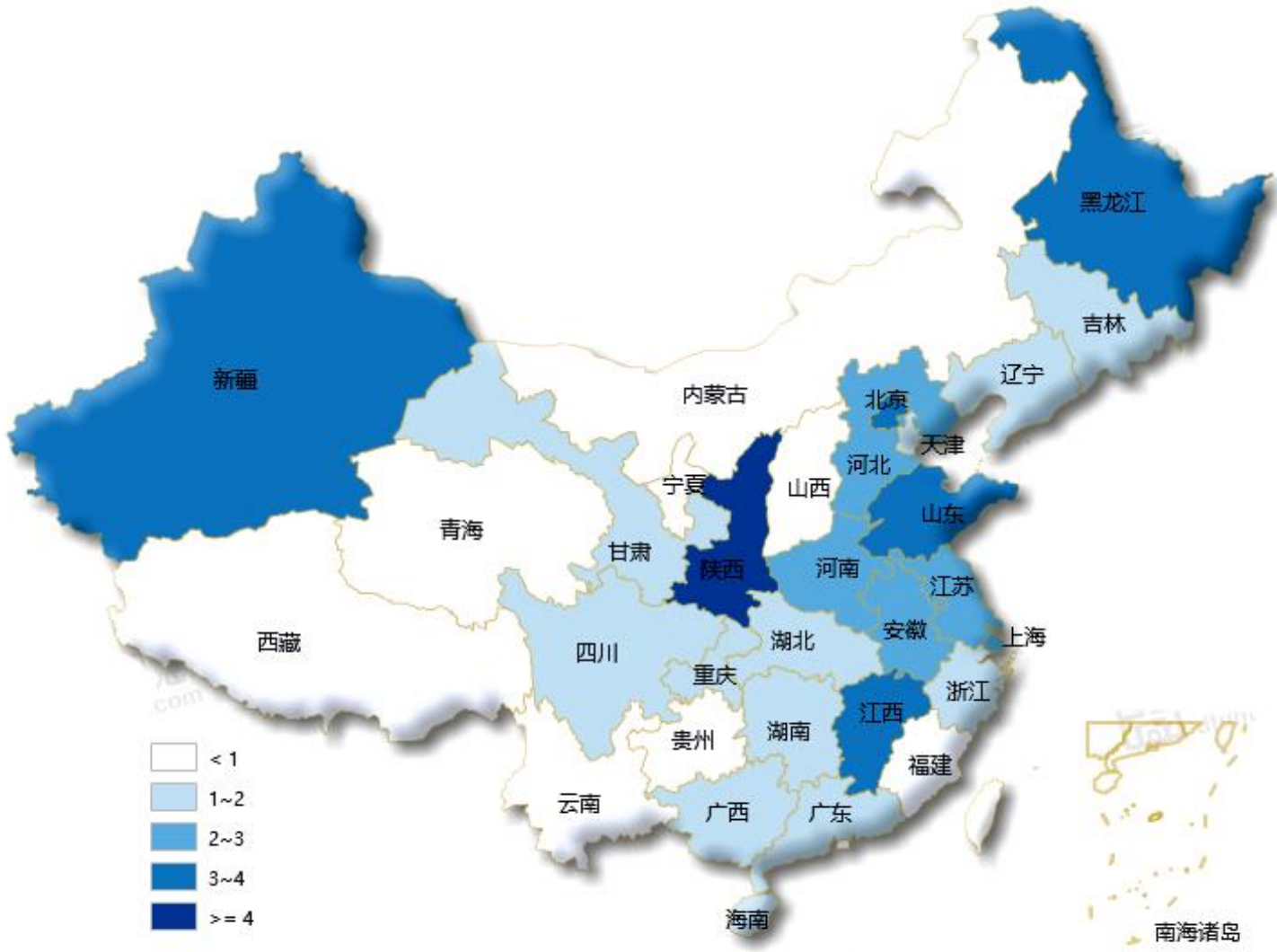
Trends in Proportions of ESBL+ *E.coli* Isolates



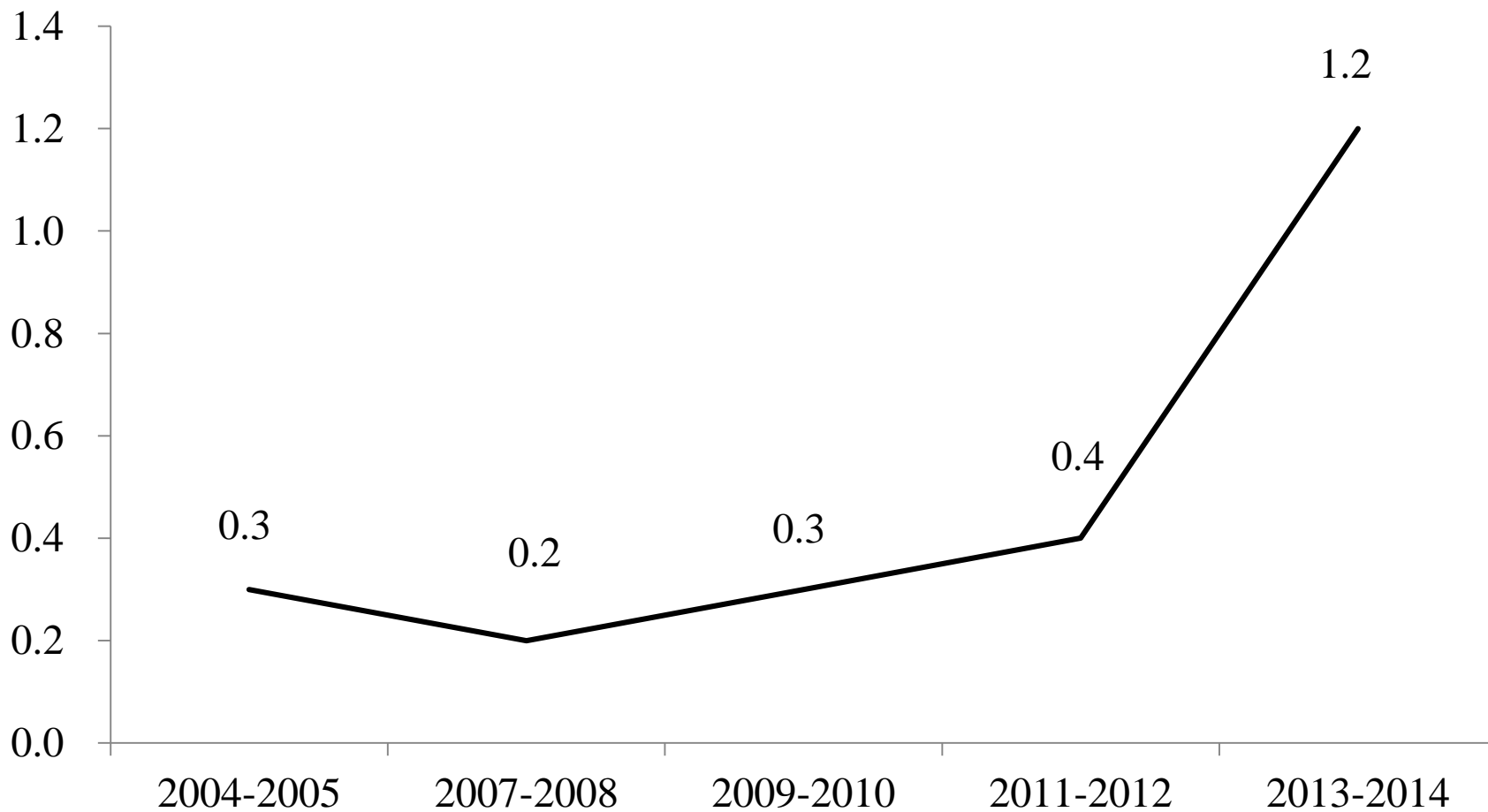
Proportion of Carbapenem-R *E.coli* Isolates in China



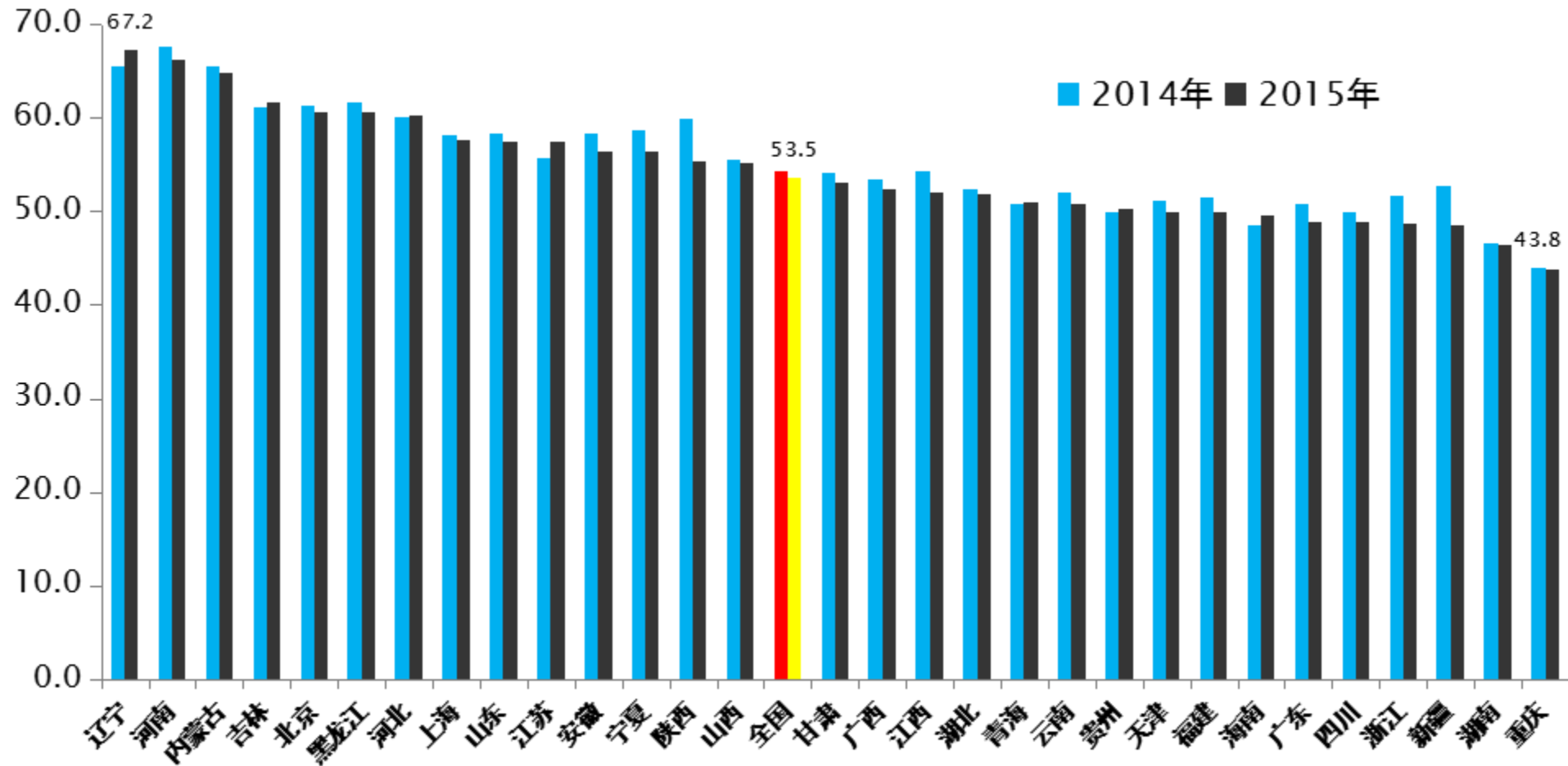
Proportion of Carbapenem-R *E.coli* Isolates in China



