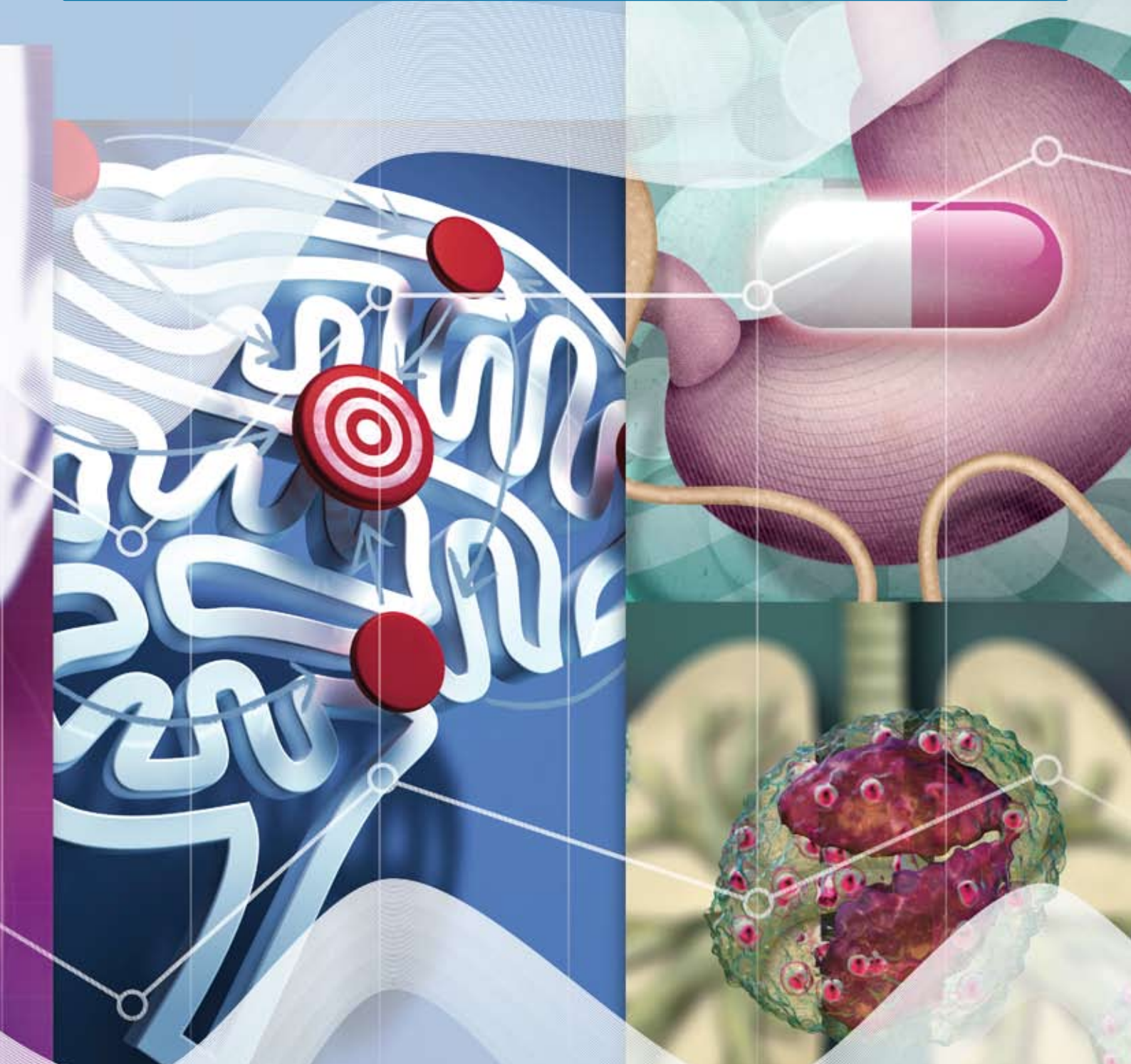


Sample Medical Centre



2016 Annual Practice Report

Pharmaceutical Utilisation July, 2015 - June, 2016

Welcome to your annual practice report

This report provides you with an opportunity to reflect on the pharmacological treatment received by patients **registered at your practice** in the past year. It summarises the most commonly dispensed medicines for these patients between 1 July, 2015 and 30 June, 2016 by any prescriber.

Methods

The data in this report is based on two of the Ministry of Health's National Collections. The collections used in this report contain data provided to Sector Services (formerly HealthPAC) and National Collections and Reporting through the General Transaction Processing System:

- The Pharmaceutical Collection holds claim data submitted by pharmacies for all community dispensings of subsidised medicines.
- The Primary Health Organisation Enrolment Collection holds patient enrolment data for 4.37 million patients registered to 1015 New Zealand general practices.

As our data is provided by the Ministry of Health, bpac^{nz} has no control over data errors which may occur at the pharmacy, Sector Services or Ministry of Health. Some errors may also be due to rounding.

In this report, cost is the standard price at which a medicine is supplied to wholesalers, exclusive of GST, dispensing fees, markup and rebates. Therefore the cost listed is not necessarily the actual cost of this medicine.

Data has been excluded for patients who are not registered to a practice in the PHO Enrolment Collection. Enrolled patients accounted for 99% of pharmaceutical dispensings recorded in the National Collections. Data has also been excluded when a National Health Index (NHI) number was not recorded for the patient.

This report includes data on dispensed subsidised medicines. Any medicines prescribed to your patients that were not dispensed by a community pharmacy, or are unsubsidised, will not appear on this report.

Important Note

Some medicines dispensed for your registered patients will have been prescribed by New Zealand healthcare professionals who do not work at your practice, and will not necessarily be listed if you audit your Practice Management System e.g. secondary care doctors, midwives, after hours clinics. They are included in this report to provide you with an overall view of the care received by your registered patients.



Individual prescribing reports

If you would like to review your annual **individual prescribing report** please log in to 'My bpac' at www.bpac.org.nz. You can then find your report by navigating to 'Your personalised reports'.

What is in your practice report

1. Number of medicines reported

Instead of listing dispensing rates for all 826 subsidised medicines available, we have included the 250 most commonly dispensed medicines. These make up 94% of all dispensings in the community in New Zealand.

2. Number of items

Item numbers refer to stat dispensings (entire three month supply) and initial dispensings only – these numbers do not include repeat dispensings, e.g. if a patient is taking a long-term medicine and was compliant they should have four initial dispensings per year for that medicine. This eliminates the ‘over-counting’ of medicines that have more frequent dispensing rates, e.g. methadone which may be dispensed daily or weekly.

3. Comparator Groups

To allow you to make comparisons with practices whose patient demographics are similar to yours we have created comparator groups. These comparator groups are made up of ten practices whose patient populations are similar to yours in:

- Gender
- Age
- Ethnicity
- Deprivation

This report will show data for your practice and your comparator practices.

You will see in the data tables throughout the report that numbers are reported for your practice, your comparator group and the national data (all practices grouped together). See Page 3 for more information about comparator groups.

4. Cost data

This report includes cost data (Pages 6 – 8). This is to provide you with a general understanding of the highest cost medicines used each year in New Zealand and for patients in **your practice**.



Feedback

We are always trying to improve our reports therefore we would like to know how useful you find them. We would also like to hear if you have any further suggestions for presenting and comparing annual prescribing data. Email us at: contact@bpac.org.nz

Using **comparator practices** to make **your reports** more meaningful

The problem with national comparisons

We understand that no two practice populations are the same and therefore it can be difficult to compare your practice's prescribing to national prescribing levels.

