

Table 1: Demographic and microbiological characteristics of patients tested and positive cases for *H. pylori*. Data are presented as mean±SD, or number of participants (% of participants).

Parameter		Patients with positive <i>H. pylori</i> culture (n=644)
Age (years)		51.4±15.1
Male sex		281 (43.6%)
Ethnicity	European	77 (12.0%)
	Māori	19 (3.0%)
	Pacific	50 (7.8%)
	Asian	271 (42.1%)
	Other	52 (8.1%)
	Data not available	175 (27.2%)
Year of testing	2018	39 (6.1%)
	2019	86 (13.4%)
	2020	76 (11.8%)
	2021	147 (22.8%)
	2022	166 (25.8%)
	2023	130 (20.2%)
Antibiotic susceptibility testing	Amoxicillin resistance	16/644 (2.5%)
	Metronidazole resistance	441/644 (68.5%)
	Clarithromycin resistance	438/644 (68.0%)
	Tetracycline resistance	0/644 (0.0%)

Table 2: Antibiotic resistance by year. Asterisks denote statistically significant values (p<0.05).

Antibiotic resistance	2018 (n=39)	2019 (n=86)	2020 (n=76)	2021 (n=147)	2022 (n=166)	2023 (n=130)	p-value
Amoxicillin	0/39 (0.0%)	1/86 (1.2%)	0/76 (0.0%)	7/147 (4.8%)	5/166 (3.0%)	3/130 (2.3%)	0.23
Metronidazole	24/39 (61.5%)	61/86 (70.9%)	55/76 (72.4%)	104/147 (70.7%)	112/166 (67.5%)	85/130 (65.4%)	0.75
Clarithromycin	29/39 (74.4%)	61/86 (70.9%)	52/76 (68.4%)	109/147 (74.1%)	108/166 (65.1%)	79/130 (60.8%)	0.19
Tetracycline	0/39 (0.0%)	0/86 (0.0%)	0/76 (0.0%)	0/147 (0.0%)	0/166 (0.0%)	0/130 (0.0%)	>0.99

Table 3: Logistic regression of metronidazole and clarithromycin resistance by demographic factors. Asterisks denote statistically significant values (p<0.05).

		Multivariable-adjusted logistic regression	
		OR (95% CI)	p-value
Metronidazole resistance			
Age (per year)		1.01 (1.00–1.02)	0.18
Male sex		0.47 (0.32–0.72)	<0.001*
Ethnicity	Māori versus European ethnicity	0.31 (0.11–0.92)	0.04*
	Pacific versus European ethnicity	0.36 (0.17–0.80)	0.01*
	Asian versus European ethnicity	1.26 (0.69–2.29)	0.45
	Other versus European ethnicity	1.36 (0.59–3.13)	0.47
Year of testing (per year)		1.01 (0.90–1.14)	0.83
Clarithromycin resistance			
Age (per year)		0.99 (0.97–1.00)	0.08
Male sex		0.73 (0.46–1.15)	0.17
Ethnicity	Māori versus European ethnicity	0.18 (0.06–0.58)	0.003*
	Pacific versus European ethnicity	0.33 (0.15–0.71)	0.005*
	Asian versus European ethnicity	1.99 (1.11–3.57)	0.02*
	Other versus European ethnicity	1.59 (0.69–3.66)	0.28
Year of testing (per year)		0.91 (0.82–1.03)	0.14