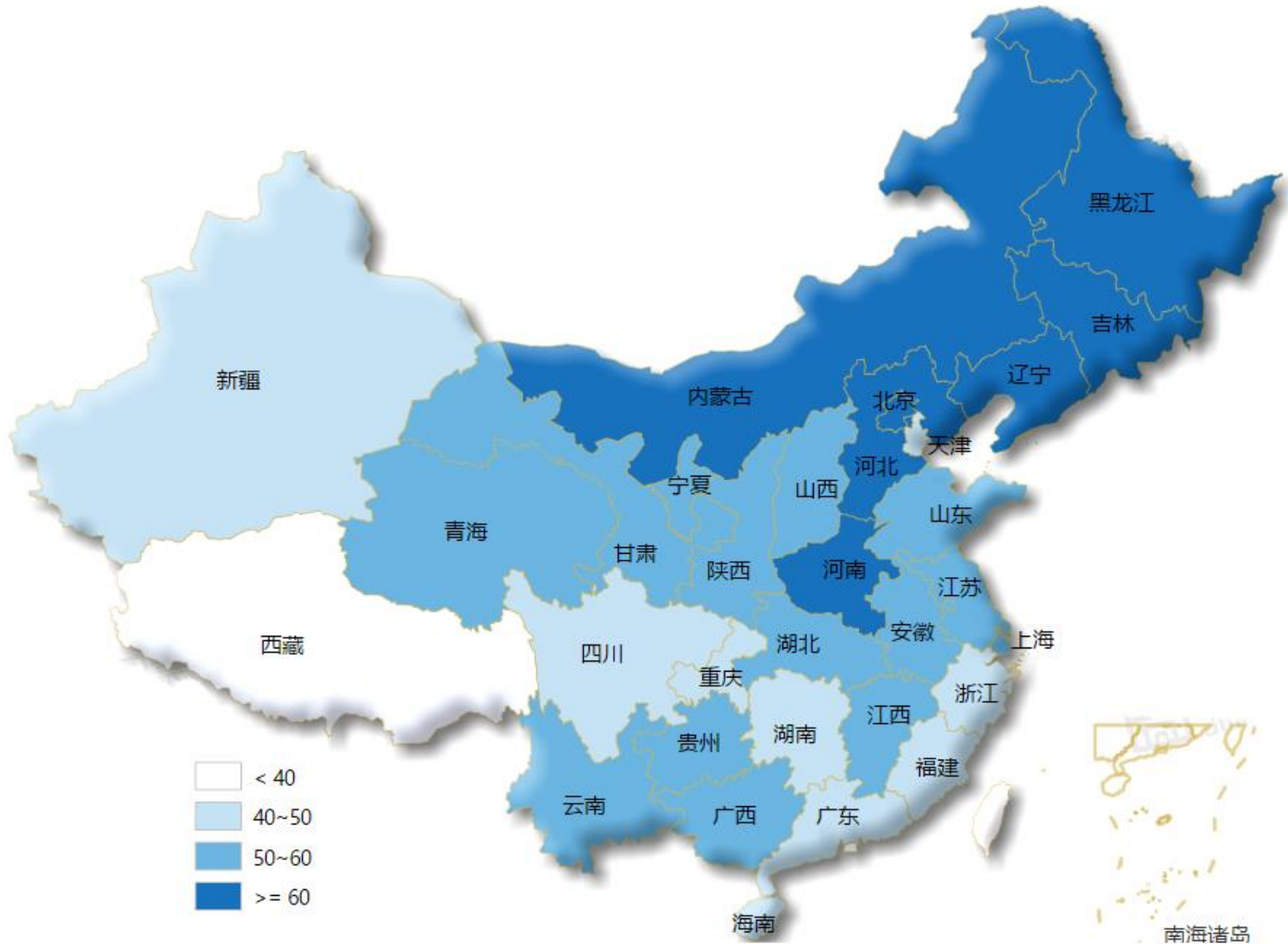
Trends in Proportions of Carbapenem-Resistant *E.coli* Isolates



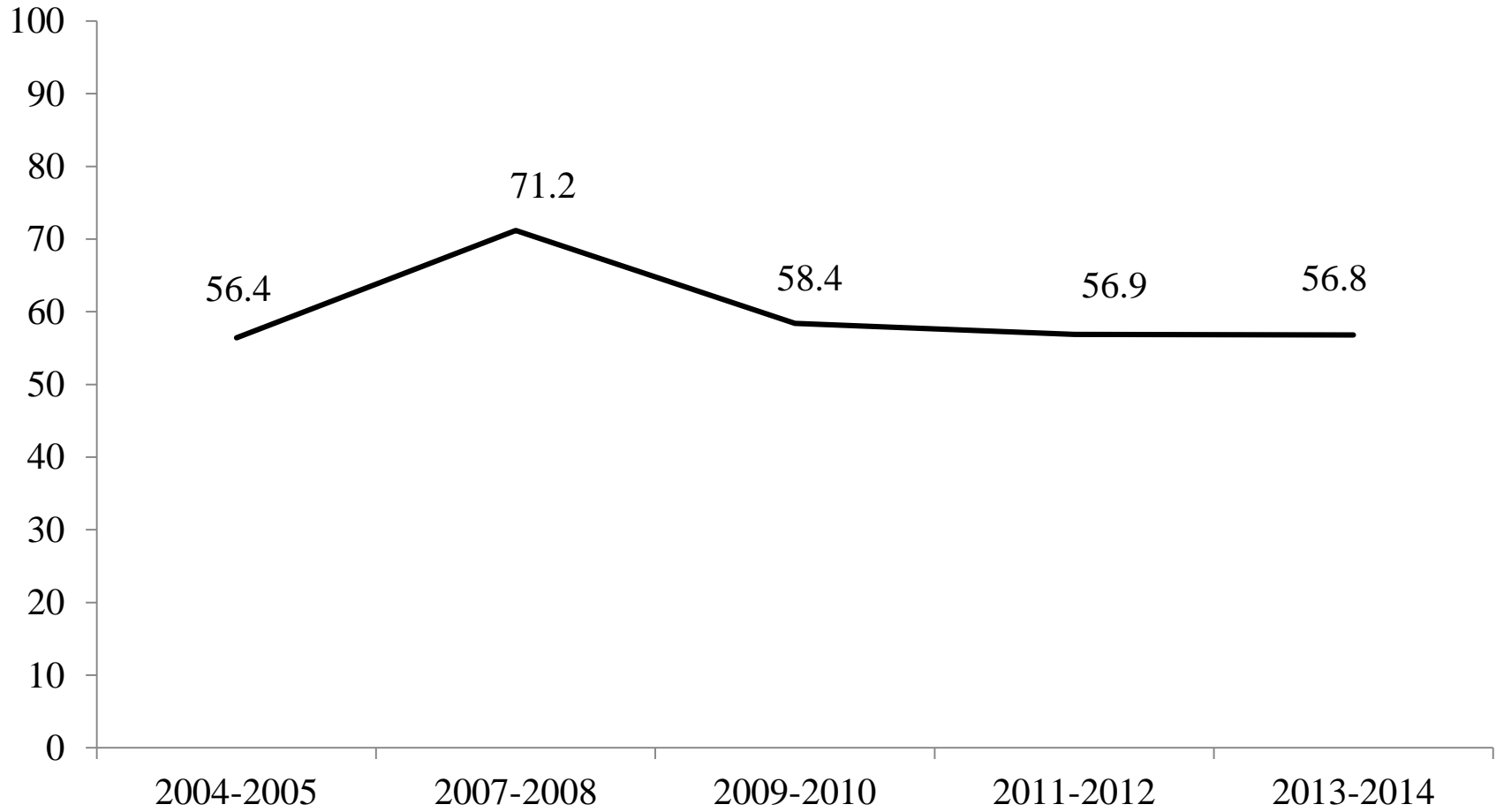
Proportion of Quinolone-R *E.coli* Isolates in China



Proportion of Quinolone-R *E.coli* Isolates in China



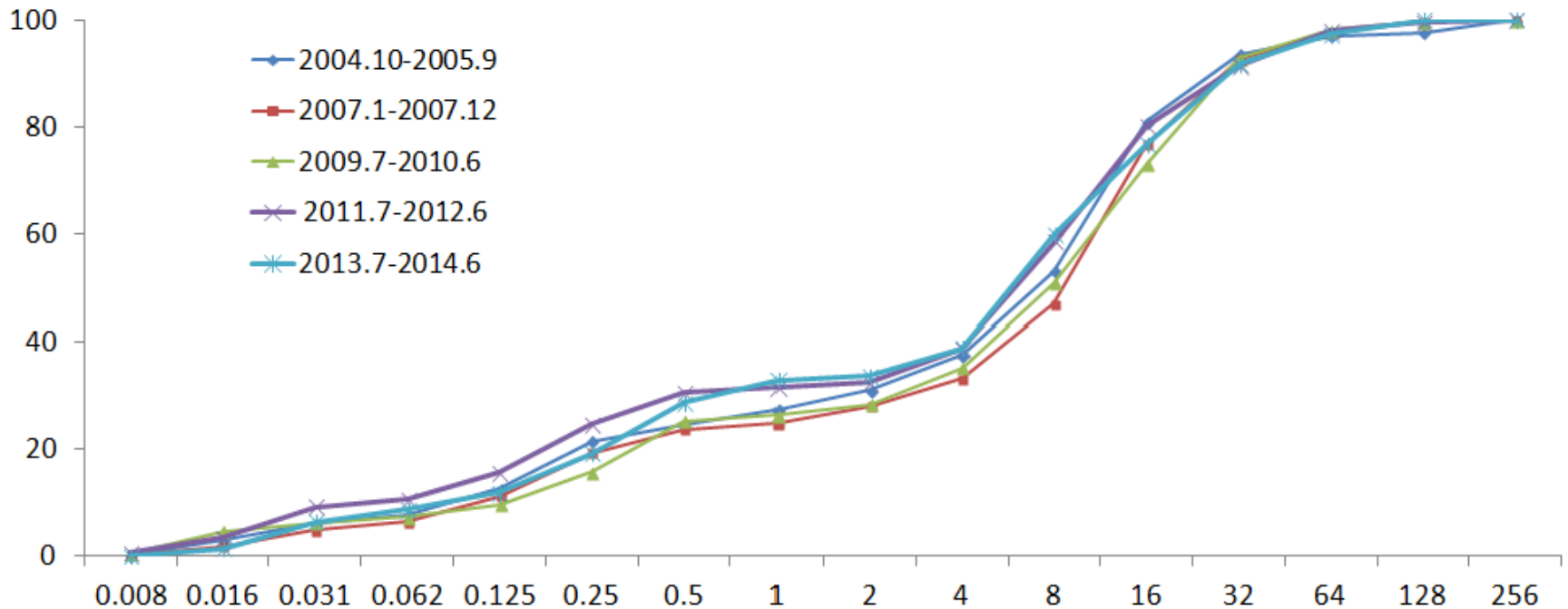
Trends in Proportions of Quinolone-Resistant *E.coli* Isolates



