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Genetic testing

Keywords

research; general practice, genetics



There have been rapid advances in genetics in recent years.¹ DNA tests available on the Medicare Benefits Schedule (MBS) include HFE (haemochromatosis), Fragile X syndrome and Factor V Leiden.²

Analysis of BEACH data from April 2001 to March 2013 was undertaken to determine the proportion of general practitioner–patient encounters in Australia that involved ordering of genetic tests. Of 1,158,191 encounters, genetic tests were ordered at only 447, (38.6 per 100,000, 95% CI: 34.8–42.4). For male patients, 44.9 (38.8–51.1) per 100,000 encounters involved ordering of genetic tests, whereas for female patients, tests were ordered at 34.2 encounters (29.6–38.9). *Figure 1* shows the higher proportions at encounters with patients aged 15–64 years, compared with the younger and older age groups. *Figure 2* shows that the proportion was higher in 2005, compared with 2001, but no marked change has been seen since then.

Over this 12-year period, genetic tests were ordered for only 452 of 1,777,244 problems managed. Of these 452, the most frequent diagnoses recorded were ‘haemochromatosis’, (17%, 14–21) and ‘family history of disease’(15%, 12–19).

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References

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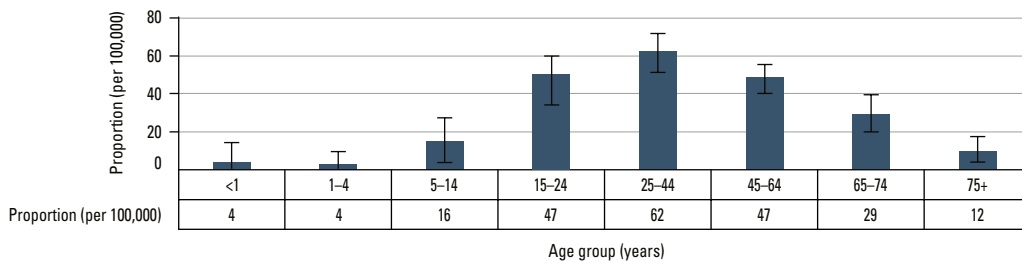


Figure 1. Proportion of GP–patient encounters at which genetic testing was ordered, by age group (95% CI), April 2001–March 2013

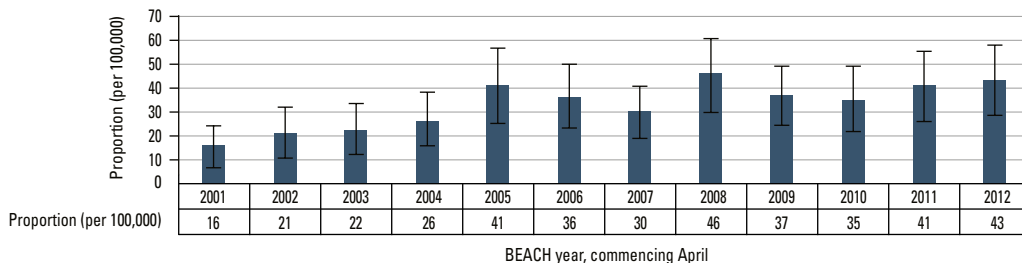


Figure 2. Proportion of all GP–patient encounters at which genetic testing was ordered, by year (95% CI)