The development of comparator practices

To help combat this problem and make these reports more relevant to you, we have developed comparator groups. In these new reports your practice's prescribing will be compared to **ten practices** from across New Zealand whose patient populations are similar to yours in:

- Gender
- Age
- Ethnicity
- Deprivation

We will account for the size of your registered practice population by using proportions or standardised formats e.g. prescribing per 1000 practice population.

Eliminating some demographic differences mean you will be able to more easily determine meaningful differences in your prescribing practices compared with your comparator practices.

If the prescribing from your practice is different compared to other practices in your comparator group, this may be explained by:

- Your prescribing practice and decision making being different to your peers
- The region you live in, e.g. medicines to treat sore throats and rheumatic fever in the far north of New Zealand will be higher than in the south
- Someone in your practice may specialise in a particular area of medicine that uses certain medicines more than others, e.g. dermatology and isotretinoin prescribing



Further investigation of your prescribing

Undertaking an audit or peer group discussion may provide more detail to help identify similarities and differences in prescribing practice compared to other primary care practitioners. If any issues have been identified these resources can help instigate change, leading to more appropriate use of medicines and facilitate best practice.

www.bpac.org.nz



Demographics of your practice patients

This section describes the demographics of the registered population of your practice, compared to the demographics of all registered patients for the ten practices in your comparator group (comparator data) and to the demographics of all registered patients in New Zealand (national data). The data in this section are taken from the first quarter 2016 enrolment registers provided to bpac^{nz} by the Ministry of Health.

The volume and cost of prescribing are influenced by the demography and morbidity of the population served, e.g. elderly patients have a greater need for medicines than younger adult patients. We have tried to minimise these differences in patient characteristics by providing you with a comparator group, however, some variations may still exist. These differences should be taken into account when comparing data either between practices in your comparator group or nationally.



Use the data to determine if your practice demography varies compared with practices in your comparator group or nationally – this may help to explain any differences you see throughout your report

Number of patients

Patients registered to your practice

3,197

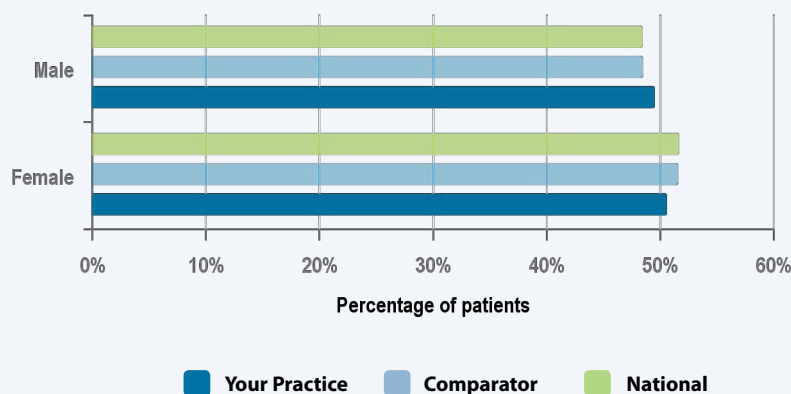
Average number of registered patients per practice in your comparator group

6,048

Average number of registered patients per practice in New Zealand

4,306

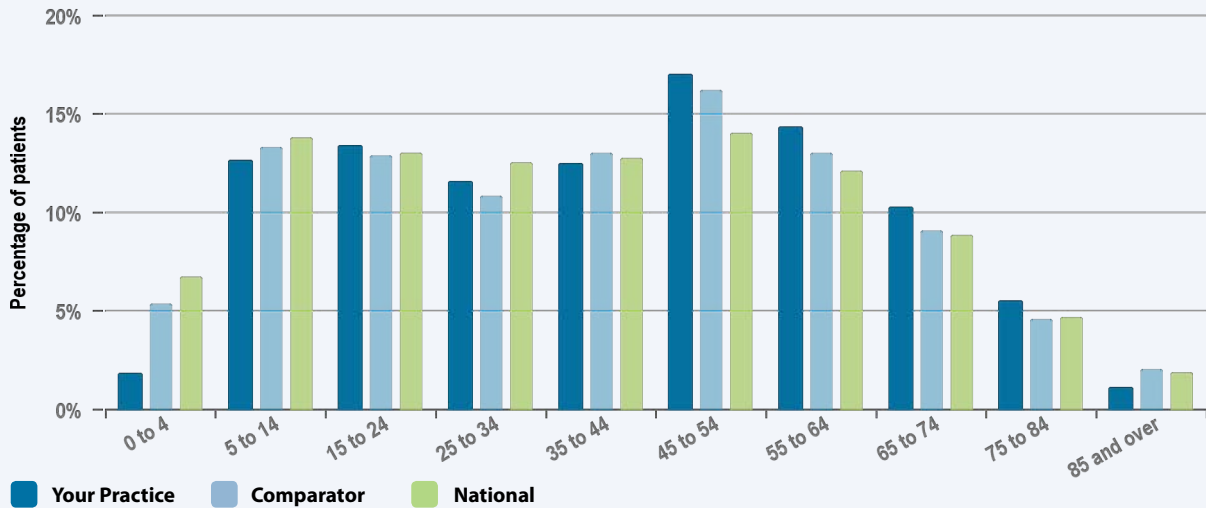
Gender



Demographics of your practice patients

Age group

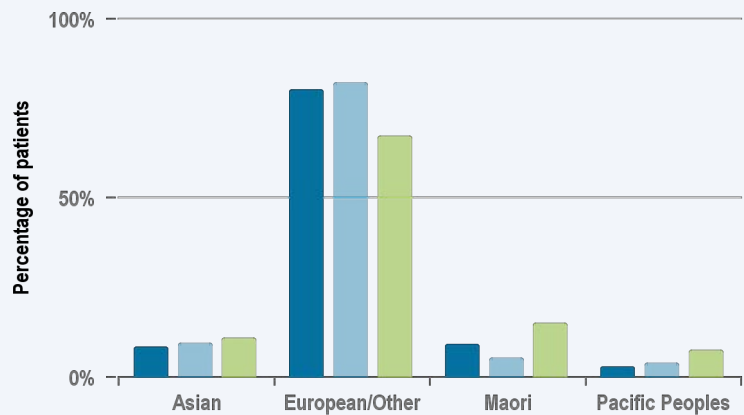
This is based on the recorded date of birth for each patient



Ethnic group

This is based on the patient's self-identified ethnic group. A patient may specify up to three ethnic groups which are then prioritised: if any of the three ethnic groups is Māori or Pacific peoples, the patient is identified in this group.

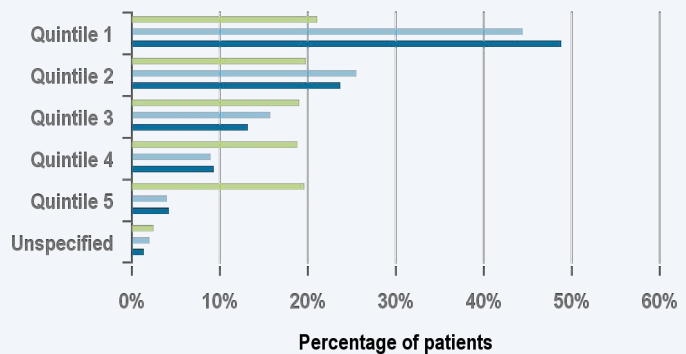
- Your Practice
- Comparator
- National



Deprivation quintile

Deprivation quintile is a score representing the level of socio-economic deprivation of the area where the person resides. Quintile 1 is the least deprived and quintile 5 is the most deprived. Unspecified deprivation refers to an address that could not be geocoded.

