

Appendix

Appendix 1: Procedures included as lung surgeries.

Procedure name	ICD-10 code
Endoscopic wedge resection of lung	9016900
Lobectomy of lung	3843801
Pneumonectomy	3843802
Radical lobectomy	3844100
Radical pneumonectomy	3844101
Radical wedge resection of lung	3844001
Segmental resection of lung	3843800
Wedge resection of lung	3844000

Appendix 2: Number of lung cancer registrations, crude rate per 100,000 New Zealanders, and age-standardised rate per 100,000 New Zealanders with 95% confidence intervals, by year, separately for Māori and non-Māori/non-Pacific New Zealanders.

		Māori				non-Māori/non-Pacific			
		Cases		Cumulative rate		Cases		Cumulative rate	
		Monthly	Cumulative	Crude	Age-standardised	Monthly	Cumulative	Crude	Age-standardised
		<i>N</i>	<i>n</i>	<i>n/100,000</i>	<i>n/100,000 (95% CI)</i>	<i>n</i>	<i>n</i>	<i>n/100,000</i>	<i>n/100,000 (95% CI)</i>
January	2018	41	41	5.1	3.1 (2.3-4.3)	131	131	3.5	0.9 (0.7-1.1)
	2019	34	34	4.2	2.4 (1.7-3.4)	132	132	3.5	0.9 (0.7-1.1)
	2020	46	46	5.6	3.1 (2.3-4.2)	137	137	3.6	0.9 (0.8-1.2)
February	2018	33	74	9.3	5.5 (4.4-7)	134	265	7.1	1.9 (1.6-2.3)
	2019	38	72	8.8	5.1 (4-6.5)	169	301	8	2 (1.7-2.3)
	2020	24	70	8.5	4.7 (3.7-6)	147	284	7.4	1.9 (1.6-2.2)
March	2018	45	119	14.9	9 (7.5-10.8)	140	405	10.9	2.9 (2.5-3.3)
	2019	42	114	14	8.1 (6.7-9.8)	151	452	12	2.9 (2.5-3.2)
	2020	38	108	13	7.2 (5.9-8.7)	149	433	11.3	2.9 (2.6-3.3)
April	2018	31	150	18.8	11.3 (9.6-13.3)	116	521	14	3.7 (3.3-4.2)
	2019	49	163	20	11.5 (9.9-13.5)	141	593	15.7	3.7 (3.3-4.1)
	2020	39	147	17.8	9.7 (8.2-11.4)	121	554	14.5	3.7 (3.3-4.1)

Appendix 2 (continued): Number of lung cancer registrations, crude rate per 100,000 New Zealanders, and age-standardised rate per 100,000 New Zealanders with 95% confidence intervals, by year, separately for Māori and non-Māori/non-Pacific New Zealanders.

		Māori				non-Māori/non-Pacific			
		Cases		Cumulative rate		Cases		Cumulative rate	
		Monthly	Cumulative	Crude	Age-standardised	Monthly	Cumulative	Crude	Age-standardised
		<i>N</i>	<i>n</i>	<i>n/100,000</i>	<i>n/100,000 (95% CI)</i>	<i>n</i>	<i>n</i>	<i>n/100,000</i>	<i>n/100,000 (95% CI)</i>
May	2018	51	201	25.1	15.1 (13.1–17.4)	150	671	18	4.8 (4.3–5.3)
	2019	45	208	25.6	14.8 (12.9–17)	141	734	19.4	4.8 (4.3–5.3)
	2020	40	187	22.6	12.4 (10.7–14.3)	157	711	18.6	4.8 (4.3–5.3)
June	2018	54	255	31.9	19 (16.7–21.5)	147	818	22	5.8 (5.3–6.4)
	2019	42	250	30.7	17.9 (15.7–20.3)	115	849	22.5	5.5 (5–6)
	2020	37	224	27.1	14.8 (12.9–16.9)	150	861	22.5	5.7 (5.2–6.3)
July	2018	38	293	36.7	21.7 (19.3–24.4)	155	973	26.1	6.9 (6.3–7.5)
	2019	43	293	36	21 (18.7–23.6)	150	999	26.4	6.6 (6–7.1)
	2020	36	260	31.4	17.4 (15.4–19.7)	147	1,008	26.3	6.8 (6.2–7.3)
August	2018	48	341	42.7	25.1 (22.6–28)	144	1,117	30	7.9 (7.3–8.6)
	2019	45	338	41.5	24.2 (21.7–27)	153	1,152	30.5	7.6 (7–8.2)
	2020	55	315	38	21 (18.7–23.5)	129	1,137	29.7	7.6 (7–8.2)