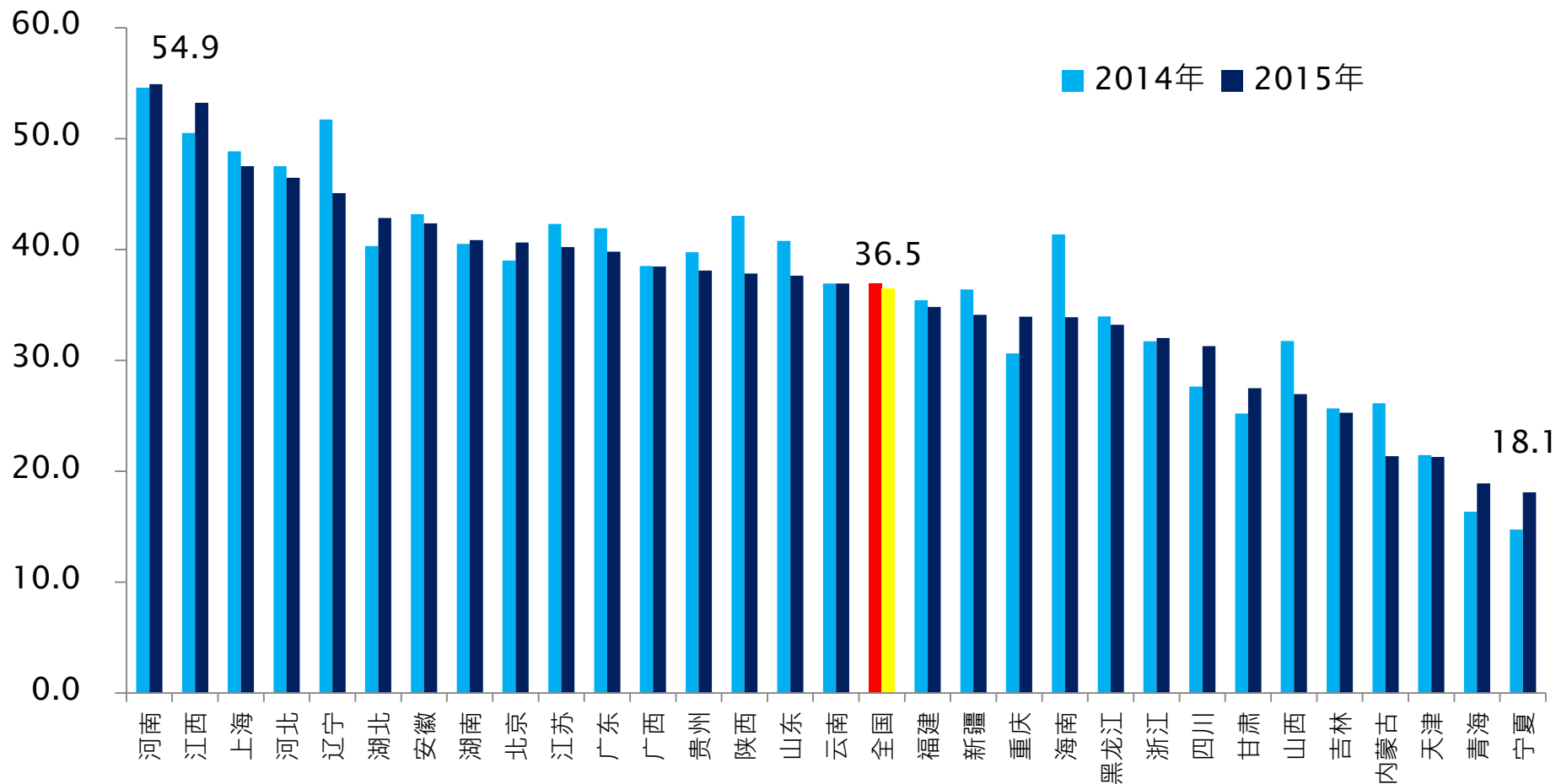
Susceptibility of *E. coli* to levofloxacin, 2004–2014

year	No.	ESBL (%)	MIC ₅₀ (mg/L)	MIC ₉₀ (mg/L)	S (%)
2004.10-2005.9	168	41.7	8	32	31.0
2007.1-2007.12	271	58.7	16	32	28.0
2009.7-2010.6	262	66.0	8	32	28.2
2011.7-2012.6	207	60.9	8	32	32.4
2013.7-2014.6	219	69.4	8	32	33.8

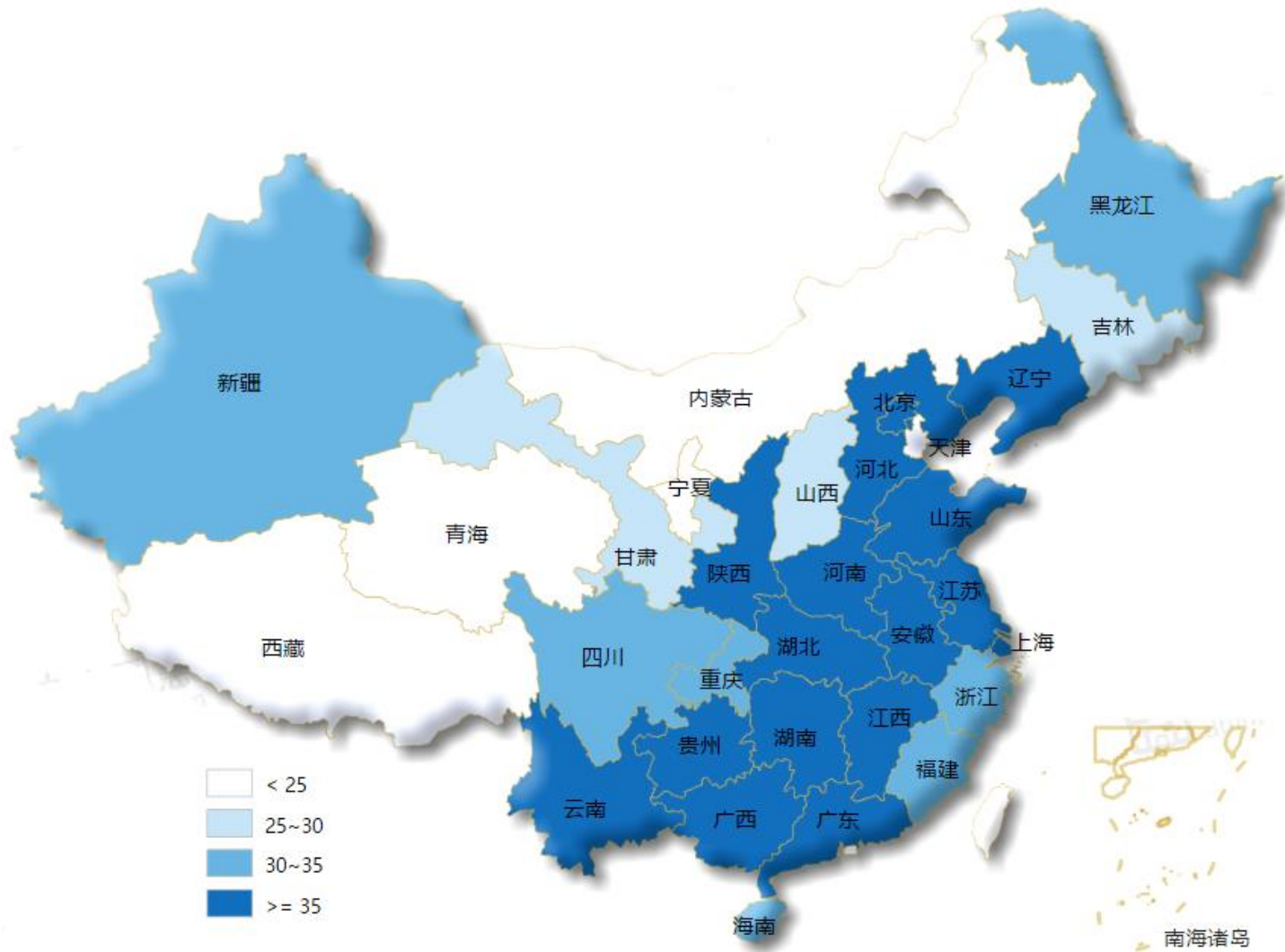
Cumulative MIC distribution plots of MIC frequency



