

# Analysis of Antibiotic Prescriptions in Oregon

Oregon AWARE (Alliance Working for Antibiotic Resistance Education)

[www.healthoregon.org/antibiotics](http://www.healthoregon.org/antibiotics)



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## Background

Analysis of antibiotic prescriptions for cephalosporins, macrolides, penicillins, quinolones, and tetracyclines was conducted for seven health care plans in Oregon in 2024, representing an average of 1.9 million members per month. The data presented below are total antibiotic prescriptions per member per month for all participating health care plans each year. Annual participation has varied since the inception of this project (Table 2).

## Results

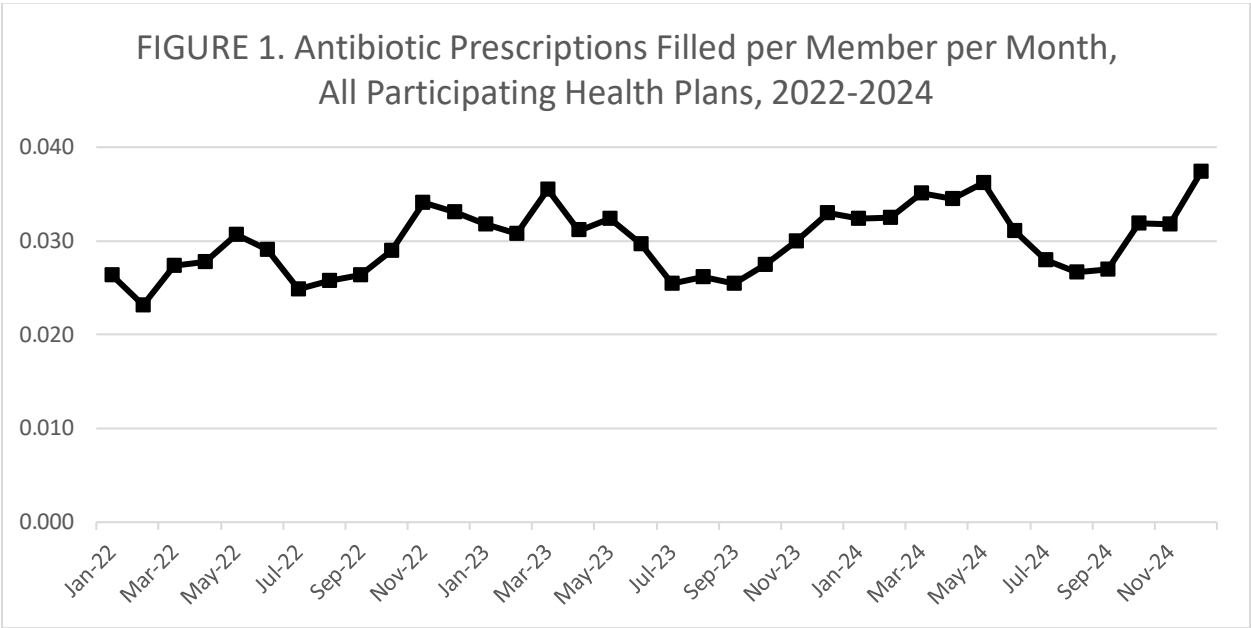
The data below depict rates of antibiotic prescriptions per member per month by year. It also shows the annual percent change from the previous year. As Table 1 shows, 2024 rates are higher than the 2020 to 2023 annual prescribing rates but lower than years prior to 2017.

New data has been highlighted in blue on the following tables.

