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

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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,*}**

5 ^a Department of Laboratory, Tai'an Central Hospital, Tai'an 271000, China.

6 ^b Central Laboratory, Tai'an Central Hospital, Tai'an 271000, China.

7 ^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

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 12 **Highlights**

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

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