

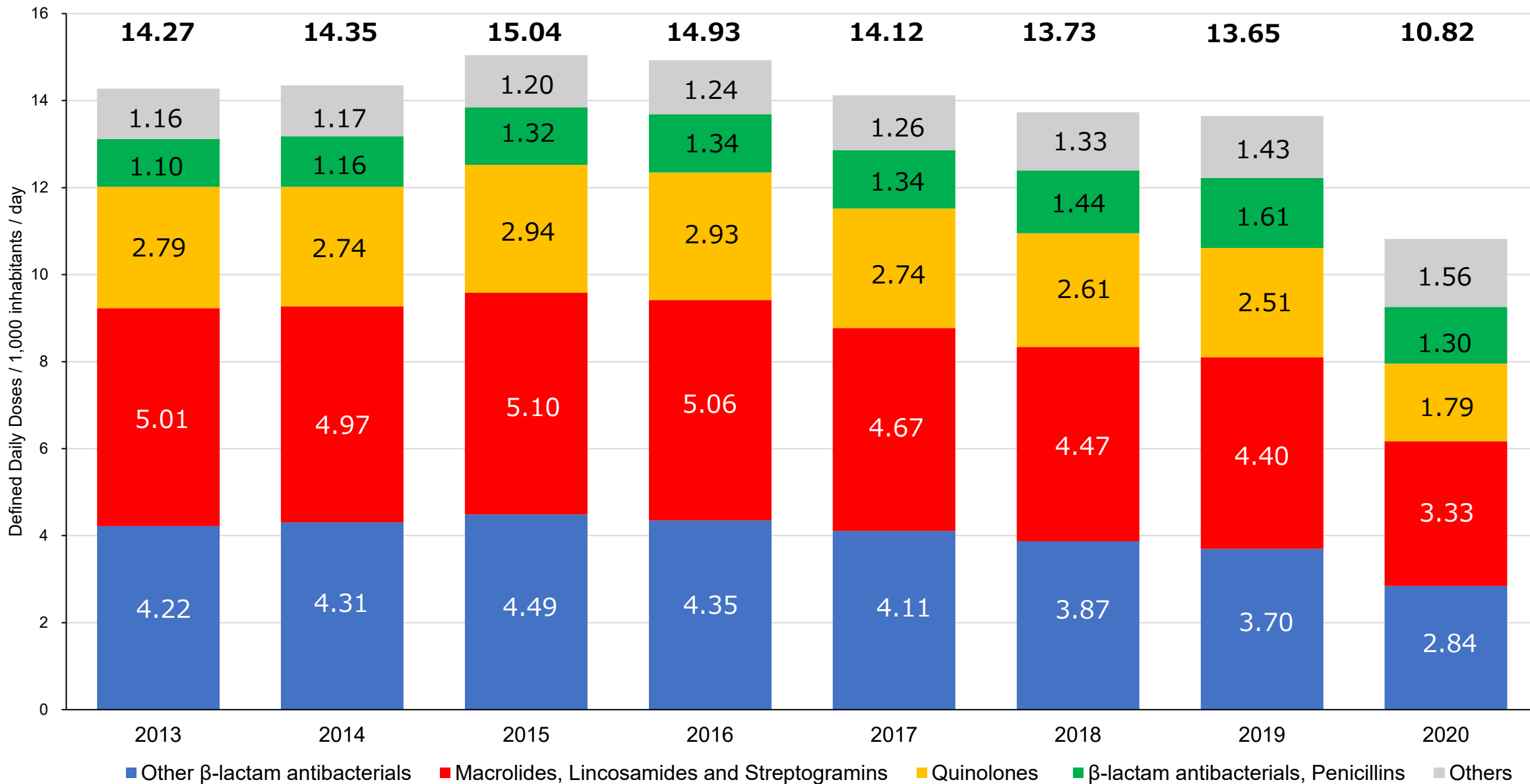
- The data are calculated from claims registered in the NDB.
(Matsuda S, et al. Asian Pac J Dis Manag. 2012;Jun: 55–9. Kusama Y, et al. PLoS One 2021 May 11;16(5):e0251299.)
The data do not always reflect the precise Antimicrobial Consumption because the data of patients who receive publicly funded health care are not always included.
The numerical values are different from those of the surveillance of Antimicrobial 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.whocc.no/atc_ddd_index/).
The DDD is according to data published on January 1, 2017.
- 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:https://amrcrc.ncgm.go.jp/surveillance/020/AWaRe_bunrui_2021_ver1.pdf)
- Please see this PDF (http://amr.ncgm.go.jp/pdf/190903_glossary.pdf) for definitions of terminology related to the surveillance of Antimicrobials.
- Notes
 - The ATC 3 codes shown on pages 3 and 6 are explained below.
See https://www.whocc.no/atc_ddd_index/ for more information about ATC classifications.
 - Other β -lactam antibacterials: J01D (Other β -lactam antibacterials) ※ Includes carbapenem
 - Macrolides, Lincosamides and Streptogramins: J01F (Macrolides, Lincosamides and Streptogramins)
 - Quinolone: J01M (Quinolone antibacterials) ※ Includes nalidixic acid and piperidic acid
 - β -lactam antibacterials, Penicillins: J01C (β -lactam antibacterials, Penicillins) ※ Includes combination drugs containing β -lactamase inhibitor
 - Surveillance categorized by facility (clinic or hospital) is based on the classification by the regional bureau of health and welfare as of December.
(see page 7, 9, and 10)
 - Surveillance categorized as medical or dental is from 2015, when electronic claims became widespread among dentists (see page 6).
- (※) The data were surveyed in accordance with the study below.**
 - **Research grant from the Ministry of Health, Labour and Welfare of Japan in 2021.**
Research on the implementation of the AMR Action Plan (Chief Norio Ohmagari)

