**Additional data 3**

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| **Table S3.** Mechanistic analysis of antibiotics resistance for clarithromycin and quinolone. |
| Strain no. | V domain of 23S rRNA gene mutation | *gyrA* mutation | *gyrB* mutation |  |  |  |
| 1A | X | T261A | X  |  |  |  |
| 1B | X | X | X  |  |  |  |
| 2A | X  | T261A | X  |  |  |  |
| 2B | X  | X  | X  |  |  |  |
| 3A | X  | X  | X  |  |  |  |
| 3B | X  | X  | X  |  |  |  |
| 4A | X  | X  | X  |  |  |  |
| 4B | X  | X  | X  |  |  |  |
| 5A | X  | X  | X  |  |  |  |
| 5B | X  | X  | X  |  |  |  |
| 6A | X  | X  | X  |  |  |  |
| 6B | X  | X  | X  |  |  |  |
| 7A | X  | X  | X  |  |  |  |
| 7B | X  | X  | X  |  |  |  |
| 8A | A2142G | G271A | X  |  |  |  |
| 8B | A2142G  | X  | X  |  |  |  |
| 9A | X  | X  | X  |  |  |  |
| 9B | X  | X  | X  |  |  |  |
| 10A | X  | X  | X  |  |  |  |
| 10B | A2142G | X  | X  |  |  |  |
| The V domain of 23S rRNA, *gyrA* and *gyrB* gene sequence was analyzed to clarify the mechanism of antibiotic resistance (clarithromycin, quinolone). Numbers 1–10 indicate individual patients; A, stomach antrum; B, stomach body.  |