- Your Practice
- Comparator
- National



Practice overview



Sample Medical Centre

Between July, 2015 and June, 2016

Number of subsidised medicines prescribed for your patients	Number of prescribers that prescribed for your patients
449	1,248
Number of prescription items dispensed	Total medicine cost
32,603	\$624,430

Summary of prescribing

	Your Practice	Your Comparator (avg per practice)	National (avg per practice)
Number of prescription items per 1,000 patients	10,198	8,764	9,715
Percentage of registered patients dispensed at least one medicine	82%	77%	78%
Percentage of items that are in the national top 250 dispensed medicines	93%	94%	94%
Medicine cost per 1,000 patients	\$195,318	\$198,712	\$208,320
Average medicine cost per item	\$19.15	\$22.67	\$21.44
Average cost per patient	\$195.32	\$198.71	\$208.32

Most used and highest cost medicines – Nationally

The table on the left below shows the top 20 highest volume medicines dispensed (initial/stat) nationally between July, 2015 and June, 2016.

The table on the right below shows the top 20 highest cost[#] medicines dispensed nationally between July, 2015 and June, 2016.

Below the top 20 tables, there is an example of how number of items of paracetamol per 1,000 patients was calculated.

Top 20 highest volume medicines - Nationally		National
		Items per 1000 patients
1	Paracetamol	576
2	Omeprazole	291
3	Aspirin	290
4	Amoxicillin	286
5	Atorvastatin	267
6	Ibuprofen	228
7	Metoprolol succinate	218
8	Salbutamol	194
9	Amoxicillin with clavulanic acid	171
10	Cilazapril	170
11	Colecalciferol	163
12	Simvastatin	146
13	Prednisone	143
14	Metformin hydrochloride	127
15	Zopiclone	124
16	Levothyroxine	121
17	Loratadine	119
18	Codeine phosphate	105
19	Felodipine	104
20	Diclofenac sodium	104

Top 20 highest cost medicines - Nationally		National
		Medicine cost per 1000 patients
1	Dabigatran	\$10,620
2	Fluticasone with salmeterol	\$7,454
3	Insulin glargine	\$4,992
4	Budesonide with eformoterol	\$4,649
5	Tiotropium bromide	\$3,215
6	Blood glucose diagnostic test strip	\$2,920
7	Lamotrigine	\$2,212
8	Sodium valproate	\$2,159
9	Mesalazine	\$2,013
10	Varenicline tartrate	\$1,779
11	Olanzapine	\$1,698
12	Venlafaxine	\$1,636
13	Salbutamol	\$1,616
14	Fluticasone	\$1,613
15	Atorvastatin	\$1,601
16	Insulin aspart	\$1,460
17	Enoxaparin sodium	\$1,253
18	Risperidone	\$1,250
19	Methylphenidate hydrochloride extended-release	\$1,048
20	Metoprolol succinate	\$1,034

Paracetamol	Nationally, 2,516,856 items of paracetamol were dispensed to registered patients, divide this by the national number of registered patients, 4,370,141, and multiply by 1,000
	$(2,516,856 / 4,370,141) * 1,000$
	576 items per 1,000 registered patients

In this report, cost is the standard price at which a medicine is supplied to wholesalers, exclusive of GST, dispensing fees, markup and rebates. Therefore the actual supply cost listed is not necessarily the actual cost of this medicine.

Most used and highest cost medicines – Your Practice

This table shows the top 20 highest volume medicines dispensed (initial/stat) for **your practice** between July, 2015 and June, 2016. To enable comparisons, we have also provided the number of items per 1,000 patients for the ten practices in your comparator group and nationally of these medicines. These values will help you to gauge if your practice prescribes more or less of each medicine compared with other practices.

Top 20 highest volume medicines - Your Practice		Your Practice		Comparator	National
		Items	Items per 1000 patients	Items per 1000 patients	Items per 1000 patients
1	Amoxicillin with clavulanic acid	1,407	440	134	171
2	Paracetamol	1,318	412	444	576
3	Atorvastatin	1,153	361	240	267
4	Cetirizine hydrochloride	976	305	82	94
5	Omeprazole	963	301	254	291
6	Fluticasone propionate	878	275	83	82
7	Fluticasone with salmeterol	700	219	63	70
8	Amoxicillin	649	203	246	286
9	Metoprolol succinate	602	188	181	218
10	Cilazapril	580	181	148	170
11	Paracetamol with codeine	572	179	44	72
12	Diclofenac sodium	546	171	103	104
13	Simvastatin	518	162	117	146
14	Ibuprofen	488	153	184	228
15	Zopiclone	469	147	143	124
16	Prednisone	458	143	130	143
17	Salbutamol	453	142	166	194
18	Levothyroxine	426	133	126	121
19	Doxazosin	412	129	51	52
20	Felodipine	401	125	79	104

This table shows the top 20 highest cost medicines dispensed for **your practice** between July, 2015 and June, 2016. To enable comparisons, we have also provided the cost per 1,000 patients for the ten practices in your comparator group and nationally.

Top 20 highest cost medicines - Your Practice		Your Practice		Comparator	National
		Medicine cost	Medicine cost per 1000 patients	Medicine cost per 1000 patients	Medicine cost per 1000 patients
1	Fluticasone with salmeterol	\$71,387	\$22,329	\$6,895	\$7,454
2	Dabigatran	\$41,613	\$13,016	\$8,709	\$10,620
3	Insulin glargine	\$13,060	\$4,085	\$3,794	\$4,992
4	Blood glucose diagnostic test strip	\$8,439	\$2,640	\$2,651	\$2,920
5	Atorvastatin	\$7,307	\$2,285	\$1,477	\$1,601
6	Olopatadine	\$6,936	\$2,170	\$354	\$317
7	Mesalazine	\$6,517	\$2,039	\$2,443	\$2,013
8	Budesonide with eformoterol	\$5,854	\$1,831	\$4,089	\$4,649
9	Sodium valproate	\$5,555	\$1,738	\$1,911	\$2,159
10	Lamotrigine	\$4,747	\$1,485	\$2,203	\$2,212
11	Ibuprofen	\$4,511	\$1,411	\$847	\$946
12	Fluticasone	\$4,121	\$1,289	\$1,595	\$1,613
13	Fluticasone propionate	\$4,077	\$1,275	\$313	\$298
14	Amoxicillin with clavulanic acid	\$3,797	\$1,188	\$355	\$451
15	Insulin aspart	\$3,665	\$1,146	\$1,441	\$1,460
16	Salbutamol with ipratropium bromide	\$3,601	\$1,126	\$290	\$500
17	Salbutamol	\$3,523	\$1,102	\$1,326	\$1,616
18	Insulin lispro with insulin lispro protamine	\$3,455	\$1,081	\$561	\$741
19	Enoxaparin sodium	\$3,453	\$1,080	\$1,440	\$1,253
20	Betamethasone dipropionate with calcipotriol	\$3,369	\$1,054	\$658	\$579

If your practice is different to that of your comparator or nationally, this may be due to the difference in the clinical needs of your population

Key reporting messages from the past 12 months

This section summarises the key messages and provides updated data for two prescribing reports that have been published for practices over the past 12 months.



