



MEDIMAPS
We understand bone health



TBS Osteo™

1 TBS Mapping

L1
L2
L3
L4

High
Low

Image not for diagnosis

2 TBS Spine Results

TBS L1-L4 = 1.151 - Degraded microarchitecture

TBS

Age (years)

USA (NHANES / Medimaps) - White

3 Skeletal Status Assessment

Osteoporosis is a systemic skeletal disease characterized by low bone mass and microarchitectural deterioration of bone tissue, with a consequent increase in bone fragility and susceptibility to fracture.¹

The TBS is derived from the texture of the DXA image and has been shown to be related to bone microarchitecture and fracture risk. It provides information independent of BMD.

For purpose of clarity, "Bone resilience index" is defined as the combination of BMD T-score and TBS categories. The zones of Bone Resilience are established based upon level of fracture risk.²

	BMD T-score ³		
	Normal	Osteopenia	Osteoporosis
Normal	Green	Yellow	Orange

4 Therapeutic Decision Tools

The FRAX 10-year probability of fracture:

Type of Fracture	Risk	Risk Adjusted for TBS ⁴
Major Osteoporotic	18.8%	22.1%
Hip	2.9%	3.9%

¹ Validated only for Caucasian and Asian women and men. ² Refer to local guidelines before using these values. ³ Reported Risk Factors besides BMD: Rheumatoid Arthritis, Glucocorticoids, Kidney. ⁴ Case97 Fracture, 96, 503-509 (2015).

The BMD T-score

Bone Site	BMD T-score	BMD T-score adjusted for TBS ⁴

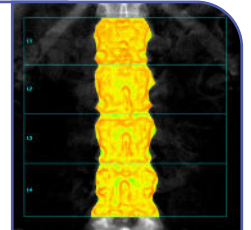
TBS Osteo
Enhancing bone assessment

Advancing the standard of bone health

Worldwide, there is 1 osteoporosis fracture every 3 seconds¹, and more than 50% of major osteoporotic fractures occur in non-osteoporotic patients².

Osteoporosis is a bone disease characterized by low bone density and deterioration of bone micro-architecture. Its consequences are an increase in bone fragility leading to an increased risk for fractures. While Bone Mineral Density (BMD) alone is a key factor in assessing fracture risk, it does not identify all individuals who are at high risk of fracture.

TBS Osteo is an AI-ready technology and state-of-the-art software powered by TBS iNstight to evaluate **bone microarchitecture** in patients during a DXA scan. It provides the missing link needed to identify more patients at risk of fracture.



30%

Adding TBS to your clinical practice will allow you to identify up to 30%³ more patients at risk of fracture and support you in the treatment decision-making, to prevent future fractures and improve overall bone health.

Providing the full bone health picture

Easily installed on a DXA machine, TBS Osteo computes a patient's Trabecular Bone Score (TBS) which is a measure of bone texture highly correlated with bone micro-architecture.

The software generates an All-in-one automatic report combining BMD, clinical risk factors or FRAX[®], and TBS score to provide you with the full picture of a patient's risk of fracture. The software assists you in creating automatic and editable conclusions based on medical society guidelines and is easy to interpret. One of the key advantages of TBS Osteo is that it does not require additional scan time or exposure to radiation, making it a safe and efficient screening tool for patients.



All-in-one report

- TBS adjusted FRAX, TBS adjusted BMD T-Score
- Automated & easy to interpret report with editable conclusions option
- Option to print and/or send to PACS (DICOM SR)

PACS - Picture Archiving and Communication System
DICOM - Digital Imaging and Communication in Medicine
SR - Structured Report

1. <https://www.osteoporosis.foundation/patients/about-osteoporosis>

2. Siris, E. S. et al. Bone mineral density thresholds for pharmacological intervention to prevent fractures. *Arch. Intern. Med.* 164, 1108-1112 (2004)

3. Adapted from Table 3 in Hans et al. *J Bone Miner Res.* 2011 Nov;26(11):2762-9. DOI: 10.1002/jbmr.499

Benefits



Clinical

- Identify more patients at risk of fracture by combining TBS with BMD and/or FRAX®
- Fine-tune therapy decisions and monitor changes in primary and secondary osteoporosis
- Improve patient management



Operational

- Seamlessly integrated into daily clinical workflow
- No additional hardware needed
- Zero additional scan time and no additional radiation for the patient
- Compatible with GE and Hologic DXA models*



Financial

- Increase the value of your existing DXA practice with more patient referrals and returning patients
- Retrospective analysis can identify patients at risk and trigger earlier follow-up scans
- Reimbursement available in the USA

TBS dedicated CPT codes

Since 2022, TBS has four new dedicated CPT codes for reimbursement. Current Procedural Terminology (CPT®) Codes available for reporting TBS procedures:

77089

77090

77091

77092

For additional information visit:

www.medimaps.ai/doc/trabecular-bone-score-reimbursement/



Scan me to
book a demo
of TBS Osteo

TBS used in
clinical routine
globally

>3M

PROCEDURES

more than 3 million TBS procedures annually are conducted worldwide

>30

GUIDELINES

TBS is recommended in national and international guidelines

>1200

PUBLICATIONS

In peer-reviewed medical journals about TBS

>60

COUNTRIES

in which TBS Osteo is registered and used by the medical community

*To know more about the compatibility to your DXA scan, please contact your local vendor



MEDIMAPS

We understand bone health

Founded by medical practitioners and clinical researchers, Medimaps combines Swiss innovation with a global presence to lead in bone health management. We provide healthcare professionals worldwide with advanced AI-driven software that enables comprehensive bone microarchitecture assessment.

Our passion for musculoskeletal health is underpinned by scientific knowledge, collaborations with world-class academics, clinicians, industry partners, and direct patient engagement. The science behind our cutting-edge imaging applications and clinical evidence forms the core of our company's DNA.



swiss made software

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