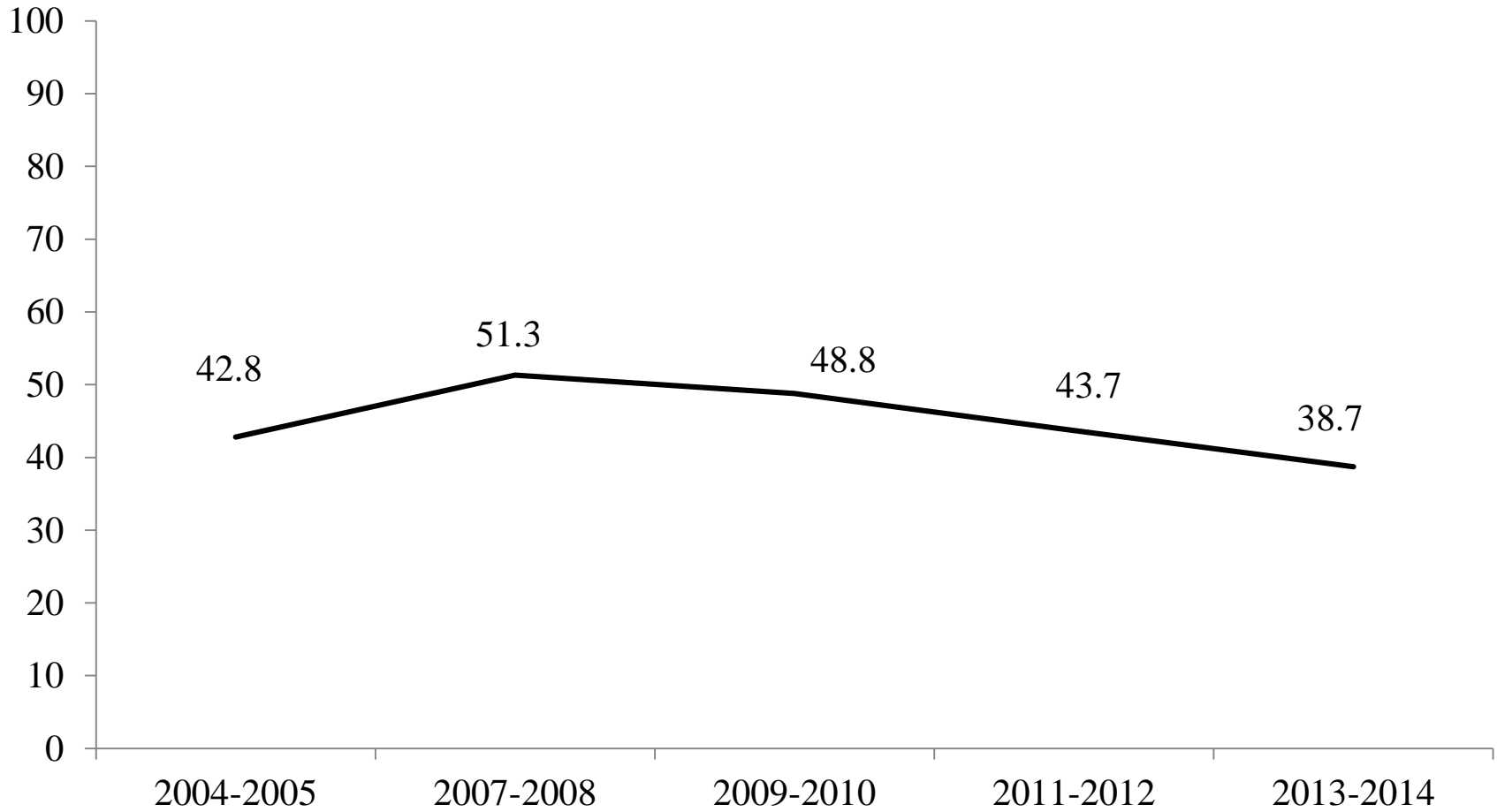
Proportion of 3rd Gen. Cephalosporins Resistant *K.pneumonia* Isolates in China



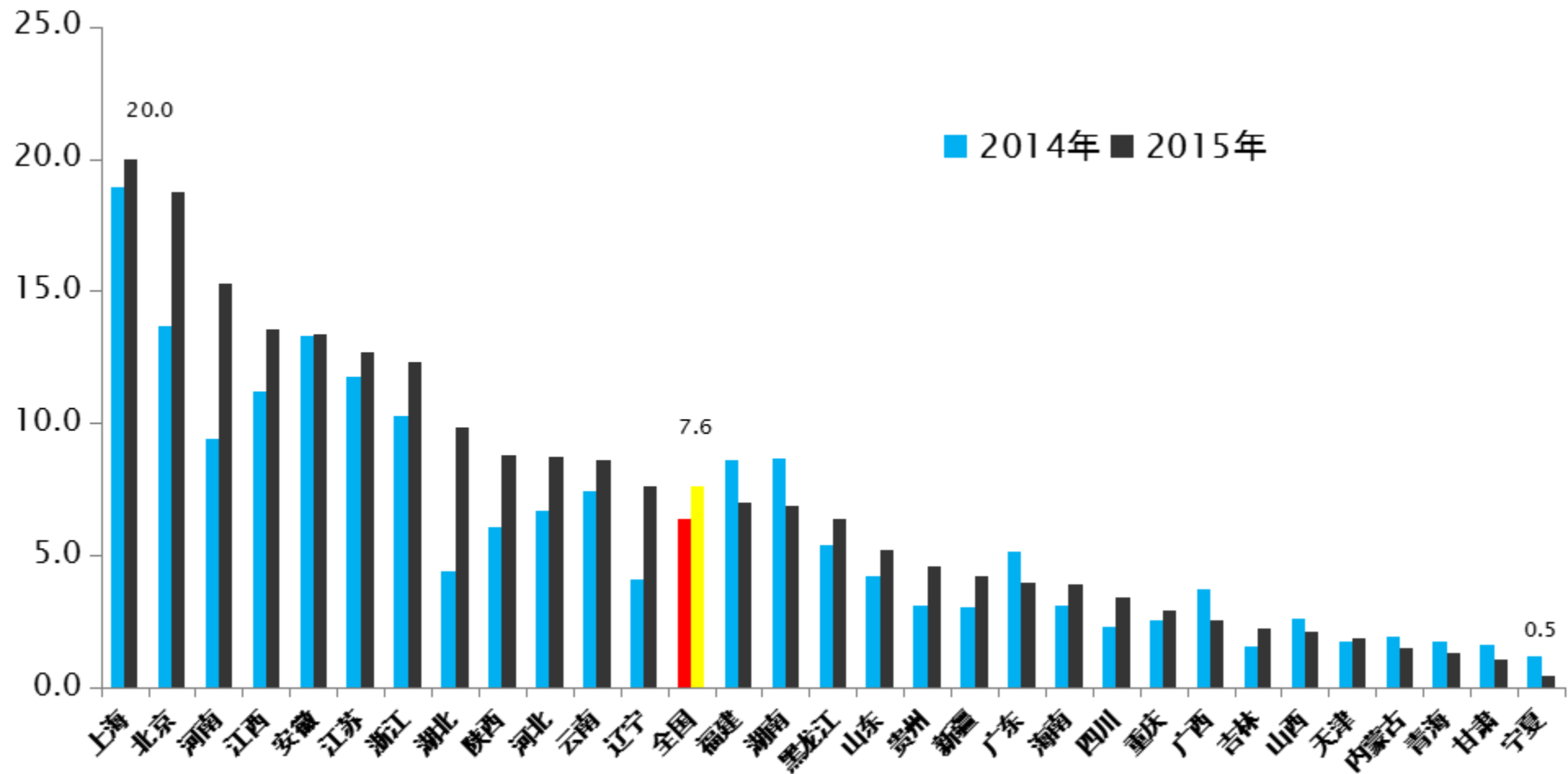
Proportion of 3rd Gen. Cephalosporins Resistant *K.pneumonia* Isolates in China



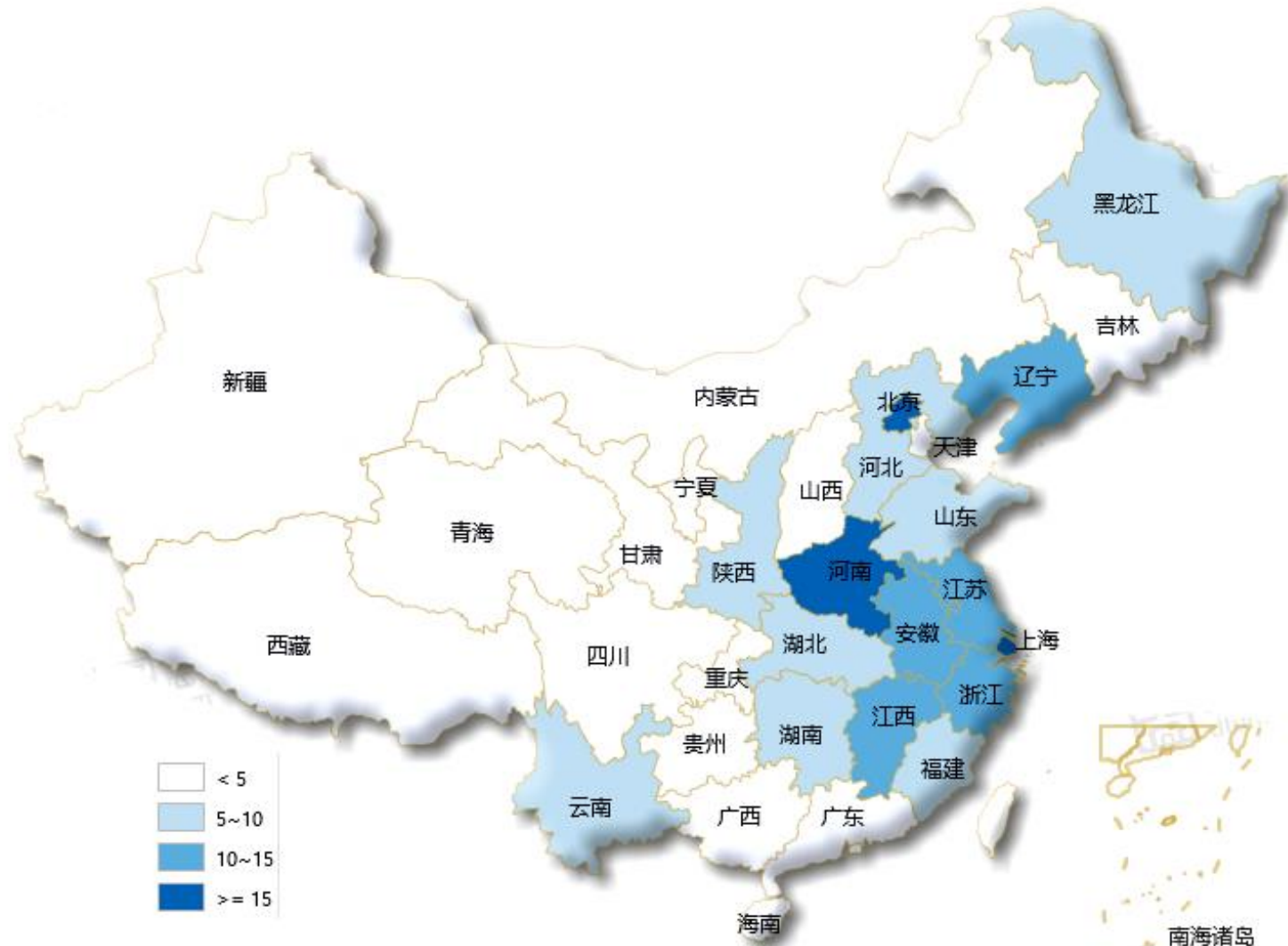
Trends in Proportions of ESBL+ *K. pneumoniae* Isolates



