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Disternational ASSESSING THE RISK OF OSTEOPOROTIC FRACTURE IN HEALTHY SUBJECTS: AN OBSERVATIONAL STUDY **IN ITALIAN COMMUNITY PHARMACIES**

INTRODUCTION Osteoporotic bone fracture risk is usually assessed in subjects that refer to bone centers, however, few data are available in subjects considered healthy.	METHODS Six community pharmacies participated to the study. All the subjects that, in the period November 2014 – May 2015:	
Therefore, we performed an observational study with the aim of:	 Had at least 55 years; Did not have an history of past diseases known to affect 	
Understand the feasibility of a screening on the Italian general population performed in community pharmacies;	 Agreed to participate to the study; 	
Quantify the fracture risk in healthy subjects;	were included in the study.	
Determine the influence of gender and age on fracture risk in this population.	Subjects were asked to fill a questionnaire that allowed for the calculation of 10 year-general and hip fracture, through the FRAX algorithm.	
	Results are presented as percentages or median (interquartile range). Group comparisons were performed by means of Chi-	

square test, Mann-Whitney test or Kruskal-Wallis ANOVA.

RESULTS

	General population	Women	Men
Group (N)	799	540	259
Age	66 (60-74)	65 (59-73)	69 (63-76) ***
Height	162 (158-168)	160 (155-163)	170 (166-175) ***
Weight	70 (60-78)	65 (59-72)	78 (70-85) ***
BMI	26.0 (23.4-28.7)	25.6 (22.7-28.4)	26.5 (24.8-29.1) ***
Past fractures (%)	18	20	14
Parents with fractured femur (%)	17	16	11
Smoke habit (%)	13	11	17 *
Regular alcohol consumption	6	3	11 ***
Use of corticosteroids (%)	5	6	4
Secondary osteoporosis	10	14	0 ***
* <i>P</i> < 0.05; *** <i>P</i> < 0.001, men vs. women.			







CONCLUSIONS

- Community pharmacies represent a valuable hotspot for a quick and economic screening aimed at finding apparently healthy subjects with an high fracture risk.
- A considerable part of subjects considered healthy, that do not refer to bone centers, actually are at high risk of fracture, and need to be early detected in order to prevent
- Also in healthy subjects, age and female gender are positively associated to an increased risk of fracture
- It is important to assess fracture risk also in men.