

Overall antimicrobials dispensed in various service types

Year	Service Type					
	Non-inpatient services			Inpatient Services		
	Service Volume*‡	Antimicrobial Dispensed‡‡	DDD per 1,000 attendances§¶	Service Volume‡**	Antimicrobial Dispensed‡‡	DDD per 1,000 patient-days§¶
2019	16,533,000	4,537,000	274.41	7,557,000	6,848,000	906.10
2020	14,539,000	4,085,000	280.98	6,542,000	5,893,000	900.82
2021	16,339,000	4,443,000	271.90	7,138,000	6,198,000	868.38
2022	14,553,000	3,960,000	272.11	7,067,000	5,933,000	839.61
2023	16,479,000	4,577,000	277.76	7,798,000	6,989,000	896.28

* In terms of attendances

‡ Rounded to the nearest thousand

‡‡ In DDD

§ Rounded to two decimal places

¶ Due to rounding, figures may not precisely reflect the absolute figures

** In terms of patient-days

Note:

Comparisons with estimates from other publications on antimicrobial consumption should be interpreted with caution, due to continuous revisions of the ATC/DDD system and possible difference between consumption/dispensed quantity data.

The 5 most dispensed ATC pharmacological subgroups in year 2023 in all HA services (by WHO ATC classification)

ATC Pharmacological Subgroup		Antimicrobial dispensed in DDD					Percentage Change (2023 over 2019) ^{†‡}
Code	Description	Year 2019*	Year 2020*	Year 2021*	Year 2022*	Year 2023*	
J01C	Beta-Lactam Antibacterials, Penicillins	6,451,000	5,333,000	5,673,000	5,163,000	6,226,000	-3.48%
J01A	Tetracyclines	1,060,000	1,112,000	1,163,000	1,088,000	1,279,000	20.62%
J01D	Other Beta-Lactam Antibacterials	858,000	824,000	903,000	922,000	991,000	15.41%
J01M	Quinolone Antibacterials	1,019,000	896,000	921,000	853,000	968,000	-5.01%
J01F	Macrolides, Lincosamides and Streptogramins	934,000	744,000	779,000	692,000	780,000	-16.50%
	Others	1,062,000	1,071,000	1,202,000	1,174,000	1,322,000	24.46%
Total		11,385,000	9,979,000	10,641,000	9,893,000	11,566,000	1.59%

* Rounded to the nearest thousand

† Rounded to two decimal places

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Broad-spectrum Antimicrobials Dispensed in HA Inpatient Services

	ATC Chemical Substance		DDD per 1,000 patient-days					Percentage Change (2023 over 2019)*†
	Code	Description	Year 2019*	Year 2020*	Year 2021*	Year 2022*	Year 2023*	
Tetracyclines	J01AA12	Tigecycline	0.48	0.70	0.57	0.57	0.63	30.18%
Beta-lactam Antibacterials, Penicillins	J01CR05	Piperacillin and Beta-Lactamase Inhibitor	58.13	61.83	61.27	66.33	66.37	14.17%
Other Beta-lactam Antibacterials (Cephalosporins)‡	J01DD02	Ceftazidime	4.08	4.47	5.01	5.25	5.14	26.03%
	J01DE01	Cefepime	2.69	3.29	3.63	3.81	4.23	57.58%
	J01DD62	Cefoperazone and Beta- Lactamase Inhibitor	3.65	3.40	2.94	2.72	2.43	-33.48%
	J01DI02	Ceftaroline Fosamil	0.34	0.39	0.33	0.34	0.44	29.32%
	J01DD52	Ceftazidime and Beta- Lactamase Inhibitor	0.10	0.30	0.44	0.47	0.43	324.24%
	J01DI54	Ceftolozane and Beta-Lactamase Inhibitor	0.14	0.23	-	0.11	0.28	95.64%
Other Beta-lactam Antibacterials (Carbapenems)‡	J01DH02	Meropenem	23.21	29.36	29.92	32.84	33.39	43.88%
	J01DH03	Ertapenem	6.98	8.04	8.62	8.41	9.22	31.96%
	J01DH51	Imipenem and Cilastatin	0.86	0.90	0.79	0.68	0.64	-25.63%
Other Antibacterials	J01XA01	Vancomycin	15.46	18.53	18.71	19.26	19.58	26.62%
	J01XX08	Linezolid	1.89	1.91	1.71	2.02	3.36	77.72%
	J01XX09	Daptomycin	1.33	1.59	1.58	1.73	2.05	54.33%

Broad-spectrum Antimicrobials Dispensed in HA Inpatient Services

	ATC Chemical Substance		DDD per 1,000 patient-days					Percentage Change (2023 over 2019)*†
	Code	Description	Year 2019*	Year 2020*	Year 2021*	Year 2022*	Year 2023*	
Other Antibacterials	J01XB01	Colistin	0.62	0.66	0.61	0.58	0.28	-55.20%
	J01XA02	Teicoplanin	<0.005	<0.005	<0.005	-	-	-
Total			119.96	135.60	136.13	145.12	148.45	23.75%

* Rounded to two decimal places

† Due to rounding, percentages may not precisely reflect the absolute figures

‡ ATC pharmacological subgroup “other betalactam antibacterials (J01D)” is further categorised into cephalosporins and carbapenems groups

Note:

Broad-spectrum antimicrobials not categorised as antimicrobials for systemic use (J01) under WHO ATC were excluded from analysis.

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