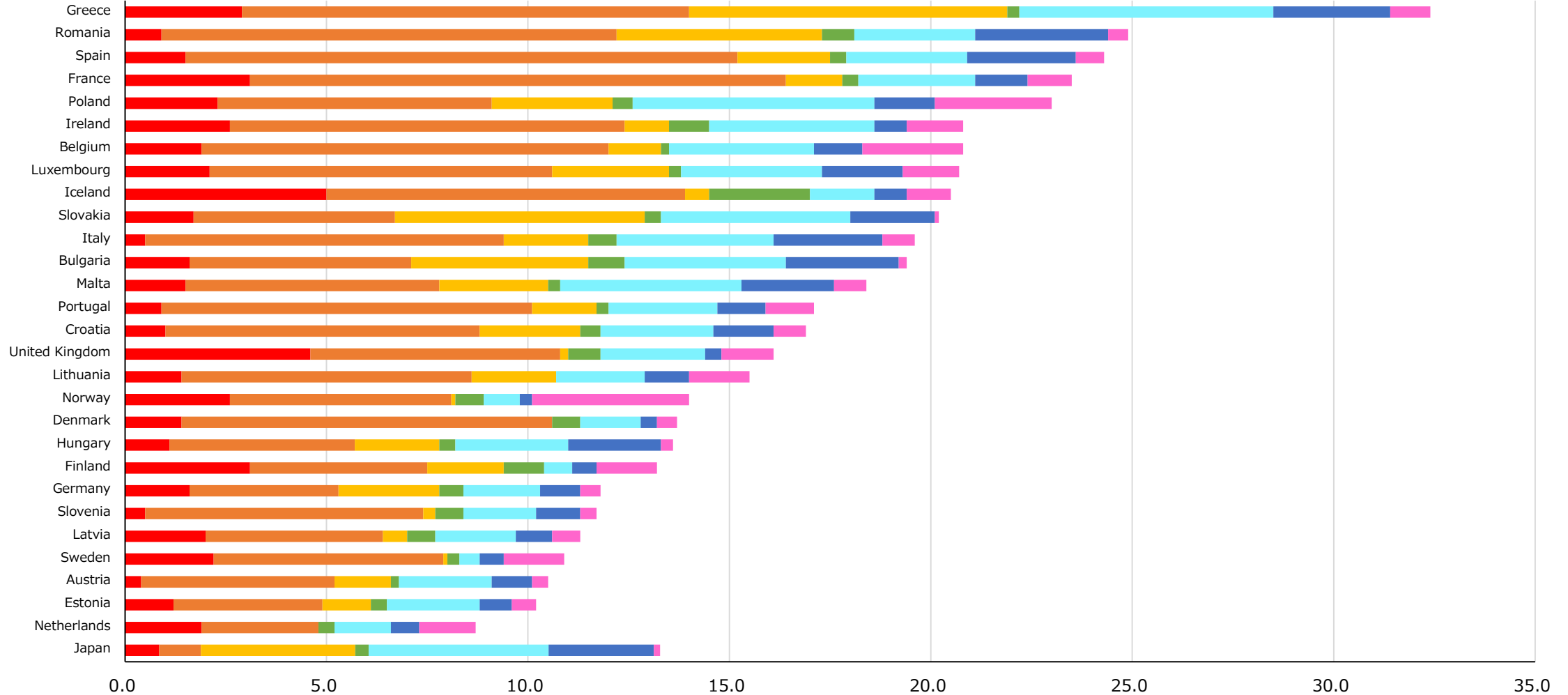


Antibiotic use: Comparison to European countries

International comparison of antimicrobial use in European countries and Japan (2018)



Defined Daily Dose / 1,000 inhabitants / day

- Tetracycline
- Penicillin
- Cephalosporins and other β -lactams
- Sulfonamide Trimethoprim
- Macrolide, Lincosamide, and Streptogramine
- Quinolone
- Others

※ The DDD is according to data published in 2020.

- The data are calculated from claims registered in the NDB.
The data do not always reflect the precise antibiotic use because the data of patients who receive publicly funded health care are not always included.
The numerical values are different from those of the surveillance of antibiotic sales (<http://amrcrc.ncgm.go.jp/surveillance/020/20190902163931.html>) due to the different data source.
 - The figures indicate drug utilization standardized by defined daily dose (DDD) per population and drug, called DID (DDDs/1,000 inhabitants/day)
(Reference: https://www.whooc.no/atc_ddd_index/).
The DDD is according to data published on January 1, 2019.
 - The population is according to estimates published by the Statistics Bureau, Ministry of Internal Affairs and Communications, Japan.
(<https://www.stat.go.jp/data/jinsui/>)
 - The AWaRe Classification is a tool for antimicrobial stewardship recommended by the WHO.
(Reference: : <https://adoptaware.org/> ; related tables: http://amrcrc.ncgm.go.jp/surveillance/020/AWaRe_bunrui_2019_ver5.pdf)
 - Please see this PDF (http://amr.ncgm.go.jp/pdf/190903_glossary.pdf) for definitions of terminology related to the surveillance of antibiotics.
 - Notes
 - The categories of antibiotics in the data are classified according to the WHO ATC3 Level as in the Antimicrobial consumption - Annual Epidemiological Report for 2018.
- See https://www.whooc.no/atc_ddd_index/ for more information about ATC classifications.
- (※) The data were surveyed in accordance with the study below.**
- **Research grant from the Ministry of Health, Labour and Welfare of Japan (20HA2003).**
 - **Research on the implementation of the AMR Action Plan (Chief Norio Ohmagari)**