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FRAXture: does FRAX reflect the risk of fracture in real practice?

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Introduction

 The Fracture Risk Assessment Tool (FRAX) has been developed¹ as an algorithm to evaluate the 10-year risk of hip and major osteoporotic fractures, based on clinical risk factors, with or without bone mineral

Results

From the 100 patients enrolled, 31 couldn't cooperate (because of dementia or other medical intercurrences).

Frax item

Medium / %

density (BMD) at the femoral neck.

Country: Portugal	Name/ID:		About the risk factors
Questionnaire: 1. Age (between 40 and 90 yea Age: Date of Birth: Y: 2. Sex	ars) or Date of Birth M: D: © Male © Female	 10. Secondary osteoporosis 11. Alcohol 3 or more units/day 12. Femoral neck BMD (g/cm²) Select BMD 	 No Yes No Yes
3. Weight (kg)		Clear	ite
4. Height (cm)			
5. Previous Fracture	No Ves		
6. Parent Fractured Hip	No Ves		
7. Current Smoking	No Ves		
8. Glucocorticoids	No Ves		
9. Rheumatoid arthritis	No Ves		

Mean age	77.4±9.1 years
M:F	5:18
Mean BMI	25.9±4.6 kgs/m ²
Previous fracture	30.4%
Parent fractured hip	7.2%
Current smoking	2.9%
Glucocorticoids	5.8%
Rheumatoid arthritis	-
Secondary osteoporosis	5.8%
Alcohol >3U/day	7.2%
Mean risk for major osteoporotic fracture at 10 years	14.9±9.7%
Mean risk for major	8.0±8.4%.

 In a context where costs are increasingly taken into account, the availability of such tool which requires no costs (when performed without BMD) comes up as a valuable resource that weights greatly on the clinicians' decision to treat a patient with an antiosteoporotic drug.

•The FRAX tool has recently been validated for the Portuguese population.

Objectives

With this work, the authors intended to assess FRAX accuracy when retrospectively performed in patients with hip fracture.

Methods

osteoporotic fracture at 10 years



Conclusions

 In this cohort, established threshold for high risk for hip fracture FRAX algorithm missed 21.7% of the patients who actually had a hip fracture.

• A retrospective cohort study was run, in which 100 patients with hip fracture randomly selected from an Orthopedics Department were enrolled.

• FRAX tool (without BMD) was performed and patients were questioned about previous or current treatment with antiosteoporotic drugs.

 Only 14.8% of the patients with high risk for hip fracture were being treated with antiosteoporotic drugs
 – osteoporosis is underdiagnosed and undertreated

• The use of FRAX in clinical practice – especially in primary healthcare – could improve the intervention on these patients.

Limitations: small cohort; retrospective study

THE EUROPEAN CALCIFIED TISSUE SOCIETY CONGRESS, 2013