Appendix 2 (continued): Number of lung cancer registrations, crude rate per 100,000 New Zealanders, and age-standardised rate per 100,000 New Zealanders with 95% confidence intervals, by year, separately for Māori and non-Māori/non-Pacific New Zealanders.

		Māori				non-Māori/non-Pacific			
		Cases		Cumulative rate		Cases		Cumulative rate	
		Monthly	Cumulative	Crude	Age-standardised	Monthly	Cumulative	Crude	Age-standardised
		<i>N</i>	<i>n</i>	<i>n/100,000</i>	<i>n/100,000 (95% CI)</i>	<i>n</i>	<i>n</i>	<i>n/100,000</i>	<i>n/100,000 (95% CI)</i>
September	2018	52	393	49.2	29.1 (26.3–32.2)	148	1,265	34	8.8 (8.1–9.4)
	2019	36	374	45.9	26.7 (24–29.6)	125	1,277	33.8	8.4 (7.8–9.1)
	2020	41	356	43	23.6 (21.2–26.2)	150	1,287	33.6	8.4 (7.8–9.1)
October	2018	40	433	54.2	32 (29–35.2)	168	1,433	38.5	9.9 (9.3–10.7)
	2019	33	407	50	29 (26.2–32)	144	1,421	37.6	9.4 (8.8–10.1)
	2020	45	401	48.4	26.8 (24.3–29.6)	158	1,445	37.8	9.4 (8.8–10.1)
November	2018	39	472	59.1	35 (31.9–38.4)	172	1,605	43.1	11.1 (10.4–11.9)
	2019	37	444	54.5	31.7 (28.8–34.8)	139	1,560	41.3	10.3 (9.6–11)
	2020	44	445	53.7	29.7 (27–32.7)	120	1,565	40.9	10.2 (9.6–10.9)
December	2018	42	514	64.3	38 (34.8–41.5)	151	1,756	47.2	12.1 (11.4–12.9)
	2019	39	483	59.3	34.3 (31.3–37.6)	151	1,711	45.3	11.3 (10.6–12)
	2020	55	500	60.4	33.4 (30.6–36.6)	150	1,715	44.8	11.1 (10.4–11.8)

Appendix 3: Number of bronchoscopies, crude rate per 100,000 New Zealanders, and age-standardised rate per 100,000 New Zealanders with 95% confidence intervals, by year, separately for Māori and non-Māori/non-Pacific New Zealanders.