KEY MESSAGES – Oxycodone (bpac^{nz} report published February 2016)

- Oxycodone is a strong opioid analgesic that should be used as a **second-line treatment** for patients who are not able to tolerate morphine as it does not provide more effective pain relief than morphine, is more expensive, and is associated with increasing levels of misuse
- Oxycodone is approximately **twice as potent as morphine** and 7.5 – 20 times more potent than codeine, i.e. 10 mg of oxycodone is equivalent to 15 – 20 mg of morphine and 75 – 200 mg of codeine
- Oxycodone may have higher **addictive** potential than morphine

See the audit “Oxycodone for non-cancer pain” for further information on identifying and managing patients who have been dispensed oxycodone.

For further information see: [oxycodone report and articles www.bpac.org.nz](http://www.bpac.org.nz)

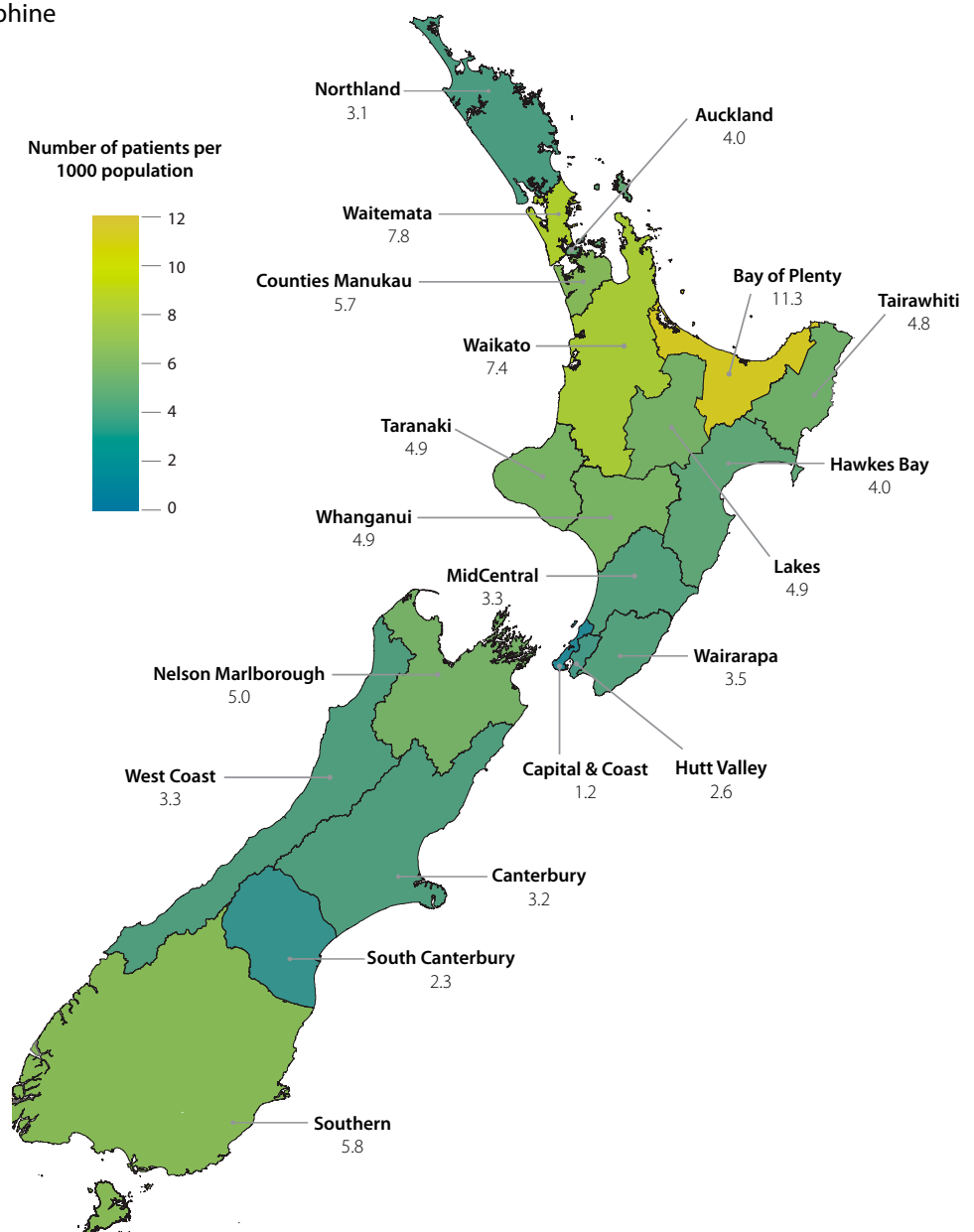


Figure 1: The number of patients per 1000 population in each DHB who had an oxycodone prescription dispensed between October, 2014 and September, 2015.

Some DHBs are running safe opioid prescribing programmes, for example, the Capital & Coast DHB Integrated Care Collaborative Programme (ICC); this has seen a reduction in the prescribing of oxycodone through the use of prescribing guidelines, education and audits. Contact your DHB for information on any local initiatives.



KEY MESSAGES – Polypharmacy (bpac^{nz} report published June, 2016)

- For many people, appropriate polypharmacy will extend life expectancy and improve quality of life
- Older patients are more likely than younger patients to be affected by problematic prescribing due to co-morbidities and reduced renal and hepatic function
- Polypharmacy may result in patient confusion as well as contributing to reduced adherence and an increased burden of treatment
- Polypharmacy increases the risk that unused medicines will accumulate and contributes to waste



A polypharmacy practice audit is available: “Monitoring polypharmacy and reducing problematic prescribing”, www.bpac.org.nz/Audits/polypharmacy.aspx



KEY MESSAGES – The use of antibiotics (bpac^{nz} report published September, 2015)

- Optimal use of antibiotics is a key objective for New Zealand. The risk of antimicrobial resistance is minimised through targeted and appropriate human, veterinary and agricultural use of antimicrobials
- The appropriate use of amoxicillin clavulanate has been a key reporting area for bpac^{nz} over the past 12 months. Nationally the use of amoxicillin clavulanate is higher in those aged 50 years and older (43% of all penicillin prescribing) – given the limited indications for this medicine it is reasonable to suggest that this use is too high.
- Pages 16–17 of this report highlight your prescribing of antibiotics in comparison to your comparator group and nationally



A prescribing audit is available: “Prescribing amoxicillin clavulanate appropriately”, www.bpac.org.nz/Audits/amoxicillin.aspx

Top 250 – Dispensed subsidised medicines

This section shows the number of patients dispensed a prescription item, the number of initial or stat prescription items dispensed and the number of items per 1,000 registered patients. For comparison:

- The comparator data shows the average number of items per practice for ten practices in your comparator group and the number of items per 1,000 registered patients in your comparator group.
- The national data shows the average number of items per practice and the number of items per 1,000 registered patients in New Zealand. The example below shows how the number of items of paracetamol per 1,000 patients was calculated.

