## **Summary points**

Hip fracture is the most common cause of acute orthopaedic admission in older people

Treatment is generally surgical to replace or repair the broken bone

Mortality is 5-10% after one month and about 30% after one year

Some loss of function is to be expected in most patients

Multidisciplinary rehabilitation is needed for the patient to return

Ways to reduce the risk of further fracture should be considered

reports of hip protectors, which absorb or spread the energy of a fall, were promising, but recent studies have questioned their effectiveness.20 21

## Conclusions

Hip fracture is the most common disabling injury and cause of accidental death in older people. The incidence and the public health and economic consequences of this injury have risen as the population has aged, and this is expected to continue for the foreseeable future.

The prevention and management of hip fractures involves a wide range of disciplines, and most people who sustain the injury require surgery followed by a period of rehabilitation. The complexity of care needed for hip fractures makes the condition a real test and a useful marker of the integration and effectiveness of modern health care.

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- Gullberg B, Johnell O, Kanis JA. World-wide projections for hip fracture. Osteoporosis Int 1997;7:407-13.
- Keene GS, Parker MJ, Pryor GA. Mortality and morbidity after hip fracture. *BMJ* 1993;307:1248-50.

  Roche JJW, Wenn RT, Sahota O, Moran CG. Effect of comorbidities and
- postoperative complications on mortality after hip fracture in elderly people: prospective observational cohort study. *BMJ* 2006;331:1374-6.
- Parker MJ, Handoll HHG. Hip fracture. Clinical evidence. BMJ Publishing,
- 2003. Scottish Intercollegiate Guidelines Network (SIGN). Prevention and management of hip fractures in older people. SIGN Publication No 56. Edinburgh: SIGN. 2002. www.sign.ac.uk/guidelines/fulltext/56/index.html (last accessed 6 Jun 2006).
- New Zealand Guidelines Group. Acute management and immediate rehabilitation after hip fracture amongst people aged 65 years and over. 2003. www.nzgg.org.nz/guidelines/ dsp\_guideline\_popup.cfm?guidelineCatID = 32&guidelineID = 7 accessed 6 Jun 2006).
- March LM, Chamberlain AC, Cameron ID, Cumming RG, Brnabic AJM, Finnegan TP, et al. How best to fix the broken hip. *Med J Aust*
- Cameron I, Crotty M, Curry C, Finnegan T, Gillespie L, Gillespie W, et al. Geriatric rehabilitation following fractures in older people: a systematic review. *Health Technol Assess* 2000;4(2):i-iy, 1-111.

1999.170.489-94

- Department of Health. National service framework for older people. London: DoH, 2001 www.dh.gov.uk/PublicationsAndStatistics/Publications/PublicationsPolicyAndGuidance/
- PublicationsPolicyAndGuidanceArticle/fs/
  PublicationsPolicyAndGuidanceArticle/fs/
  en?CONTENT\_ID=4003066&chk=wg3bg0 (last accessed 8 Jun 2006).

  Cameron ID, Handoll HHG, Finnegan TP, Madhok R, Langhorne P.
  Co-ordinated multidisciplinary approaches for inpatient rehabilitation of older patients with proximal femoral fractures. Cochrane Database Syst Rev 2001;(3):CD000106.
- 11 Gillespie LD, Gillespie WJ, Cumming R, Lamb SE, Rowe BH. Interventions for preventing falls in the elderly. *Cochrane Database Syst Rev* 2003;(4):CD000340.

- 12 American Geriatrics Society, British Geriatrics Society, American Academy of Orthopaedic Surgeons. *National guidelines for the prevention of* falls in older persons. 2001. http://www.americangeriatrics.org/products/positionpapers/Falls.pdf (last accessed 6 Jun 2006).
- 13 National Institute for Health and Clinical Assessment. Clinical practice guideline for the assessment and prevention of falls in older people. London: NICE, 2004. www.nice.org.uk/page.aspx?o=cg021fullguideline (last accessed 6 Jun 2006).
- 14 Chapuy MC, Arlot ME, Delmas PD, Meunier PJ. Effect of calcium and cholecalciferol treatment for 3 years on hip fractures in elderly women. BMJ 1994;308:1081-2.

