Sample Practice

2015 Annual Practice Report



Welcome to your annual practice report

This report has been developed to give you 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, 2014 and 30 June, 2015 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 4.32 million patients registered to 1028 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 are likely to 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. 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 813 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 weekly or daily.

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 there is a number 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.**

5. Laboratory data

In July this year our contract to provide laboratory test utilisation data and education to general practitioners in New Zealand finished. Therefore this report does not contain an overview of your laboratory testing.



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 genuine differences in your prescribing practices compared with your comparator practices.



Further investigation of your prescribing

Undertaking an audit or peer group discussion around these medicines 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 types of resources can help instigate change and lead to more appropriate use of medicines and facilitate best practice.

www.bpac.org.nz

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

- Your prescribing practice and decision making is 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



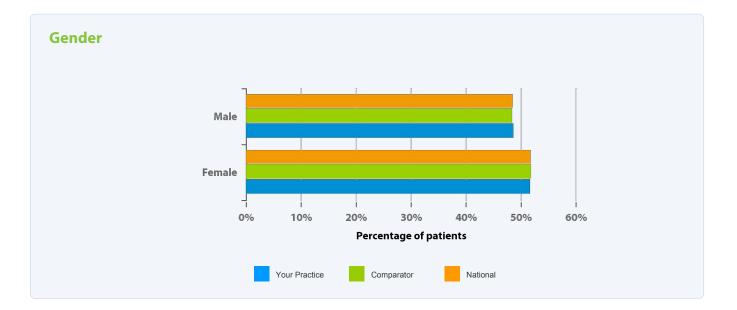
Demographics of your practice patients

This section describes the demographic characteristics 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 2015 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

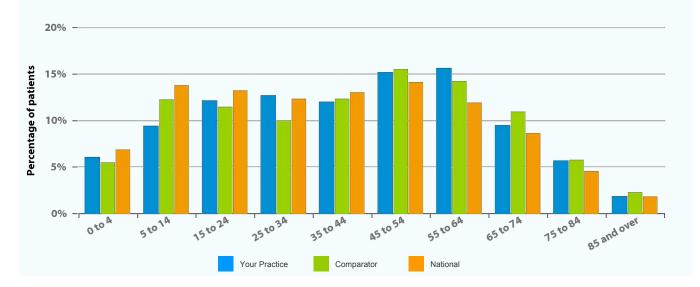
Number of patients	
Patients registered to your practice	2,883
Average number of registered patients per practice in your comparator group	6,646
Average number of registered patients per practice in New Zealand	4,203



Demographics of your practice patients

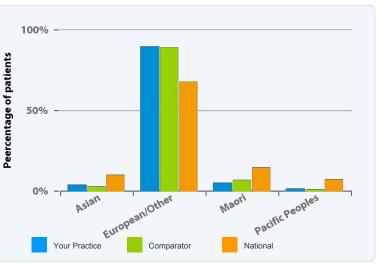
Age group

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



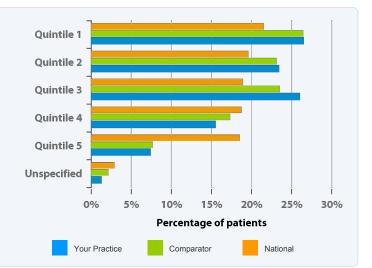
Ethnic group

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.





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.



Practice overview



Quick facts for Sample Practice Between July, 2014 and June, 2015

Summary of prescribing volume	Your Practice	Your Comparator (avg per practice)	National (avg per practice)	
Number of distinct medicines prescribed for your patients	442			
Number of prescribers that prescribed for your patients	993	1,159	993	
Number of prescription items dispensed	39,740	68,068	39,740	
Number of prescription items per 1,000 patients	9,454	10,242	9,454	
Average prescription items per patient	9	10	9	
Distinct patients that received a medicine	3,219	5,239	3,219	
Percentage of registered patients dispensed at least one medicine	77%	79%	77%	
Percentage of items that are in the national top 250 dispensed medicines	94%	94%	94%	
Summary of medicines cost	Your Practice	Your Comparator (avg per practice)	National (avg per practice)	
Medicine Cost	\$830,939	\$1,577,804	\$830,939	
Medicine cost per 1,000 population	\$197,683	\$237,407	\$197,683	
Average medicine cost per item	\$20.91	\$23.18	\$20.91	
Average medicine cost per patient	\$197.68	\$237.41	\$197.68	

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, 2014 and June, 2015.

The table on the right below shows the top 20 highest cost[#] medicines dispensed nationally between July, 2014 and June, 2015.

The example below, shows you how to work out the number of items per 1,000 patients.

