

Antibiotic Resistance	Trend Direction	p-value
AZTREONAM RESISTANCE	Increasing	0.03196
AK RESISTANCE	Increasing	0.07770
GN RESISTANCE	Increasing	0.00728
SXT RESISTANCE	Increasing	0.00158
TIG RESISTANCE	Increasing	0.00131
COL RESISTANCE	Fluctuating	0.02749
CEF/AVIB RESISTANCE	Decreasing	1.99×10 ⁻⁸

Note: The table represents the Cochran-Armitage Trend Test results for antibiotic resistance patterns in Klebsiella isolates over the years 2019 to 2022. The p-value tests the hypothesis that there is no trend, with values below 0.05 indicating statistical significance. Interpretation of the trend direction should be aligned with observed frequencies.

Resistance Genes	Trend Direction	p-value
bla-KPC	Increasing	1.80×10 ⁻⁷
bla-NDM	Decreasing	2.19×10 ⁻⁷
bla-VIM	Fluctuating	0.1537
bla-OXA-48	Fluctuating	0.4010
mcr-1	Constant	1.0000

Note: The table represents the Cochran-Armitage Trend Test results for resistance genes patterns in Klebsiella isolates over the years 2019 to 2022. The p-value tests the hypothesis that there is no trend, with values below 0.05 indicating statistical significance. Interpretation of the trend direction should be aligned with observed frequencies.

6-Month Period	bla-KPC	bla-NDM	bla-VIM	bla-OXA-48	mcr-1
Jan-Jun 2019	5 (20.83%)	19 (79.17%)	1 (4.17%)	0 (0.00%)	0 (0.00%)
Jul-Dec 2019	5 (18.52%)	19 (70.37%)	3 (11.11%)	0 (0.00%)	0 (0.00%)
Jan-Jun 2020	4 (18.18%)	18 (81.82%)	0 (0.00%)	0 (0.00%)	0 (0.00%)
Jul-Dec 2020	4 (20.00%)	16 (80.00%)	1 (5.00%)	0 (0.00%)	0 (0.00%)
Jan-Jun 2021	4 (14.81%)	22 (81.48%)	0 (0.00%)	1 (3.70%)	0 (0.00%)
Jul-Dec 2021	5 (18.52%)	22 (81.48%)	0 (0.00%)	0 (0.00%)	0 (0.00%)
Jan-Jun 2022	17 (56.67%)	12 (40.00%)	1 (3.33%)	0 (0.00%)	0 (0.00%)
Jul-Dec 2022	21 (60.00%)	13 (37.14%)	1 (2.86%)	0 (0.00%)	0 (0.00%)

Note: The table delineates the prevalence of resistance genes (bla-KPC, bla-NDM, bla-VIM, bla-OXA-48, mcr-1) in K. Pneumoniae multidrug resistant isolates for each six-month interval from January 2019 to December 2022.