

CORRECTION

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# Correction: Review and analysis of the overlapping threats of carbapenem and polymyxin resistant E. Coli and Klebsiella in Africa

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## Correction to *Antimicrobial Resistance & Infection Control* (2023) 12:29

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The original article contains two errors that the authors wish to note corrections for:

1. In Table 2, the four cells in the 'All reporting nations' each display incorrect values, and should each instead be displayed as in the amended Table 1 ahead.
2. In Additional File 1, a search term was inadvertently repeated when the intent was to include a special character, and there is an additional inadvertent repetition of a term. The corrected Additional File 1 can be viewed via this Correction article.

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The online version of the original article can be found at <https://doi.org/10.1186/s13756-023-01220-4>.

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**Table 2** Available reports on *E. coli* and *Klebsiella* carbapenem and polymyxin susceptibility, resistance, and related genes

| Nation                           | All reports on named species (reports identifying resistance or determinants related to resistance) |                   |                                      |                   |                                       |
|----------------------------------|---|-------------------|--------------------------------------|-------------------|---------------------------------------|
|                                  | Carbapenem  |                   | Polymyxin (colistin and polymyxin B) |                   | References                            |
|                                  | <i>E. coli</i>  | <i>Klebsiella</i> | <i>E. coli</i>                       | <i>Klebsiella</i> |                                       |
| Algeria                          | 33 (12)   | 37 (18)           | 17 (4)                               | 22 (3)            | [48–97]                               |
| Angola                           | 2 (2)   | 2 (2)             | 1 (0)                                | 1 (0)             | [98,99]                               |
| Benin                            | 6 (4)   | 2 (1)             | 2 (0)                                | 2 (0)             | [100–105]                             |
| Botswana                         | 1 (0)   | 1 (0)             | 0                                    | 0                 | [106]                                 |
| Burkina Faso                     | 12 (4)  | 13 (0)            | 3 (2)                                | 1 (0)             | [25,107–121]                          |
| Cameroon                         | 11 (3)  | 7 (3)             | 3 (2)                                | 1 (0)             | [116,122–133]                         |
| Cape Verde                       | 1 (0)   | 0                 | 0                                    | 0                 | [116]                                 |
| Central African Republic         | 2 (0)   | 3 (0)             | 0                                    | 0                 | [25,134,135]                          |
| Chad                             | 8 (4)   | 4 (1)             | 1 (0)                                | 0                 | [57,116,136–141]                      |
| Congo                            | 2 (2)   | 1 (1)             | 1 (0)                                | 0                 | [142,143]                             |
| Côte d'Ivoire                    | 4 (1)   | 5 (1)             | 1 (1)                                | 0                 | [144–150]                             |
| Democratic Republic of the Congo | 3 (0)   | 2 (1)             | 0                                    | 0                 | [151–153]                             |
| Djibouti                         | 2 (1)   | 0                 | 1 (0)                                | 0                 | [57,154]                              |
| Egypt                            | 106 (66)  | 125 (98)          | 28 (14)                              | 34 (15)           | [1,25–27,57,78,116,155–293]           |
| Equatorial Guinea                | 1 (0)   | 1 (1)             | 0                                    | 0                 | [294]                                 |
| Eritrea                          | 1 (0)   | 0                 | 1 (0)                                | 0                 | [295]                                 |
| Ethiopia                         | 19 (10)   | 27 (17)           | 4 (4)                                | 6 (4)             | [1,112,296–316]                       |
| Gabon                            | 4 (0)   | 5 (1)             | 0                                    | 0                 | [317–321]                             |
| Gambia                           | 1 (1)   | 1 (1)             | 0                                    | 0                 | [322]                                 |
| Ghana                            | 15 (5)  | 15 (8)            | 1 (1)                                | 1 (1)             | [116,323–337]                         |
| Guinea                           | 1 (0)   | 0                 | 0                                    | 0                 | [116]                                 |