	Paracetamol	Nationally, 2,378,932 registered patients were dispensed paracetamol, divide this by the national number of registered patients, 4,321,087, and multiply by 1,000
		(2,378,932 / 4,321,087) * 1,000
		551 items per 1,000 registered patients

Top	20 highest volume	National
	cines - Nationally	Items per 1000 patients
1	Paracetamol	551
2	Aspirin	298
3	Omeprazole	283
4	Amoxicillin	252
5	Atorvastatin	249
6	Metoprolol succinate	219
7	Ibuprofen	211
8	Salbutamol	190
9	Simvastatin	165
10	Cilazapril	165
11	Amoxicillin with clavulanic acid	161
12	Cholecalciferol	159
13	Prednisone	137
14	Metformin hydrochloride	123
15	Zopiclone	121
16	Levothyroxine	116
17	Loratadine	112
18	Diclofenac sodium	104
19	Felodipine	104
20	Codeine phosphate	101

Тор	20 highest cost medicines -	National
	onally	Drug Cost per 1000 patients
1	Dabigatran	\$8,062
2	Fluticasone with salmeterol	\$7,146
3	Budesonide with eformoterol	\$4,837
4	Insulin glargine	\$4,307
5	Tiotropium bromide	\$3,131
6	Blood glucose diagnostic test strip	\$2,870
7	Sodium valproate	\$2,223
8	Lamotrigine	\$2,083
9	Mesalazine	\$1,947
10	Varenicline tartrate	\$1,929
11	Venlafaxine	\$1,908
12	Fluticasone	\$1,773
13	Risperidone	\$1,631
14	Salbutamol	\$1,579
15	Ezetimibe	\$1,564
16	Olanzapine	\$1,516
17	Atorvastatin	\$1,430
18	Carvedilol	\$1,423
19	Insulin aspart	\$1,398
20	Metoprolol succinate	\$1,181

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, 2014 and June, 2015. To enable comparisons, we have also provided the number of items per 1,000 patients for the 10 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.

This table shows the top 20 highest cost medicines dispensed for **your practice** between July, 2014 and June, 2015. To enable comparisons, we have also provided the cost per 1,000 patients for the 10 practices in your comparator group and nationally.

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

Top 20 highest volume medicines - Your Practice		Your F	Practice	Comparator	National	
		Items	Items per 1000 patients	Items per 1000 patients	ltems per 1000 patients	
1	Paracetamol	2,314	551	504	551	
2	Aspirin	1,252	298	338	298	
3	Omeprazole	1,190	283	328	283	
4	Amoxicillin	1,060	252	201	252	
5	Atorvastatin	1,046	249	307	249	
6	Metoprolol succinate	919	219	242	219	
7	Ibuprofen	886	211	229	211	
8	Salbutamol	799	190	162	190	
9	Simvastatin	695	165	179	165	
10	Cilazapril	693	165	197	165	
11	Amoxicillin with clavulanic acid	678	161	151	161	
12	Cholecalciferol	668	159	237	159	
13	Prednisone	574	137	163	137	
14	Metformin hydrochloride	516	123	94	123	
15	Zopiclone	507	121	141	121	
16	Levothyroxine	489	116	135	116	
17	Loratadine	472	112	92	112	
18	Diclofenac sodium	439	104	96	104	
19	Felodipine	437	104	105	104	
20	Codeine phosphate	422	101	122	101	

Top 20 highest cost medicines -		Your F	Practice	Comparator	National	
100 C	r Practice	Drug Cost Drug cost per 1000 patients		Drug cost per 1000 patients	Drug cost per 1000 patients	
1	Dabigatran	\$33,887	\$8,062	\$12,068	\$8,062	
2	Fluticasone with salmeterol	\$30,035	\$7,146	\$7,589	\$7,146	
3	Budesonide with eformoterol	\$20,331	\$4,837	\$5,886	\$4,837	
4	Insulin glargine	\$18,103	\$4,307	\$5,224	\$4,307	
5	Tiotropium bromide	\$13,160	\$3,131	\$3,762	\$3,131	
6	Blood glucose diagnostic test strip	\$12,062	\$2,870	\$3,011	\$2,870	
7	Sodium valproate	\$9,344	\$2,223	\$2,097	\$2,223	
8	Lamotrigine	\$8,754	\$2,083	\$2,927	\$2,083	
9	Mesalazine	\$8,183	\$1,947	\$2,516	\$1,947	
10	Varenicline tartrate	\$8,110	\$1,929	\$1,974	\$1,929	
11	Venlafaxine	\$8,018	\$1,908	\$3,326	\$1,908	
12	Fluticasone	\$7,452	\$1,773	\$1,685	\$1,773	
13	Risperidone	\$6,854	\$1,631	\$433	\$1,631	
14	Salbutamol	\$6,636	\$1,579	\$1,371	\$1,579	
15	Ezetimibe	\$6,573	\$1,564	\$2,139	\$1,564	
16	Olanzapine	\$6,371	\$1,516	\$797	\$1,516	
17	Atorvastatin	\$6,011	\$1,430	\$1,713	\$1,430	
18	Carvedilol	\$5,981	\$1,423	\$1,958	\$1,423	
19	Insulin aspart	\$5,877	\$1,398	\$1,824	\$1,398	
20	Metoprolol succinate	\$4,964	\$1,181	\$1,316	\$1,181	