Surveillance of Antimicrobial Consumption in Japan

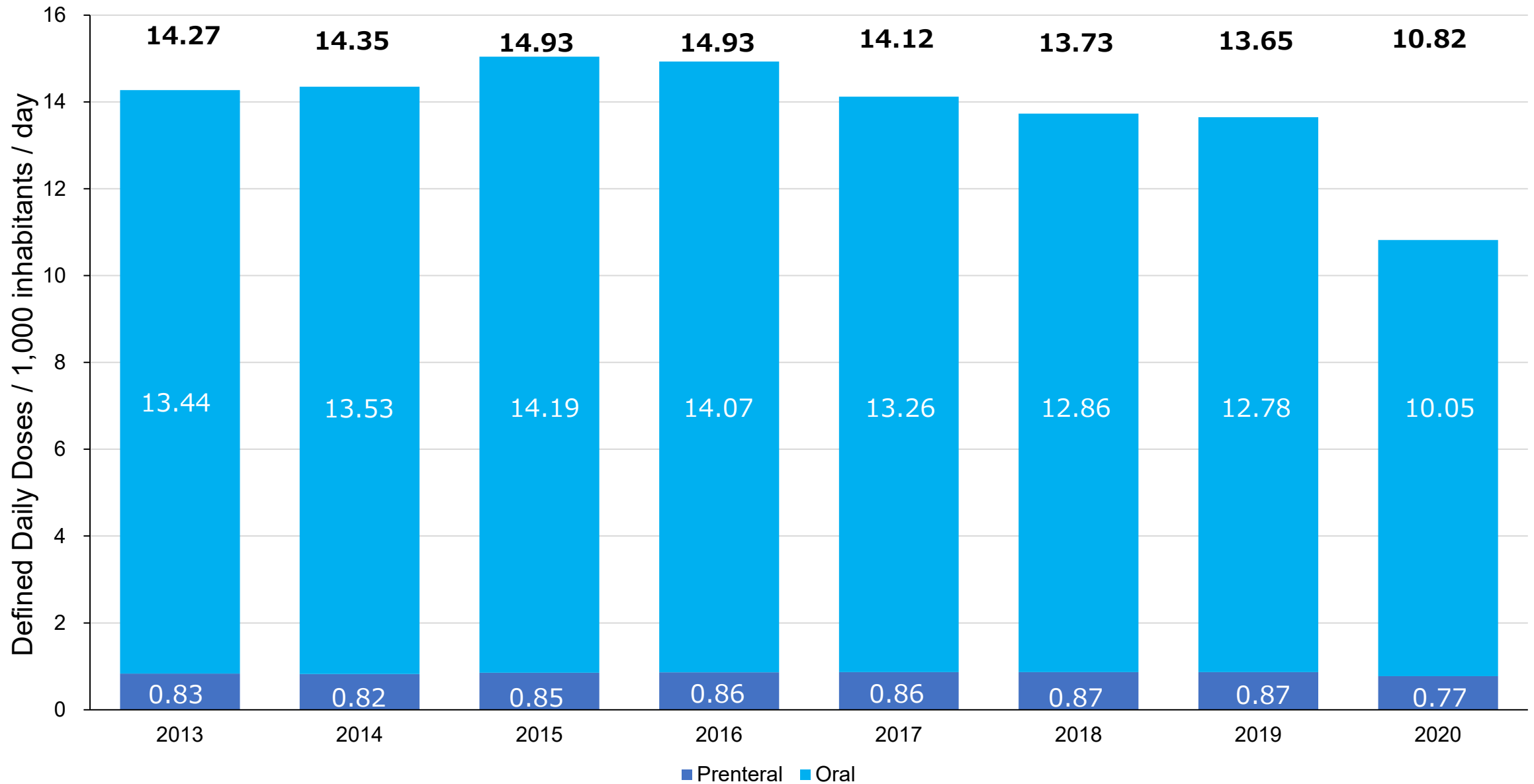
	2013	2014	2015	2016	2017	2018	2019	2020	Target value	Target reduction rate	2020
Total	14.27	14.35	15.04	14.93	14.12	13.73	13.65	10.82	9.56	33%↓	24.20%↓
Cephalosporins (oral)	3.58	3.67	3.83	3.70	3.46	3.23	3.07	2.27	1.79	50%↓	36.39%↓
Fluoroquinolones (oral)	2.75	2.71	2.91	2.90	2.71	2.58	2.49	1.76	1.38	50%↓	36.00%↓
Macrolides (oral)	4.97	4.93	5.06	5.03	4.64	4.43	4.37	3.30	2.48	50%↓	33.62%↓
Parenteral	0.83	0.82	0.85	0.86	0.86	0.87	0.87	0.77	0.67	20%↓	7.00%↓