**TABLE 1. Antibiotic Prescriptions (TOTAL) Filled per Member per Month**

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Rate	Annual % Change
2008	0.057	0.063	0.062	0.053	0.048	0.042	0.038	0.035	0.039	0.044	0.042	0.047	0.570	-
2009	0.047	0.055	0.058	0.049	0.045	0.040	0.036	0.035	0.039	0.048	0.044	0.049	0.545	-4.39
2010	0.046	0.051	0.056	0.046	0.043	0.042	0.036	0.035	0.038	0.043	0.044	0.048	0.528	-3.12
2011	0.049	0.051	0.055	0.045	0.045	0.039	0.032	0.033	0.033	0.038	0.04	0.042	0.502	-4.92
2012	0.043	0.046	0.048	0.041	0.04	0.035	0.032	0.032	0.032	0.038	0.038	0.04	0.465	-7.37
2013	0.044	0.043	0.041	0.037	0.035	0.030	0.029	0.028	0.029	0.036	0.033	0.038	0.423	-8.95
2014	0.043	0.039	0.042	0.040	0.037	0.034	0.031	0.028	0.031	0.035	0.034	0.042	0.436	2.98
2015	0.047	0.045	0.047	0.043	0.038	0.036	0.031	0.030	0.032	0.035	0.036	0.041	0.460	5.41
2016	0.039	0.045	0.048	0.038	0.036	0.033	0.029	0.030	0.031	0.034	0.038	0.041	0.441	-4.13
2017	0.041	0.042	0.046	0.038	0.040	0.035	0.030	0.030	0.031	0.036	0.037	0.042	0.450	2.14
2018	0.047	0.040	0.044	0.037	0.036	0.033	0.030	0.030	0.030	0.035	0.035	0.038	0.370	-17.80
2019	0.037	0.035	0.039	0.034	0.034	0.029	0.027	0.026	0.027	0.032	0.031	0.037	0.388	4.78
2020	0.040	0.037	0.037	0.022	0.020	0.022	0.023	0.022	0.022	0.024	0.022	0.023	0.313	-19.27
2021	0.022	0.020	0.023	0.023	0.022	0.024	0.024	0.024	0.024	0.025	0.026	0.027	0.285	-8.91
2022	0.026	0.023	0.027	0.028	0.031	0.029	0.025	0.026	0.026	0.029	0.034	0.033	0.337	18.40
2023	0.032	0.031	0.035	0.031	0.032	0.030	0.025	0.026	0.025	0.027	0.030	0.033	0.359	6.28
2024	0.032	0.032	0.035	0.035	0.036	0.031	0.028	0.027	0.027	0.032	0.032	0.037	0.384	7.19

FIGURE 1. Antibiotic Prescriptions Filled per Member per Month, 2022-2024.



In Figure 1, aggregate data for all participating plans are shown from 2022 – 2024.

FIGURE 2. Antibiotic Prescriptions Filled per Member per Year by Antibiotic Class for all Health Plans, 2008-2024 Trend.

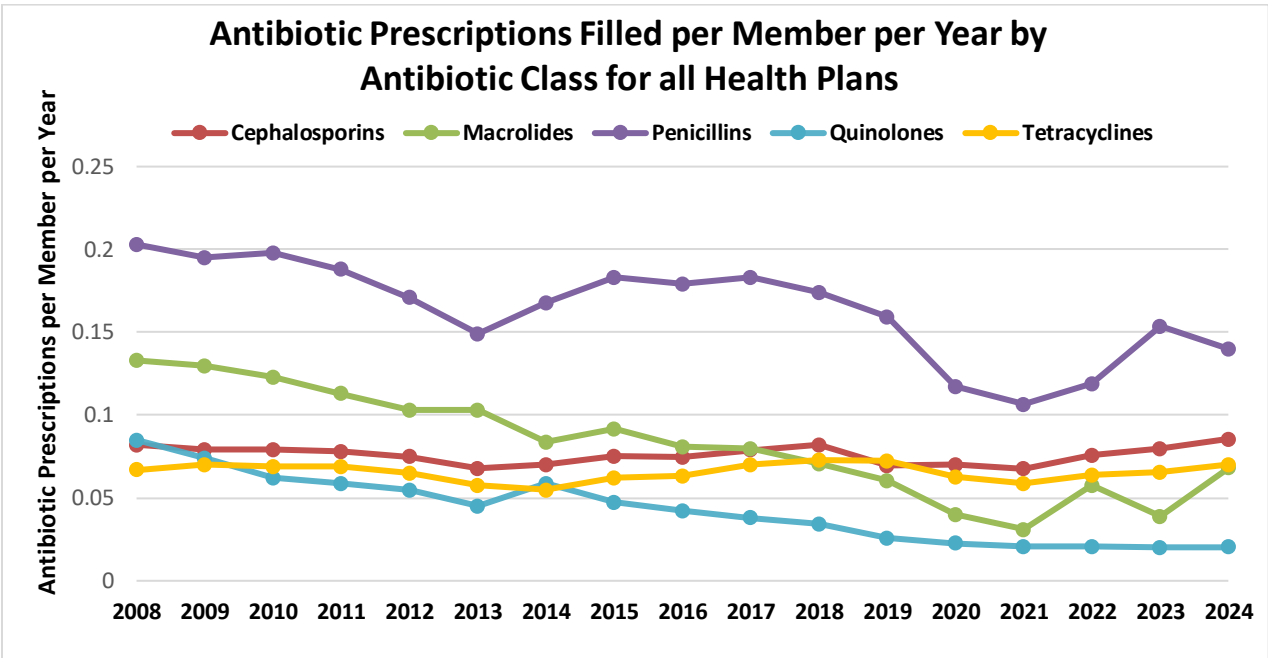


Figure 2 displays the rate of antibiotic prescriptions filled per member per month by antibiotic class for all participating health plans from 2008-2024. Data are shown as trends over time to reflect the changes in prescribing patterns by drug class.