8

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 – Polypharmacy (bpac^{nz} report published Nov, 2014)

- Over the last five years the proportion of the population experiencing either polypharmacy (5+ medicines) or excessive polypharmacy (10+ medicines) has continued to increase with >11% of the population having five or more medicines between July 2014 and June 2015 (Figure 1)
- Not all polypharmacy is problematic when the potential benefits outweigh the potential harms the use of multiple medicines can be appropriate
- Patients with polypharmacy are more likely to have multiple prescribers than those with fewer medicines. Asking patients if they have visited another health professional is a simple way of checking if their medicine regimen may have been altered.



Ge For further information see: Polypharmacy report, November, 2014 www.bpac.org.nz

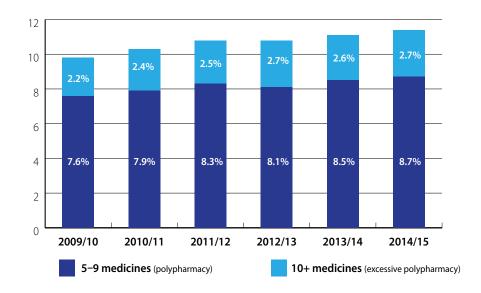


Figure 1: Proportion of polypharmacy in the New Zealand population over the last five years

Want more tips on managing polypharmacy? Download the polypharmacy peer group discussion **www.bpac.org.nz/PeerGroupDiscussions/polypharmacy.aspx**



KEY MESSAGES – Renal function testing in people taking dabigatran (bpac^{nz} report published Mar, 2015)

- 32% of patients taking oral anticoagulants are now treated with dabigatran
- Dabigatran is primarily renally excreted and to ensure appropriate dosing it is recommended that renal function is assessed:
 - Prior to initiation of dabigatran (baseline testing)
 - At least annually for patients aged over 75 years (ongoing monitoring)
 - At least annually but ideally three to six monthly in those who have a creatinine clearance of 30 – 50 mL/min (ongoing monitoring)
- The figure below shows that 83% of patients dispensed dabigatran received ongoing monitoring. However only 70% had a baseline test at initiation of dabigatran between July 2014 and June 2015.

Between July, 2014 and June, 2015, 83% of patients dispensed dabigatran (17,360 people) had a creatinine test performed as part of ongoing monitoring (within 12 months).



Between July, 2014 and June, 2015, **70% of patients initiated on dabigatran (10,228 people) had a baseline creatinine test performed** (between 3 months prior and 3 weeks after their first dispensing of dabigatran)

See Page 12 for the

use of dabigatran by

your practice

Ge For further information see: "An update on antithrombotic medicines – What does primary care need to know?", BPJ67 (April, 2015). Available from www.bpac.org.nz



83%

KEY MESSAGES – The use of Antibiotics

- Optimal use of antibiotics is a key objective for the government as 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 12months. Nationally the use of amoxicillin clavulanate is higher in those aged 50 years and older (43% of all penicillin prescribing) with limited indications it is reasonable to suggest that this use is too high.
- Pages 16-17 highlight your prescribing of antibiotics in comparison to you peers and nationally.

Top 250 – Dispensed subsidised medicines

In this section, the data shown for your practice is the number of patients dispensed a prescription item, 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 10 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 you how to work out the number of items per 1,000 patients.

	your registered patients were dispensed 2,314 items of paracetamol, divide this with your practice's number of registered patients, 4,203, and multiply by 1,000
Paracetamol	(2,314 / 4,203) * 1,000
	551 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	19	24	6	27	4	24	6
Antidiarrhoeals	`	Your Practice		Comparato	or Practices	National	
Loperamide hydrochloride	76	111	27	222	33	111	27
Mesalazine	11	36	9	73	11	36	9
Antispasmodics and Other Agents Altering Gut Motility	Your Practice C		Comparator Practices		National		
Hyoscine N-butylbromide	58	75	18	137	21	75	18
Antiulcerants	Your Practice		Comparato	or Practices	National		
Lansoprazole	18	51	12	225	34	51	12
Omeprazole	443	1,190	283	2,179	328	1,190	283
Pantoprazole	55	175	42	431	65	175	42
Ranitidine	42	91	22	183	28	91	22
Diabetes	,	Your Practice		Comparator Practices		National	
Gliclazide	40	139	33	180	27	139	33
Glipizide	19	69	16	88	13	69	16
Insulin aspart	16	55	13	103	15	55	13
Insulin glargine	27	99	24	181	27	99	24
Insulin isophane	16	54	13	75	11	54	13
Insulin isophane with insulin neutral	7	30	7	27	4	30	7
Insulin lispro	6	23	5	53	8	23	5
Insulin lispro with insulin lispro protamine	5	21	5	24	4	21	5
Metformin hydrochloride	149	516	123	623	94	516	123
Diabetes Management	•	Your Practice		Comparator Practices		National	
Blood glucose diagnostic test strip	109	297	71	385	58	297	71
Insulin pen needles	41	97	23	152	23	97	23