※ Values are presented as Defined Daily Doses per 1,000 inhabitants per day

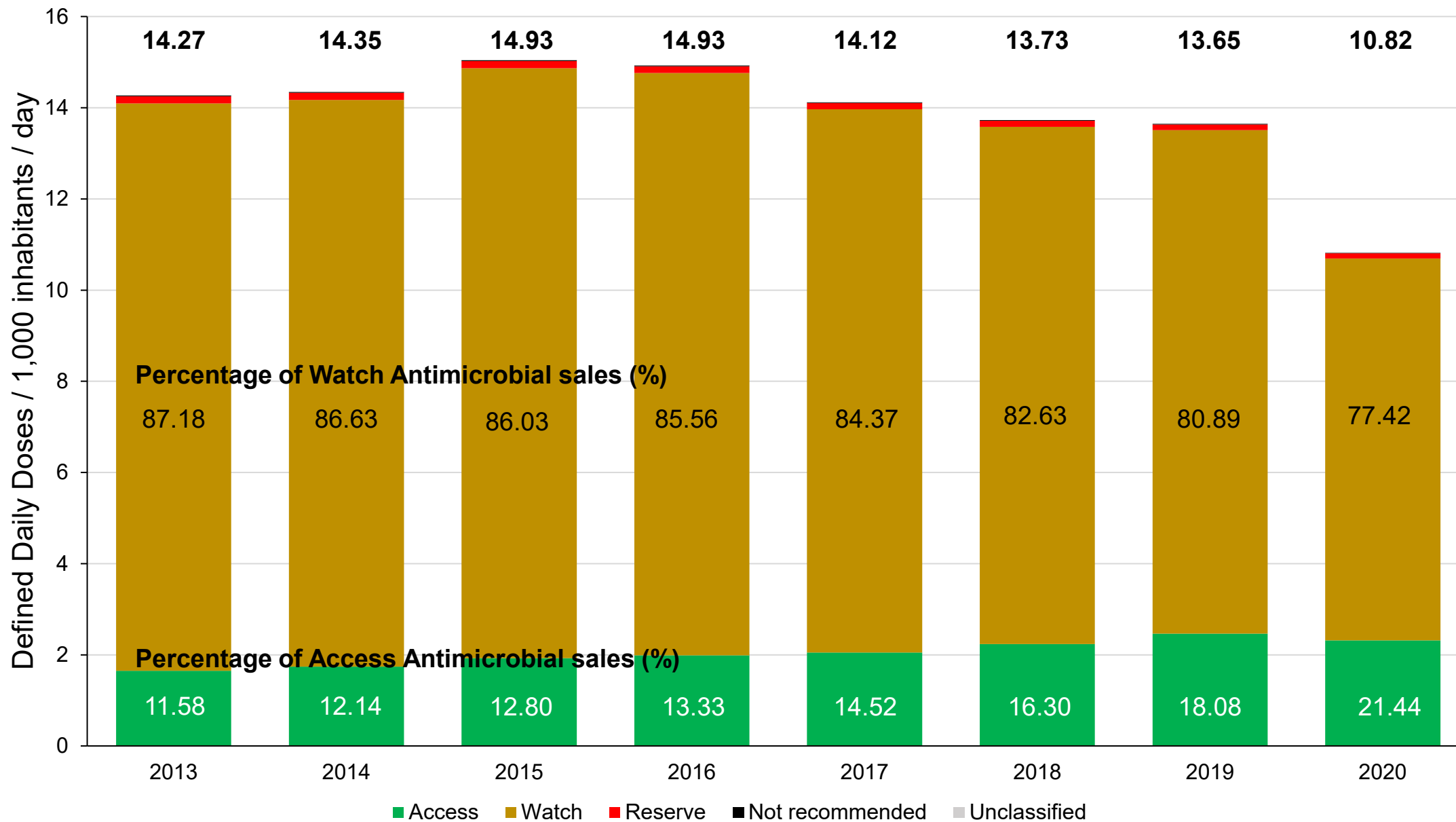
Change in Antimicrobial Consumption in Japan (2013-2020) by ATC3