Paracetamol	Your registered patients were dispensed 1,318 items of paracetamol, divide this by your practice's number of registered patients, 3,197, and multiply by 1,000
	$(1,318 / 3,197) * 1,000$
	412 items per 1,000 registered patients

Alimentary Tract and Metabolism

	Number of patients dispensed	Items	Items per 1000 patients	Average Items	Items per 1000 patients	Average Items	Items per 1000 patients
Antacids and Antiflatulants	Your Practice		Comparator Practices		National		
Simethicone	3	3	0.9	23.7	3.9	20.6	4.8
Antidiarrhoeals	Your Practice		Comparator Practices		National		
Loperamide hydrochloride	39	59	18.5	165.0	27.3	117.3	27.2
Mesalazine	8	30	9.4	65.5	10.8	38.0	8.8
Antispasmodics and Other Agents Altering Gut Motility	Your Practice		Comparator Practices		National		
Hyoscine N-butylbromide	25	31	9.7	93.2	15.4	78.2	18.2
Antiulcerants	Your Practice		Comparator Practices		National		
Lansoprazole	7	29	9.1	47.2	7.8	52.2	12.1
Omeprazole	363	963	301.2	1,533.8	253.6	1,251.0	290.6
Pantoprazole	32	104	32.5	281.5	46.5	185.0	43.0
Ranitidine	112	284	88.8	129.8	21.5	95.6	22.2
Diabetes	Your Practice		Comparator Practices		National		
Gliclazide	24	91	28.5	104.0	17.2	143.9	33.4
Glipizide	8	35	10.9	83.5	13.8	70.2	16.3
Insulin aspart	8	27	8.4	76.6	12.7	57.9	13.4
Insulin glargine	17	62	19.4	135.0	22.3	115.8	26.9
Insulin isophane	7	20	6.3	50.5	8.3	51.7	12.0
Insulin isophane with insulin neutral	4	10	3.1	20.9	3.5	26.8	6.2
Insulin lispro	8	28	8.8	32.2	5.3	22.7	5.3
Insulin lispro with insulin lispro protamine	4	19	5.9	25.2	4.2	20.6	4.8
Metformin hydrochloride	92	351	109.8	546.6	90.4	548.2	127.3
Diabetes Management	Your Practice		Comparator Practices		National		
Blood glucose diagnostic test strip	59	149	46.6	281.2	46.5	303.4	70.5
Insulin pen needles	25	72	22.5	102.2	16.9	108.1	25.1

Alimentary Tract and Metabolism

	Number of patients dispensed	Items	Items per 1000 patients	Average Items	Items per 1000 patients	Average Items	Items per 1000 patients
Laxatives	Your Practice			Comparator Practices		National	
Docusate sodium with sennosides	111	200	62.6	504.8	83.5	388.8	90.3
Ispaghula (psyllium) husk	83	129	40.4	106.1	17.5	76.7	17.8
Lactulose	118	164	51.3	254.7	42.1	202.4	47.0
Macrogol 3350 with potassium chloride, sodium bicarbonate and sodium chloride	8	16	5.0	81.9	13.5	54.8	12.7
Sodium citrate with sodium lauryl sulphoacetate	12	15	4.7	41.2	6.8	23.4	5.4
Local preparations for Anal and Rectal Disorders	Your Practice			Comparator Practices		National	
Fluocortolone caproate with fluocortolone pivalate and cinchocaine	16	19	5.9	135.9	22.5	90.5	21.0
Hydrocortisone with cinchocaine	25	28	8.8	37.8	6.2	31.4	7.3
Minerals	Your Practice			Comparator Practices		National	
Calcium carbonate	7	18	5.6	89.0	14.7	82.6	19.2
Ferrous fumarate	40	64	20.0	111.4	18.4	122.0	28.3
Ferrous sulphate	93	152	47.5	130.7	21.6	102.8	23.9
Potassium iodate	38	57	17.8	123.9	20.5	90.4	21.0
Mouth and Throat	Your Practice			Comparator Practices		National	
Nystatin	16	18	5.6	36.3	6.0	38.0	8.8
Vitamins	Your Practice			Comparator Practices		National	
Ascorbic acid	4	4	1.3	22.5	3.7	33.1	7.7
Calcitriol	3	16	5.0	24.7	4.1	21.8	5.1
Colecalciferol	137	389	121.7	982.7	162.5	699.7	162.5
Hydroxocobalamin	4	7	2.2	76.2	12.6	98.4	22.9
Thiamine hydrochloride	7	19	5.9	63.7	10.5	41.0	9.5
Vitamin B complex	1	1	0.3	27.0	4.5	27.3	6.3
Vitamins	14	47	14.7	145.4	24.0	142.7	33.1

Blood and Blood Forming Organs

	Number of patients dispensed	Items	Items per 1000 patients	Average Items	Items per 1000 patients	Average Items	Items per 1000 patients
Antianaemics	Your Practice			Comparator Practices		National	
Folic acid	63	99	31.0	251.9	41.6	185.0	43.0
Antifibrinolytics, Haemostatics and Local Sclerosants	Your Practice			Comparator Practices		National	
Tranexamic acid	41	56	17.5	42.1	7.0	33.9	7.9
Antithrombotic Agents	Your Practice			Comparator Practices		National	
Aspirin	126	391	122.3	1,436.9	237.6	1,218.8	283.1
Clopidogrel	30	101	31.6	176.3	29.1	119.5	27.8
Dabigatran	32	107	33.5	142.3	23.5	123.2	28.6
Dipyridamole	7	34	10.6	30.9	5.1	28.4	6.6
Enoxaparin sodium	10	16	5.0	29.0	4.8	21.6	5.0
Warfarin sodium	31	175	54.7	323.8	53.5	233.8	54.3

Blood and Blood Forming Organs

	Number of patients dispensed	Items	Items per 1000 patients	Average Items	Items per 1000 patients	Average Items	Items per 1000 patients
Fluids and Electrolytes	Your Practice			Comparator Practices		National	
Compound electrolytes	13	13	4.1	70.8	11.7	51.9	12.1
Dextrose with electrolytes	16	17	5.3	32.4	5.4	57.2	13.3
Potassium chloride	20	50	15.6	63.4	10.5	51.2	11.9

Cardiovascular System

	Number of patients dispensed	Items	Items per 1000 patients	Average Items	Items per 1000 patients	Average Items	Items per 1000 patients
Agents Affecting the Renin-Angiotensin System	Your Practice			Comparator Practices		National	
Candesartan cilexetil	38	142	44.4	372.2	61.5	263.9	61.3
Cilazapril	167	580	181.4	895.3	148.0	733.8	170.4
Cilazapril with hydrochlorothiazide	63	225	70.4	249.7	41.3	238.1	55.3
Enalapril maleate	1	4	1.3	225.5	37.3	89.5	20.8
Lisinopril	13	43	13.5	50.0	8.3	49.6	11.5
Losartan potassium	114	392	122.6	139.4	23.0	166.5	38.7
Losartan potassium with hydrochlorothiazide	55	188	58.8	14.4	2.4	32.5	7.6
Quinapril	52	182	56.9	418.3	69.2	361.2	83.9
Quinapril with hydrochlorothiazide	16	58	18.1	126.6	20.9	105.6	24.5
Alpha Adrenoceptor Blockers	Your Practice			Comparator Practices		National	
Doxazosin	116	412	128.9	311.1	51.4	225.2	52.3
Terazosin	11	35	10.9	76.5	12.6	76.2	17.7
Antiarrhythmics	Your Practice			Comparator Practices		National	
Digoxin	16	66	20.6	115.8	19.1	82.4	19.1
Flecainide acetate	5	17	5.3	53.2	8.8	21.7	5.0
Beta Adrenoceptor Blockers	Your Practice			Comparator Practices		National	
Atenolol	7	27	8.4	95.7	15.8	64.4	15.0
Bisoprolol fumarate	8	34	10.6	39.0	6.4	80.9	18.8
Carvedilol	12	50	15.6	68.0	11.2	52.5	12.2
Celiprolol	14	54	16.9	35.3	5.8	23.1	5.4
Metoprolol succinate	158	602	188.3	1,096.5	181.3	937.3	217.7
Nadolol	34	127	39.7	39.0	6.4	22.3	5.2
Propranolol	3	7	2.2	64.2	10.6	38.7	9.0
Sotalol	6	22	6.9	33.7	5.6	25.9	6.0
Calcium Channel Blockers	Your Practice			Comparator Practices		National	
Amlodipine	28	100	31.3	295.5	48.9	313.8	72.9
Diltiazem hydrochloride	49	192	60.1	289.1	47.8	218.1	50.7
Felodipine	108	401	125.4	478.3	79.1	447.7	104.0
Verapamil hydrochloride	7	31	9.7	40.0	6.6	28.9	6.7