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	156	347	83	623	94	347	83
Ispaghula (psyllium) husk	47	72	17	140	21	72	17
Lactulose	125	195	46	261	39	195	46
Macrogol 3350 with potassium chloride, sodium bicarbonate and sodium chloride	22	52	12	116	17	52	12
Sodium citrate with sodium lauryl sulphoacetate	16	22	5	32	5	22	5
Local preparations for Anal and Rectal Disorders	Your Practice		Comparato	or Practices	National		
Fluocortolone caproate with fluocortolone pivalate and cinchocaine	60	87	21	165	25	87	21
Hydrocortisone with cinchocaine	22	29	7	49	7	29	7
Minerals	Yo	our Practice		Comparator Practices		National	
Calcium carbonate	37	100	24	222	33	100	24
Ferrous fumarate	80	127	30	239	36	127	30
Ferrous sulphate	57	87	21	127	19	87	21
Potassium iodate	58	86	20	121	18	86	20
Mouth and Throat	Ye	our Practice		Comparator Practices		National	
Nystatin	28	37	9	65	10	37	9
Vitamins	Ye	our Practice		Comparato	or Practices	National	
Ascorbic acid	17	32	8	38	6	32	8
Calcitriol	6	21	5	34	5	21	5
Cholecalciferol	217	668	159	1,576	237	668	159
Hydroxocobalamin	47	91	22	253	38	91	22
Thiamine hydrochloride	12	37	9	64	10	37	9
Vitamin B complex	10	26	6	41	6	26	6
Vitamins	50	145	35	257	39	145	35

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	Yo	our Practice		Comparato	or Practices	Nat	ional
Folic acid	85	182	43	308	46	182	43
Antifibrinolytics, Haemostatics and Local Sclerosants	Yo	our Practice		Comparato	or Practices	Nat	ional
Tranexamic acid	24	32	8	48	7	32	8
Antithrombotic Agents	Yo	our Practice		Comparator Practices		National	
Aspirin	347	1,222	291	2,201	331	1,222	291
Clopidogrel	32	106	25	194	29	106	25
Dabigatran	27	91	22	211	32	91	22
Dipyridamole	9	34	8	66	10	34	8
Warfarin sodium	46	240	57	439	66	240	57

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	Yo	our Practice		Comparato	or Practices	Nat	ional
Compound electrolytes	44	47	11	56	8	47	11
Dextrose with electrolytes	49	61	15	44	7	61	15
Potassium chloride	19	53	13	79	12	53	13

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	Ŷ	our Practice		Comparato	or Practices	Nati	onal
Candesartan cilexetil	62	248	59	516	78	248	59
Cilazapril	199	693	165	1,309	197	693	165
Cilazapril with hydrochlorothiazide	68	237	56	425	64	237	56
Enalapril maleate	24	90	21	236	36	90	21
Lisinopril	13	46	11	113	17	46	11
Losartan potassium	38	141	34	259	39	141	34
Losartan potassium with hydrochlorothiazide	8	29	7	53	8	29	7
Quinapril	99	365	87	382	58	365	87
Quinapril with hydrochlorothiazide	30	107	25	111	17	107	25
Alpha Adrenoceptor Blockers	Y	our Practice		Comparato	or Practices	Nat	onal
Doxazosin	65	214	51	422	63	214	51
Terazosin	21	76	18	153	23	76	18
Antiarrhythmics	Y	our Practice		Comparato	or Practices	Nat	onal
Digoxin	21	86	21	153	23	86	21
Flecainide acetate	5	20	5	43	6	20	5
Beta Adrenoceptor Blockers	Y	Your Practice Comparator		or Practices	Nat	onal	
Atenolol	19	70	17	108	16	70	17
Bisoprolol fumarate	16	46	11	181	27	46	11
Carvedilol	12	52	12	105	16	52	12
Celiprolol	6	25	6	51	8	25	6
Metoprolol succinate	229	919	219	1,606	242	919	219
Nadolol	7	22	5	37	6	22	5
Propranolol	14	37	9	88	13	37	9
Sotalol	7	26	6	43	6	26	6
Calcium Channel Blockers	Y	our Practice		Comparato	or Practices	Nat	onal
Amlodipine	79	279	66	509	77	279	66
Diltiazem hydrochloride	54	218	52	430	65	218	52
Felodipine	119	437	104	695	105	437	104
Verapamil hydrochloride	8	30	7	68	10	30	7