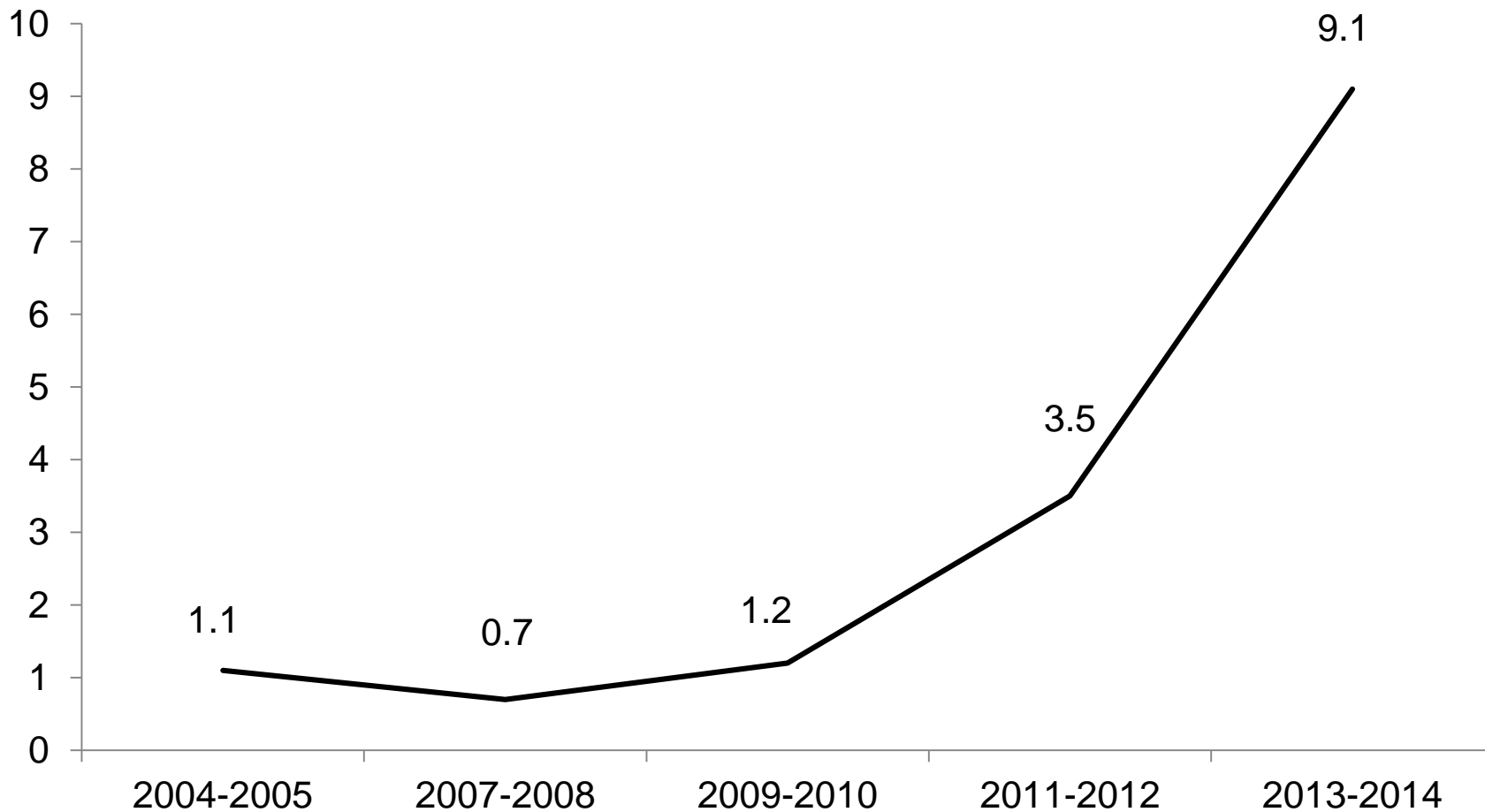
Proportion of Carbapenem-R *K.pneumonia* Isolates in China



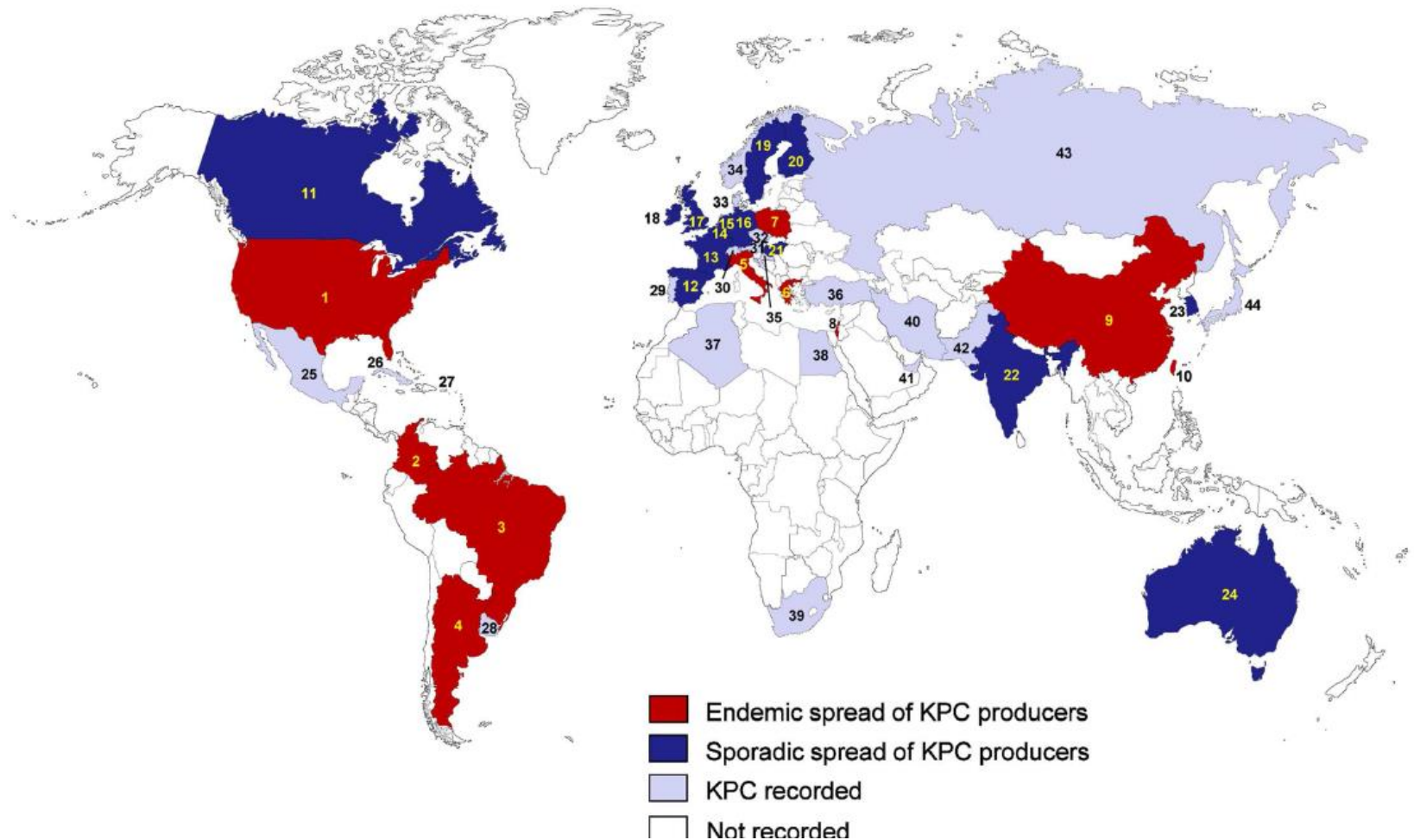
Proportion of Carbapenem-R *K.pneumoniae* Isolates in China



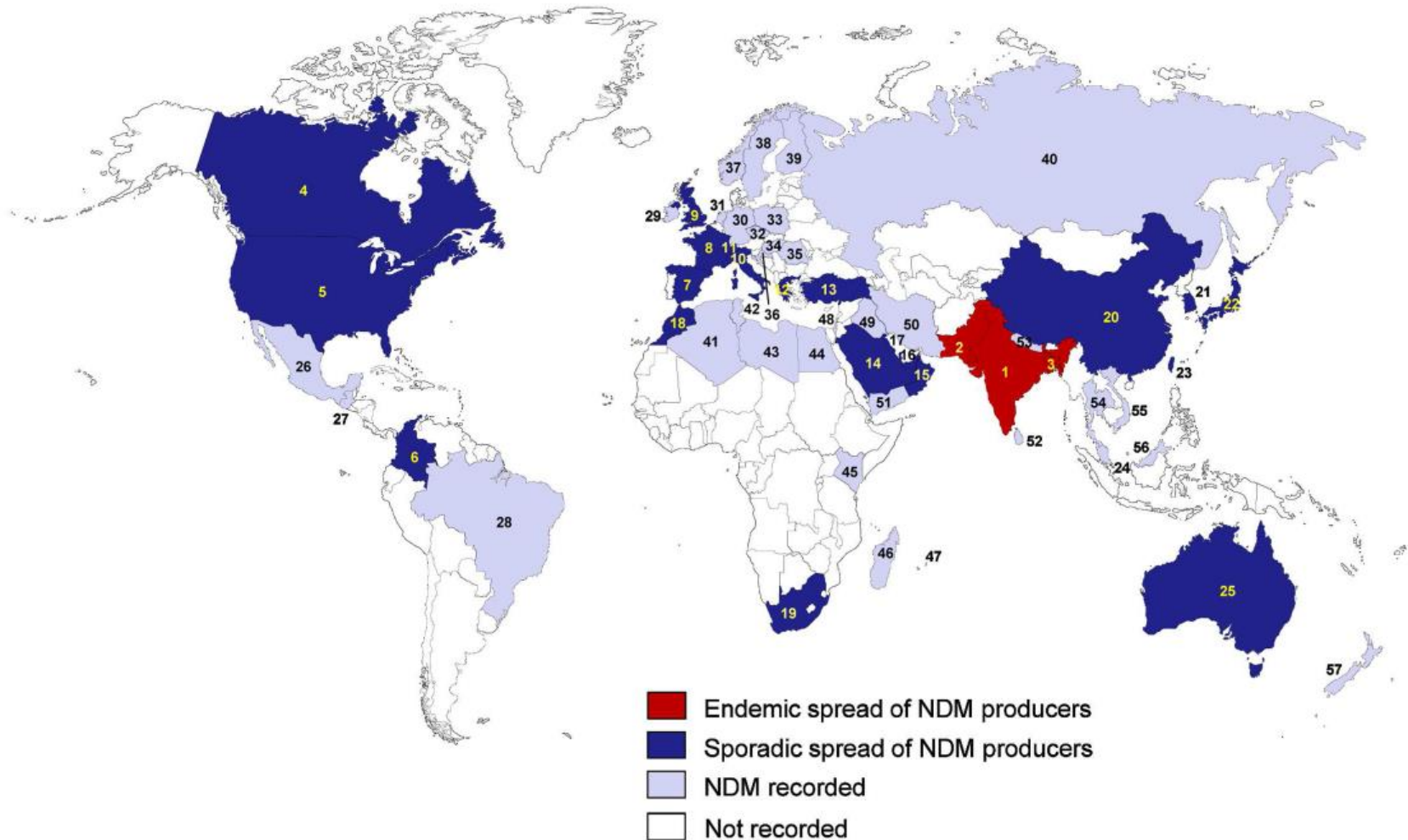
Trends in Proportions of Carbapenem-Resistant *K.pneumonia* Isolates



