

# FRAX: Middle East perspective

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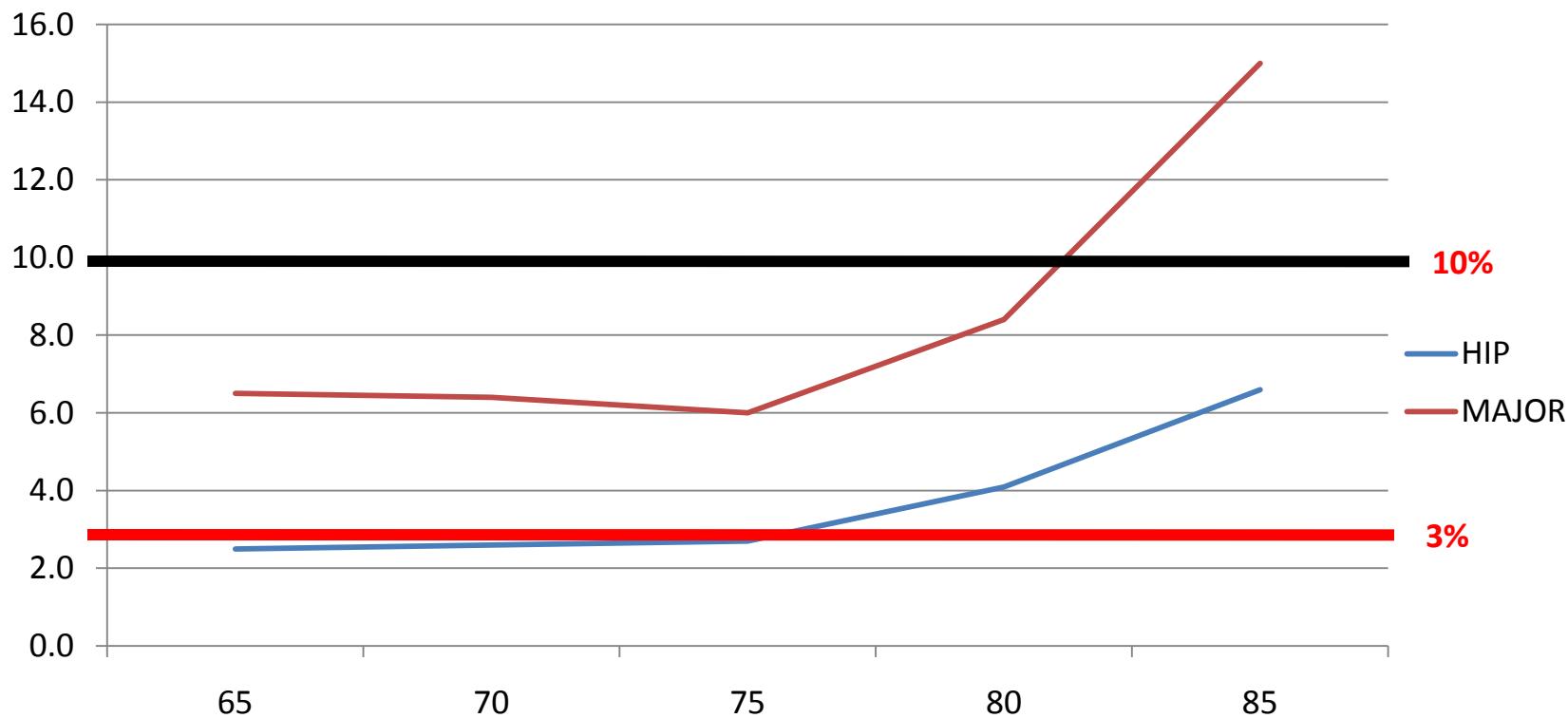
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# Hip and major fracture 10-year probability by age using FRAX Lebanon