B

Cardiovascular System

	Number of patients dispensed	Items	Items per 1000 patients	Average Items	Items per 1000 patients	Average Items	Items per 1000 patients
Diuretics	Y	our Practice		Comparato	Comparator Practices		ional
Bendroflumethiazide [Bendrofluazide]	93	318	76	578	87	318	76
Chlortalidone [Chlorthalidone]	8	23	6	17	3	23	6
Furosemide [Frusemide]	95	364	87	667	100	364	87
Spironolactone	26	89	21	183	27	89	21
Lipid-Modifying Agents	Your Practice		Comparator Practices		National		
Atorvastatin	302	1,046	249	2,042	307	1,046	249
Bezafibrate	16	54	13	159	24	54	13
Ezetimibe	20	71	17	149	22	71	17
Pravastatin	14	41	10	119	18	41	10
Simvastatin	192	695	165	1,192	179	695	165
Nitrates	Y	Your Practice		Comparator Practices		National	
Glyceryl trinitrate	58	84	20	160	24	84	20
Isosorbide mononitrate	29	115	27	248	37	115	27

Dermatologicals

	Number of patients dispensed	Items	Items per 1000 patients	Average Items	Items per 1000 patients	Average Items	Items per 1000 patients
Antiacne Preparations	Y	our Practice		Comparato	or Practices	Nat	onal
Adapalene	17	23	6	46	7	23	6
Isotretinoin	14	27	6	46	7	27	6
Antibacterials Topical	Y	our Practice		Comparato	or Practices	National	
Fusidic acid	164	191	45	216	33	191	45
Hydrogen peroxide	25	28	7	33	5	28	7
Mupirocin	65	73	17	154	23	73	17
Antifungals Topical	Your Practice Comparator Practices		Nat	onal			
Ciclopirox olamine	20	22	5	55	8	22	5
Clotrimazole	49	63	15	57	9	63	15
Miconazole nitrate	55	66	16	109	16	66	16
Antipruritic Preparations	Y	our Practice		Comparator Practices		National	
Calamine	24	26	6	23	3	26	6
Barrier Creams and Emollients	Y	our Practice		Comparato	or Practices	Nat	onal
Aqueous cream	71	103	24	176	26	103	24
Cetomacrogol	79	105	25	158	24	105	25
Cetomacrogol with glycerol	51	68	16	61	9	68	16
Emulsifying ointment	42	57	14	70	10	57	14
Oil in water emulsion	100	137	33	187	28	137	33
Urea	36	57	14	74	11	57	14
Zinc and castor oil	20	25	6	27	4	25	6

Dermatologicals

	Number of patients dispensed	Items	Items per 1000 patients	Average Items	Items per 1000 patients	Average Items	Items per 1000 patients
Corticosteroids Topical	Y	our Practice		Comparato	or Practices	Nat	ional
Betamethasone valerate	61	87	21	104	16	87	21
Clobetasol propionate	71	100	24	157	24	100	24
Hydrocortisone	133	170	40	241	36	170	40
Hydrocortisone and paraffin liquid and lanolin	19	22	5	31	5	22	5
Hydrocortisone butyrate	159	213	51	315	47	213	51
Hydrocortisone with miconazole	131	164	39	255	38	164	39
Hydrocortisone with natamycin and neomycin	126	153	36	262	39	153	36
Methylprednisolone aceponate	21	26	6	42	6	26	6
Mometasone furoate	61	82	20	139	21	82	20
Other Skin Preparations	Y	our Practice		Comparato	or Practices	Nat	ional
Fluorouracil sodium	44	48	12	144	22	48	12
Parasiticidal Preparations	Y	our Practice		Comparato	or Practices	Nat	ional
Permethrin	36	42	10	35	5	42	10
Psoriasis and Eczema Preparations	Y	our Practice		Comparato	or Practices	Nat	ional
Betamethasone dipropionate with calcipotriol	17	29	7	45	7	29	7
Tar with triethanolamine lauryl sulphate and fluorescein	34	45	11	38	6	45	11
Scalp Preparations	Ŷ	our Practice		Comparato	or Practices	Nat	ional
Hydrocortisone butyrate	18	23	5	34	5	23	5
Ketoconazole	32	44	11	48	7	44	11

