



**TE AHO  
O TE KAHU**  
CANCER  
CONTROL  
AGENCY

# **COVID-19 and cancer services: DHB figures**

## **Report 2**

Working report on the impact of COVID-19 on cancer services by DHB  
for the period ending May 2020

**June 2020**

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# Introduction

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## Purpose of this report

This report is a follow up to the report released by Te Aho o Te Kahu on 28 May 2020, which outlined the impact of COVID-19 and the lockdown on cancer services in New Zealand. The first report presented data until the end April 2020, this report looks at data through to the end of May 2020.

The report focuses on the aspects of the cancer care pathway for which we have readily available data and does not capture all aspects of the care. Critical aspects of cancer care, including access to primary care, radiology and palliative care are not measured in this report.

## Data and analysis

The data in this report and accompanying spreadsheets comes from Ministry of Health national data collections. Each section of the report includes information on where the data is from and any limitations with the data. Each table presents the cumulative January to April figures for 2018, 2019 and 2020, with the number and percentage difference between 2019 and 2020. Percentage differences are only presented if the cumulative 2019 total is 10 or greater. More detailed figures corresponding to each section are provided in the attached spreadsheets. In some cases, the grand totals may differ slightly to those presented in the earlier national report. This is due to non-DHB providers being excluded from the analyses within this report.

It is important to note that a purpose of the analysis was to rapidly measure the impact of COVID-19 and the lockdown on cancer services and does not take into account pre-existing unmet need. The report also makes direct comparisons between 2020 and 2019 and does not consider any projected increase in diagnoses over time. The report focused on data that was rapidly available and is not a complete review of the cancer pathway. Several key aspects of care, including primary care, radiology and palliative care are not captured in this report.

## Key dates

This report focuses on the lockdown period. Key dates over this time include:

- 23 March: alert level 3 and hospital alert level framework released
- 26 March: alert level 4
- 28 April: alert level 3
- 14 May: alert level 2
- 9 June: alert level 1

# Cancer events/registrations

## Notes on data

- Registration event data (including provisional/pre-registration events) were extracted from the New Zealand Cancer Registry on 29 June 2020.
- Note that these numbers differ from the earlier national report as we have added data from the missing laboratory in Auckland and corrected an error in one of the extract dates.
- Technical information: Only includes registrations from laboratory sources (pathology and haematology).

	Total					Māori					European/Other				
	Cumulative number for Jan to May			Difference between 2019 and 2020		Cumulative number for Jan to May			Difference between 2019 and 2020		Cumulative number for Jan to May			Difference between 2019 and 2020	
	2018	2019	2020	Number	%	2018	2019	2020	Number	%	2018	2019	2020	Number	%
Northland	458	440	442	2	0.5	88	69	85	16	23.2	360	358	345	-13	-3.6
Waitemata	1275	1254	1203	-51	-4.1	51	59	70	11	18.6	1079	1042	949	-93	-8.9
Auckland	901	885	834	-51	-5.8	39	40	28	-12	-30	687	658	632	-26	-4
Counties Manukau	823	885	871	-14	-1.6	79	102	112	10	9.8	528	542	497	-45	-8.3
Waikato	921	935	832	-103	-11	126	144	105	-39	-27.1	742	751	680	-71	-9.5
Bay of Plenty	578	602	592	-10	-1.7	65	79	77	-2	-2.5	506	510	502	-8	-1.6
Tairāwhiti	93	114	93	-21	-18.4	26	42	43	1	2.4	67	71	49	-22	-31
Lakes	187	237	234	-3	-1.3	51	49	54	5	10.2	130	175	165	-10	-5.7
Taranaki	300	244	294	50	20.5	28	23	26	3	13	264	219	262	43	19.6
Hawke's Bay	388	383	335	-48	-12.5	54	61	51	-10	-16.4	316	306	272	-34	-11.1
Whanganui	180	203	205	2	1	20	35	19	-16	-45.7	155	165	181	16	9.7
MidCentral	466	383	423	40	10.4	45	30	38	8	26.7	412	334	362	28	8.4
Capital & Coast	569	532	491	-41	-7.7	38	42	40	-2	-4.8	462	437	387	-50	-11.4
Hutt Valley	263	283	296	13	4.6	29	38	30	-8	-21.1	215	211	238	27	12.8
Wairarapa	118	107	105	-2	-1.9	12	5	13	8		105	100	87	-13	-13
Nelson Marlborough	406	405	388	-17	-4.2	19	21	13	-8	-38.1	379	373	367	-6	-1.6
West Coast	72	77	65	-12	-15.6	4	4	4	0		68	72	60	-12	-16.7
Canterbury	1088	1076	1062	-14	-1.3	55	42	66	24	57.1	969	978	934	-44	-4.5
South Canterbury	129	141	136	-5	-3.5	5	4	6	2		120	136	128	-8	-5.9
Southern	677	802	643	-159	-19.8	24	48	34	-14	-29.2	634	741	590	-151	-20.4
Total	9892	9988	9544	-444	-4.4	858	937	914	-23	-2.5%	8198	8179	7687	-492	-6.0%

