**Tables and figures**

**Table 1.** Consumption (DDD/1000 inhab. *die*) of reimbursed antibiotics (J01) dispensed by community pharmacies in Italy in 2018

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Region** | **2013** | **2014** | **2015** | **2016** | **2017** | **2018** | **∆ % 18-17** |
| Piemonte | 14.8 | 14.2 | 13.9 | 12.9 | 12.7 | 12.7 | 0.4 |
| Valle d'Aosta | 14.6 | 14.1 | 14.1 | 12.3 | 12.5 | 12.8 | 2.4 |
| Lombardia | 15.1 | 14.6 | 14.5 | 13.8 | 13.6 | 13.7 | 0.3 |
| PA Bolzano | 10.4 | 9.9 | 9.8 | 9.1 | 8.7 | 8.9 | 2.8 |
| PA Trento | 14.4 | 14.4 | 14.2 | 13.3 | 13.7 | 13.5 | -1.1 |
| Veneto | 13.5 | 13.2 | 12.5 | 11.8 | 11.8 | 11.7 | -0.5 |
| Friuli VG | 13.1 | 12.5 | 12.4 | 11.6 | 11.9 | 11.8 | -1.3 |
| Liguria | 13.0 | 12.1 | 11.9 | 11.0 | 11.2 | 11.3 | 1.0 |
| Emilia R. | 15.1 | 14.7 | 14.0 | 13.4 | 12.7 | 13.0 | 1.8 |
| Toscana | 17.5 | 16.5 | 16.3 | 15.4 | 15.0 | 14.6 | -2.8 |
| Umbria | 20.5 | 19.6 | 19.1 | 18.6 | 18.2 | 18.1 | -0.5 |
| Marche | 19.7 | 19.3 | 18.6 | 18.3 | 17.7 | 17.8 | 0.5 |
| Lazio | 21.4 | 20.0 | 19.5 | 18.5 | 18.2 | 18.1 | -0.5 |
| Abruzzo | 20.9 | 20.8 | 20.4 | 20.1 | 19.6 | 20.4 | 3.8 |
| Molise | 20.7 | 21.1 | 20.2 | 18.7 | 18.0 | 18.5 | 2.9 |
| Campania | 26.3 | 26.1 | 25.4 | 24.8 | 23.4 | 23.4 | 0.2 |
| Puglia | 24.6 | 24.7 | 24.0 | 23.2 | 21.5 | 20.5 | -4.5 |
| Basilicata | 21.1 | 20.8 | 19.8 | 18.8 | 18.6 | 18.5 | -0.5 |
| Calabria | 23.1 | 23.1 | 22.4 | 21.4 | 21.4 | 20.6 | -3.3 |
| Sicilia | 22.1 | 20.9 | 20.0 | 19.3 | 19.3 | 19.2 | -0.5 |
| Sardegna | 16.6 | 16.3 | 16.0 | 14.7 | 15.1 | 14.9 | -1.4 |
| **Italy** | **18.4** | **17.9** | **17.4** | **16.6** | **16.2** | **16.1** | **-0.5** |
| North | 14.5 | 13.9 | 13.6 | 12.9 | 12.7 | 12.7 | 0.4 |
| Centre | 19.8 | 18.8 | 18.3 | 17.5 | 17.1 | 16.9 | -1.0 |
| South | 23.2 | 22.9 | 22.2 | 21.4 | 20.6 | 20.4 | -1.1 |

**Table 2.** Prevalence of inappropriate use of antibiotics by condition and geographic areas

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Prevalence of use%** | | | | |
| **Geographic areas** | **Any antibiotic**  **Flu, cold or acute laryngotracheitis** | **Fluoroquinolones, cephalosporins and macrolides**  **Pharyngitis and**  **Tonsillitis** | **Intravenous Cephalosporins and fluoroquinolones Acute bronchitis** | **Fluoroquinolones**  **Not**  **complicated Cystitis** |
| Italy | 33,1 | 30,9 | 29,8 | 34,2 |
| North | 27,6 | 28,6 | 19,8 | 32,6 |
| Centre | 35,1 | 29,2 | 29,2 | 36,8 |
| South | 40,7 | 34,5 | 42,1 | 34,3 |

**Table 3.** Prevalence of community use of fluoroquinolones (J01MA) by Italian regions in 2018

|  |  |  |
| --- | --- | --- |
|  | Prevalence (%)  Women  20-59 years | Prevalence (%)  Elderly  ≥75 years |
| Piemonte | 7.4 | 18.3 |
| Val d'Aosta | 7.6 | 18.2 |
| Lombardia | 7.1 | 17.4 |
| Bolzano | 3.9 | 9.3 |
| Trento | 7.8 | 19.6 |
| Veneto | 7.1 | 17.7 |
| Friuli VG | 5.1 | 12.1 |
| Liguria | 6.6 | 17.3 |
| Emilia R. | 5.6 | 14.2 |
| Toscana | 7.4 | 21.6 |
| Umbria | 10.7 | 30.0 |
| Marche | 9.7 | 24.4 |
| Lazio | 9.1 | 25.6 |
| Abruzzo | 10.3 | 25.3 |
| Molise | 10.2 | 27.7 |
| Campania | 11.8 | 35.3 |
| Puglia | 10.6 | 29.6 |
| Basilicata | 10.1 | 28.9 |
| Calabria | 9.1 | 32.0 |
| Sicilia | 9.5 | 33.8 |
| Italy | **8.4** | **22.5** |
| North | 6.8 | 16.7 |
| Centre | 8.8 | 24.4 |
| South | 10.2 | 30.5 |

**Table 4a.** Prevalence of antibiotics use in paediatric population (0-13 years) by geographic area and ATC group in 2018

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Geographic area | J01 | J01CA | J01CR | J01DB | J01FA | Others |
| Italy | 40,8 | 9,1 | 21,6 | 11,8 | 12,1 | 1,1 |
| North | 36,6 | 11,8 | 18,6 | 8,5 | 9,1 | 0,8 |
| Centre | 41,6 | 6,9 | 25,1 | 12,3 | 11,3 | 1,0 |
| South | 45,9 | 6,8 | 23,6 | 15,9 | 16,3 | 1,5 |

**Table 4b.** Prescription of antibiotics in paediatric population (0-13 years) by geographic area and therapeutic group in 2018

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Therapeutic group | Prescriptions per 1,000 children | | | |
| **North** | **Centre** | **South** | **Italy** |
| Broad-spectrum penicillins (J01CA-CE-CF) | 245 | 124 | 113 | 175 |
| Combinations of penicillins, incl. beta-lactamase inhibitors (J01CR) | 359 | 471 | 412 | 399 |
| Cephalosporins (J01DB-DC-DD-DE) | 163 | 233 | 311 | 228 |
| Macrolides (J01FA) | 138 | 171 | 260 | 187 |
| Other | 14 | 21 | 28 | 20 |
| Total | **920** | **1,020** | **1,122** | **1,010** |