

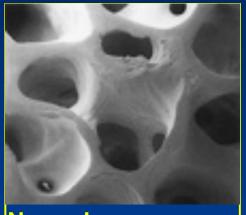


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Normal



Osteoporosis

- 55% of the US population over 50 years
- 44 million US women and men
- 17 billions direct medical cost per year

Risk factors

- Age
- Gender
- Family history
- Race
- Small body size
- Early menopause
- Cigarette, alcohol, no exercise
- Steroids, anticonvulsant, methotrexate, cyclosporin, heparin





Study the recognition and treatment of patients with severe osteoporosis

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Patients

- 40 patients referred for vertebroplasty
- Age 46-93 years; mean 76 years
- 19 men and 21 women
- Acute compression fractures by MRI and physical assessment



Methods

- Review of medical history and chart – Medication
 - Fosamax; biposphonate/alendronate
 - Bone densitometry
 - Regularly seen by PCP

Results

- All 40 patients had been seen regularly by their family doctor
- 39 patients with severe osteoporosis were not diagnosed or treated
- 1 patient Dexa scan
- 1 patient treated for osteoporosis

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Conclusion

- Osteoporosis is which is typically
- Underdiagnosed
- Undertreated
- Despite availability of preventive drugs

What can we do?

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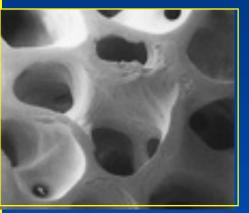
Prevention

- Calcium
- Vitamin D
- Exercise
- Bone mineral density test DEXA
- Medication to prevent resorption of bone
 - Biphosphonate (alendronate and risendronate)
 - Calcitonin
 - Estrogen replacement
- Medication to increase bone formation
 - Parathyroid hormone
 - Teriparatide (parathyroid hormone analog)



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Thank you



The Lancet 2002;360:1891

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