**FEMALES**

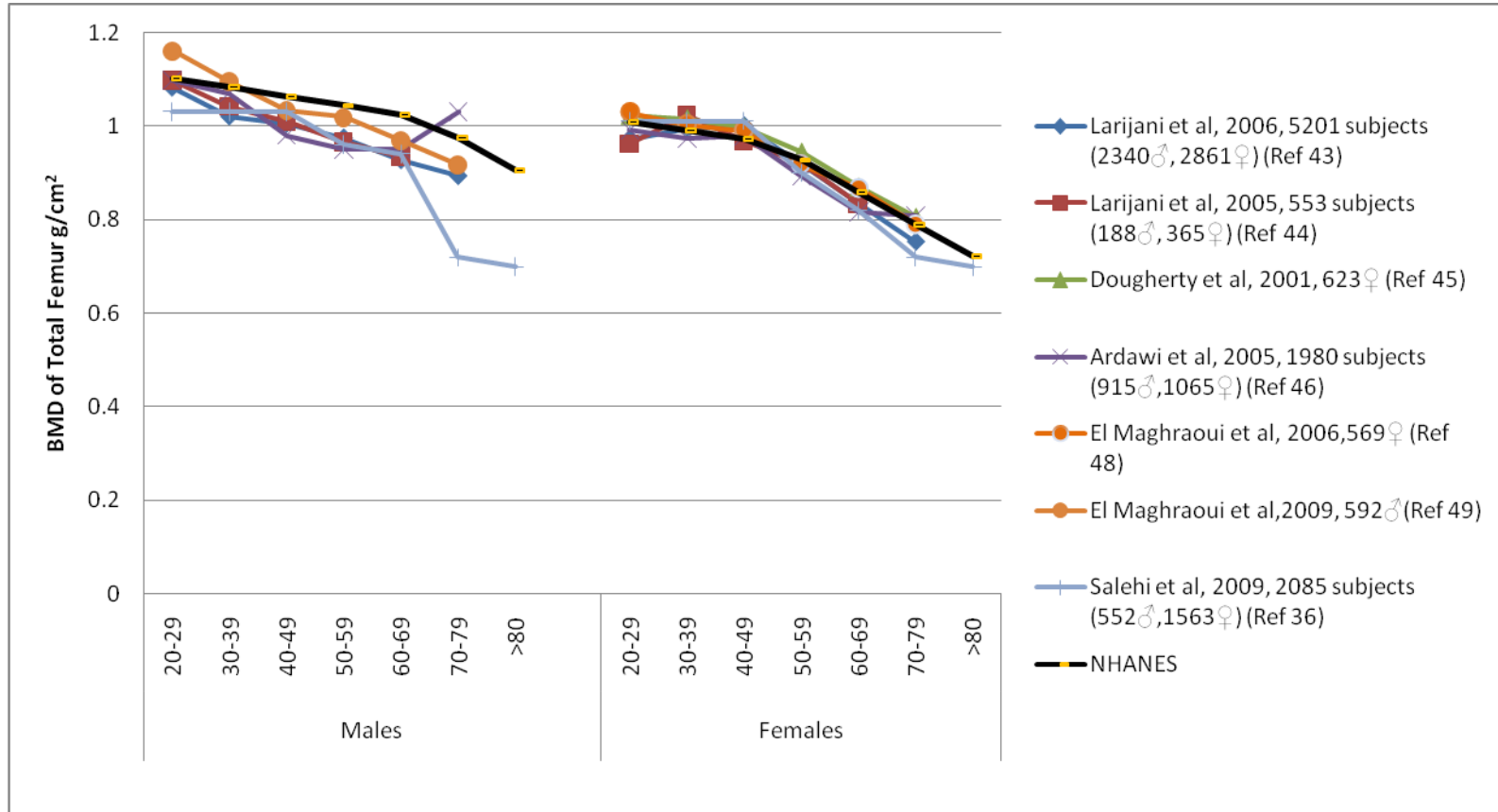


Weight: 70kg, Height: 165cm, (BMI = 25.7)

Femoral Neck **T-score: -3.0**

No risk factors

# Mean total femur BMD (g/cm<sup>2</sup>) using DPX-Lunar DXA by 10-years age groups in both genders across various EMR countries.