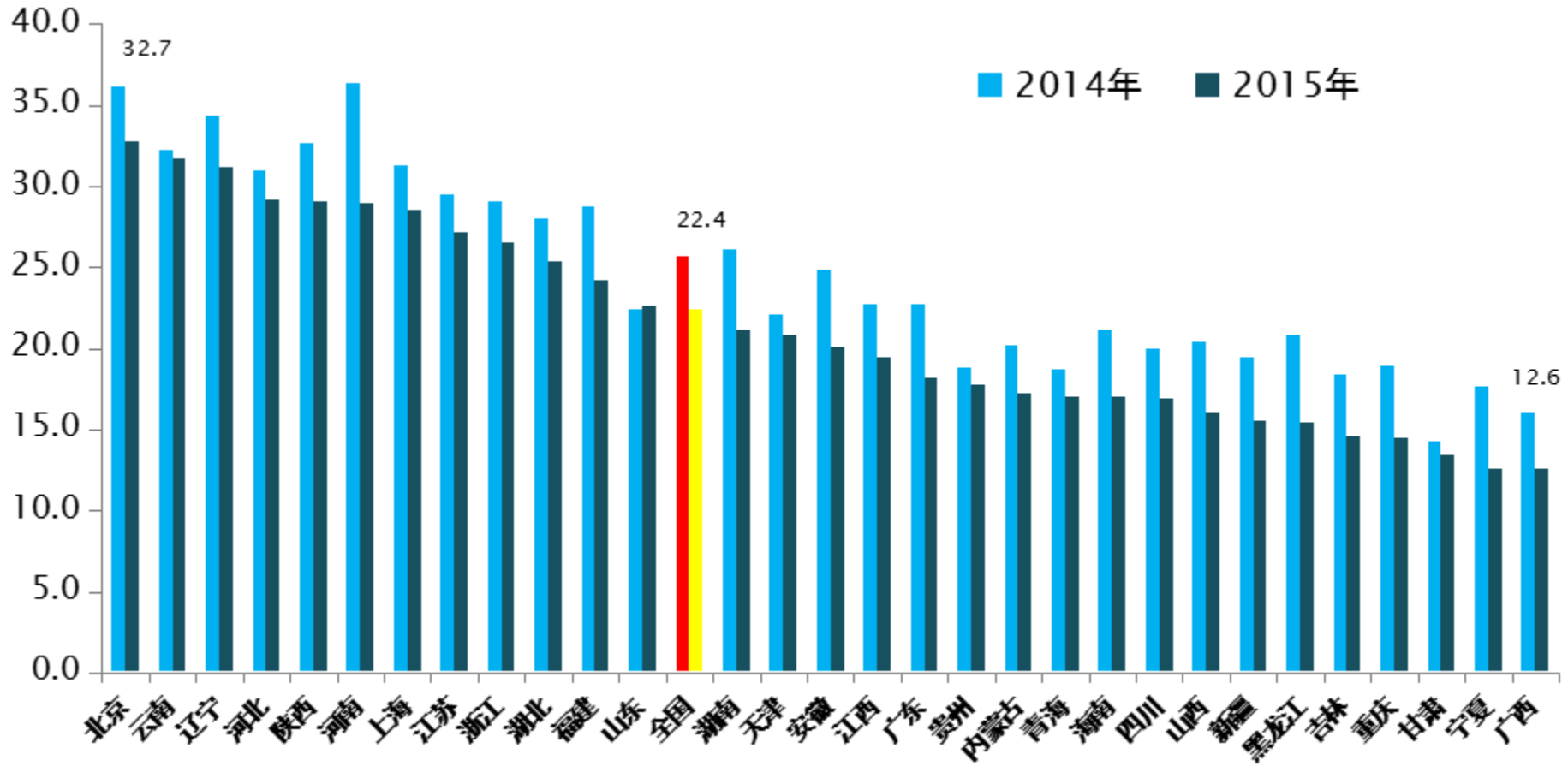
Epidemiological features of KPC-producing *K. pneumoniae*



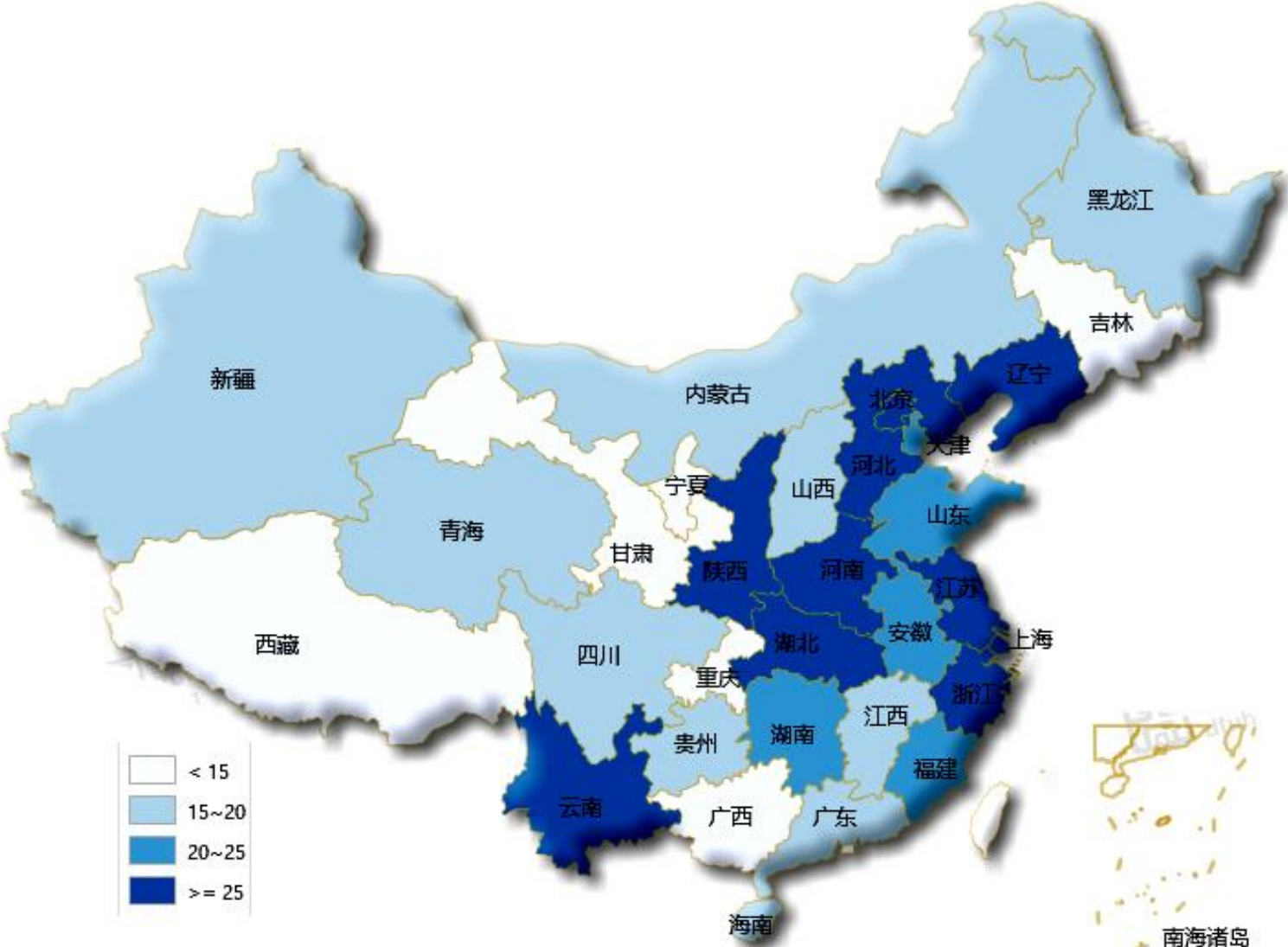
Epidemiological features of NDM-producing *K. pneumoniae*



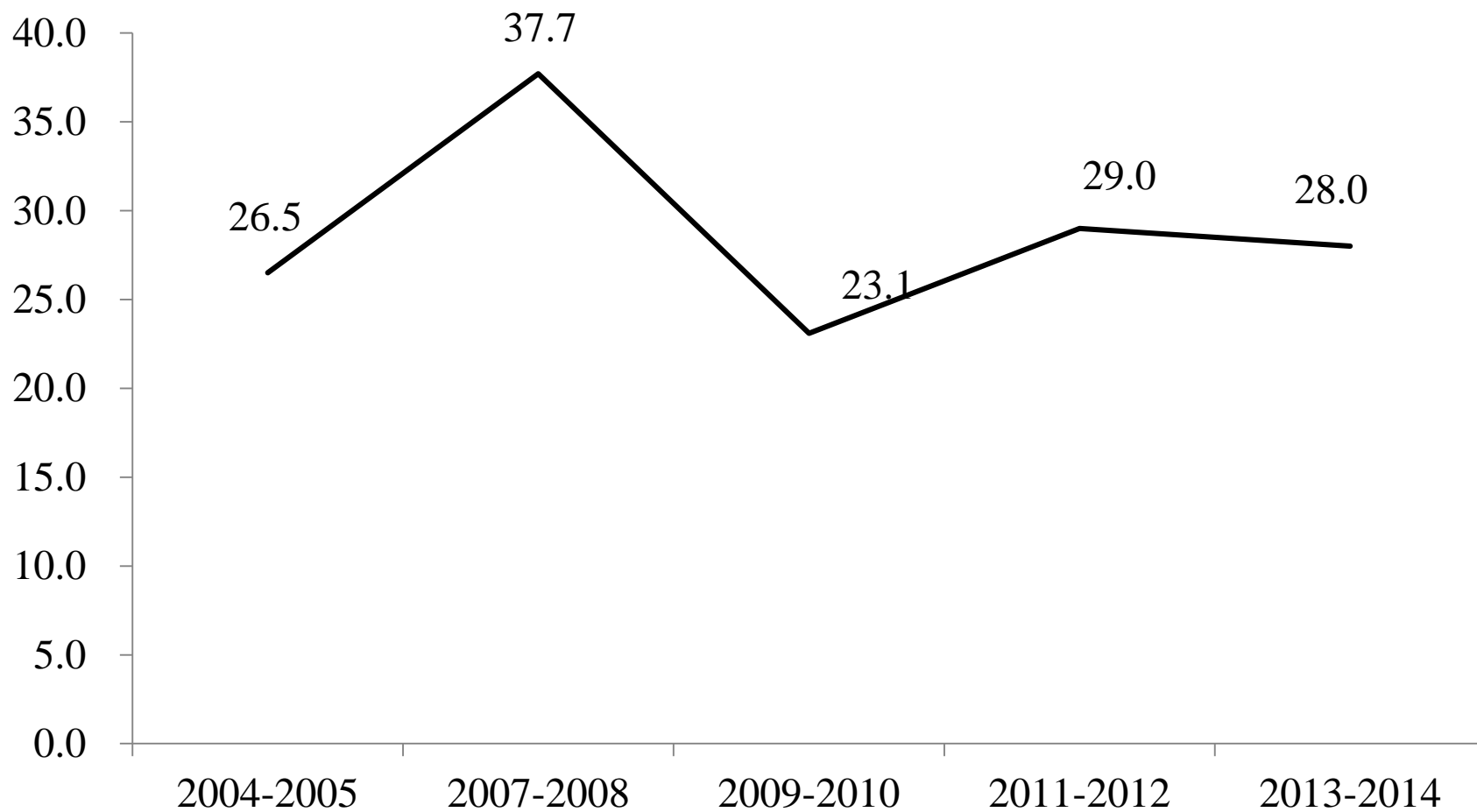
Proportion of Carbapenem-R *P.aeruginosa* Isolates in China