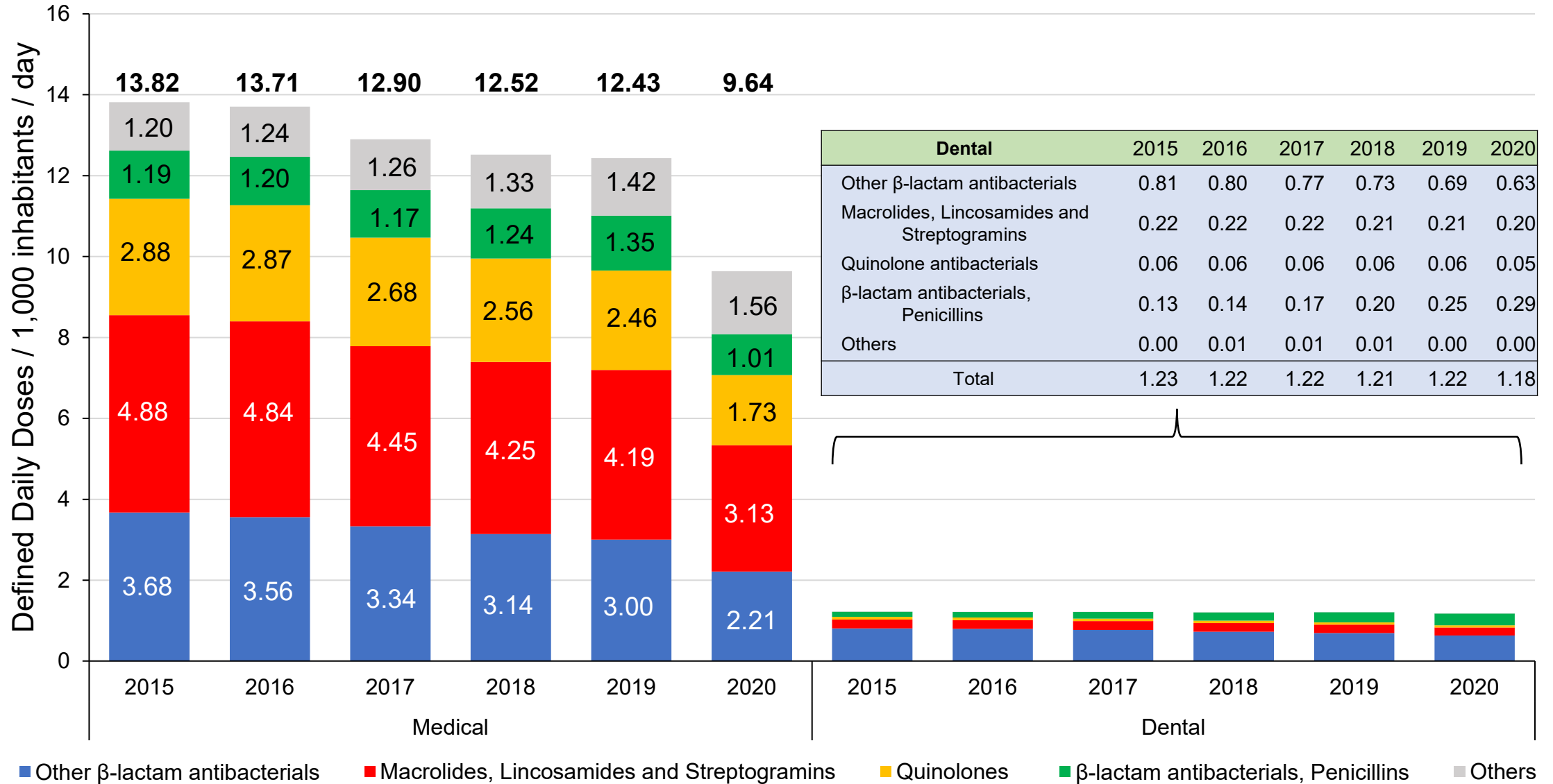
Change in Antimicrobial Consumption in Japan (2013-2020) by route of administration