		Māori				non-Māori/non-Pacific			
		Cases		Cumulative rate		Cases		Cumulative rate	
		Monthly	Cumulative	Crude	Age-standardised	Monthly	Cumulative	Crude	Age-standardised
		<i>n</i>	<i>n</i>	<i>n/100,000</i>	<i>n/100,000 (95% CI)</i>	<i>n</i>	<i>n</i>	<i>n/100,000</i>	<i>n/100,000</i>
January	2018	25	25	3.1	2.1 (1.4–3.1)	166	166	4.5	1.8 (1.5–2.2)
	2019	40	40	4.9	3 (2.2–4.2)	178	178	4.7	2.5 (2–3.1)
	2020	34	34	4.1	2.6 (1.8–3.7)	157	157	4.1	1.8 (1.5–2.2)
February	2018	25	50	6.3	4.1 (3.1–5.5)	144	310	8.3	3.6 (3–4.1)
	2019	39	79	9.7	6.4 (5.1–8.1)	174	352	9.3	4.9 (4.2–5.6)
	2020	31	65	7.9	4.9 (3.8–6.4)	155	312	8.2	3.7 (3.2–4.3)
March	2018	28	78	9.8	6.3 (5–7.9)	166	476	12.8	5.6 (5–6.4)
	2019	32	111	13.6	9 (7.4–10.9)	175	527	13.9	6.8 (6.1–7.7)
	2020	24	89	10.7	6.8 (5.4–8.4)	167	479	12.5	5.6 (5–6.4)
April	2018	20	98	12.3	7.9 (6.4–9.7)	137	613	16.5	7.3 (6.5–8.1)
	2019	29	140	17.2	11.2 (9.4–13.3)	198	725	19.2	9.4 (8.5–10.3)
	2020	5	94	11.4	7.1 (5.7–8.8)	52	531	13.9	6.3 (5.6–7.1)
May	2018	43	141	17.6	11.2 (9.5–13.3)	176	789	21.2	9.5 (8.6–10.4)
	2019	43	183	22.5	14.7 (12.6–17.1)	230	955	25.3	12.2 (11.1–13.3)
	2020	24	118	14.3	9 (7.5–10.9)	152	683	17.9	8 (7.2–8.9)

Appendix 3 (continued): Number of bronchoscopies, crude rate per 100,000 New Zealanders, and age-standardised rate per 100,000 New Zealanders with 95% confidence intervals, by year, separately for Māori and non-Māori/non-Pacific New Zealanders.

		Māori				non-Māori/non-Pacific			
		Cases		Cumulative rate		Cases		Cumulative rate	
		Monthly	Cumulative	Crude	Age-standardised	Monthly	Cumulative	Crude	Age-standardised
		<i>n</i>	<i>n</i>	<i>n/100,000</i>	<i>n/100,000</i> (95% CI)	<i>n</i>	<i>n</i>	<i>n/100,000</i>	<i>n/100,000</i>
June	2018	32	173	21.6	13.7 (11.8–16)	171	960	25.8	11.5 (10.5–12.5)
	2019	25	208	25.6	16.8 (14.6–19.4)	137	1,092	28.9	13.6 (12.6–14.8)
	2020	25	143	17.3	11.1 (9.3–13.2)	170	853	22.3	10.1 (9.2–11.1)
July	2018	31	204	25.5	16.3 (14.1–18.8)	167	1,127	30.3	13.3 (12.2–14.4)
	2019	34	242	29.7	19.8 (17.4–22.6)	174	1,266	33.5	15.8 (14.7–17.1)
	2020	32	175	21.1	13.8 (11.8–16.1)	181	1,034	27	12.3 (11.3–13.4)
August	2018	38	242	30.3	19.4 (17.1–22.1)	184	1,311	35.2	15.6 (14.5–16.8)
	2019	45	287	35.3	23.5 (20.8–26.5)	168	1,434	38	18.2 (17–19.6)
	2020	31	206	24.9	16.1 (14–18.7)	156	1,190	31.1	14 (13–15.2)
September	2018	37	279	34.9	22.6 (20–25.5)	155	1,466	39.4	17.5 (16.3–18.7)
	2019	33	320	39.3	26.4 (23.5–29.6)	182	1,616	42.8	20.5 (19.1–21.9)
	2020	37	243	29.3	18.9 (16.6–21.6)	191	1,381	36.1	16.2 (15.1–17.4)

Appendix 3 (continued): Number of bronchoscopies, crude rate per 100,000 New Zealanders, and age-standardised rate per 100,000 New Zealanders with 95% confidence intervals, by year, separately for Māori and non-Māori/non-Pacific New Zealanders.