# Bronchoscopy

## Notes on data

- Bronchoscopy data were extracted from National Non-admitted Patient Collection (outpatient) and National Minimum Dataset (inpatient) on the 29th June 2020.
- Includes bronchoscopies for any indication (i.e. not just cancer).
- Technical information: Bronchoscopies (Purchase Unit Code - MS02003).
- Excludes non-DHB providers.

	Total					Māori					Non-Māori / Non-Pacific				
	Cumulative number for Jan to May			Difference between 2019 and 2020		Cumulative number for Jan to May			Difference between 2019 and 2020		Cumulative number for Jan to May			Difference between 2019 and 2020	
	2018	2019	2020	Number	%	2018	2019	2020	Number	%	2018	2019	2020	Number	%
Northland	37	31	23	-8	-26%	11	10	9	-1	-10%	25	21	13	-8	-38%
Waitemata	63	71	60	-11	-15%	2	3	6	3	-	58	68	51	-17	-25%
Auckland	119	172	123	-49	-28%	10	18	16	-2	-11%	97	143	93	-50	-35%
Counties Manukau	134	147	125	-22	-15%	30	24	10	-14	-58%	87	100	97	-3	-3%
Waikato	111	122	71	-51	-42%	23	30	16	-14	-47%	85	90	54	-36	-40%
Bay of Plenty	57	85	51	-34	-40%	12	20	14	-6	-30%	45	63	37	-26	-41%
Lakes	28	40	30	-10	-25%	11	11	12	1	9%	17	28	17	-11	-39%
Tairāwhiti	0	1	11	10	-	0	0	4	4	-	0	1	7	6	-
Taranaki	18	22	14	-8	-36%	3	6	0	-6	-	15	16	14	-2	-13%
Whanganui	3	9	6	-3	-	0	4	1	-3	-	3	5	5	0	-
Hawke's Bay	30	37	15	-22	-59%	8	9	2	-7	-	22	27	12	-15	-56%
MidCentral	21	14	7	-7	-50%	3	3	1	-2	-	18	11	6	-5	-45%
Hutt Valley	33	56	32	-24	-43%	5	10	5	-5	-50%	26	46	26	-20	-43%
Capital & Coast	43	39	23	-16	-41%	5	5	3	-2	-	35	33	19	-14	-42%
Nelson Marlborough	31	29	33	4	14%	4	4	4	0	-	27	25	29	4	16%
Canterbury	140	184	153	-31	-17%	9	20	7	-13	-65%	130	163	141	-22	-13%
South Canterbury	6	4	8	4	-	0	1	0	-1	-	6	3	8	5	-
Southern	98	117	50	-67	-57%	7	11	8	-3	-27%	91	103	42	-61	-59%
<b>Grand Total</b>	<b>972</b>	<b>1180</b>	<b>835</b>	<b>-345</b>	<b>-29%</b>	<b>143</b>	<b>189</b>	<b>118</b>	<b>-71</b>	<b>-38%</b>	<b>787</b>	<b>946</b>	<b>671</b>	<b>-275</b>	<b>-29%</b>

# Gastrointestinal endoscopy

## Notes on data

- Data were extracted from National Non-admitted Patient Collection (outpatient) and National Minimum Dataset (inpatient) on 29 June 2020.
- Includes colonoscopies and gastroscopies for all indications (i.e. not just cancer).
- Technical information: Gastroscopies (Purchase Unit Code - MS02005), Colonoscopies (Purchase Unit Code - MS02007), Combined Gastroscopies + Colonoscopies (Purchase Unit Code - MS02014).
- Excludes non-DHB providers

