Sample Practice Feedback

Roypharmacy in people aged over 75 years

The use of multiple medicines in older people with co-morbidities can be beneficial. However, when the number of medicines concurrently used reaches five or more there is a pronounced risk of medicine errors¹ and adverse effects.

This report will discuss polypharmacy in people aged over 75 years using data from the Ministry of Health National Collections^{2,3} for all subsidised medicines dispensed between July 2011 and March 2012, and all registered patients in New Zealand in the first quarter of 2012.



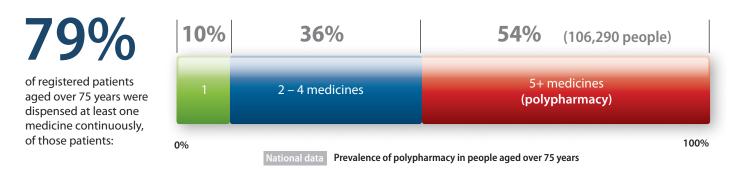
Definition of polypharmacy

This report focuses on continuous polypharmacy, which is the chronic use of multiple medicines over a long period of time.¹ This is an internationally accepted definition of measuring polypharmacy. It does not identify the number of medicines patients are taking on a given day, but has the advantage of identifying long-term use of multiple medicines, which poses a significant problem for General Practitioners.⁴

To analyse the prevalence of continuous polypharmacy for patients aged over 75 years in New Zealand, data was collected for three three-month periods: July-September and October-December 2011 and January-March 2012. A medicine was included as contributing to polypharmacy if it was dispensed to the patient in all three of the three-month periods.⁴ For the purposes of this report, combination medicines, such as an ACE inhibitor plus diuretic, were classified as a single medicine.

Polypharmacy is common in people aged over 75 years

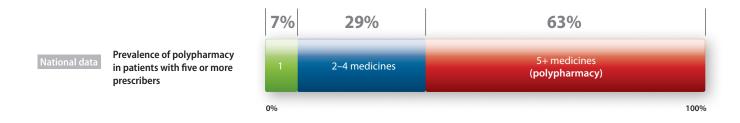
The medicines dispensed for 254,249 registered patients aged over 75 years in New Zealand were identified during the nine months from July 2011 to March 2012.



Multiple prescribers are associated with polypharmacy in people aged over 75 years

Patients who consult with multiple health providers are more likely to be prescribed multiple different medicines, and therefore are at an increased risk of adverse medicine effects and interactions.

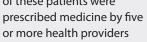
In New Zealand, 9% of all patients aged over 75 years were prescribed medicines by more than five health providers, and 63% of those patients had polypharmacy (i.e. prescribed five or more different medicines continuously in the nine month period). This represents a vulnerable patient group, that would benefit from individual management of their medicines.

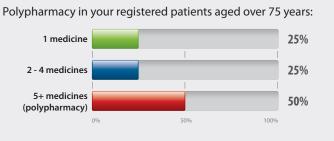


Polypharmacy in patients aged over 75 years at Sample Practice

100

patients aged over 75 years were dispensed at least one medicine continuously 10% of these patients were





This data includes prescribing by any New Zealand health provider including those who do not work in your practice.

- 1. Bjerrum L, Rosholm JU, Hallas J, Kragstrup J. Methods for estimating the occurrence of polypharmacy by means of a prescription database. Eur J Clin Pharmacol 1997;53:7-11.
- 2. Ministry of Health. Primary Health Organisation Enrolment Collection. (Accessed Aug, 2012).
- 3. Ministry of Health. Pharmaceutical Collection. (Accessed Aug, 2012).
- 4. Grimmsmann T, Himmel W. Polypharmacy in primary care practices: an analysis using a large health insurance database. Pharm Drug Saf 2009;18:1206-13.

N.B. Some figures may not total 100% due to rounding.