Cardiovascular System

	Number of patients dispensed	Items	Items per 1000 patients	Average Items	Items per 1000 patients	Average Items	Items per 1000 patients
Diuretics	Your Practice			Comparator Practices		National	
Bendroflumethiazide [Bendrofluazide]	73	257	80.4	478.2	79.1	301.0	69.9
Chlorthalidone [Chlorthalidone]	6	16	5.0	24.3	4.0	28.7	6.7
Furosemide [Frusemide]	48	170	53.2	392.7	64.9	367.9	85.5
Spironolactone	20	72	22.5	117.6	19.4	92.5	21.5
Lipid-Modifying Agents	Your Practice			Comparator Practices		National	
Atorvastatin	318	1,153	360.7	1,449.9	239.7	1,148.8	266.8
Bezafibrate	10	31	9.7	54.5	9.0	51.4	11.9
Ezetimibe	30	109	34.1	108.0	17.9	73.5	17.1
Pravastatin	2	5	1.6	56.3	9.3	47.0	10.9
Simvastatin	141	518	162.0	705.3	116.6	627.6	145.8
Nitrates	Your Practice			Comparator Practices		National	
Glyceryl trinitrate	45	57	17.8	92.9	15.4	83.8	19.5
Isosorbide mononitrate	25	87	27.2	121.1	20.0	110.5	25.7

Dermatologicals

	Number of patients dispensed	Items	Items per 1000 patients	Average Items	Items per 1000 patients	Average Items	Items per 1000 patients
Antiacne Preparations	Your Practice			Comparator Practices		National	
Adapalene	35	45	14.1	50.5	8.3	24.1	5.6
Isotretinoin	27	94	29.4	94.2	15.6	40.6	9.4
Antibacterials Topical	Your Practice			Comparator Practices		National	
Fusidic acid	53	56	17.5	203.9	33.7	180.4	41.9
Hydrogen peroxide	6	7	2.2	40.8	6.7	40.2	9.3
Mupirocin	89	99	31.0	97.4	16.1	62.9	14.6
Antifungals Topical	Your Practice			Comparator Practices		National	
Clotrimazole	26	27	8.4	49.0	8.1	65.5	15.2
Miconazole nitrate	26	26	8.1	101.1	16.7	69.9	16.2
Antipruritic Preparations	Your Practice			Comparator Practices		National	
Calamine	3	3	0.9	19.9	3.3	29.4	6.8
Barrier Creams and Emollients	Your Practice			Comparator Practices		National	
Aqueous cream	11	12	3.8	102.8	17.0	91.0	21.1
Cetomacrogol	24	33	10.3	101.9	16.8	96.0	22.3
Cetomacrogol with glycerol	72	95	29.7	140.7	23.3	126.5	29.4
Emulsifying ointment	6	7	2.2	90.5	15.0	51.3	11.9
Oil in water emulsion	29	48	15.0	199.2	32.9	132.6	30.8
Urea	17	29	9.1	73.9	12.2	56.5	13.1
Zinc and castor oil	4	4	1.3	36.0	6.0	25.9	6.0

Dermatologicals

	Number of patients dispensed	Items	Items per 1000 patients	Average Items	Items per 1000 patients	Average Items	Items per 1000 patients
Corticosteroids Topical	Your Practice		Comparator Practices		National		
Betamethasone valerate	46	68	21.3	122.7	20.3	88.2	20.5
Clobetasol propionate	65	85	26.6	147.3	24.4	102.0	23.7
Hydrocortisone	76	92	28.8	238.6	39.4	175.9	40.9
Hydrocortisone and paraffin liquid and lanolin	1	2	0.6	37.8	6.2	31.4	7.3
Hydrocortisone butyrate	77	100	31.3	270.7	44.8	218.0	50.6
Hydrocortisone with miconazole	112	153	47.9	201.8	33.4	173.4	40.3
Hydrocortisone with natamycin and neomycin	69	88	27.5	225.6	37.3	156.8	36.4
Methylprednisolone aceponate	35	59	18.5	47.8	7.9	29.2	6.8
Mometasone furoate	38	51	16.0	157.2	26.0	84.6	19.6
Other Skin Preparations	Your Practice		Comparator Practices		National		
Fluorouracil sodium	13	13	4.1	72.2	11.9	50.6	11.8
Parasiticial Preparations	Your Practice		Comparator Practices		National		
Malathion with permethrin and piperonyl butoxide	1	2	0.6	8.6	1.4	24.4	5.7
Permethrin	3	4	1.3	32.3	5.3	38.4	8.9
Psoriasis and Eczema Preparations	Your Practice		Comparator Practices		National		
Betamethasone dipropionate with calcipotriol	27	45	14.1	41.9	6.9	32.3	7.5
Pine tar with trolamine laurilsulfate and fluorescein	19	23	7.2	25.2	4.2	34.4	8.0
Scalp Preparations	Your Practice		Comparator Practices		National		
Hydrocortisone butyrate	12	14	4.4	38.6	6.4	24.4	5.7
Ketoconazole	42	67	21.0	58.0	9.6	48.7	11.3

Genito-Urinary System

	Number of patients dispensed	Items	Items per 1000 patients	Average Items	Items per 1000 patients	Average Items	Items per 1000 patients
Antiandrogen Oral Contraceptives	Your Practice		Comparator Practices		National		
Cyproterone acetate with ethinylloestradiol	61	111	34.7	146.1	24.2	67.0	15.6
Contraceptives - Hormonal	Your Practice		Comparator Practices		National		
Ethinylloestradiol with levonorgestrel	73	131	41.0	332.2	54.9	219.0	50.9
Ethinylloestradiol with norethisterone	16	29	9.1	77.7	12.8	44.4	10.3
Norethisterone	48	75	23.5	103.0	17.0	72.4	16.8
Contraceptives - Non-hormonal	Your Practice		Comparator Practices		National		
Condoms	25	28	8.8	76.6	12.7	46.8	10.9
Gynaecological Anti-infectives	Your Practice		Comparator Practices		National		
Clotrimazole	82	104	32.5	133.0	22.0	101.5	23.6
Myometrial and Vaginal Hormone Preparations	Your Practice		Comparator Practices		National		
Oestril	64	119	37.2	223.5	37.0	119.9	27.9

Genito-Urinary System

	Number of patients dispensed	Items	Items per 1000 patients	Average Items	Items per 1000 patients	Average Items	Items per 1000 patients
Urinary Agents	Your Practice			Comparator Practices		National	
Finasteride	16	50	15.6	57.7	9.5	40.0	9.3
Oxybutynin	30	62	19.4	81.0	13.4	59.0	13.7
Sodium citro-tartrate	55	61	19.1	50.7	8.4	49.8	11.6
Solifenacin succinate	10	26	8.1	51.5	8.5	41.1	9.5