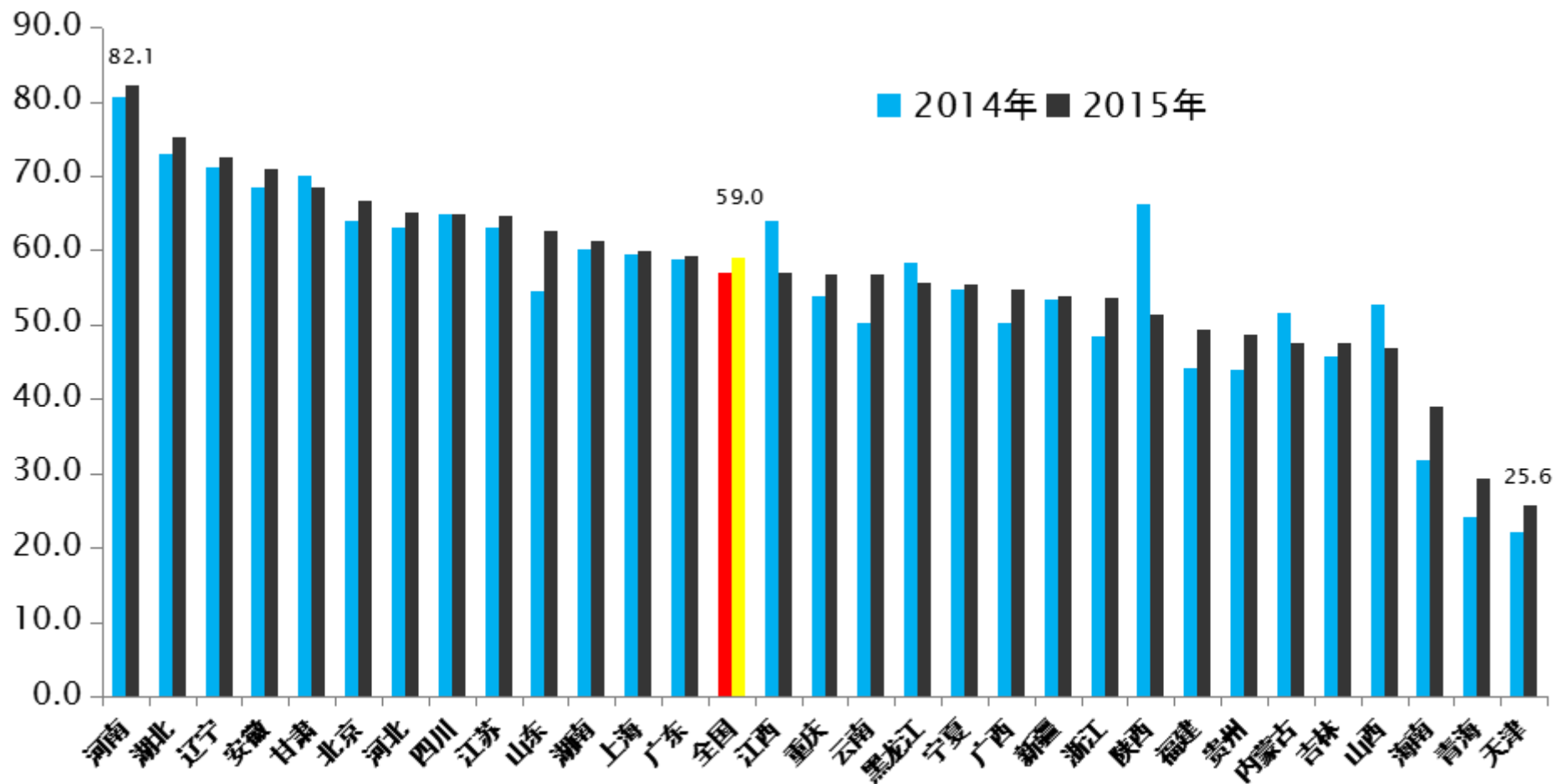
Proportion of Carbapenem-R *P.aeruginosa* Isolates in China



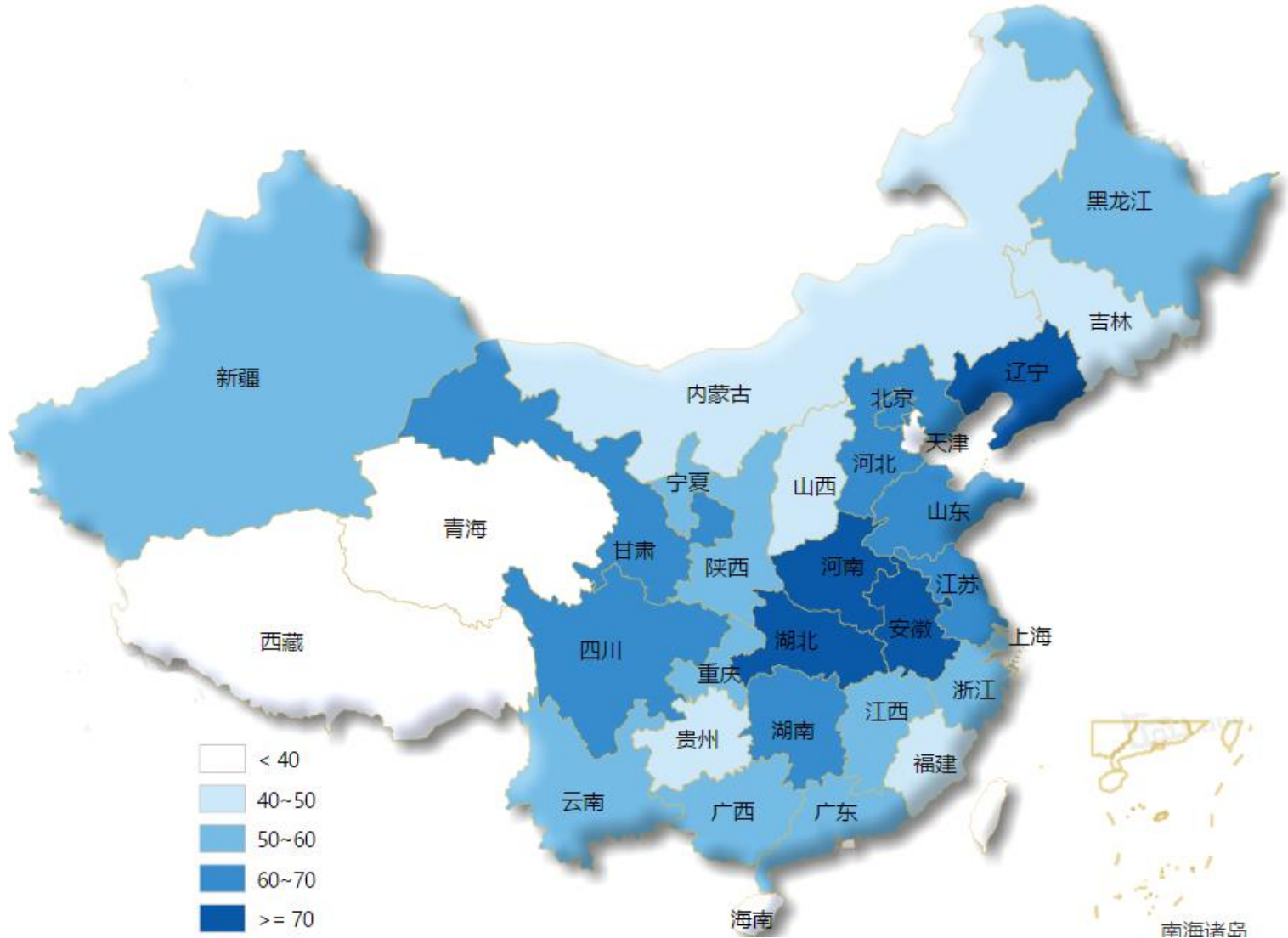
Proportion of Carbapenem-R *P.aeruginosa* Isolates in China