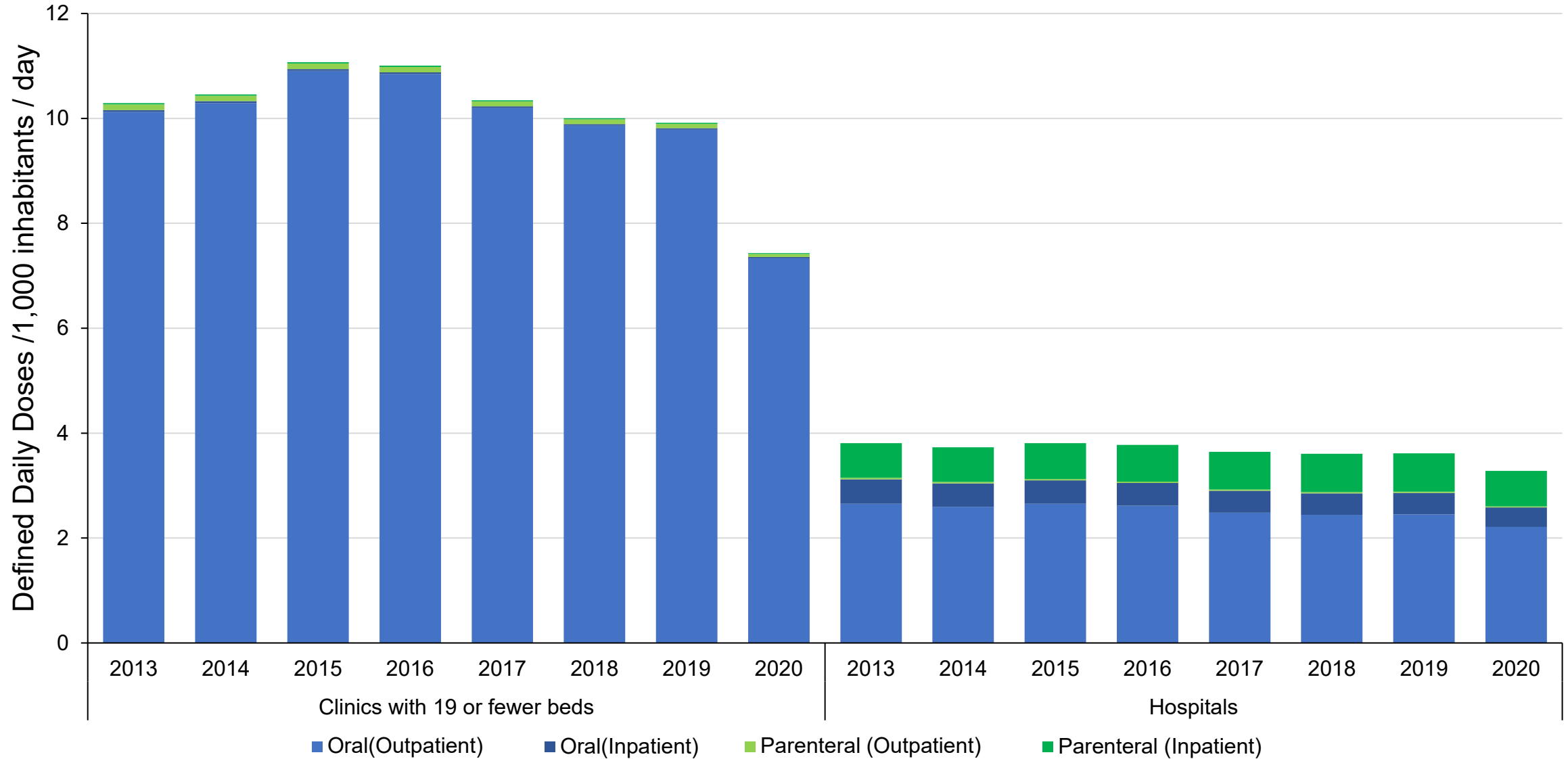
Change in Antimicrobial Consumption in Japan (2013-2020) by AWaRe Classification



Change in Antimicrobial Consumption in Japan 2015–2020
by classification as medical or dental and by ATC3

