

Table 1: National lung cancer projections—total population.

	National	Northern	Te Manawa Taki	Central	Te Waipounamu
2020–2022					
Observed ^a	2,544	872	573	488	611
ASR ^b	28.2 (27.6–28.9)	29.2 (28.0–30.3)	30.3 (28.8–31.8)	27.3 (25.9–28.8)	26.1 (24.9–27.3)
Population ^h	5,110,975	1,923,710	1,012,335	970,830	1,204,100
2035					
Projected ^c	3,239 (3,082–3,397)	1,148 (1,089–1,210)	739 (697–781)	602 (568–636)	751 (709–793)
ASR ^d	25.5 (23.9–27.3)	25.6 (23.9–27.4)	27.9 (25.9–30.0)	25.6 (23.8–27.5)	23.4 (21.8–25.1)
% Change in cases ^e	27.3%	31.7%	29.0%	23.4%	22.9%
Population ^h	5,852,415	2,289,580	1,160,290	1,048,910	1,353,635
2045					
Projected ^c	3,519 (3,275–3,771)	1,280 (1,187–1,379)	803 (743–866)	640 (589–689)	798 (738–861)
ASR ^d	23.6 (21.6–25.7)	23.3 (21.3–25.5)	25.9 (23.6–28.4)	24.0 (21.9–26.3)	21.7 (19.8–23.8)
% Change in cases ^e	38.3%	46.8%	40.1%	31.1%	30.6%
% Annual change cases ^f	1.4%	1.7%	1.5%	1.2%	1.2%
% Change ASR ^g	–16.3%	–20.2%	–14.5%	–12.1%	–16.9%
Population ^h	6,208,355	2,488,585	1,227,125	1,082,925	1,409,720

^a Average observed cases per year over the period.

^b Age-standardised rate (ASR) over the 3-year period with 95% confidence intervals.

^c Projected cases with 95% uncertainty intervals.

^d ASR of projected cases with 95% uncertainty intervals.

^e Total percentage change in cases from observed 2020–2022 average.

^f Annual percentage change represents the compound annual growth rate (CAGR) between the 2020–2022 average and 2045.

^g Total percentage change in the ASR from observed 2020–2022.

^h 2021 estimated resident population, 2035 and 2045 population projection; some figures may not sum to total due to rounding.

Table 2: National lung cancer projections—by sex.

	National	Northern	Te Manawa Taki	Central	Te Waipounamu
Female					
2020–2022					
Observed ^a	1,313	444	299	269	300
ASR ^b	28.1 (27.2–29.0)	28.5 (27.0–30.1)	30.4 (28.3–32.5)	29.0 (26.9–31.1)	24.8 (23.1–26.5)
Population ^h	2,570,115	968,540	510,070	493,290	598,215
2035					
Projected ^c	1,606 (1,525–1,685)	571 (541–602)	370 (349–390)	301 (284–318)	365 (345–386)
ASR ^d	23.7 (22.2–25.4)	23.8 (22.2–25.5)	26.1 (24.2–28.1)	23.8 (22.2–25.6)	21.6 (20.1–23.3)
% Change in cases ^e	22.3%	28.6%	23.7%	11.9%	21.7%
Population ^h	2,938,795	1,152,260	583,410	532,370	670,755
2045					
Projected ^c	1,750 (1,625–1,875)	639 (591–685)	402 (372–432)	320 (295–344)	388 (358–420)
ASR ^d	22.0 (20.1–24.9)	21.7 (19.8–23.8)	24.3 (22.1–26.8)	22.4 (20.3–24.6)	20.0 (18.2–22.0)
% Change in cases ^e	33.3%	43.9%	34.4%	19.0%	29.3%
% Annual change cases ^f	1.3%	1.6%	1.3%	0.8%	1.1%
% Change ASR ^g	–21.7%	–23.9%	–20.1%	–22.8%	–19.4%
Population ^h	3,113,315	1,251,260	615,865	548,600	697,590
Male					
2020–2022					
Observed ^a	1,231	427	274	219	311
ASR ^b	28.7 (27.8–29.7)	30.1 (28.5–31.8)	30.5 (28.4–32.7)	25.8 (23.8–27.9)	27.7 (25.9–29.6)
Population ^h	2,540,860	955,170	502,265	477,540	605,885
2035					
Projected ^c	1,634 (1,548–1,717)	577 (545–610)	370 (348–391)	301 (283–318)	386 (363–408)
ASR ^d	27.5 (25.6–29.4)	27.6 (25.7–29.6)	29.8 (27.6–32.2)	27.6 (25.5–29.7)	25.3 (23.4–27.3)
% Change in cases ^e	32.7%	35.1%	35.0%	37.4%	24.1%

Table 2 (continued): National lung cancer projections—by sex.

	National	Northern	Te Manawa Taki	Central	Te Waipounamu
Population ^h	2,913,620	1,137,320	576,880	516,540	682,880
2045					
Projected ^c	1,772 (1,640–1,902)	640 (593–691)	401 (371–433)	319 (294–345)	410 (379–442)
ASR ^d	25.3 (23.2–27.6)	25.1 (22.9–27.5)	27.7 (25.1–30.4)	25.8 (23.4–28.3)	23.4 (21.2–25.8)
% Change in cases ^e	43.9%	49.9%	46.4%	45.7%	31.8%
% Annual change cases ^f	1.6%	1.8%	1.7%	1.6%	1.2%
% Change ASR ^g	–11.8%	–16.6%	–9.2%	0.0%	–15.5%
Population ^h	3,095,035	1,237,325	611,260	534,325	712,125

^a Average observed cases per year over the period.

^b Age-standardised rate (ASR) over the 3-year period with 95% confidence intervals.