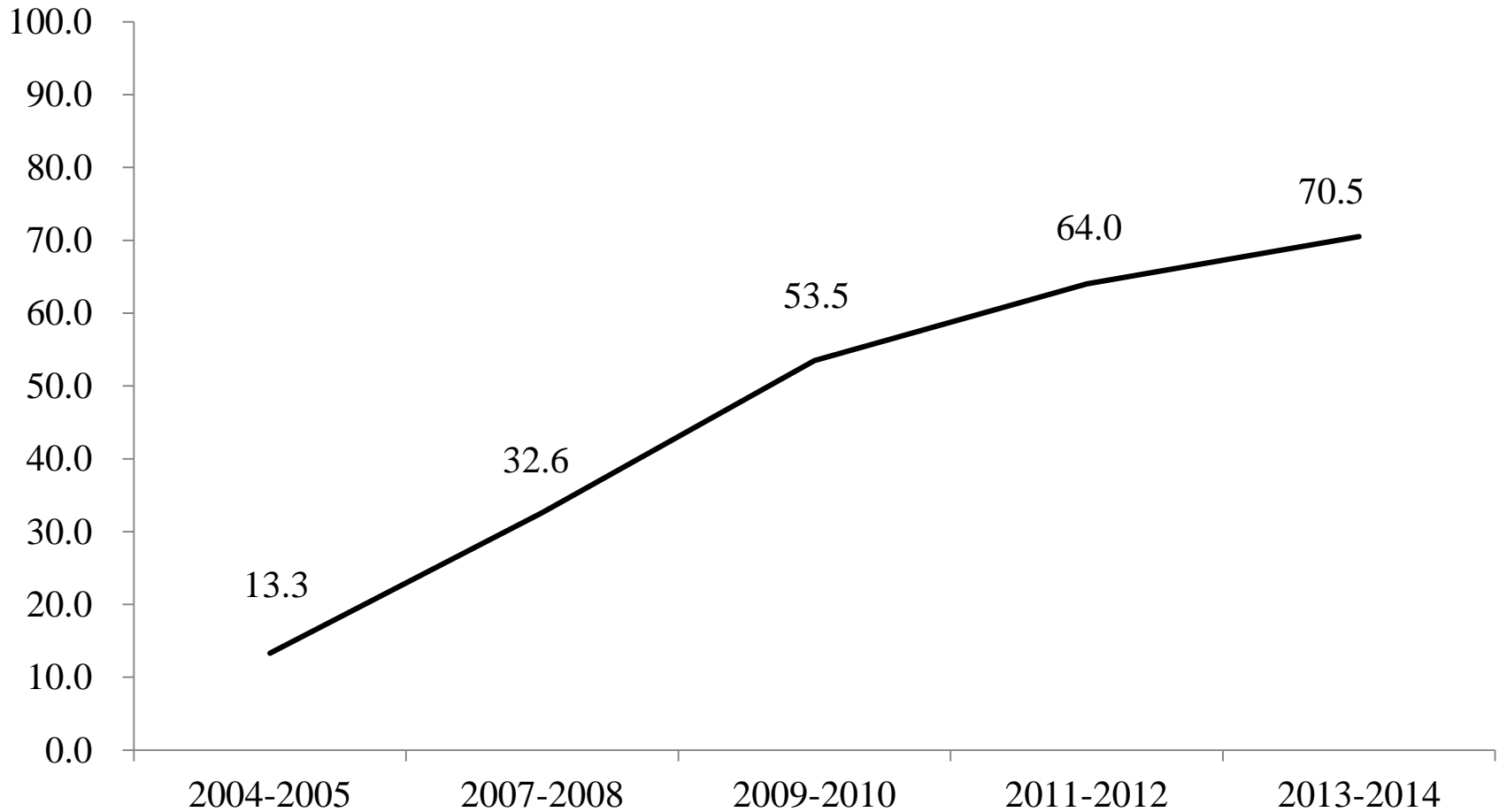
Proportion of Carbapenem-R *A.baumannii* Isolates in China



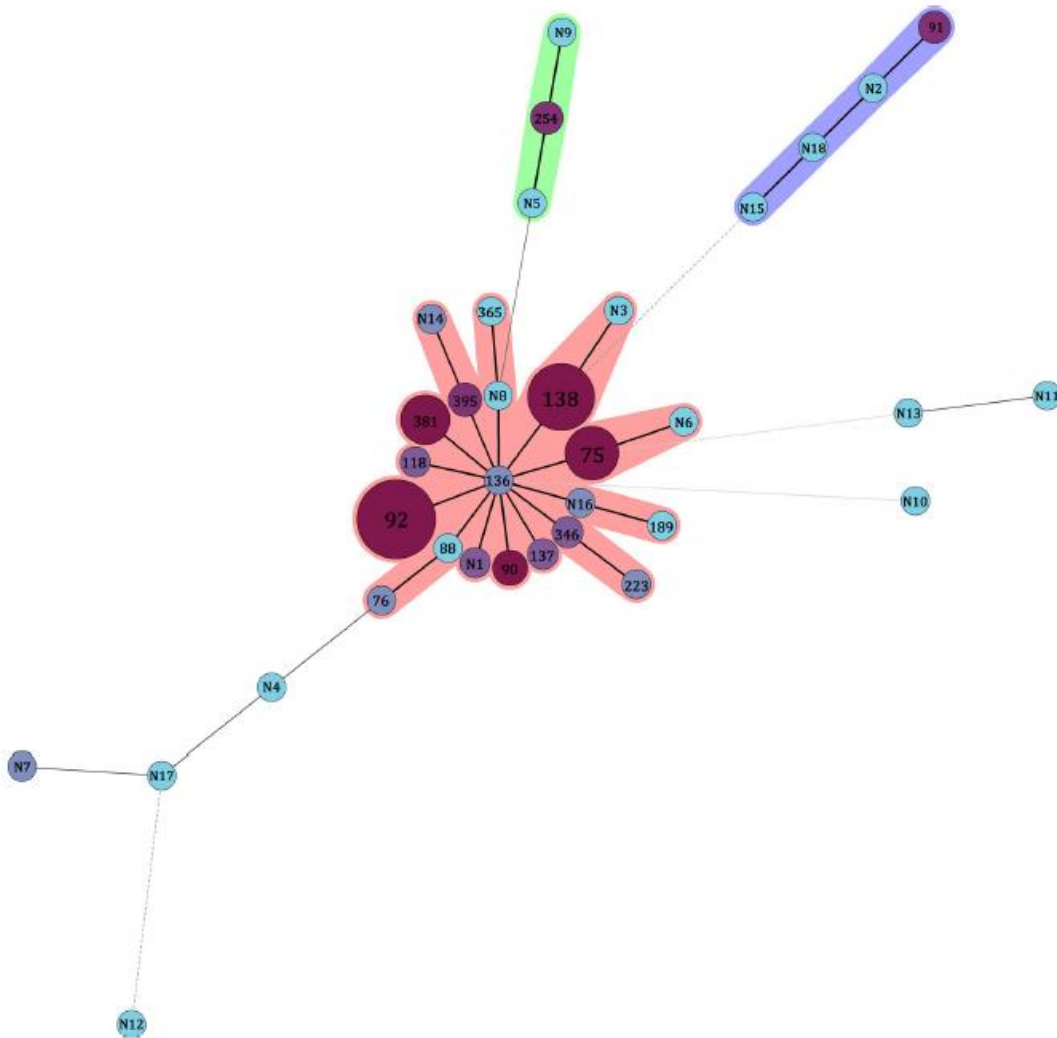
Proportion of Carbapenem-R *A.baumannii* Isolates in China



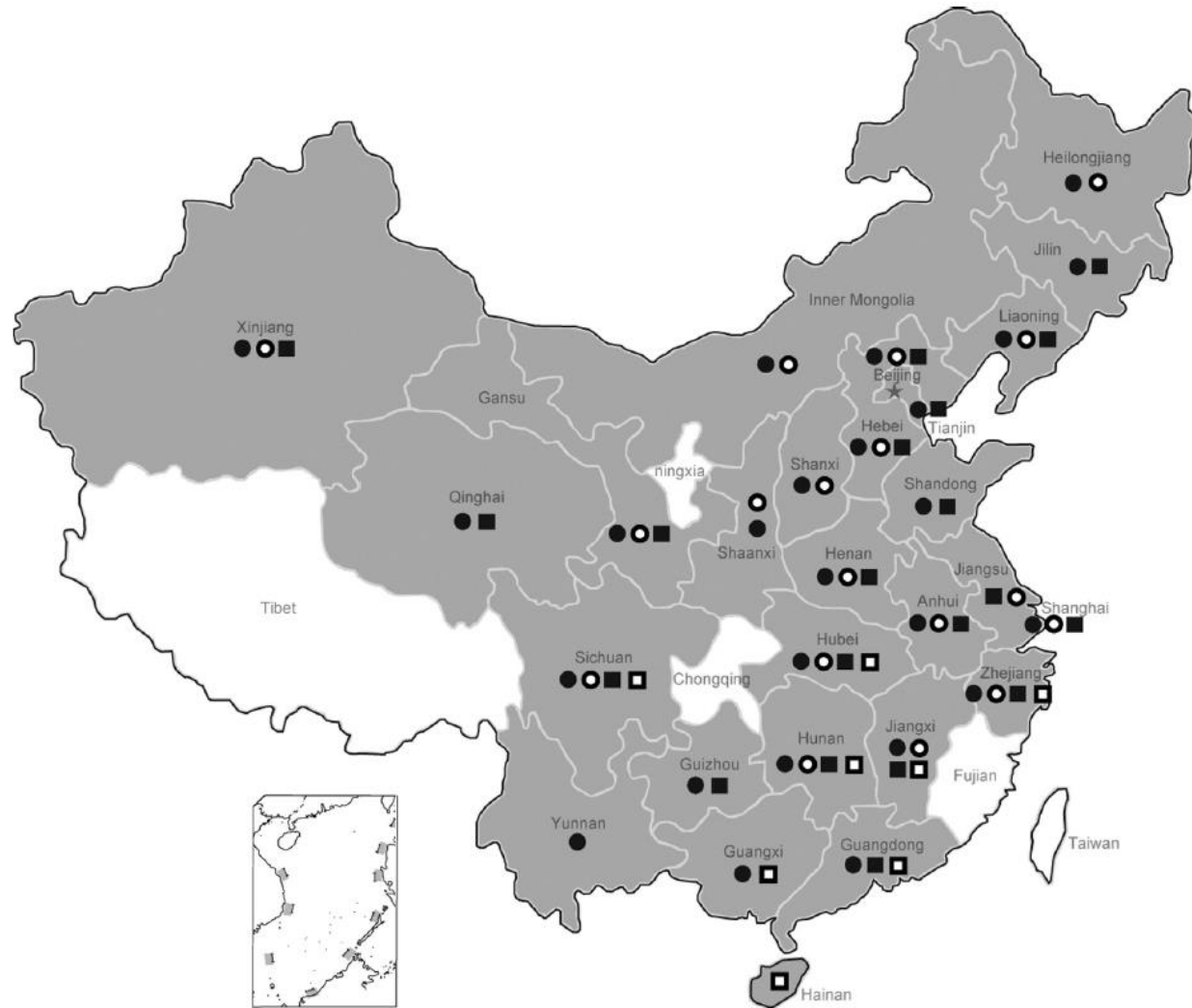
Proportion of Carbapenem-R *A.baumannii* Isolates in China



Minimum spanning tree analysis of based on multilocus sequence typing (MLST)



Distribution of STs in CR *A. baumannii*



●, ST92; ○, ST138; ■, ST75; □, ST381.

Thank You For Your Attention

Zheng Bo

doctorzhengbo@163.com