		Māori				non-Māori/non-Pacific			
		Cases		Cumulative rate		Cases		Cumulative rate	
		Monthly	Cumulative	Crude	Age-standardised	Monthly	Cumulative	Crude	Age-standardised
		<i>n</i>	<i>n</i>	<i>n/100,000</i>	<i>n/100,000 (95% CI)</i>	<i>n</i>	<i>n</i>	<i>n/100,000</i>	<i>n/100,000</i>
October	2018	33	312	39	25.3 (22.5–28.3)	182	1,648	44.3	20 (18.7–21.3)
	2019	35	355	43.6	29.1 (26.1–32.5)	200	1,816	48.1	22.5 (21.1–24)
	2020	20	263	31.8	20.4 (17.9–23.2)	167	1,548	40.5	18.3 (17.1–19.7)
November	2018	43	355	44.4	29.1 (26.1–32.5)	214	1,862	50	22.7 (21.4–24.2)
	2019	40	395	48.5	32.2 (29–35.7)	175	1,991	52.7	24.9 (23.5–26.5)
	2020	35	298	36	23.1 (20.5–26.1)	181	1,729	45.2	20.4 (19.1–21.8)
December	2018	28	383	47.9	31.2 (28.1–34.6)	188	2,050	55.1	25.2 (23.7–26.8)
	2019	23	418	51.4	34.1 (30.8–37.7)	175	2,166	57.3	27.1 (25.6–28.7)
	2020	44	342	41.3	26.4 (23.6–29.6)	193	1,922	50.2	22.6 (21.3–24.1)

Appendix 4: Number of lung surgeries among those with a lung cancer diagnosis, crude rate per 100,000 New Zealanders, and age-standardised rate per 100,000 New Zealanders with 95% confidence intervals, by year, separately for Māori and non-Māori/non-Pacific New Zealanders.

		Māori				non-Māori/non-Pacific			
		Cases		Cumulative rate		Cases		Cumulative rate	
		Monthly	Cumulative	Crude	Age-standardised	Monthly	Cumulative	Crude	Age-standardised
		<i>n</i>	<i>n</i>	<i>n</i> /100,000	<i>n</i> /100,000 (95% CI)	<i>n</i>	<i>n</i>	<i>n</i> /100,000	<i>n</i> /100,000 (95% CI)
January	2018	5	5	0.6	0.4 (0.1–0.9)	16	16	0.4	0.1 (0.1–0.3)
	2019	1	1	0.1	0.1 (0–0.5)	17	17	0.4	0.1 (0.1–0.3)
	2020	1	1	0.1	0.1 (0–0.5)	20	20	0.5	0.2 (0.1–0.4)
February	2018	6	11	1.4	0.9 (0.5–1.6)	23	39	1	0.3 (0.2–0.5)
	2019	3	4	0.5	0.3 (0.1–0.8)	27	44	1.2	0.4 (0.2–0.5)
	2020	3	4	0.5	0.3 (0.1–0.7)	19	39	1	0.3 (0.2–0.5)
March	2018	2	13	1.6	1 (0.6–1.8)	24	63	1.7	0.6 (0.4–0.8)
	2019	6	10	1.2	0.7 (0.4–1.3)	33	77	2	0.6 (0.5–0.8)
	2020	5	9	1.1	0.6 (0.3–1.2)	30	69	1.8	0.5 (0.4–0.8)
April	2018	5	18	2.3	1.4 (0.9–2.2)	16	79	2.1	0.8 (0.6–1)
	2019	4	14	1.7	1.1 (0.6–1.8)	26	103	2.7	0.9 (0.7–1.2)
	2020	7	16	1.9	1.1 (0.7–1.8)	33	102	2.7	0.8 (0.6–1.1)
May	2018	4	22	2.8	1.6 (1.1–2.5)	24	103	2.8	0.9 (0.7–1.2)
	2019	5	19	2.3	1.4 (0.9–2.3)	17	120	3.2	1.1 (0.8–1.4)
	2020	5	21	2.5	1.4 (0.9–2.2)	32	134	3.5	1.1 (0.9–1.4)

Appendix 4 (continued): Number of lung surgeries among those with a lung cancer diagnosis, crude rate per 100,000 New Zealanders, and age-standardised rate per 100,000 New Zealanders with 95% confidence intervals, by year, separately for Māori and non-Māori/non-Pacific New Zealanders.

