



Improving Diagnostic Confidence with TBS iNsign™ Software

Using advanced imaging to clearly identify patients at risk for fracture

As an endocrinologist and director of the osteoporosis center at Hadassah Medical Center, Dr. Auryan Szalat screens hundreds of patients monthly. For over five years, Dr. Szalat has used TBS iNsign™ software by Medimaps™ Group on DXA systems by Hologic® to gain more information on his patients' fracture risk based on trabecular bone score (TBS) and to confidently determine if treatment is needed.



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For more information, contact your Hologic representative

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Easily Integrated

In a high-volume clinic, Dr. Szalat screens an average of 100 people per week. Knowing this, it is crucial that DXA screenings remain both efficient and accurate. The TBS iNsign software is simple to install into a clinic's current DXA workflow – requiring no additional hardware – and can analyze the patient database retrospectively.

The software is not only easily adopted, but it requires no additional screening time and does not cause increased radiation exposure during a DXA exam. The TBS iNsign software generates an all-in-one report quickly, ensuring that clinicians do not need to take extra steps to extrapolate data.

“The TBS iNsign software is easy to use as I could install the program directly onto the DXA machine,” said Dr. Szalat. “I can automatically run the software without any extra steps and quickly receive accurate results.”

Increased Diagnostic Confidence

TBS iNsign software can help to increase a clinician's diagnostic confidence during an exam. TBS performs a texture analysis of bone microarchitecture to provide information on the bone's structural quality independently from bone mineral density (BMD) and FRAX® scores. This is especially important as 50% of patients with fractures have normal or osteopenic bone mineral density values¹ and using TBS calculations ensures that at-risk patients are not missed.

“ I can automatically run the software without any extra steps and quickly receive accurate results. ”

During an exam, the TBS iNsign software quickly generates an all-in-one report including a TBS-adjusted FRAX score and a TBS-adjusted BMD T-score. Additionally, the results can be integrated to a TBS-adjusted FRAX score in patients with osteopenia, allowing clinicians to make a more accurate fracture risk prediction and recommendations based on medical society guidelines.

“The added information allows me to confidently decide my patient's next steps,” said Dr. Szalat. “TBS iNsign data provides more information regarding fracture risk, letting me determine if starting anti-osteoporosis therapy is mandatory immediately or if it can potentially be delayed in patients with borderline indications. The software has increased my diagnostic confidence tremendously.”



“It allows me to better consider their fracture risk than before and has influenced therapeutic decisions.”

Performing a scan with TBS iNstight software allows clinicians to identify more patients at risk of fracture, reclassifying up to 30% of osteopenic patients at high risk of fracture.² TBS scans continue to accurately and easily determine fracture risk, and the International Society for Clinical Densitometry (ISCD) has recognized its effectiveness and included TBS into their guidelines.³

“I have changed the clinical decision for many patients based on their TBS score,” said

Dr. Szalat. “It allows me to better consider their fracture risk than before and has influenced therapeutic decisions.”

Long-Term Benefits

In addition to providing more information during a screening, the TBS iNstight software offers several long-term benefits. Clinicians can monitor their untreated patient’s bone health over time with the software’s Trending Bone Health Report, to help ensure that any change in fracture risk does not go unnoticed. The TBS changes can also be of interest to follow-up patients on anabolic therapy for osteoporosis.³ Finally, health care professionals can retroactively analyze their database to identify patients who may need more accurate follow-up scans and treatment.

“Some patients may particularly benefit from the TBS evaluation for a more

accurate fracture risk evaluation: diabetic women, patients on steroid treatment and most patients with a secondary cause of osteoporosis,” added Dr. Szalat. “In these specific patients, I can ensure that I am providing them with the proper risk fracture evaluation and treatment.”

The TBS iNstight software improves patient care by capturing more patients at risk of fracture and improving the diagnostic confidence of the clinician. And now, U.S. doctors may receive reimbursement for their investment in improving patient’s care through the TBS iNstight software. In fact, U.S. CPT codes are now available, and insurers may provide a reimbursement per scan, further emphasizing the value of the software.

Horizon[®]
DXA System

¹ Siris ES, Chen YT, Abbott TA, et al. Bone mineral density thresholds for pharmacological intervention to prevent fractures. Arch Intern Med. 2004;164(10):1108-1112.

² Hans D, Goertzen AL, Krieg MA, Leslie WD. Bone microarchitecture assessed by TBS predicts osteoporotic fractures independent of bone density: the Manitoba study. J Bone Miner Res. 2011;26(11):2762-2769.

³ International Society for Clinical Densitometry. 2019 ISCD Official Positions: Adult. <https://iscd.org/learn/official-positions/adult-positions>. Accessed September 30, 2022.

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