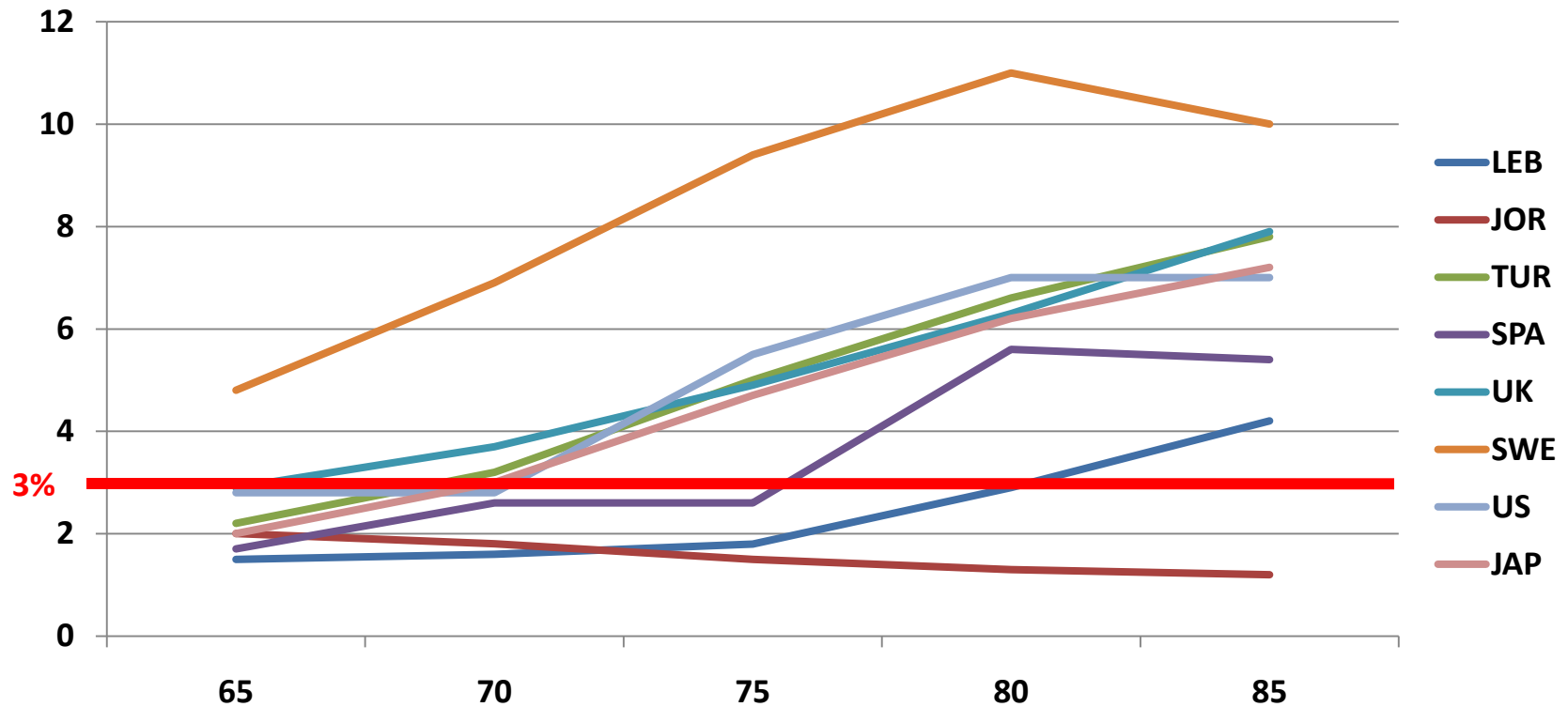
The NHANES database values are as provided from Lunar manufacturer

# NHANES versus population specific databases for vertebral fracture case detection

	NHANES		Population specific	
	Women	Men	Women	Men
Sensitivity	51.8% [38.0-65.3]	38.9% [17.3-64.3]	26.8% [15.8-40.3]	11.1% [1.4-34.7]
Specificity	71.5% [65.3-77.2]	79.9% [71.2-85.6]	88.5% [83.7-92.3]	98.5% [94.7-99.8]
Area ROC	0.65	0.64	0.57	0.57
Age-adjusted RR of VF per SD decrease in TH BMD	1.61 [1.17-2.23]	1.59 [0.94-2.72]	1.49 [1.14-1.95]	1.66 [0.93-2.94]

# Hip fracture 10-year probability by age across various populations

## FEMALES



Weight: 70kg, Height: 165cm, (BMI = 25.7)

Femoral Neck **T-score: -2.5**

No risk factors

# Targeting high risk population