Hormone Preparations - Systemic Excluding Contraceptive Hormones

	Number of patients dispensed	Items	Items per 1000 patients	Average Items	Items per 1000 patients	Average Items	Items per 1000 patients
Corticosteroids and Related Agents for Systemic Use	Your Practice			Comparator Practices		National	
Dexamethasone	9	19	5.9	37.8	6.2	29.0	6.7
Prednisolone	39	58	18.1	122.8	20.3	104.2	24.2
Prednisone	297	458	143.3	783.6	129.6	613.7	142.5
Hormone Replacement Therapy - Systemic	Your Practice			Comparator Practices		National	
Medroxyprogesterone acetate	10	22	6.9	50.1	8.3	29.9	6.9
Oestradiol	6	20	6.3	61.1	10.1	21.9	5.1
Oestradiol valerate	5	12	3.8	75.1	12.4	27.0	6.3
Thyroid and Antithyroid Agents	Your Practice			Comparator Practices		National	
Carbimazole	8	14	4.4	31.3	5.2	24.9	5.8
Levothyroxine	93	426	133.2	763.8	126.3	522.7	121.4

Infections - Agents for Systemic Use

	Number of patients dispensed	Items	Items per 1000 patients	Average Items	Items per 1000 patients	Average Items	Items per 1000 patients
Antibacterials	Your Practice			Comparator Practices		National	
Amoxicillin	470	649	203.0	1,486.6	245.8	1,231.8	286.1
Amoxicillin with clavulanic acid	917	1,407	440.1	807.9	133.6	735.4	170.8
Azithromycin	20	20	6.3	64.4	10.6	42.1	9.8
Cefaclor monohydrate	210	267	83.5	142.5	23.6	159.2	37.0
Cefalexin	22	22	6.9	126.4	20.9	113.6	26.4
Ciprofloxacin	54	64	20.0	115.7	19.1	76.6	17.8
Co-trimoxazole	172	259	81.0	167.6	27.7	148.1	34.4
Doxycycline	214	262	82.0	454.4	75.1	259.6	60.3
Erythromycin ethyl succinate	62	90	28.2	212.6	35.2	172.5	40.1
Flucloxacillin	118	149	46.6	588.6	97.3	422.0	98.0
Phenoxymethylpenicillin (Penicillin V)	50	59	18.5	131.7	21.8	87.1	20.2
Roxithromycin	317	387	121.1	324.8	53.7	202.5	47.0
Trimethoprim	40	46	14.4	244.0	40.3	165.9	38.5

Infections - Agents for Systemic Use

	Number of patients dispensed	Items	Items per 1000 patients	Average Items	Items per 1000 patients	Average Items	Items per 1000 patients
Antifungals	Your Practice		Comparator Practices		National		
Fluconazole	11	21	6.6	46.0	7.6	33.0	7.7
Terbinafine	6	6	1.9	47.5	7.9	32.5	7.5
Antitrichomonal Agents	Your Practice		Comparator Practices		National		
Metronidazole	70	82	25.6	126.3	20.9	118.0	27.4
Antivirals	Your Practice		Comparator Practices		National		
Aciclovir	60	109	34.1	182.5	30.2	103.7	24.1
Urinary Tract Infections	Your Practice		Comparator Practices		National		
Nitrofurantoin	12	16	5.0	134.9	22.3	79.4	18.4

Musculoskeletal System

	Number of patients dispensed	Items	Items per 1000 patients	Average Items	Items per 1000 patients	Average Items	Items per 1000 patients
Antirheumatoid Agents	Your Practice		Comparator Practices		National		
Hydroxychloroquine	8	25	7.8	34.1	5.6	32.5	7.6
Drugs Affecting Bone Metabolism	Your Practice		Comparator Practices		National		
Alendronate sodium	1	1	0.3	47.8	7.9	20.7	4.8
Alendronate sodium with colecalciferol	21	73	22.8	109.5	18.1	88.4	20.5
Hyperuricaemia and Antigout	Your Practice		Comparator Practices		National		
Allopurinol	71	260	81.3	385.4	63.7	368.8	85.7
Colchicine	27	41	12.8	55.2	9.1	53.6	12.5
Muscle Relaxants	Your Practice		Comparator Practices		National		
Orphenadrine citrate	32	40	12.5	51.4	8.5	74.9	17.4
Non-Steroidal Anti-Inflammatory Drugs	Your Practice		Comparator Practices		National		
Diclofenac sodium	386	546	170.8	623.8	103.1	446.8	103.8
Ibuprofen	362	488	152.6	1,114.4	184.3	981.2	227.9
Naproxen	42	61	19.1	248.3	41.1	211.6	49.1
Tenoxicam	3	3	0.9	41.4	6.8	20.8	4.8

Nervous System

	Number of patients dispensed	Items	Items per 1000 patients	Average Items	Items per 1000 patients	Average Items	Items per 1000 patients
Agents for Parkinsonism and Related Disorders	Your Practice		Comparator Practices		National		
Levodopa with carbidopa	7	37	11.6	50.9	8.4	40.1	9.3
Analgesics	Your Practice		Comparator Practices		National		
Aspirin	4	7	2.2	42.3	7.0	28.7	6.7
Codeine phosphate	113	156	48.8	558.6	92.4	450.4	104.6
Dihydrocodeine tartrate	36	73	22.8	20.2	3.3	35.8	8.3
Fentanyl				73.6	12.2	43.6	10.1
Methadone hydrochloride	1	15	4.7	91.0	15.0	94.8	22.0

Nervous System

	Number of patients dispensed	Items	Items per 1000 patients	Average Items	Items per 1000 patients	Average Items	Items per 1000 patients
Analgesics	Your Practice			Comparator Practices		National	
Morphine hydrochloride	2	4	1.3	33.4	5.5	29.2	6.8
Morphine sulphate	20	31	9.7	200.9	33.2	171.6	39.8
Oxycodone hydrochloride	20	40	12.5	165.5	27.4	128.4	29.8
Paracetamol	861	1,318	412.3	2,687.5	444.3	2,479.7	575.9
Paracetamol with codeine	380	572	178.9	263.1	43.5	309.7	71.9
Tramadol hydrochloride	225	321	100.4	461.3	76.3	421.1	97.8
Antidepressants	Your Practice			Comparator Practices		National	
Amitriptyline	74	197	61.6	331.7	54.8	253.2	58.8
Citalopram hydrobromide	78	198	61.9	545.7	90.2	350.4	81.4
Dothiepin hydrochloride	1	4	1.3	48.9	8.1	27.4	6.4
Doxepin hydrochloride	7	18	5.6	48.6	8.0	25.8	6.0
Escitalopram	119	341	106.7	168.7	27.9	117.1	27.2
Fluoxetine hydrochloride	70	218	68.2	456.6	75.5	241.7	56.1
Mirtazapine	7	15	4.7	54.4	9.0	42.3	9.8
Nortriptyline hydrochloride	44	110	34.4	220.8	36.5	148.0	34.4
Paroxetine hydrochloride	12	42	13.1	135.4	22.4	115.1	26.7
Sertraline	11	35	10.9	115.5	19.1	85.2	19.8
Venlafaxine	20	80	25.0	267.9	44.3	183.6	42.6
Antiepilepsy Drugs	Your Practice			Comparator Practices		National	
Carbamazepine	5	18	5.6	65.8	10.9	54.0	12.5
Gabapentin	31	117	36.6	141.5	23.4	126.6	29.4
Lamotrigine	6	40	12.5	78.1	12.9	49.8	11.6
Levetiracetam	3	7	2.2	33.1	5.5	28.2	6.5
Phenytoin sodium	3	15	4.7	34.8	5.8	26.0	6.0
Sodium valproate	14	61	19.1	127.9	21.1	109.7	25.5
Topiramate	6	26	8.1	26.8	4.4	22.8	5.3
Antimigraine Preparations	Your Practice			Comparator Practices		National	
Rizatriptan	23	34	10.6	76.3	12.6	51.7	12.0
Sumatriptan	13	34	10.6	68.7	11.4	41.2	9.6
Antinausea and Vertigo Agents	Your Practice			Comparator Practices		National	
Cyclizine hydrochloride	11	15	4.7	29.9	4.9	27.8	6.5
Domperidone	31	48	15.0	80.2	13.3	68.6	15.9
Metoclopramide hydrochloride	55	74	23.1	142.1	23.5	104.7	24.3
Ondansetron	141	172	53.8	194.7	32.2	158.1	36.7
Prochlorperazine	41	52	16.3	143.5	23.7	85.6	19.9
Antipsychotics	Your Practice			Comparator Practices		National	
Clozapine				45.3	7.5	34.4	8.0