	Total					Māori					Non-Māori / Non-Pacific				
	Cumulative number for Jan to May			Difference between 2019 and 2020		Cumulative number for Jan to May			Difference between 2019 and 2020		Cumulative number for Jan to May			Difference between 2019 and 2020	
	2018	2019	2020	Number	%	2018	2019	2020	Number	%	2018	2019	2020	Number	%
Northland	1436	1738	1071	-667	-38%	237	315	195	-120	-38%	1195	1407	865	-542	-39%
Waitemata	3276	3741	3044	-697	-19%	172	217	168	-49	-23%	2989	3405	2742	-663	-19%
Auckland	2520	2585	1886	-699	-27%	127	119	113	-6	-5%	2238	2289	1615	-674	-29%
Counties Manukau	3105	3561	3961	400	11%	289	339	400	61	18%	2435	2750	3021	271	10%
Waikato	2182	2595	2242	-353	-14%	271	304	254	-50	-16%	1876	2259	1953	-306	-14%
Bay of Plenty	1887	1889	1616	-273	-14%	209	236	216	-20	-8%	1669	1648	1395	-253	-15%
Lakes	811	765	617	-148	-19%	149	137	115	-22	-16%	651	618	488	-130	-21%
Tairāwhiti	275	298	232	-66	-22%	74	89	73	-16	-18%	199	206	155	-51	-25%
Taranaki	792	750	605	-145	-19%	80	86	44	-42	-49%	709	659	556	-103	-16%
Whanganui	561	624	442	-182	-29%	87	80	56	-24	-30%	474	542	382	-160	-30%
Hawke's Bay	1023	1176	954	-222	-19%	109	128	121	-7	-5%	902	1030	819	-211	-20%
MidCentral	847	878	836	-42	-5%	46	60	79	19	32%	792	810	750	-60	-7%
Hutt Valley	943	1208	1136	-72	-6%	73	91	123	32	35%	837	1086	973	-113	-10%
Wairarapa	360	428	307	-121	-28%	29	39	30	-9	-23%	324	387	274	-113	-29%
Capital & Coast	1195	1158	1190	32	3%	91	57	95	38	67%	1056	1045	1050	5	0%
Nelson Marlborough	205	945	888	-57	-6%	8	49	50	1	2%	195	893	830	-63	-7%
West Coast	259	249	257	8	3%	19	14	7	-7	-50%	239	234	248	14	6%
Canterbury	2471	3778	2749	-1029	-27%	140	222	151	-71	-32%	2292	3504	2551	-953	-27%
South Canterbury	460	481	435	-46	-10%	21	20	17	-3	-15%	439	461	417	-44	-10%
Southern	1774	1945	1088	-857	-44%	71	100	68	-32	-32%	1696	1830	1011	-819	-45%
<b>Grand Total</b>	<b>26382</b>	<b>30792</b>	<b>25556</b>	<b>-5236</b>	<b>-17%</b>	<b>2302</b>	<b>2702</b>	<b>2375</b>	<b>-327</b>	<b>-12%</b>	<b>23207</b>	<b>27063</b>	<b>22095</b>	<b>-4968</b>	<b>-18%</b>

# Colorectal cancer surgery

## Notes on data

- A list of the surgical procedure codes used for analysis are included in Appendix 1.
- The data was extracted from the National Minimum Dataset on 29 June 2020.
- Excludes non-DHB providers.

	Total					Māori					Non-Māori / Non-Pacific				
	Cumulative number for Jan to May			Difference between 2019 and 2020		Cumulative number for Jan to May			Difference between 2019 and 2020		Cumulative number for Jan to May			Difference between 2019 and 2020	
	2018	2019	2020	Number	%	2018	2019	2020	Number	%	2018	2019	2020	Number	%
Northland	31	46	34	-12	-26%	6	8	8	0	-	25	38	26	-12	-32%
Waitemata	116	109	89	-20	-18%	8	9	6	-3	-	105	91	80	-11	-12%
Auckland	76	80	77	-3	-4%	4	6	8	2	-	66	65	65	0	0%
Counties Manukau	67	49	64	15	31%	5	4	11	7	-	55	42	45	3	7%
Waikato	88	93	102	9	10%	9	6	16	10	-	78	86	85	-1	-1%
Bay of Plenty	62	64	82	18	28%	11	6	12	6	-	51	57	70	13	23%
Lakes	27	33	28	-5	-15%	3	6	5	-1	-	24	27	23	-4	-15%
Tairāwhiti	9	14	13	-1	-7%	4	2	3	1	-	5	12	10	-2	-17%
Taranaki	37	31	29	-2	-6%	4	3	4	1	-	33	28	25	-3	-11%
Whanganui	25	21	20	-1	-5%	2	1	2	1	-	23	20	18	-2	-10%
Hawke's Bay	67	65	53	-12	-18%	11	5	6	1	-	56	59	45	-14	-24%
MidCentral	52	44	48	4	9%	5	1	5	4	-	47	42	43	1	2%
Hutt Valley	24	24	17	-7	-29%	1	1	2	1	-	22	23	15	-8	-35%
Wairarapa	10	8	2	-6	-	1	0	0	0	-	9	8	2	-6	-
Capital & Coast	60	61	54	-7	-11%	4	7	6	-1	-	53	52	46	-6	-12%
Nelson Marlborough	43	38	29	-9	-24%	0	4	2	-2	-	43	34	27	-7	-21%
West Coast	1	2	3	1	-	-	-	-	-	-	1	2	3	1	-
Canterbury	134	133	117	-16	-12%	7	7	10	3	-	125	124	105	-19	-15%
South Canterbury	23	24	15	-9	-38%	0	1	2	1	-	23	23	13	-10	-43%
Southern	98	110	89	-21	-19%	6	4	1	-3	-	92	105	87	-18	-17%
Grand Total	1050	1049	965	-84	-8%	91	81	109	28	35%	936	938	833	-105	-11%