  15 Avenell A, Gillespie WJ, Gillespie LD, O'Connell DL. Vitamin D and vita-
- min D analogues for preventing fractures associated with involutional and post-menopausal osteoporosis. *Cochrane Database Syst Rev* 2005;(3):CD000227.
- 16 National Institute for Health and Clinical Excellence. Bisphosphonates (alendronate, etidronate, risedronate), selective oestrogen receptor modulators (ratoxifen) and parathyroid hormone (teriparatide) for the secondary prevention of osteoporotic fragility fractures in postmenopausal women. London: NICE, 2005. www.nice.org.uk/pdf/TA087guidance.pdf (last accessed 6 Jun 2006).
- 17 Boonen S, McClung MR, Eastell R, Fuleihan GE-H, Barton IP, Delmas P. Safety and efficacy of risedronate in reducing fracture risk in osteoporotic women aged 80 and older: implications for use of antiresorptive agents in the old and oldest old. *J Am Geriatr Soc* 2004;52:1836-9.
- $18\,$  Writing Group for the Women's Health Initiative Investigators. Risks and benefits of estrogen plus progestin in healthy postmenopausal women. Principal results for the Women's health initiative randomized controlled trial. JAMA 2002;288:321-33.
- 19 Cummings SR, Eckert S, Krueger KA, Grady D, Powles TJ, Cauley JA, et al. The effect of raloxifene on risk of breast cancer in postmenopausal women: results from the MORE randomized trial. Multiple outcomes of raloxifene evaluation. *JAMA* 1999;281:2189-97.
- Parker MJ, Gillespie LD, Gillespie WJ. Hip protectors for preventing hip
- fractures in older people. Cochrane Database Syst Rev 2005;(3):CD001255.

  21 Parker MJ, Gillespie L, Gillespie W. Hip protectors for preventing hip fractures in the elderly: the evolution of a systematic review of randomised controlled trials. BMJ 2006;332:571-3.

## Corrections and clarifications

Minerva apologises for nearly launching a health scare. As many readers have pointed out, she slipped up somehow in her assertion that long term use of antiepileptic drugs is associated with an increased risk of cancers, particularly in women (BMJ 2006;332:1282, 27 May). The source article (Neurology 2006;66:1318-24) quite clearly refers to a risk of fractures, not cancer.

Selective serotonin reuptake inhibitors (SSRIs) and suicide in adults: meta-analysis of drug company data from placebo controlled, randomised controlled trials submitted to the MHRA's safety review The authors of this article published last year, David Gunnell and colleagues, have alerted us to an error in the abridged version of their paper (BMJ 2005;330:385-8). In the table, the correct estimate for the pooled odds ratio for self harm from the bayesian random effects meta-analysis for non-fatal self harm in relation to use of selective serotonin reuptake inhibitors (excluding paroxetine) is "1.57 (credible interval 0.99 to 2.55)"—not 1.51 (0.95 to 2.49). This matches the values given in the abstract and in the results section of the paper.

Randomised, controlled trial of alternating pressure mattresses compared with alternating pressure overlays for the prevention of pressure ulcers: PRESSURE (pressure relieving support surfaces) trial An editorial misunderstanding during the proof stage led us to inflate some values in this paper by Jane Nixon and colleagues (BMJ 2006;332:1413-5, 17 Jun). In table 4 of the full version on bmj.com (table 2 of the abridged version), the haemoglobin levels on admission or preoperatively should be 0.89 (0.82 to 0.97) [not 8.9, 8.2 to 9.7], and thecorresponding P value should be 0.01 [not 0.1].