

Journal	Article Title	Authors	Cohort	Key Findings
Journal of Bone Mineral Research 2011	Bone microarchitecture assessed by TBS predicts osteoporotic fractures independent of bone density: The Manitoba Study	Hans D, Goertzen AL, Krieg MA, Leslie WD	29,407 women followed for 4.7 years TBS values were retrospectively analyzed	1. TBS predicts fractures as well as lumbar spine BMD, and the combination was superior to either measurement alone ($p < 0.001$). 2. Incremental improvement in the performance of the combination of BMD and TBS remained significant even after adjustment for multiple clinical risk factors.
Journal of Bone Mineral Research 2014	Trabecular bone score (TBS) predicts vertebral fracture over 10 years independently of bone density in Japanese women: The Japanese Population-based Osteoporosis (JPOS) Cohort Study	Iki M, Tamaki J, Kadowaki E, Sato Y, Dongmei N, Winzenrieth R, Kagamimori S, Kagawa Y, Yoneshima H	665 women followed over 10 years All patients: VFA+DXA+TBS	1. Lower TBS was associated with higher risk of vertebral fracture over 10 years independent of BMD and clinical risk factors (including prevalent vertebral deformity). 2. TBS could effectively improve fracture risk assessment in clinical settings.
Bone 2013	Added value of trabecular bone score to bone mineral density for prediction of osteoporotic fractures in postmenopausal women: The OPUS Study	Briot K, Paternotte S, Kolta S, Eastell R, Reid DM, Felsenberg D, Glüer C, Roux C	Subset of 1,007 women over age 55 originally recruited in 5 centers over 6 years with subsequent incident fractures	1. Performance of TBS was significantly better than LS BMD for prediction of incident clinical osteoporotic fractures. 2. For radiographic vertebral fractures, TBS and LS BMD had similar predictive power but the combination of TBS and LS BMD increased the performance over LS BMD alone.
Osteoporosis International 2014	TBS result is not affected by lumbar spine osteoarthritis	Kolta S, Briot K, Fechtenbaum J, Paternotte S, Armbrecht G, Felsenberg D, Glüer C, Eastell R, Roux C	1,254 mulheres em menopausa (66.7 ± 7.1 anos) incluindo 727 com 6 anos de acompanhamento	1. In postmenopausal women, lumbar osteoarthritis leads to an increase in LS BMD. In contrast, spine TBS is not affected by lumbar osteoarthritis.
Journal of Bone Mineral Research 2015	A meta-analysis of trabecular bone score in fracture risk prediction and its interaction with FRAX	McCloskey E, Odén A, Harvey N, Leslie W, Hans D, Johansson H, Barkmann R, Boutroy S, Brown J, Chapurlat R, Elders P, Fujita Y, Glüer C, Goltzman D, Iki M, Karlsson M, Kindmark A, Kotowicz M, Kurumatani N, Kwok T, Lamy O, Leung J, Lippuner K, Ljunggren Ö, Lorentzon M, Mellström D, Merlijn T, Oei L, Ohlsson C, Pasco J, Rivadeneira F, Rosengren B, Sornay-Rendu E, Szulc P, Tamaki J, Kanis J	14 prospective population-based cohorts; 17,809 men and women; from 50 years; mean follow-up of 6.7 years.	1. TBS predicts osteoporotic fracture independently of BMD and FRAX® whatever the type of the fracture and the gender 2. TBS enhances the fracture risk prediction from the widely used FRAX tool 3. TBS can be used as an adjustment parameter of FRAX 4. TBS thresholds obtained are similar for both men and women: low TBS threshold is 1.230 and high TBS threshold is 1.310.
Bone 2015	Trabecular bone score (TBS) as a new complementary approach for osteoporosis evaluation in clinical practice	Harvey NC, Glüer CC, Binkley N, McCloskey EV, Brandi M-L, Cooper C, Kendler D, Lamy O, Laslop A, Camargos BM, Reginster J-Y, Rizzoli R, Kanis JA	Review of TBS literature - several cohorts	A consensus report of a European Society for Clinical and Economic Aspects of Osteoporosis and Osteoarthritis (ESCEO) Working Group
Journal of Clinical Densitometry 2015	Fracture Risk Prediction by Non-BMD DXA Measures: the 2015 ISCD Official Positions Part 2: Trabecular Bone Score	Barbara C. Silva, Susan B. Broy, Stephanie Boutroy, John T. Schousboe, John A. Shepherd, and William D. Leslie	Review of TBS literature - several cohorts	2015 ISCD Official Positions