A geriatric evaluation and management programme prevented functional decline and reduced depression in high risk older adults


QUESTION: Can an outpatient geriatric evaluation and management (GEM) programme prevent functional decline and reduce depressive symptoms and Medicare costs in high risk older adults?

Design
Randomised [allocation concealed*†, blinded (outcome assessors)*, controlled trial with 18 months of follow up.

Setting
Ramsey County and adjacent zip codes, Minnesota, USA.

Patients
568 patients who were ≥70 years of age (mean age 79 years, 56% men), community dwelling, and Medicare beneficiaries; and were at high risk for hospital admission and functional decline. Exclusion criteria included living in a nursing home, illness requiring frequent physician visits, and communication barriers. Follow up was 97%.

Intervention
Patients were allocated to GEM (n=294), consisting of a home visit by a social worker, 2 visits to the GEM clinic, and 6 months of management by an interdisciplinary team, or usual care (n=274) for a mean of 6 months. A team comprising a geriatrics nurse practitioner, a geriatrician, a social worker, and a nurse assessed patients, set intervention priorities, created a plan of care, and communicated with primary care physicians, and they lived in an area known for progressive medical care.

Main outcome measures
Functional ability (Sickness Impact Profile: Physical Functioning Dimension [SIP:PFD], bed disability days [BDDs], and restricted activity days [RADs]); depressive symptoms (Geriatric Depression Scale [GDS]); and use and cost of healthcare services (Medicare payments).

Main results
Analysis was by intention to treat. After 18 months of follow up, the GEM group had fewer BDDs (p < 0.05) than the control group but RAD values were similar [p=0.71]‡ (table). After 18 months of follow up, more patients in the usual care group than the GEM group experienced functional decline (≥3 point increase in SIP:PFD score) and had possible depression (GDS score ≥11) (table). After adjusting for baseline use of services, home care use at 12 months was less for GEM than for usual care (adjusted OR 0.60, 95% CI 0.37 to 0.98). Groups did not differ for nursing home use or total Medicare costs (US$11 354 v US$11 786, p=0.95).

Conclusion
A geriatric evaluation and management programme prevented functional decline and reduced bed disability days, depressive symptoms, and home care use, but did not reduce Medicare costs.

COMMENTARY
Mental health services for older people have developed in response to the demographic imperative of an ageing population, but without an evidence base; however, there is some support for the notion that specialised psychogeriatric services deliver better quality care.

This study by Boult et al provides data in support of carefully targeted outpatient assessment and specific management in geriatric medicine, which may be useful in old age mental health.

The traditional concept of comprehensive geriatric assessment (CGA)‡ and recent evidence that treatment adherence after CGA could be enhanced§ are developed further by the authors’ suggestion that GEM was likely to be most effective if the process was carried out by the same team.

The use of a small, expert, multidisciplinary team in the assessment and management of high risk patients over the short to medium term was effective in reducing functional decline, as well as disability bed days and home care use. The reason for the reduced rate of depression in those in the GEM group was not clear, but may have been related to the benefits of reduced functional decline, or to the non-specific effects of participation in the experimental group.

Two potential confounding variables may have lessened the differences in outcomes between the 2 groups; specifically, the control group’s high risk status was disclosed to their primary care physicians, and they lived in an area known for progressive medical care.

Despite this, the study clearly showed the benefits of targeted assessment and focused intervention over a limited period by a small, expert team. It offers a useful service delivery model for clinicians confronted by large numbers of elderly patients and limited resources.

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*See glossary.
†Information provided by author.
‡p Value calculated using data in article.
§A modified version of this abstract appears in Evidence-Based Nursing.

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