# Lung cancer surgery

## Notes on data

- A list of the surgical procedure codes used for analysis are included in Appendix 1.
- The data were extracted from the National Minimum Dataset on 29 June 2020.
- The number of lung cancer surgeries performed each month is relatively small, so caution is needed when comparing data by month.
- Excludes non-DHB providers.

	Total					Māori					Non-Māori / Non-Pacific				
	Cumulative number for Jan to May			Difference between 2019 and 2020		Cumulative number for Jan to May			Difference between 2019 and 2020		Cumulative number for Jan to May			Difference between 2019 and 2020	
	2018	2019	2020	Number	%	2018	2019	2020	Number	%	2018	2019	2020	Number	%
<b>Auckland</b>	113	119	106	-13	-11%	13	30	14	-16	-53%	94	83	83	0	0%
<b>Counties Manukau</b>	1	1	1	0	-	0	0	1	1	-	0	1	0	-1	-
<b>Waikato</b>	44	55	72	17	31%	15	19	14	-5	-26%	29	36	57	21	58%
<b>Taranaki</b>	0	0	0	0	-	0	0	0	0	-	0	0	0	0	-
<b>Hawke's Bay</b>	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-
<b>Capital &amp; Coast</b>	47	63	41	-22	-35%	11	10	5	-5	-50%	33	49	34	-15	-31%
<b>Canterbury</b>	37	38	41	3	8%	2	1	3	2	-	35	37	38	1	3%
<b>Southern</b>	13	21	9	-12	-57%	3	0	1	1	-	10	21	8	-13	-62%
<b>Grand Total</b>	255	297	270	-27	-9%	44	60	38	-22	-37%	201	227	220	-7	-3%



# Prostate cancer surgery

## Notes on data

- A list of the surgical procedure codes used for analysis are included in Appendix 1.
- The data was extracted from the National Minimum Dataset on 29 June 2020.
- The number of prostate cancer surgeries performed each month is relatively small, so caution is needed when comparing data by month.
- Excludes non-DHB providers.

	Total					Māori					Non-Māori / Non-Pacific				
	Cumulative number for Jan to May			Difference between 2019 and 2020		Cumulative number for Jan to May			Difference between 2019 and 2020		Cumulative number for Jan to May			Difference between 2019 and 2020	
	2018	2019	2020	Number	%	2018	2019	2020	Number	%	2018	2019	2020	Number	%
Northland	19	20	13	-7	-35%	3	1	4	3	-	16	18	9	-9	-50%
Waitemata	27	24	47	23	96%	1	1	1	0	-	26	23	44	21	91%
Auckland	36	40	50	10	25%	0	3	4	1	-	34	33	46	13	39%
Counties Manukau	0	0	0	0	-						0	0	0	0	-
Waikato	30	32	19	-13	-41%	1	1	0	-1	-	29	31	19	-12	-39%
Bay of Plenty	1	1	0	-1	-	0	0	0	0	-	1	1	0	-1	-
Tairāwhiti	2	2	0	-2	-	1	2	0	-2	-	1	0	0	0	-
Taranaki	9	10	13	3	30%	1	1	2	1	-	8	9	11	2	-
Whanganui	2	2	1	-1	-	0	0	0	0	-	2	2	1	-1	-
Hawke's Bay	4	8	5	-3	-	0	1	2	1	-	4	7	3	-4	-
MidCentral	30	35	32	-3	-9%	2	4	1	-3	-	28	31	31	0	0%
Wairarapa	4	5	4	-1	-	1	0	1	1	-	3	5	3	-2	-
Capital & Coast	19	24	22	-2	-8%	1	2	1	-1	-	16	21	21	0	0%
Nelson Marlborough	24	13	21	8	62%	-	-	-	-	-	24	12	21	9	75%
West Coast	3	1	2	1	-	0	0	0	0	-	3	1	2	1	-
Canterbury	28	28	33	5	18%	0	1	2	1	-	28	27	31	4	15%
South Canterbury	8	4	9	5	-	-	-	-	-	-	8	4	9	5	-
Southern	27	33	40	7	21%	3	1	3	2	-	24	31	37	6	19%
<b>Grand Total</b>	<b>273</b>	<b>282</b>	<b>311</b>	<b>29</b>	<b>10%</b>	<b>14</b>	<b>18</b>	<b>21</b>	<b>3</b>	<b>17%</b>	<b>255</b>	<b>256</b>	<b>288</b>	<b>32</b>	<b>13%</b>