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	Y	our Practice		Comparato	or Practices	Nat	ional
Cyproterone acetate with ethinyloestradiol	35	65	16	119	18	65	16
Contraceptives - Hormonal	Your Practice Comparator Practices		Nat	ional			
Ethinyloestradiol with levonorgestrel	114	210	50	350	53	210	50
Ethinyloestradiol with norethisterone	23	44	10	78	12	44	10
Norethisterone	44	69	16	125	19	69	16
Contraceptives - Non-hormonal	Your Practice Compar		Comparato	or Practices	Nat	ional	
Condoms	42	46	11	75	11	46	11
Gynaecological Anti-infectives	Y	our Practice		Comparato	or Practices	Nat	ional
Clotrimazole	79	99	24	169	25	99	24
Myometrial and Vaginal Hormone Preparations	Ŷ	our Practice		Comparato	or Practices	Nat	ional
Oestriol	60	111	26	267	40	111	26
Urinary Agents	Y	our Practice		Comparato	or Practices	Nat	ional
Finasteride	10	35	8	66	10	35	8
Oxybutynin	24	59	14	119	18	59	14

15

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	Yo	our Practice		Comparato	or Practices	Na	tional
Sodium citro-tartrate	38	47	11	72	11	47	11
Solifenacin succinate	12	36	9	111	17	36	9

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	Y	our Practice		Comparate	or Practices	Na	tional
Dexamethasone	12	28	7	52	8	28	7
Prednisolone	69	105	25	151	23	105	25
Prednisone	282	574	137	1,086	163	574	137

Hormone Replacement Therapy - Systemic	Your Practice			Comparato	or Practices	National	
Medroxyprogesterone acetate	16	28	7	40	6	28	7
Oestradiol	7	21	5	47	7	21	5
Oestradiol valerate	9	24	6	59	9	24	6

Thyroid and Antithyroid Agents		Your Practice		Comparate	or Practices	Na	tional
Carbimazole	9	25	6	31	5	25	6
Levothyroxine	108	489	116	897	135	489	116

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	Y	our Practice		Comparato	Comparator Practices		ional
Amoxicillin	754	1,060	252	1,336	201	1,060	252
Amoxicillin with clavulanic acid	494	678	161	1,001	151	678	161
Azithromycin	30	35	8	49	7	35	8
Cefaclor monohydrate	126	177	42	429	65	177	42
Cefalexin	55	70	17	38	6	70	17
Ciprofloxacin	58	76	18	166	25	76	18
Co-trimoxazole	106	147	35	203	31	147	35
Doxycycline	185	250	59	457	69	250	59
Erythromycin ethyl succinate	137	176	42	274	41	176	42
Flucloxacillin	308	405	96	679	102	405	96
Phenoxymethylpenicillin (Penicillin V)	73	84	20	150	23	84	20
Roxithromycin	157	203	48	423	64	203	48
Trimethoprim	124	164	39	323	49	164	39
	Sum:	3,524	838	5,528	832	3,524	838

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	Yo	our Practice		Comparato	or Practices	Nat	ional
Fluconazole	24	32	8	52	8	32	8
Terbinafine	26	33	8	60	9	33	8
Antitrichomonal Agents	Yo	our Practice		Comparato	or Practices	Nat	ional
Metronidazole	96	114	27	163	24	114	27
Antivirals	Yo	our Practice		Comparator Practices		ces Nationa	
Aciclovir	62	96	23	199	30	96	23
Urinary Tract Infections	Yo	our Practice		Comparato	or Practices	Nat	ional
Nitrofurantoin	52	77	18	96	14	77	18
Norfloxacin	17	22	5	36	5	22	5

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		Comparate	Comparator Practices		ional	
Hydroxychloroquine	10	31	7	58	9	31	7
Drugs Affecting Bone Metabolism	Yo	our Practice		Comparate	or Practices	National	
Alendronate sodium	7	23	5	56	8	23	5
Alendronate sodium with cholecalciferol	27	98	23	175	26	98	23
Hyperuricaemia and Antigout	Yo	our Practice		Comparate	or Practices	Nat	ional
Allopurinol	97	342	81	483	73	342	81
Colchicine	28	53	13	44	7	53	13
Muscle Relaxants	Yo	our Practice		Comparator Practices		National	
Orphenadrine citrate	44	59	14	92	14	59	14
Non-Steroidal Anti-Inflammatory Drugs	Yo	our Practice		Comparate	or Practices	Nat	ional
Diclofenac sodium	294	439	104	637	96	439	104
Ibuprofen	640	886	211	1,520	229	886	211
Naproxen	135	204	48	300	45	204	48
Tenoxicam	14	23	5	27	4	23	5

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	Yo	our Practice		Comparato	or Practices	Nat	ional
Levodopa with carbidopa	7	38	9	67	10	38	9
Analgesics	Your Practice		Comparator Practices		National		
Aspirin	16	30	7	46	7	30	7
Codeine phosphate	264	422	101	814	122	422	101
Dihydrocodeine tartrate	13	36	9	84	13	36	9

