## TBS iNsight v3.0



# ENHANCE THE PREDICTION OF YOUR PATIENTS' FRACTURE RISK

## Boost The Performance Of DXA & Add Value To Your Clinical Practice with TBS

TBS iNsight<sup>™</sup> - an advanced imaging software for bone densitome (DXA) - enhances the ability to predict osteoporotic fracture.

The result - expressed as a Trabecular Bone Score (TBS) - of a patented algorithm that evaluates spatial variations of the in the AP spine DXA scan. TBS provides an indirect, yet high index of bone microarchitecture. TBS predicts fractures it of bone mineral density (BMD), clinical risk factors and FR

TBS' maximum impact is observed in patients with osteopen BMD values who display low TBS scores and consequently have a combined risk profile or in patients whose fracture risk is close to intervention threshold. Moreover TBS shows potential in patients secondary osteoporosis: While BMD is often limited to identify patie with secondary OP who are at risk for fractures, TBS can be used an aid in the diagnosis of osteoporosis and other medical conditional leading to altered trabecular bone microarchitecture.

#### **TBS iNsight software**

- calculates an index of microarchitecture in routine clinical practice
- incorporates FRAX adjusted for TBS
- shows monitoring trend curve for patients' follow up data including LSC
- allows retrospective analysis of patients' DXA scans
- enables automatic data export
- communicates with PACS systems thanks to DICOM module (optional)
- displays patient reports in various languages
- offers online training & certification
- includes TBS iNstats module to identify your patient management
- is calibrated by using an unique TBS phantom.

TBS iNsight software license is assigned to a specific DXA system.

Compatibility			
GE Lunar Systems			
Current compatible bone densitometers with TBS iNsight			
iDXA™ Prodigy™ Series (all models)			
Current BMD software versions compatible with TBS iNsight			
enCORE™ versions from 8.10 to 17.10			

#### **Clinical Validation**

- ◆ Several hundreds of peer-reviewed publications
- Included in international and national guidelines (e.g. ISCD, ESCEO, DVO, NOGG)
- ◆ TBS adjusted FRAX
- Thousands of TBS users worldwide
- Ethnicity reference curves for men and women derived from huge study cohorts (e.g. NHANES) integrated in the software.

TBS	differentiates expert DXA clinics and		
	can increase patient referrals. TBS is		
FAST	no additional scan time,		
	immediate results		
SAFE	no additional radiation to patients,		
	derived from routine DXA exams		
<b>EASY</b>	automatic TBS report with BMD, TBS,		
	FRAX adjusted for TBS		



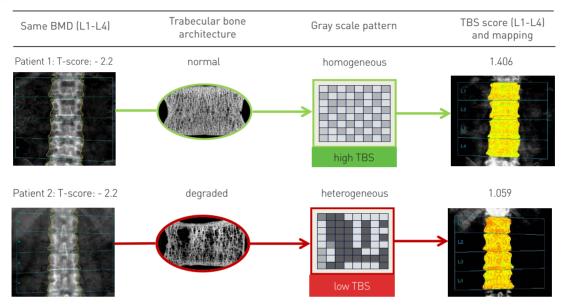
### INTERPRETATION OF TBS & BMD VALUES



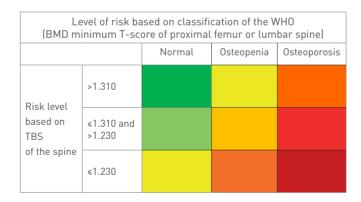
## Interpretation grid

#### Same BMD but Different TBS

Two patients can have similar BMD but could display different structure (see graphic below)<sup>[1]</sup> and subsequently have different fracture risk. According to scientific societies «decision-making about the patients to be treated and the treatments to be prescribed must be based on clinical judgement using the recommendations and all available clinical information.»<sup>[2]</sup>. TBS has proofed to be an additional aid to better characterize your patient's risk profile and thus can improve your patient management.



Risk stratification of TBS and BMD could improve the assessment of fracture risk, particularly in osteopenic patients and patients with secondary osteoporosis. The following interpretation table [3] presents the level of risk expressed as the number of major osteoporotic fractures per 1000 women/year (based on a study conducted on 30,000 women). It shows that for a given BMD category the risk may almost double depending on TBS.



Risk levels for major osteoporotic fractures per	Colour code	
1000 women/year		
>20		<b>A</b>
>14 and ≤20		ncreased risk of fracture
>10 and ≤14		frac
>7 and ≤10		sk of
>5 and ≤7		d ris
>4 and ≤5		ease
<b>≤</b> 4		Incr

TBS is a risk factor for future low trauma fracture independent of BMD and clinical risk factors.

TBS should be interpreted in accordance with the recommendations of national & international societies, e.g. NOF<sup>[1]</sup>, ESCEO<sup>[4]</sup>, ISCD<sup>[5]</sup> and GRIO<sup>[6]</sup>.

#### medimapsgroup.com contact@medimapsgroup.com

Geneva (CH) +41 22 884 8644 Bordeaux (FR) +33 55 611 2442 Wilmington (USA) +1 302 416 3063

- 1- Adapted from Silva et al. JBMR 2014. 29(3): 518-530
- 2- NOF Clinician's Guidelines to prevention and Treatment of Osteoporosis 2010 Last update in april 2014 3- Adapted from Hans et al. JBMR 2011; 26(11): 2762-9 and meta-analysis from McCloskey et al. JBMR. 2016, 31(5): 940-948.
- 4- rian vey et at. Dolle, 2013; 170; 210–224. 5- ISCD http://www.scd.org/official-positions/ Last update in june 2015 with TBS integration 6- GRIO http://www.grio.org/ Research and Information Group on Osteoporosis

MM-BR-033-GE-EN-01

