

## Web of Science



Search Search Results

Tools Searches and alerts Search History Marked List

Full Text Options



Save to EndNote online

Add to Marked List

1 of 1

## Fracture risk prediction in post-menopausal women with osteopenia and osteoporosis: preliminary findings

by: [Hatta, NNKNNM](#) (Hatta, NNK NNOR Kaussar Nik Mohd)<sup>[1]</sup>; [Lokman, M](#) (Lokman, Muhammad)<sup>[1]</sup>; [Said, NM](#) (Said, Mohd N.)<sup>[1]</sup>; [Daud, A](#) (Daud, Azlina)<sup>[1]</sup>; [Ibrahim, M](#) (Ibrahim, Muhammad)<sup>[2]</sup>; [Sharifudin, MA](#) (Sharifudin, Mohd Ariff)<sup>[3]</sup>; [Deraman, S](#) (Deraman, Samsul)<sup>[3]</sup>

[View ResearcherID and ORCID](#)

### ENFERMERIA CLINICA

Volume: 28 Pages: 232-235 Part: 1 Supplement: 1

DOI: 10.1016/S1130-8621(18)30074-3

Published: FEB 2018

Document Type: Article

### Abstract

Objective: The study aims to identify the risk of obtaining a fracture among post-menopausal women with osteopenia and osteoporosis.

Method: This work was a cross-sectional study involving a purposive sample of 87 post-menopausal women who attended the orthopedic and menopause clinics of Hospital Tengku Ampuan Afzan, Kuantan. The data were entered into the WHO fracture risk assessment tool (FRAX (R)) to predict major fracture and risk for hip fracture in 10 years' time.

Results: The mean age of the respondents was 61.6 years (SD = 7.9). Among the respondents, 50.6% had osteopenia and nearly half (48.3%) had osteoporosis. The mean number of menopausal years of the respondents was 11.9 (SD = 8.5), ranging between 1 and 44 years. The FRAX findings indicated 9.7% major osteoporotic fracture probability and 3.5% hip fracture probability, which were denoted as high risk. A Pearson correlation coefficient was computed to assess the relationship between menopausal years and the FRAX major osteoporotic fracture probability. A significant positive correlation was found between the two, but the correlation was weak ( $r = 0.581$ ,  $n = 87$ ,  $p < 0.001$ ).

Conclusions: The present findings indicate that menopausal years have a positive correlation with the risk of obtaining a fracture. (C) 2018 Elsevier Espana, S.L.U. Todos los derechos reservados.

### Keywords

Author Keywords: [Post-menopausal women](#); [Fracture risk prediction](#); [FRAX](#); [Osteopenia](#); [Osteoporosis](#)

KeyWords Plus: [FRAX](#)

### Author Information

Reprint Address: [Hatta, NNKNNM](#) (reprint author)

[+](#) IIUM, Kulliyah Nursing, Kuantan Campus, Pahang, Malaysia.

#### Addresses:

[+](#) [ 1 ] IIUM, Kulliyah Nursing, Kuantan Campus, Pahang, Malaysia

[+](#) [ 2 ] IIUM, Kulliyah Allied Hlth Sci, Kuantan Campus, Pahang, Malaysia

[+](#) [ 3 ] IIUM, Kulliyah Med, Kuantan Campus, Pahang, Malaysia

E-mail Addresses: [kaussar@iium.edu.my](mailto:kaussar@iium.edu.my)

### Funding

Funding Agency	Grant Number
Fundamental Research Grant from Ministry of Education, Malaysia	FRGS 105781-135771

[View funding text](#)

### Publisher

### Citation Network

In Web of Science Core Collection

0

Times Cited

[Create Citation Alert](#)

18

Cited References

[View Related Records](#)

### Use in Web of Science

Web of Science Usage Count

1

2

Last 180 Days

Since 2013

[Learn more](#)

This record is from:

Web of Science Core Collection

- Emerging Sources Citation Index

#### Suggest a correction

If you would like to improve the quality of the data in this record, please [suggest a correction](#).

ELSEVIER DOYMA SL, TRAVESERA DE GARCIA, 17-21, BARCELONA, 08021, SPAIN

**Categories / Classification**

Research Areas: Nursing

Web of Science Categories: Nursing

[See more data fields](#)

◀ 1 of 1 ▶

**Cited References: 18**Showing 18 of 18 [View All in Cited References page](#)

(from Web of Science Core Collection)