**FIGURE 3. Antibiotic Prescriptions Filled per Member per Month by Antibiotic Class for all Health Plans, 2024**

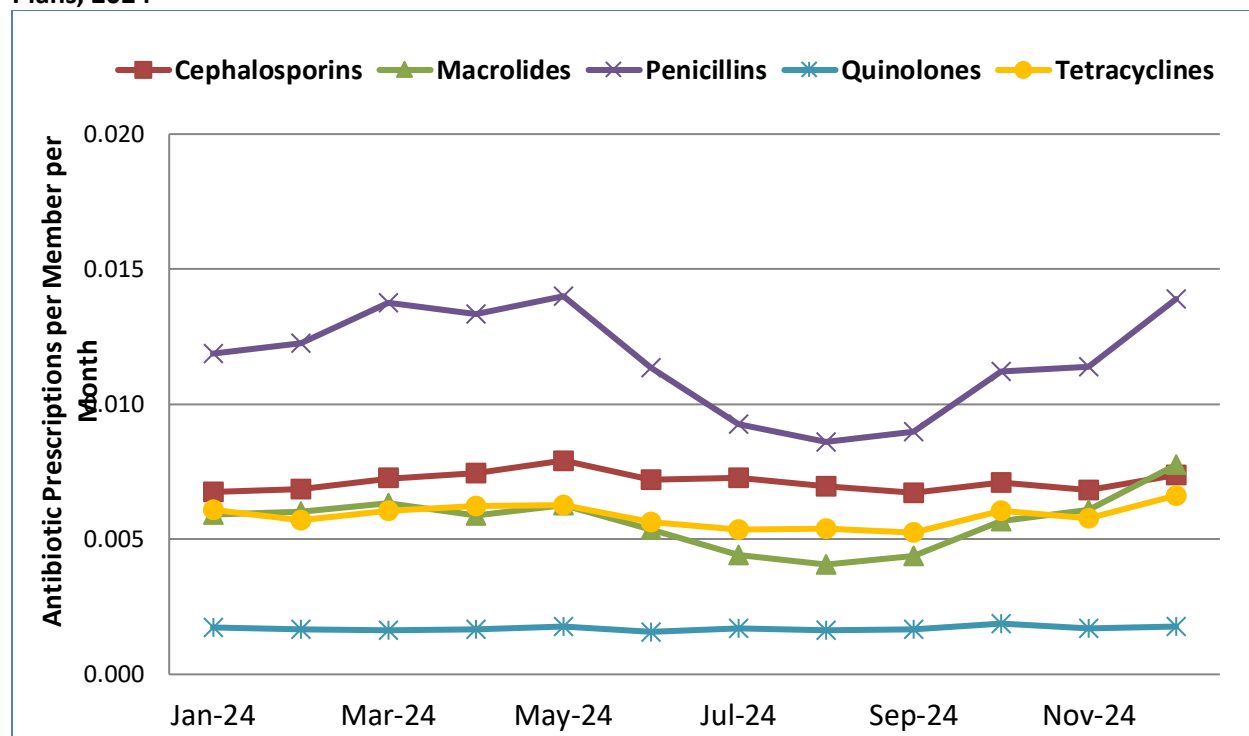


Figure 3 displays the rate of antibiotic prescriptions filled per member per month by antibiotic class for all participating health plans in 2024 to observe seasonal prescribing variation over the year.

