### Additional file 2: Comparison of antimicrobial therapy between 2016 and 2018.

|                  | Total          | University hospital | Private practices |
|------------------|----------------|---------------------|-------------------|
|                  | 2016 | 2018 | 2016 | 2018 | 2016 | 2018 |
| **Pneumonia**    |      |      |      |      |      |      |
| Total            | n = 294 | n = 294 | n = 70 | n = 70 | n = 224 | n = 224 |
| First line antimicrobial | 45 | 78 | 27 | 44 | 18 | 34 |
| Second line antimicrobial | 74 | 89 | 11 | 16 | 63 | 73 |
| Third line antimicrobial | 128 | 82 | 21 | 5 | 107 | 77 |
| Unlisted antimicrobial | 42 | 40 | 9 | 2 | 33 | 38 |
| Non-antibiotic therapy | 5 | 5 | 2 | 3 | 3 | 2 |
| Combination therapy | 12 | 18 | 1 | 0 | 11 | 18 |
| **Diarrhea**     |      |      |      |      |      |      |
| Total            | n = 296 | n = 296 | n = 72 | n = 72 | n = 224 | n = 224 |
| First line antimicrobial | 24 | 40 | 16 | 29 | 8 | 11 |
| Second line antimicrobial | 45 | 43 | 1 | 15 | 44 | 28 |
| Third line antimicrobial | 11 | 6 | 8 | 3 | 3 | 3 |
| Unlisted antimicrobial | 147 | 137 | 35 | 15 | 112 | 122 |
| Non-antibiotic therapy | 69 | 70 | 12 | 10 | 57 | 60 |
| Combination therapy | 13 | 25 | 5 | 1 | 8 | 24 |
| **Otitis**       |      |      |      |      |      |      |
| Total            | n = 35 | n = 65 |      |      |      |      |
| First line antimicrobial | 11 | 14 |      |      |      |      |
| Second line antimicrobial | 3 | 5 |      |      |      |      |
| Third line antimicrobial | 15 | 33 |      |      |      |      |
| Unlisted antimicrobial | 6 | 12 |      |      |      |      |
| Non-antibiotic therapy | 0 | 1 |      |      |      |      |
| Combination therapy | 4 | 7 |      |      |      |      |

The absolute number of cases is indicated for each category; aUnlisted antimicrobial, antimicrobial class not listed in the guidelines