1. [Novel approaches to the treatment of osteoporosis](#) Times Cited: 17  
 By: Appelman-Dijkstra, Natasha M.; Papapoulos, Socrates E.  
 BEST PRACTICE & RESEARCH CLINICAL ENDOCRINOLOGY & METABOLISM Volume: 28 Issue: 6 Pages: 843-857 Published: DEC 2014
2. Title: [not available] Times Cited: 1  
 By: EUGENE, M; FRAX, R.  
 Identifying people at high risk of fracture WHO Fracture Risk Assessment Tool, a new clinical tool for Published: 2009  
 URL: <http://www.bonehealth.org>
3. [Disorders of Bone Remodeling](#) Times Cited: 288  
 By: Feng, Xu; McDonald, Jay M.  
 ANNUAL REVIEW OF PATHOLOGY: MECHANISMS OF DISEASE, VOL 6 Book Series: Annual Review of Pathology-Mechanisms of Disease Volume: 6  
 Pages: 121-145 Published: 2011
4. [Primary prevention in osteoporosis?](#) Times Cited: 1  
 By: Haugeberg, G.  
 Tidsskr den Nor laegeforening Tidsskr Prakt Med ny raekke Volume: 102 Issue: 3 Pages: 1506-7 Published: 2003  
 Internet  
 URL: <http://publications.nice.org.uk/alendronate-etidronate-risedronate-raloxifene-and-strontium-ranelate-for-the-primary-prevention-ta160/the-technologies>
5. Title: [not available] Times Cited: 1  
 Group Author(s): International Osteoporosis Foundation (IOF)  
 Facts and Statistics Published: 2015  
 accessed 27 Jan 2015
6. [Pre-injury demographic patterns of patients sustaining hip fractures in malaysia.](#) Times Cited: 2  
 By: Isnani, I; Mohamad Adam, B; Murallitharam, M; et al.  
 Malaysian orthopaedic journal Volume: 6 Issue: SupplA Pages: 11-5 Published: 2012-Jun
7. [An estimate of the worldwide prevalence and disability associated with osteoporotic fractures](#) Times Cited: 1,637  
 By: Johnell, O.; Kanis, J. A.  
 OSTEOPOROSIS INTERNATIONAL Volume: 17 Issue: 12 Pages: 1726-1733 Published: DEC 2006
8. [Interpretation and use of FRAX in clinical practice](#) Times Cited: 234  
 By: Kanis, J. A.; Hans, D.; Cooper, C.; et al.  
 Group Author(s): Task Force FRAX Initiative  
 OSTEOPOROSIS INTERNATIONAL Volume: 22 Issue: 9 Pages: 2395-2411 Published: SEP 2011
9. [A systematic review of intervention thresholds based on FRAX A report prepared for the National Osteoporosis Guideline Group and the International Osteoporosis Foundation](#) Times Cited: 52  
 By: Kanis, John A.; Harvey, Nicholas C.; Cooper, Cyrus; et al.  
 Group Author(s): Advisory Board Natl Osteo  
 ARCHIVES OF OSTEOPOROSIS Volume: 11 Issue: 1 Article Number: 25 Published: DEC 2016
10. [HIP FRACTURE INCIDENCE IN MALAYSIA 1981-1989](#) Times Cited: 20

By: LEE, CM; SIDHU, JS; PAN, KL

ACTA ORTHOPAEDICA SCANDINAVICA Volume: 64 Issue: 2 Pages: 178-180 Published: APR 1993

11. **Osteoporosis: primary prevention in the community.** Times Cited: 9  
By: Loh, K Y; Shong, H K  
The Medical journal of Malaysia Volume: 62 Issue: 4 Pages: 355-7; quiz 358 Published: 2007-Oct
12. **Osteoporosis: primary prevention in the community** Times Cited: 1  
By: Loh, KY; Shong, HK.  
quiz Volume: 358 Published: 2007
13. **Age related-Fracture Risk Prediction in Post-Menopausal Women with Osteopenia and Osteoporosis: A preliminary findings** Times Cited: 1  
By: Mohd Hatta, Nik Noor kaussar Nik; Muhammad, Lokman Md Isa; Daud, Mohd Said Nurumal Azlina; et al.  
THESIS Pages: 3-4 Published: 2016  
Doctoral Thesis  
Publisher: International Islamic University Malaysia  
[\[Show additional data\]](#)
14. **Frax score calculations in postmenopausal women with subclinical hypothyroidism** Times Cited: 8  
By: Polovina, Snezana; Popovic, Vera; Duntas, Leonidas; et al.  
HORMONES-INTERNATIONAL JOURNAL OF ENDOCRINOLOGY AND METABOLISM Volume: 12 Issue: 3 Pages: 439-448 Published: JUL-SEP 2013
15. **Prevalence of osteoporotic fracture risk-factors and antiosteoporotic treatments in the Valencia region, Spain. The baseline characteristics of the ESOSVAL cohort** Times Cited: 1  
By: Santelixa-Genoves, J; Sanfelix-Gimeno, G; Peiro S, Hurtadol; et al.  
Osteoporos Int. Volume: 24 Issue: 3 Pages: 1045-55 Published: 2013  
[\[Show additional data\]](#)
16. **Prevention and treatment of postmenopausal osteoporosis** Times Cited: 135  
By: Tella, Sri Harsha; Gallagher, J. Christopher  
JOURNAL OF STEROID BIOCHEMISTRY AND MOLECULAR BIOLOGY Volume: 142 Special Issue: SI Pages: 155-170 Published: JUL 2014
17. **The clinical utility of bone marker measurements in osteoporosis** Times Cited: 91  
By: Wheeler, Gillian; Elshahaly, Mohsen; Tuck, Stephen P.; et al.  
JOURNAL OF TRANSLATIONAL MEDICINE Volume: 11 Article Number: 201 Published: AUG 29 2013
18. Title: [not available] Times Cited: 5  
Group Author(s): WHO  
ASS OST PRIM HLTH CA Published: 2004

Showing 18 of 18 [View All in Cited References page](#)

Clarivate

Accelerating innovation

© 2019 Clarivate [Copyright notice](#) [Terms of use](#) [Privacy statement](#) [Cookie policy](#)

[Sign up for the Web of Science newsletter](#) [Follow us](#)