# Medical oncology

## Notes on data

- Extracted from National Non-admitted patient collection (Outpatient collection) and National Minimum Dataset (inpatient) on 29 June 2020.
- First specialist assessment (FSA) reflects counts of first attendance for specialist medical oncology assessment.
- IV chemotherapy reflects appointments for outpatient and inpatient for non-haematological indications.
- Technical information: FSA (PUC M50020), IV chemotherapy (PUC MS02009)
- Excludes Non-DHB Providers.

## First specialist assessments

	Total					Māori					Non-Māori / Non-Pacific				
	Cumulative number for Jan to May			Difference between 2019 and 2020		Cumulative number for Jan to May			Difference between 2019 and 2020		Cumulative number for Jan to May			Difference between 2019 and 2020	
	2018	2019	2020	Number	%	2018	2019	2020	Number	%	2018	2019	2020	Number	%
<b>Northland</b>	192	212	178	-34	-16%	47	52	48	-4	-8%	145	157	127	-30	-19%
<b>Auckland</b>	931	960	1071	111	12%	106	100	113	13	13%	704	738	799	61	8%
<b>Waikato</b>	368	317	315	-2	-1%	82	66	73	7	11%	279	243	237	-6	-2%
<b>Bay of Plenty</b>	189	193	226	33	17%	34	45	32	-13	-29%	154	147	193	46	31%
<b>Lakes</b>	22	75	69	-6	-8%	8	23	19	-4	-17%	13	51	50	-1	-2%
<b>Tairāwhiti</b>	31	60	64	4	7%	16	25	32	7	28%	15	35	32	-3	-9%
<b>Taranaki</b>	97	89	98	9	10%	7	12	12	0	0%	90	77	85	8	10%
<b>MidCentral</b>	448	425	450	25	6%	59	72	67	-5	-7%	379	346	376	30	9%
<b>Capital &amp; Coast</b>	378	354	374	20	6%	41	46	45	-1	-2%	312	291	306	15	5%
<b>Nelson Marlborough</b>	194	167	170	3	2%	13	14	9	-5	-36%	180	152	160	8	5%
<b>West Coast</b>	11	13	6	-7	-54%	0	2	0	-2	-	11	11	6	-5	-45%
<b>Canterbury</b>	504	578	507	-71	-12%	29	39	29	-10	-26%	468	533	469	-64	-12%
<b>South Canterbury</b>	1	2	29	27	-	0	0	2	2	-	1	2	27	25	-
<b>Southern</b>	224	317	249	-68	-21%	9	20	12	-8	-40%	214	296	233	-63	-21%
<b>Grand Total</b>	3590	3762	3806	44	1%	451	516	493	-23	-4%	2965	3079	3100	21	1%

# IV chemotherapy attendances

	Total					Māori					Non-Māori / Non-Pacific				
	Cumulative number for Jan to May			Difference between 2019 and 2020		Cumulative number for Jan to May			Difference between 2019 and 2020		Cumulative number for Jan to May			Difference between 2019 and 2020	
	2018	2019	2020	Number	%	2018	2019	2020	Number	%	2018	2019	2020	Number	%
<b>Northland</b>	1291	1159	1253	94	8%	234	267	378	111	42%	1040	881	862	-19	-2%
<b>Auckland</b>	6960	8056	8836	780	10%	750	693	972	279	40%	5462	6307	6859	552	9%
<b>Waikato</b>	2879	3211	2541	-670	-21%	416	527	436	-91	-17%	2427	2647	2060	-587	-22%
<b>Bay of Plenty</b>	2163	1954	2350	396	20%	403	331	476	145	44%	1726	1602	1859	257	16%
<b>Lakes</b>	1098	1258	1224	-34	-3%	315	342	386	44	13%	739	904	828	-76	-8%
<b>Tairāwhiti</b>	316	243	217	-26	-11%	146	109	108	-1	-1%	170	134	108	-26	-19%
<b>Taranaki</b>	647	756	842	86	11%	85	45	83	38	84%	554	700	749	49	7%
<b>Whanganui</b>	58	34	41	7	21%	14	3	6	3	-	44	31	35	4	13%
<b>Hawke's Bay</b>	9	17	37	20	118%	2	3	28	25	-	7	14	9	-5	-36%
<b>MidCentral</b>	2696	3341	3116	-225	-7%	327	655	474	-181	-28%	2316	2581	2605	24	1%
<b>Hutt Valley</b>	51	47	35	-12	-26%	7	2	1	-1	-	44	41	29	-12	-29%
<b>Wairarapa</b>	6	2	24	22	-	0	0	5	5	-	6	2	19	17	-
<b>Capital &amp; Coast</b>	2563	2976	2533	-443	-15%	258	284	330	46	16%	2194	2548	2037	-511	-20%
<b>Nelson Marlborough</b>	1289	1101	1217	116	11%	119	74	66	-8	-11%	1147	1001	1136	135	13%
<b>West Coast</b>	6	24	17	-7	-29%	0	0	4	4	-	6	24	13	-11	-46%
<b>Canterbury</b>	2866	2481	2593	112	5%	178	154	167	13	8%	2595	2274	2329	55	2%
<b>South Canterbury</b>	459	449	441	-8	-2%	5	1	9	8	-	454	436	432	-4	-1%
<b>Southern</b>	2055	2424	2255	-169	-7%	121	129	173	44	34%	1919	2283	2035	-248	-11%
<b>Grand Total</b>	27412	29535	29572	37	0%	3380	3619	4102	483	13%	22850	24412	24004	-408	-2%