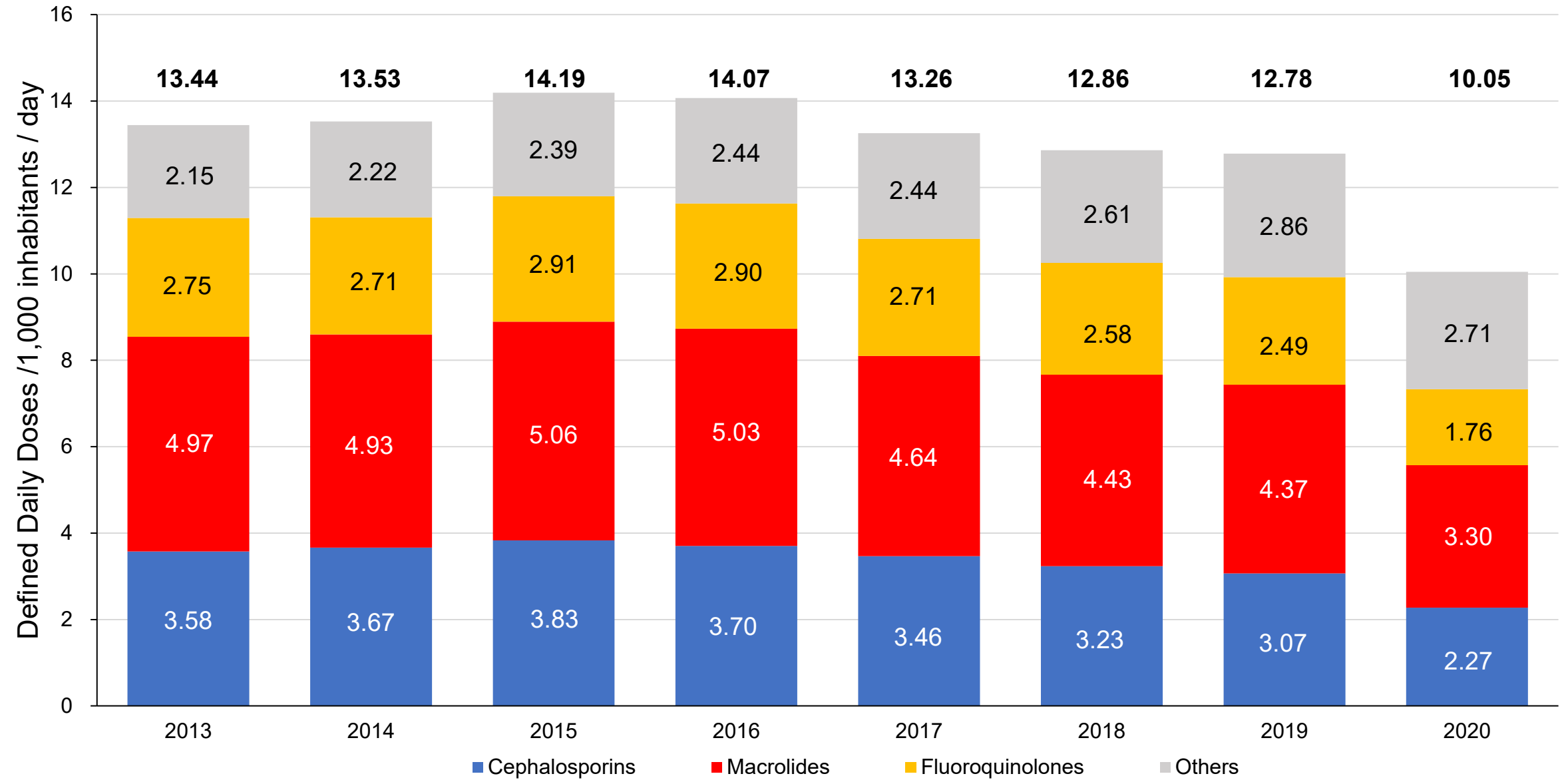


Antimicrobial Consumption in Japan by facility
 (clinic or hospital; based on the size of the facility by the regional bureau of health and welfare)

