

# Prevalence and riskfactors of vertebral fractures among geriatric patients

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Prevalence of vertebral fractures on the thoracic lumbosacral spine X-ray.

<b>Ethical review</b>	Approved WMO
<b>Status</b>	Pending
<b>Health condition type</b>	Bone disorders (excl congenital and fractures)
<b>Study type</b>	Observational non invasive

## Summary

### ID

NL-OMON31187

### Source

ToetsingOnline

### Brief title

GOPOZ

### Condition

- Bone disorders (excl congenital and fractures)

### Synonym

low peak bone mass with fractures of the spine, osteoporosis with bonefractures

### Research involving

Human

### Sponsors and support

**Primary sponsor:** Slotervaartziekenhuis

**Source(s) of monetary or material Support:** ziekenhuis zelf; onderzoek is in het kader van opleiding tot klinisch geriater.

### Intervention

**Keyword:** geriatric patients, prevalence, riskfactors, vertebral fracture

## Outcome measures

### Primary outcome

prevalence of vertebral fractures

### Secondary outcome

riskfactors associated with vertebral fractures

## Study description

### Background summary

Vertebral fractures occur frequently among geriatric patients. Usually the underlying diagnosis is osteoporosis. It is shown that having a fracture is associated with an increased risk of subsequent fractures. Therefore effective osteoporosis drugs should be administrated. A lot of vertebral fractures are overlooked for several reasons. A recent retrospective study in our center showed a prevalence of 50% of vertebral fractures on the X-ray of the lateral Thorax, among geriatric patients presenting on the dayclinic. 50% of these fractures were diagnosed by the radiologist, and only 7% was treated with a bisphosphonate, extra Calcium and Vitamin D.

Probably this prevalence is underestimated because most vertebral fractures are in the lumbosacral spine and not visible on a lateral X-ray of the thorax. Because of these results, the standard analysis of the new patients on the geriatric dayclinic has a thoracic and lumbosacral spine X-ray.

### Study objective

Prevalence of vertebral fractures on the thoracic lumbosacral spine X-ray.

### Study design

prospective study on patients presenting on the geriatric dayclinic in the Slotervaart Hospital Amsterdam. 300 patients will be included. The usual analysis for these patients will be performed and will have a X-ray of the thoracic lumbosacral spine.

### Study burden and risks

The thoracic and lumbosacral spine X-ray is not an extra burden, because this X-ray will be made not for scientific research but for the sake of the patients.

We conduct this thoracic and lumbosacral spine X-ray in the standard analysis for all new geriatric patients on our dayclinic.

In 50% of the patients the minimal mental state examination (MMSE) will be performed extra, normally we take this test from the ones with memory complaints. The burden will be 10 minutes, and there is no risk.

## Contacts

### Public

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### Scientific

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## Trial sites

### Listed location countries

Netherlands

## Eligibility criteria

### Age

Adults (18-64 years)

Elderly (65 years and older)

### Inclusion criteria

patients presenting for geriatric analysis in Slotervaart hospital Amsterdam, and from who are made an X-ray of the thorax and of the thoracic and lumbosacral spine.

## Exclusion criteria

patients without an X-ray of the thoracic and lumbosacral spine.

## Study design

### Design

**Study type:** Observational non invasive

Masking: Open (masking not used)

Control: Uncontrolled

Primary purpose: Diagnostic

### Recruitment

NL

Recruitment status: Pending

Start date (anticipated): 01-04-2007

Enrollment: 300

Type: Anticipated

## Ethics review

Approved WMO

Application type: First submission

Review commission: METC Slotervaartziekenhuis en Reade (Amsterdam)

## Study registrations

### Followed up by the following (possibly more current) registration

No registrations found.

## Other (possibly less up-to-date) registrations in this register

No registrations found.

## In other registers

Register	ID
CCMO	NL17113.048.07