^c Projected cases with 95% uncertainty intervals.

^d ASR of projected cases with 95% uncertainty intervals.

^e Total percentage change in cases from observed 2020–2022 average.

^f Annual percentage change represents the compound annual growth rate (CAGR) between the 2020–2022 average and 2045.

^g Total percentage change in the ASR from observed 2020–2022.

^h 2021 estimated resident population, 2035 and 2045 population projection; some figures may not sum to total due to rounding.

Table 3: National projections by ethnicity—total population.

	Māori	Pacific peoples	Asian	European/Other
2020–2022				
Observed ^a	570	129	153	1,693
ASR ^b	73.0 (69.6–76.6)	41.7 (37.6–46.1)	19.5 (17.8–21.4)	22.9 (22.2–23.6)
Population ^h	872,710	354,160	817,725	3,066,380
2035				
Projected ^c	885 (838–934)	199 (186–215)	331 (306–354)	1,825 (1,728–1,917)
ASR ^d	66.9 (62.3–71.8)	36.1 (33.2–39.4)	16.5 (15.1–17.9)	20.0 (18.7–21.4)
% Change in cases ^e	55.3%	54.3%	116.3%	7.8%
Population ^h	1,083,520	436,565	1,439,590	2,892,740
2045				
Projected ^c	1,063 (981–1,145)	245 (226–268)	477 (435–520)	1,736 (1,609–1,869)
ASR ^d	60.6 (55.3–66.2)	32.7 (29.6–36.3)	15.0 (13.4–16.5)	18.1 (16.6–19.8)
% Change in cases ^e	86.5%	89.9%	211.8%	2.5%
% Annual change cases ^f	2.7%	2.8%	5.1%	0.1%
% Change ASR ^g	–17.0%	–21.6%	–23.1%	–21.0%
Population ^h	1,250,820	479,535	1,755,565	2,722,430

^a Average observed cases per year over the period.

^b Age-standardised rate (ASR) over the 3-year period with 95% confidence intervals.

^c Projected cases with 95% uncertainty intervals.

^d ASR of projected cases with 95% uncertainty intervals.

^e Total percentage change in cases from observed 2020–2022 average.

^f Annual percentage change represents the compound annual growth rate (CAGR) between the 2020–2022 average and 2045.

^g Total percentage change in the ASR from observed 2020–2022.

^h 2021 estimated resident population, 2035 and 2045 population projection; some figures may not sum to total due to rounding.

Table 4: National projections—by ethnicity and sex.

	Māori	Pacific peoples	Asian	European/Other
Female				
2020–2022				
Observed ^a	330	60	68	855
ASR ^b	79.7 (74.7–84.8)	36.5 (31.4–42.2)	16.2 (14.1–18.7)	22.5 (21.6–23.5)
Population ^h	438,630	175,435	414,190	1,541,860
2035				
Projected ^c	444 (418–468)	96 (90–104)	168 (156–180)	899 (852–944)
ASR ^d	61.2 (57.7–66.8)	33.4 (30.7–36.6)	15.3 (14.0–16.7)	18.6 (17.3–19.9)
% Change in cases ^e	34.5%	60.0%	147.1%	5.1%
Population ^h	543,550	216,575	725,800	1,452,870
2045				
Projected ^c	534 (495–575)	118 (108–129)	239 (217–260)	858 (796–922)
ASR ^d	56.2 (51.3–61.6)	30.2 (27.3–33.7)	13.9 (12.5–15.4)	16.8 (15.3–18.4)
% Change in cases ^e	61.8%	96.7%	251.5%	0.4%
% Annual change cases ^f	2.1%	3.0%	5.6%	0.0%
% Change ASR ^g	–29.5%	–17.3%	–14.2%	–25.3%
Population ^h	626,225	238,430	881,000	1,367,655
Male				
2020–2022				
Observed ^a	240	68	85	838
ASR ^b	65.7 (60.9–70.8)	48.4 (41.8–55.7)	23.6 (20.8–26.7)	23.6 (22.6–24.5)
Population ^h	434,080	178,725	403,535	1,524,520
2035				
Projected ^c	443 (419–467)	103 (96–111)	162 (150–174)	926 (875–974)
ASR ^d	72.5 (67.3–78.0)	38.9 (35.8–42.6)	17.9 (16.3–19.5)	21.6 (20.2–23.2)
% Change in cases ^e	84.6%	51.5%	90.6%	10.5%
Population ^h	539,970	219,990	713,790	1,439,870
2045				
Projected ^c	529 (488–570)	127 (117–139)	237 (216–259)	879 (814–945)

Table 4 (continued): National projections—by ethnicity and sex.

	Māori	Pacific peoples	Asian	European/Other
ASR ^d	65.6 (59.7–72.0)	35.2 (31.8–39.2)	16.2 (14.5–18.0)	19.6 (17.9–21.4)
% Change in cases ^e	120.4%	86.8%	178.8%	4.9%
% Annual change cases ^f	3.5%	2.8%	4.6%	0.2%
% Change ASR ^g	–0.2%	–27.3%	–31.4%	–16.9%
Population ^h	624,495	241,105	874,560	1,354,775

^a Average observed cases per year over the period.

^b Age-standardised rate (ASR) over the 3-year period with 95% confidence intervals.

^c Projected cases with 95% uncertainty intervals.

^d ASR of projected cases with 95% uncertainty intervals.

^e Total percentage change in cases from observed 2020–2022 average.

^f Annual percentage change represents the compound annual growth rate (CAGR) between the 2020–2022 average and 2045.

^g Total percentage change in the ASR from observed 2020–2022.

^h 2021 estimated resident population, 2035 and 2045 population projection; some figures may not sum to total due to rounding.