# Radiation oncology

## Notes on data

- Extracted from National Non-admitted patient collection on 29 June 2020.
- First specialist assessment (FSA) reflects counts of first attendance for radiation oncology specialist assessment.
- Megavoltage attendance reflects appointments for planning/simulation and for treatment with radiation therapy on a linear accelerator.
- Technical information: radiation oncology FSA (PUC M50022), megavoltage attendances (Purchase Unit Code M50025).
- Excludes non-DHB providers.

## First specialist assessments

	Total					Māori					Non-Māori / Non-Pacific				
	Cumulative number for Jan to May			Difference between 2019 and 2020		Cumulative number for Jan to May			Difference between 2019 and 2020		Cumulative number for Jan to May			Difference between 2019 and 2020	
	2018	2019	2020	Number	%	2018	2019	2020	Number	%	2018	2019	2020	Number	%
<b>Northland</b>	143	153	115	-38	-25%	46	35	40	5	14%	96	115	74	-41	-36%
<b>Auckland</b>	1338	1330	1296	-34	-3%	151	158	137	-21	-13%	1033	1018	1007	-11	-1%
<b>Waikato</b>	541	605	632	27	4%	92	104	134	30	29%	439	490	491	1	0%
<b>Bay of Plenty</b>	334	405	395	-10	-2%	47	52	54	2	4%	285	348	337	-11	-3%
<b>Lakes</b>	21	12	4	-8	-67%	3	3	1	-2	-	18	9	3	-6	-
<b>Tairāwhiti</b>	34	27	20	-7	-26%	14	9	8	-1	-	19	18	12	-6	-33%
<b>MidCentral</b>	754	640	733	93	15%	89	83	100	17	20%	657	548	621	73	13%
<b>Capital &amp; Coast</b>	580	604	539	-65	-11%	55	55	55	0	0%	499	522	455	-67	-13%
<b>Nelson Marlborough</b>	8	86	75	-11	-13%	0	5	6	1	-	8	80	68	-12	-15%
<b>West Coast</b>	2	6	3	-3	-	0	1	0	-1	-	2	5	3	-2	-
<b>Canterbury</b>	667	645	752	107	17%	30	38	38	0	0%	630	599	706	107	18%
<b>Southern</b>	421	389	300	-89	-23%	22	24	25	1	4%	392	360	272	-88	-24%
<b>Grand Total</b>	4843	4902	4864	-38	-1%	549	567	598	31	5%	4078	4112	4049	-63	-2%

# Megavoltage attendances (fractions)

	Total					Māori					Non-Māori / Non-Pacific				
	Cumulative number for Jan to May			Difference between 2019 and 2020		Cumulative number for Jan to May			Difference between 2019 and 2020		Cumulative number for Jan to May			Difference between 2019 and 2020	
	2018	2019	2020	Number	%	2018	2019	2020	Number	%	2018	2019	2020	Number	%
<b>Auckland</b>	18146	18941	16314	-2627	-14%	2323	2503	1739	-764	-31%	14051	14695	12642	-2053	-14%
<b>Waikato</b>	8549	9689	7923	-1766	-18%	1519	1741	1694	-47	-3%	6878	7776	6142	-1634	-21%
<b>Bay of Plenty</b>	8556	6015	6724	709	12%	1611	1027	1108	81	8%	6778	4982	5484	502	10%
<b>MidCentral</b>	8776	9950	9027	-923	-9%	1320	1345	1205	-140	-10%	7365	8526	7680	-846	-10%
<b>Capital &amp; Coast</b>	8262	8534	7865	-669	-8%	807	819	810	-9	-1%	7002	7265	6696	-569	-8%
<b>Canterbury</b>	11982	9488	9524	36	0%	795	587	688	101	17%	10936	8833	8695	-138	-2%
<b>Southern</b>	3306	2366	1322	-1044	-44%	232	147	51	-96	-65%	2976	2185	1265	-920	-42%
<b>Grand Total</b>	67577	64983	58701	-6282	-10%	8607	8169	7295	-874	-11%	55986	54262	48606	-5656	-10%