Nervous System

	Number of patients dispensed	Items	Items per 1000 patients	Average Items	Items per 1000 patients	Average Items	Items per 1000 patients
Antipsychotics	Your Practice		Comparator Practices		National		
Haloperidol	2	2	0.6	40.6	6.7	26.5	6.2
Lithium carbonate	3	14	4.4	58.4	9.7	30.9	7.2
Olanzapine	9	35	10.9	98.4	16.3	76.8	17.8
Quetiapine	35	123	38.5	246.6	40.8	205.1	47.6
Risperidone	4	18	5.6	108.3	17.9	79.6	18.5
Anxiolytics	Your Practice		Comparator Practices		National		
Clonazepam	15	63	19.7	132.7	21.9	85.2	19.8
Diazepam	23	62	19.4	168.7	27.9	107.3	24.9
Lorazepam	38	82	25.6	266.5	44.1	142.2	33.0
Sedatives and Hypnotics	Your Practice		Comparator Practices		National		
Midazolam	5	12	3.8	29.1	4.8	21.4	5.0
Temazepam	7	16	5.0	97.8	16.2	59.2	13.8
Triazolam	25	63	19.7	188.1	31.1	64.0	14.9
Zopiclone	196	469	146.7	867.3	143.4	535.4	124.3
Stimulants/ADHD Treatments	Your Practice		Comparator Practices		National		
Methylphenidate hydrochloride	6	65	20.3	138.7	22.9	97.2	22.6
Methylphenidate hydrochloride extended-release	4	32	10.0	96.7	16.0	73.7	17.1
Treatments for Dementia	Your Practice		Comparator Practices		National		
Donepezil hydrochloride	5	12	3.8	46.4	7.7	31.6	7.3
Treatments for Substance Dependence	Your Practice		Comparator Practices		National		
Nicotine	44	97	30.3	154.1	25.5	159.1	37.0
Varenicline tartrate	8	19	5.9	46.6	7.7	58.2	13.5

Oncology Agents and Immunosuppressants

	Number of patients dispensed	Items	Items per 1000 patients	Average Items	Items per 1000 patients	Average Items	Items per 1000 patients
Chemotherapeutic Agents	Your Practice		Comparator Practices		National		
Methotrexate	10	39	12.2	122.9	20.3	81.2	18.9
Endocrine Therapy	Your Practice		Comparator Practices		National		
Tamoxifen citrate	6	19	5.9	35.2	5.8	21.8	5.1
Immunosuppressants	Your Practice		Comparator Practices		National		
Azathioprine	5	14	4.4	38.4	6.3	22.5	5.2

Respiratory System and Allergies

	Number of patients dispensed	Items	Items per 1000 patients	Average Items	Items per 1000 patients	Average Items	Items per 1000 patients
Anticholinergic Agents	Your Practice		Comparator Practices		National		
Ipratropium bromide	2	2	0.6	24.2	4.0	30.7	7.1
Salbutamol with ipratropium bromide	44	103	32.2	56.2	9.3	73.6	17.1

Respiratory System and Allergies

	Number of patients dispensed	Items	Items per 1000 patients	Average Items	Items per 1000 patients	Average Items	Items per 1000 patients
Anticholinergic Agents		Your Practice		Comparator Practices		National	
Tiotropium bromide	4	17	5.3	61.9	10.2	75.3	17.5
Antihistamines		Your Practice		Comparator Practices		National	
Cetirizine hydrochloride	528	976	305.3	498.3	82.4	406.0	94.3
Loratadine	88	140	43.8	601.0	99.4	511.8	118.9
Promethazine hydrochloride	14	20	6.3	96.3	15.9	87.2	20.2
Beta-Adrenoceptor Agonists		Your Practice		Comparator Practices		National	
Salbutamol	258	453	141.7	1,002.1	165.7	835.1	194.0
Terbutaline sulphate	31	41	12.8	54.3	9.0	35.2	8.2
Inhaled Corticosteroids		Your Practice		Comparator Practices		National	
Beclomethasone dipropionate	1	1	0.3	56.5	9.3	33.4	7.8
Budesonide	11	24	7.5	51.3	8.5	27.0	6.3
Fluticasone	96	175	54.7	391.0	64.6	273.5	63.5
Inhaled Long-acting Beta-adrenoceptor Agonists		Your Practice		Comparator Practices		National	
Budesonide with eformoterol	18	44	13.8	179.3	29.6	153.4	35.6
Fluticasone with salmeterol	356	700	219.0	382.7	63.3	301.3	70.0
Nasal Preparations		Your Practice		Comparator Practices		National	
Beclomethasone dipropionate	2	4	1.3	115.2	19.0	55.2	12.8
Budesonide	49	117	36.6	105.6	17.5	57.7	13.4
Fluticasone propionate	492	878	274.6	500.7	82.8	354.3	82.3
Ipratropium bromide	14	38	11.9	45.9	7.6	24.5	5.7

Sensory Organs

	Number of patients dispensed	Items	Items per 1000 patients	Average Items	Items per 1000 patients	Average Items	Items per 1000 patients
Ear/Eye Preparations		Your Practice		Comparator Practices		National	
Dexamethasone with framycetin and gramicidin	31	36	11.3	96.0	15.9	55.2	12.8
Ear Preparations		Your Practice		Comparator Practices		National	
Flumetasone pivalate	52	67	21.0	66.3	11.0	49.0	11.4
Triamcinolone acetonide with gramicidin, neomycin and nystatin	6	6	1.9	23.0	3.8	27.4	6.4
Eye Preparations		Your Practice		Comparator Practices		National	
Bimatoprost	8	25	7.8	37.9	6.3	24.3	5.7
Chloramphenicol	147	204	63.8	348.2	57.6	240.5	55.8
Fusidic acid	33	50	15.6	90.5	15.0	58.9	13.7
Hypromellose with Dextran	35	51	16.0	73.2	12.1	72.3	16.8
Latanoprost	15	52	16.3	120.7	20.0	81.9	19.0
Olopatadine	115	178	55.7	68.7	11.4	44.3	10.3
Prednisolone acetate	20	38	11.9	66.7	11.0	42.5	9.9
Sodium cromoglycate	1	3	0.9	35.0	5.8	24.6	5.7
Timolol	8	27	8.4	54.4	9.0	28.3	6.6



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