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Author: Lihong Zhao, Aihua Liu, Ruiying Li, Shuping Zhao

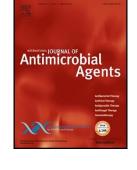
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ACCEPTED MANUSCRIPT

- 1 Trends in antimicrobial resistance in Neisseria gonorrhoeae and
- 2 molecular characteristics of Neisseria gonorrhoeae with decreased
- 3 susceptibility to ceftriaxone in Shandong, China, 2007 to 2014
- 4 Lihong Zhao^a, Aihua Liu^b, Ruiying Li^c, Shuping Zhao^{a,*}
 - ^a Department of Laboratory, Tai'an Central Hospital, Tai'an 271000, China.
- 6 b Central Laboratory, Tai'an Central Hospital, Tai'an 271000, China.
- ^c Department of Reproductive Genetics, Tai'an Central Hospital, Tai'an 271000, China.
- 8 *Corresponding author. Mailing address: Department of Laboratory, Tai' an Central Hospital, 29
- 9 Longtan Road, Tai' an 271000, China. Telephone number: +86-538-2138370. Fax number:
- 10 +86-538-8223227. E-mail: lihongzhao70@sina.com

12 Highlights

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- Three new substitutions of R44G, L47R, and/or H105F in MtrR were observed.
- PenA mosaic structure would possibly increase considerably ceftriaxone MICs.
- The substitutions of Ala-501 in PBP2 would possibly increase ceftriaxone MICs.
- Genetic polymorphisms in mtrR might cause decreased susceptibility to CRO.
- Genetic polymorphisms in penB and ponA might cause decreased susceptibility to CRO.

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