17

Nervous System

	Number of patients dispensed	Items	Items per 1000 patients	Average Items	Items per 1000 patients	Average Items	Items per 1000 patients
Analgesics	Y	our Practice		Comparato	r Practices	Nat	ional
Fentanyl	6	38	9	98	15	38	9
Methadone hydrochloride	7	93	22	128	19	93	22
Morphine hydrochloride	11	28	7	55	8	28	7
Morphine sulphate	37	158	38	270	41	158	38
Oxycodone hydrochloride	22	128	30	293	44	128	30
Paracetamol	1,237	2,314	551	3,349	504	2,314	551
Paracetamol with codeine	191	308	73	592	89	308	73
Tramadol hydrochloride	208	387	92	601	90	387	92
Antidepressants	Y	our Practice		Comparato	r Practices	Nat	ional
Amitriptyline	95	246	58	508	76	246	58
Citalopram hydrobromide	113	343	82	745	112	343	82
Dothiepin hydrochloride	8	28	7	69	10	28	7
Doxepin hydrochloride	8	26	6	63	9	26	6
Escitalopram	33	93	22	186	28	93	22
Fluoxetine hydrochloride	78	235	56	480	72	235	56
Mirtazapine	10	34	8	71	11	34	8
Nortriptyline hydrochloride	58	139	33	196	29	139	33
Paroxetine hydrochloride	36	116	28	182	27	116	28
Sertraline	21	63	15	109	16	63	15
Venlafaxine	39	164	39	437	66	164	39
Antiepilepsy Drugs	Y	our Practice		Comparato	r Practices	Nat	ional
Carbamazepine	14	54	13	93	14	54	13
Gabapentin	32	101	24	246	37	101	24
Lamotrigine	9	46	11	86	13	46	11
Levetiracetam	5	22	5	33	5	22	5
Phenytoin sodium	5	27	7	31	5	27	7
Sodium valproate	24	108	26	156	24	108	26
Topiramate	7	21	5	44	7	21	5
Antimigraine Preparations	Y	our Practice		Comparato	r Practices	Nat	ional
Rizatriptan	28	49	12	102	15	49	12
Sumatriptan	18	39	9	79	12	39	9
Antinausea and Vertigo Agents	Y	our Practice		Comparato	r Practices	Nat	ional
Cyclizine hydrochloride	18	25	6	56	8	25	6
Domperidone	38	71	17	113	17	71	17
Metoclopramide hydrochloride	76	105	25	158	24	105	25
Ondansetron	105	134	32	190	29	134	32
Prochlorperazine	66	86	20	178	27	86	20
Antipsychotics	Y	our Practice		Comparato	r Practices	Nat	ional
Clozapine	4	34	8	38	6	34	8

Nervous System

	Number of patients dispensed	Items	Items per 1000 patients	Average Items	Items per 1000 patients	Average Items	Items per 1000 patients	
Antipsychotics	Y	our Practice		Comparato	or Practices	Nat	tional	
Haloperidol	8	25	6	32	5	25	6	
Lithium carbonate	7	30	7	49	7	30	7	
Olanzapine	15	72	17	95	14	72	17	
Quetiapine	48	185	44	343	52	185	44	
Risperidone	17	78	18	81	12	78	18	
Anxiolytics	Y	our Practice		Comparato	or Practices	Nat	National	
Clonazepam	24	81	19	131	20	81	19	
Diazepam	42	104	25	172	26	104	25	
Lorazepam	52	132	31	257	39	132	31	
Sedatives and Hypnotics	Y	our Practice		Comparator Practices		National		
Temazepam	24	59	14	102	15	59	14	
Triazolam	22	66	16	110	17	66	16	
Zopiclone	190	507	121	935	141	507	121	
Stimulants/ADHD Treatments	Y	our Practice		Comparato	or Practices	National		
Methylphenidate hydrochloride	10	89	21	144	22	89	21	
Methylphenidate hydrochloride extended-release	7	64	15	126	19	64	15	
Treatments for Dementia	Y	Your Practice		Comparator Practices		National		
Donepezil hydrochloride	7	30	7	45	7	30	7	
Treatments for Substance Dependence	Y	our Practice		Comparato	or Practices	Nat	ational	
Nicotine	67	155	37	226	34	155	37	
Varenicline tartrate	32	61	14	103	15	61	14	

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	19	77	18	160	24	77	18
Endocrine Therapy	Your Practice			Comparato	Comparator Practices Nation		
Tamoxifen citrate	6	21	5	35	5	21	5
Immunosuppressants	Your Practice		Comparato	or Practices	Nat	ional	
Azathioprine	7	22	5	47	7	22	5

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	Yo	our Practice		Comparate	or Practices	Nat	ional
Ipratropium bromide	14	31	7	42	6	31	7
Salbutamol with ipratropium bromide	30	74	18	139	21	74	18
Tiotropium bromide	21	72	17	135	20	72	17