		Māori				non-Māori/non-Pacific			
		Cases		Cumulative rate		Cases		Cumulative rate	
		Monthly	Cumulative	Crude	Age-standardised	Monthly	Cumulative	Crude	Age-standardised
		<i>n</i>	<i>n</i>	<i>n/100,000</i>	<i>n/100,000 (95% CI)</i>	<i>n</i>	<i>n</i>	<i>n/100,000</i>	<i>n/100,000 (95% CI)</i>
June	2018	8	30	3.8	2.3 (1.6–3.2)	17	120	3.2	1.2 (0.9–1.5)
	2019	2	21	2.6	1.5 (1–2.4)	23	143	3.8	1.2 (1–1.6)
	2020	3	24	2.9	1.6 (1.1–2.4)	23	157	4.1	1.3 (1.1–1.7)
July	2018	7	37	4.6	2.8 (2–3.9)	23	143	3.8	1.4 (1.1–1.7)
	2019	4	25	3.1	1.9 (1.3–2.8)	23	166	4.4	1.4 (1.1–1.7)
	2020	0	24	2.9	1.6 (1.1–2.4)	22	179	4.7	1.5 (1.2–1.9)
August	2018	4	41	5.1	3.1 (2.3–4.2)	32	175	4.7	1.7 (1.4–2.1)
	2019	6	31	3.8	2.3 (1.6–3.3)	39	205	5.4	1.7 (1.4–2.1)
	2020	4	28	3.4	1.8 (1.3–2.7)	18	197	5.1	1.7 (1.4–2)
September	2018	8	49	6.1	3.7 (2.8–4.9)	18	193	5.2	1.8 (1.5–2.2)
	2019	9	40	4.9	3 (2.2–4.1)	31	236	6.2	2.1 (1.7–2.5)
	2020	3	31	3.7	2.1 (1.4–2.9)	25	222	5.8	1.9 (1.5–2.2)
October	2018	8	57	7.1	4.2 (3.3–5.5)	23	216	5.8	2 (1.7–2.4)
	2019	4	44	5.4	3.2 (2.4–4.3)	31	267	7.1	2.3 (1.9–2.7)
	2020	5	36	4.3	2.4 (1.7–3.3)	28	250	6.5	2.1 (1.8–2.5)

Appendix 4 (continued): Number of lung surgeries among those with a lung cancer diagnosis, crude rate per 100,000 New Zealanders, and age-standardised rate per 100,000 New Zealanders with 95% confidence intervals, by year, separately for Māori and non-Māori/non-Pacific New Zealanders.

		Māori				non-Māori/non-Pacific			
		Cases		Cumulative rate		Cases		Cumulative rate	
		Monthly	Cumulative	Crude	Age-standardised	Monthly	Cumulative	Crude	Age-standardised
		<i>n</i>	<i>n</i>	<i>n/100,000</i>	<i>n/100,000 (95% CI)</i>	<i>n</i>	<i>n</i>	<i>n/100,000</i>	<i>n/100,000 (95% CI)</i>
November	2018	8	65	8.1	5 (3.9–6.4)	15	231	6.2	2.1 (1.8–2.6)
	2019	8	52	6.4	3.8 (2.8–5)	19	286	7.6	2.5 (2.1–2.9)
	2020	5	41	5	2.8 (2–3.8)	17	267	7	2.2 (1.9–2.6)
December	2018	2	67	8.4	5.1 (4–6.5)	23	254	6.8	2.3 (2–2.7)
	2019	2	54	6.6	3.9 (3–5.1)	25	311	8.2	2.7 (2.3–3.1)
	2020	6	47	5.7	3.2 (2.4–4.3)	30	297	7.8	2.4 (2–2.8)