| Guinea-Bissau                    | 1 (0)   | 1 (0)             | 0                                    | 0                 | [338]                                 |
| Kenya                            | 26 (11)   | 25 (21)           | 2 (1)                                | 2 (0)             | [116,168,268,282,339–362]             |
| Libya                            | 17 (10)   | 22 (20)           | 3 (0)                                | 8 (4)             | [57,78,363–385]                       |
| Madagascar                       | 14 (3)  | 12 (6)            | 0                                    | 0                 | [1,26,27,112,116,168,386–395]         |
| Malawi                           | 4 (3)   | 7 (5)             | 1 (0)                                | 2 (0)             | [26,27,396–398]                       |
| Mali                             | 4 (3)   | 2 (1)             | 1 (0)                                | 0                 | [1,57,399,400]                        |
| Mauritania                       | 1 (1)   | 1 (0)             | 1 (1)                                | 1 (1)             | [401]                                 |
| Mauritius                        | 4 (2)   | 6 (5)             | 1 (0)                                | 2 (1)             | [25,57,168,183,402–404]               |
| Morocco                          | 24 (13)   | 39 (24)           | 6 (2)                                | 10 (2)            | [25,57,78,116,183,268,282,405–433]    |
| Mozambique                       | 6 (1)   | 4 (0)             | 1 (0)                                | 0                 | [1,116,427,434–438]                   |
| Namibia                          | 1 (0)   | 5 (1)             | 0                                    | 0                 | [25,183,439]                          |
| Niger                            | 5 (2)   | 2 (0)             | 1 (1)                                | 1 (1)             | [57,440–443]                          |
| Nigeria                          | 82 (53)   | 80 (46)           | 32 (23)                              | 28 (15)           | [1,27,116,444–561]                    |
| Rwanda                           | 7 (3)   | 6 (2)             | 1 (1)                                | 1 (1)             | [562–568]                             |
| Sao Tome and Principe            | 1 (1)   | 1 (1)             | 1 (1)                                | 0                 | [569]                                 |
| Senegal                          | 10 (2)  | 11 (6)            | 1 (1)                                | 3 (1)             | [56,78,112,116,145,570–581]           |
| Sierra Leone                     | 5 (3)   | 4 (3)             | 0                                    | 0                 | [116,582,583]                         |
| Somalia                          | 1 (0)   | 0                 | 1 (0)                                | 0                 | [295]                                 |
| South Africa                     | 69 (25)   | 109 (82)          | 18 (8)                               | 20 (10)           | [1,25,78,168,183,268,282,519,584–663] |
| South Sudan                      | 1 (0)   | 0                 | 0                                    | 0                 | [664]                                 |
| Sudan                            | 12 (7)  | 10 (5)            | 1 (1)                                | 1 (1)             | [1,27,112,116,665–673]                |
| Tanzania                         | 29 (6)  | 26 (7)            | 2 (1)                                | 2 (1)             | [56,112,116,168,674–700]              |
| Togo                             | 6 (4)   | 4 (3)             | 3 (1)                                | 3 (1)             | [116,701–706]                         |
| Tunisia                          | 34 (14)   | 70 (43)           | 15 (4)                               | 29 (13)           | [1,26,27,78,168,183,268,282,707–774]  |
| Uganda                           | 17 (10)   | 16 (11)           | 2 (1)                                | 2 (1)             | [1,26,27,168,775–788]                 |
| Zambia                           | 3 (1)   | 4 (4)             | 0                                    | 0                 | [26,27,789,790]                       |

**Table 2** (continued)

| Nation                | All reports on named species (reports identifying resistance or determinants related to resistance) |                   |                                      |                   |               |
|-----------------------|---|-------------------|--------------------------------------|-------------------|---------------|
|                       | Carbapenem  |                   | Polymyxin (colistin and polymyxin B) |                   | References    |
|                       | <i>E. coli</i>  | <i>Klebsiella</i> | <i>E. coli</i>                       | <i>Klebsiella</i> |               |
| Zimbabwe              | 3 (1)   | 1 (1)             | 0                                    | 0                 | [116,791,792] |
| All reporting nations | 622 (294)   | 719 (451)         | 158 (75)                             | 183 (76)          |               |

Reports on carbapenem or polymyxin susceptibility were not identified from the following searched nations: Burundi, Comoros, Lesotho, Liberia, Seychelles and Swaziland

### Supplementary Information

The online version contains supplementary material available at <https://doi.org/10.1186/s13756-024-01403-7>.

Supplementary Material 1

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