# Haematology

## Notes on data

- Extracted from National Non-admitted Patient Collection (outpatient) and National Minimum Dataset (inpatient) 29 June 2020.
- First specialist assessment (FSA) reflects counts of first attendance for specialist haematology assessment for any indication (i.e. not just cancer).
- IV chemotherapy reflects appointments for IV chemotherapy for haematological malignancies.
- Technical information: Haematology FSA (Purchase Unit Code - M30002), IV haem/chemo (Purchase Unit Code - M30020).

## First specialist assessments

	Total					Māori					Non-Māori / Non-Pacific				
	Cumulative number for Jan to May			Difference between 2019 and 2020		Cumulative number for Jan to May			Difference between 2019 and 2020		Cumulative number for Jan to May			Difference between 2019 and 2020	
	2018	2019	2020	Number	%	2018	2019	2020	Number	%	2018	2019	2020	Number	%
Northland	89	92	97	5	5%	14	20	24	4	20%	75	70	72	2	3%
Waitemata	323	267	291	24	9%	11	17	28	11	65%	297	241	249	8	3%
Auckland	415	395	300	-95	-24%	29	30	25	-5	-17%	342	324	247	-77	-24%
Counties Manukau	314	309	217	-92	-30%	30	40	29	-11	-28%	236	228	155	-73	-32%
Waikato	295	323	314	-9	-3%	47	61	53	-8	-13%	244	257	254	-3	-1%
Bay of Plenty	175	159	122	-37	-23%	27	23	23	0	0%	146	132	96	-36	-27%
Lakes	0	2	0	-2	-	0	1	0	-1	-	0	1	0	-1	-
Tairāwhiti	22	13	17	4	31%	9	1	3	2	-	13	11	14	3	27%
Taranaki	60	66	78	12	18%	8	5	11	6	-	52	61	67	6	10%
MidCentral	313	323	300	-23	-7%	42	38	41	3	8%	268	283	255	-28	-10%
Capital & Coast	328	306	264	-42	-14%	16	25	32	7	28%	304	269	218	-51	-19%
Nelson Marlborough	111	66	52	-14	-21%	1	3	2	-1	-	109	62	50	-12	-19%
West Coast	7	7	1	-6	-	1	0	0	0	-	6	7	1	-6	-
Canterbury	183	238	194	-44	-18%	12	11	12	1	9%	164	219	179	-40	-18%
Southern	122	120	88	-32	-27%	11	6	6	0	-	108	113	81	-32	-28%
Grand Total	2757	2686	2335	-351	-13%	258	281	289	8	3%	2364	2278	1938	-340	-15%

## IV chemotherapy attendances (haematology)

	Total					Māori					Non-Māori / Non-Pacific				
	Cumulative number for Jan to May			Difference between 2019 and 2020		Cumulative number for Jan to May			Difference between 2019 and 2020		Cumulative number for Jan to May			Difference between 2019 and 2020	
	2018	2019	2020	Number	%	2018	2019	2020	Number	%	2018	2019	2020	Number	%
<b>Northland</b>	827	743	591	-152	-20%	192	153	115	-38	-25%	635	567	455	-112	-20%
<b>Waitemata</b>	1643	1683	1618	-65	-4%	39	68	88	20	29%	1527	1523	1442	-81	-5%
<b>Auckland</b>	1414	1528	1323	-205	-13%	77	114	47	-67	-59%	1195	1228	1157	-71	-6%
<b>Counties Manukau</b>	994	432*	923	-	-	157	68*	82	-	-	601	305*	700	-	-
<b>Waikato</b>	692	797	880	83	10%	101	140	177	37	26%	589	655	703	48	7%
<b>Bay of Plenty</b>	477	546	410	-136	-25%	55	45	58	13	29%	422	479	352	-127	-27%
<b>Lakes</b>	9	279	254	-25	-9%	0	88	64	-24	-27%	9	191	190	-1	-1%
<b>Tairāwhiti</b>	81	40	36	-4	-10%	6	10	1	-9	-90%	66	30	35	5	17%
<b>MidCentral</b>	1043	1236	987	-249	-20%	121	137	98	-39	-28%	906	1099	886	-213	-19%
<b>Capital &amp; Coast</b>	1213	1418	1317	-101	-7%	16	186	186	0	0%	1148	1182	1038	-144	-12%
<b>West Coast</b>	3	6	3	-3	-	0	2	0	-2	-	3	4	3	-1	-
<b>Canterbury</b>	853	390*	1115	-	-	37	21*	135	-	-	807	369*	963	-	-
<b>Southern</b>	91	82	89	7	9%	1	0	18	18	-	90	82	71	-11	-13%
<b>Grand Total</b>	9340	9180	9552	372	4%	802	1032	1069	37	4%	7998	7714	8001	287	4%

