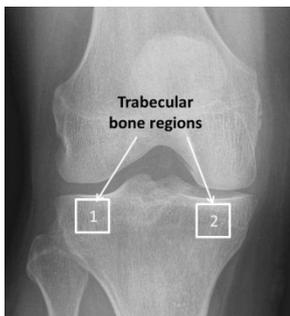


X-ray and measures in 2013

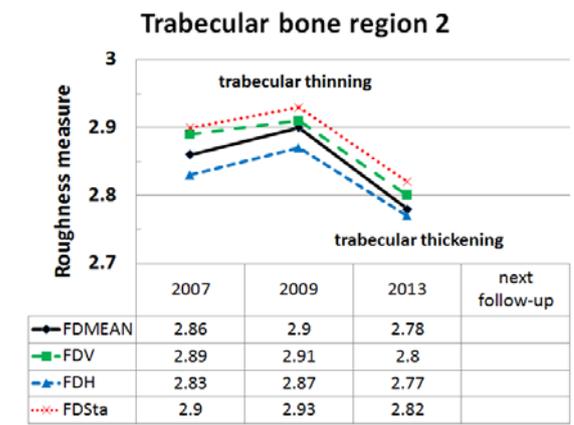
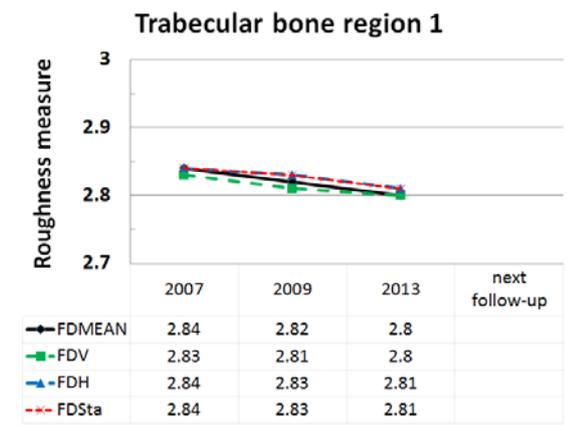
Anteroposterior x-ray image of knee

Trabecular bone roughness measures

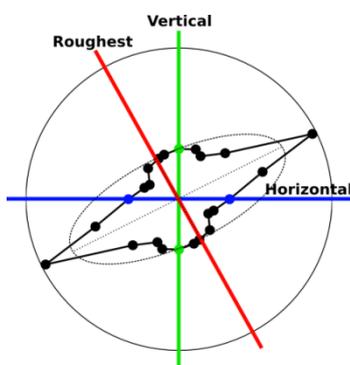


Measures Bone region	FD _{MEAN}	FD _V	FD _H	FD _{Sta}
1	2.80	2.80	2.81	2.81
2	2.78	2.80	2.77	2.82

Trabecular bone roughness curves up to 2013



Explanation: For each bone region we produce a plot of roughness coefficients (black dots) to which we fit an ellipse (dotted lines). The roughest part direction is along the line running through the smallest distance across the ellipse (red line). Based on the plot we calculate four basic radiographic measures:



FD_{MEAN} – a measure of roughness in all directions (mean of all dots)

FD_V, FD_H - a measure of roughness along the vertical (green) and horizontal (blue) direction

FD_{Sta} - a measure of roughness along the roughest direction (red)

The measures range from 2 to 3, with higher values representing higher roughness.

Note: The radiographic measures are not diagnostic results. To obtain a diagnosis, please consult your GP or radiologist.