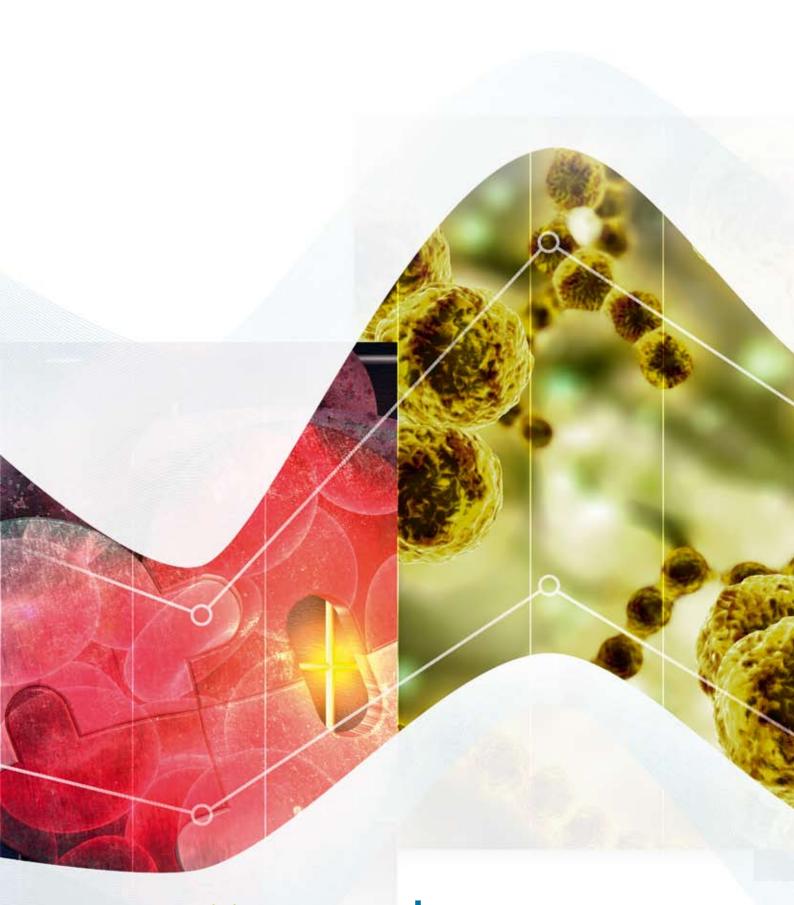


Respiratory System and Allergies

	Number of patients dispensed	Items	Items per 1000 patients	Average Items	Items per 1000 patients	Average Items	Items per 1000 patients
Antihistamines	,	Your Practice		Comparator Practices		National	
Cetirizine hydrochloride	226	357	85	503	76	357	85
Loratadine	314	472	112	611	92	472	112
Promethazine hydrochloride	56	83	20	134	20	83	20
Beta-Adrenoceptor Agonists	,	Your Practice		Comparate	or Practices	National	
Salbutamol	423	799	190	1,080	162	799	190
Terbutaline sulphate	22	36	9	49	7	36	9
Inhaled Corticosteroids	Ŷ	Your Practice Com		Comparate	Comparator Practices		ional
Beclomethasone dipropionate	14	27	6	52	8	27	6
Budesonide	16	29	7	41	6	29	7
Fluticasone	160	288	68	424	64	288	68
Inhaled Long-acting Beta-adrenoceptor Agonists	,	Your Practice		Comparator Practices		National	
Budesonide with eformoterol	51	142	34	276	41	142	34
Fluticasone with salmeterol	109	271	65	435	65	271	65
Salmeterol	10	22	5	36	5	22	5
Nasal Preparations	Ŷ	Your Practice		Comparator Practices		National	
Beclomethasone dipropionate	38	60	14	112	17	60	14
Budesonide	36	59	14	69	10	59	14
Fluticasone propionate	209	314	75	630	95	314	75
Ipratropium bromide	14	22	5	67	10	22	5

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	45	51	12	79	12	51	12
Ear Preparations	Ye	our Practice		Comparator Practices		National	
Flumetasone pivalate	39	44	11	91	14	44	11
Triamcinolone acetonide with gramicidin, neomycin and nystatin	22	26	6	25	4	26	6
Eye Preparations	Your Practice		Comparator Practices		National		
Bimatoprost	8	24	6	35	5	24	6
Chloramphenicol	180	231	55	333	50	231	55
Fusidic acid	52	59	14	95	14	59	14
Hypromellose with Dextran	39	66	16	76	11	66	16
Latanoprost	24	77	18	148	22	77	18
Olopatadine	21	27	7	53	8	27	7
Prednisolone acetate	24	40	10	62	9	40	10
Sodium cromoglycate	19	25	6	39	6	25	6
Timolol	9	27	6	50	7	27	6



visit us at www.bpac.org.nz

Call us on 03 477 5418 Email us at contact@bpac.org.nz Freefax us on 0800 27 22 69