**TABLE 2. Number of Participating Health Plans and Membership by Year**

Year	Number of Health Plans	Number of Members
2008	8	1.2 million
2009	8	1.2 million
2010	10	1.2 million
2011	11	1.8 million
2012	11	1.8 million
2013	10	1.7 million
2014	10	1.9 million
2015	10	2.1 million
2016	10	2.1 million
2017	10	2 million
2018	9	1.9 million
2019	9	1.7 million
2020	8	1.7 million
2021	8	1.7 million
2022	8	1.8 million
2023	8	1.9 million
2024	7	1.9 million

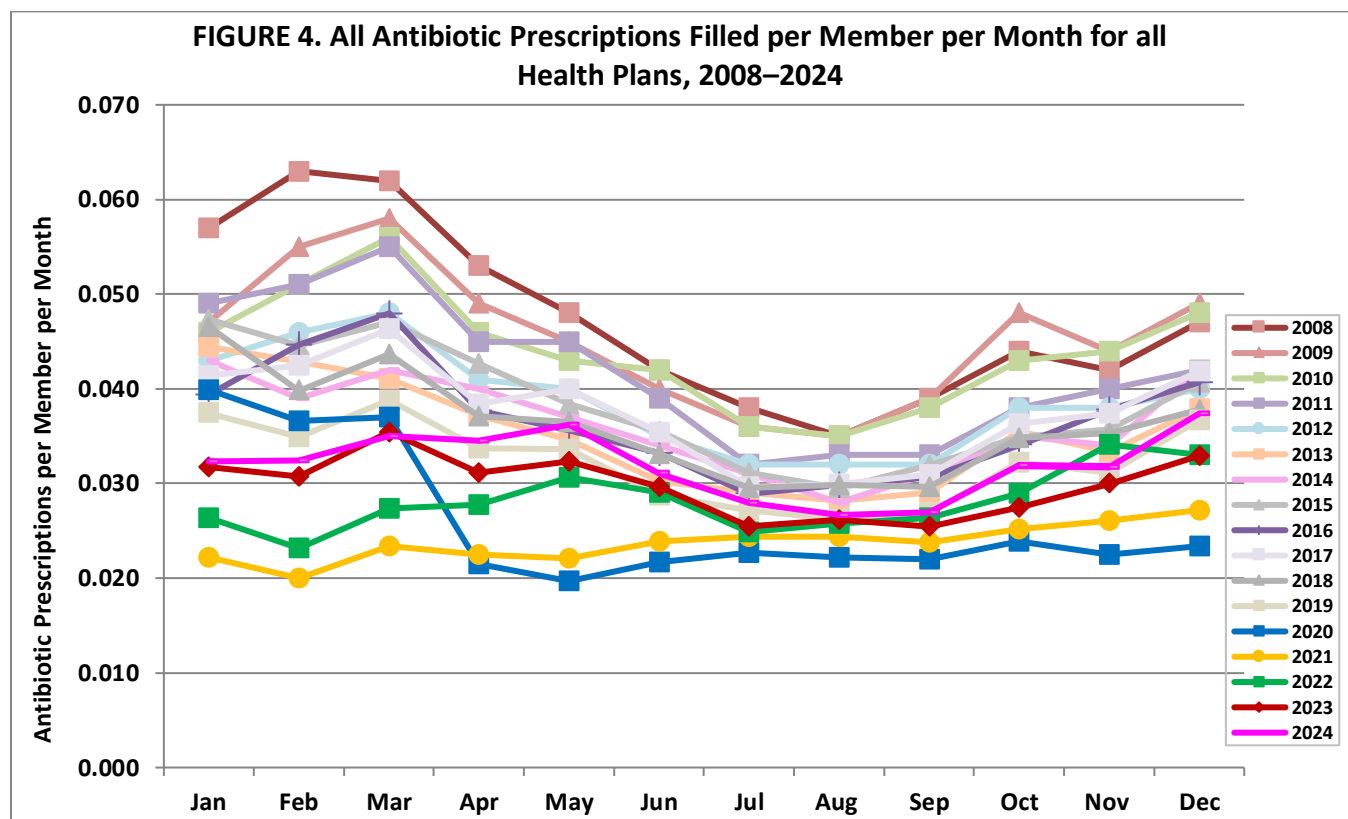


Figure 4 displays antibiotic prescriptions filled per member per month for all health plans over time. As demonstrated in the figure 2024 rates are generally higher than the 2020 to 2023 annual prescribing rates but lower than years prior to 2017. Compared to our first report in 2008, antibiotic prescribing rates have decreased 33% on average in 2024. Over the last ten years, the rate of antibiotic prescribing has decreased 17% on average. Figure 5 shows this same data per year (2008-2024) in order to highlight long-term progress.

**Figure 5. Antibiotic prescriptions per member from 2008-2024, voluntary reporting by health plan**