\*we are following up with Canterbury and Counties Manukau to better understand volumes in 2019. Number and percentage differences have not been presented as will not accurately reflect the difference between 2019 and 2020 in these DHBs.

# Appendix 1: Surgical procedure codes

Below is a list of the surgical procedure codes that were used for analysis on curative cancer surgery.

COLORECTAL CANCER SURGERY		
Clinical code	Block short description	Clinical code description
3200000	Colectomy	Limited excision of large intestine with formation of stoma
3200001	Colectomy	Right hemicolectomy with formation of stoma
3200300	Colectomy	Limited excision of large intestine with anastomosis
3200301	Colectomy	Right hemicolectomy with anastomosis
3200400	Colectomy	Subtotal colectomy with formation of stoma
3200401	Colectomy	Extended right hemicolectomy with formation of stoma
3200500	Colectomy	Subtotal colectomy with anastomosis
3200501	Colectomy	Extended right hemicolectomy with anastomosis
3200600	Colectomy	Left hemicolectomy with anastomosis
3200601	Colectomy	Left hemicolectomy with formation of stoma
3200900	Colectomy	Total colectomy with ileostomy
3201200	Colectomy	Total colectomy with ileorectal anastomosis
3201500	Total proctocolectomy	Total proctocolectomy with ileostomy
3202400	Anterior resection of rectum	High anterior resection of rectum
3202500	Anterior resection of rectum	Low anterior resection of rectum
3202600	Anterior resection of rectum	Ultra low anterior resection of rectum
3202800	Anterior resection of rectum	Ultra low anterior resection of rectum with hand sutured coloanal anastomosis
3203000	Rectosigmoidectomy or proctectomy	Rectosigmoidectomy with formation of stoma
3203900	Rectosigmoidectomy or proctectomy	Abdominoperineal proctectomy
3205100	Total proctocolectomy	Total proctocolectomy with ileo-anal anastomosis
3205101	Total proctocolectomy	Total proctocolectomy with ileo-anal anastomosis and formation of temporary ileostomy
3206000	Rectosigmoidectomy or proctectomy	Restorative proctectomy
3209900	Excision of lesion or tissue of rectum or anus	Per anal submucosal excision of lesion or tissue of rectum
3211200	Rectosigmoidectomy or proctectomy	Perineal rectosigmoidectomy
9220800	Anterior resection of rectum	Anterior resection of rectum, level unspecified

LUNG CANCER SURGERY		
Clinical code	Clinical code description	Block Description
3844000	Wedge resection of lung	Partial resection of lung
3844001	Radical wedge resection of lung	Partial resection of lung
3843800	Segmental resection of lung	Partial resection of lung
9016900	Endoscopic wedge resection of lung	Partial resection of lung
3843801	Lobectomy of lung	Lobectomy of lung
3844100	Radical lobectomy	Lobectomy of lung
3844101	Radical pneumonectomy	Pneumonectomy
3843802	Pneumonectomy	Pneumonectomy



**PROSTATE CANCER SURGERY**

Clinical code	Block short description	Clinical code description
3720004	Open prostatectomy	Retropubic prostatectomy
3720900	Open prostatectomy	Radical prostatectomy
3720901	Other closed prostatectomy	Laparoscopic radical prostatectomy
3721000	Open prostatectomy	Radical prostatectomy with bladder neck reconstruction
3721001	Other closed prostatectomy	Laparoscopic radical prostatectomy with bladder neck reconstruction
3721100	Open prostatectomy	Radical prostatectomy with bladder neck reconstruction and pelvic lymphadenectomy
3721101	Other closed prostatectomy	Laparoscopic radical prostatectomy with bladder neck reconstruction and pelvic lymphadenectomy
3720900	Open prostatectomy	Radical prostatectomy
3720901	Closed prostatectomy	Laparoscopic radical prostatectomy
3721000	Open prostatectomy	Radical prostatectomy with bladder neck reconstruction
3721001	Closed prostatectomy	Laparoscopic radical prostatectomy with bladder neck reconstruction
3721100	Open prostatectomy	Radical prostatectomy with bladder neck reconstruction and pelvic lymphadenectomy