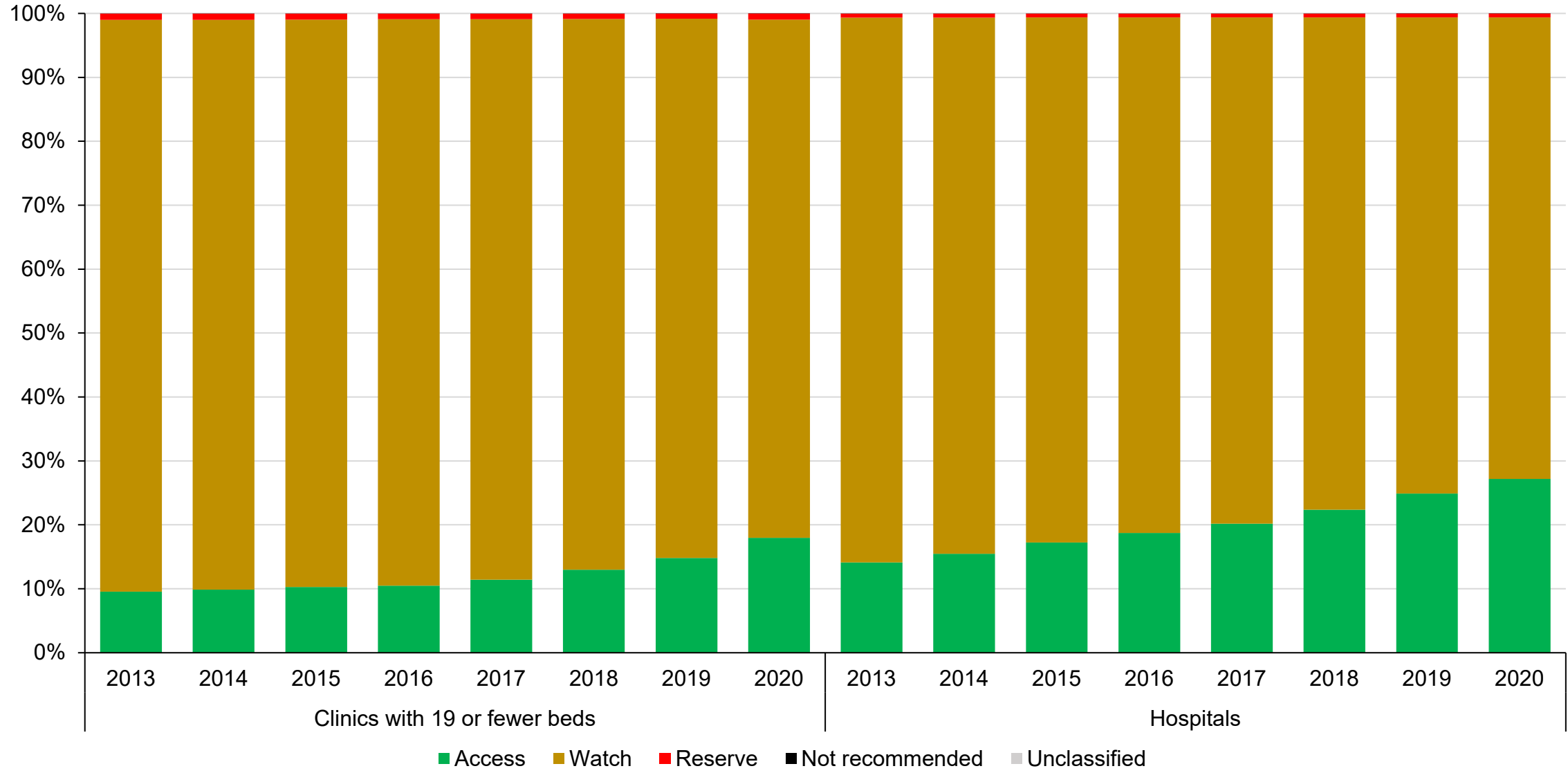


※ Facilities that have not been reported to the Health and Welfare Bureau as of December of each year are excluded as unknown.

Change in Antimicrobial Consumption in Japan (2013–2020) by ATC4



Proportion (%) of Antimicrobial Consumption in Japan
by AWARe Classification and facility
(clinic or hospital; based on the size of facility)



Proportion (%) of Antimicrobial Consumption in Japan
by ATC4 and by facility
(clinic or hospital; based on the size of facility)

