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Agfa Radiology Solutions and IBEX Innovations introduce DensityScan™ at RSNA 2023

Integrated in the MUSICA® Workstation, the IBEX BH-based DensityScan™ automatically detects risk of osteoporosis from a simple, cost-effective X-ray

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- DensityScan™ supports osteoporosis screening, enabling early detection, diagnosis and treatment of the condition.
- DensityScan™ incorporates IBEX BH, which measures aBMD and T-score from a wrist X-ray.
- Every compatible routine X-ray thus becomes an opportunity to automatically screen patients for osteoporosis.
- DensityScan™ is the second solution in the MUSICA® Workstation-embedded ScanXR portfolio of AI-driven tools for identifying pathologies.

Opportunistic osteoporosis detection

Agfa Radiology Solutions and IBEX have collaborated to integrate IBEX Bone Health (BH) into DensityScan™, providing automatic detection of osteoporosis from every compatible routine X-ray.

IBEX BH measures the patients' areal bone mineral density (aBMD) and estimates the T-score from the X-ray. These measures of osteoporosis risk are output as a secondary capture archived by the MUSICA® workstation along with x-ray image. Early awareness provides patients and referring physicians a starting point to assess fracture risk and begin diagnosis or treatment.

DensityScan™ aims to improve osteoporosis case findings by automatically identifying patients at heightened risk from a compatible radiograph.

Benefits of early detection

Osteoporosis affects around 10 million Americans, 80% of whom are either not diagnosed or are untreated¹ despite recommendations for improved post-fragility fracture osteoporosis management² It is referred to as “the silent disease”, as most sufferers do not know they have the disease until it is too late. Such fragility fractures can have significant health, quality of life and financial impacts. Yet, fracture rate can be reduced through lifestyle change, treatment and medication approved by the U.S. Food and Drug Administration (FDA).

Early detection is the critical link, and screening is recommended by the U.S. Preventive Services Task Force (USPSTF) for women over age 65 years and in postmenopausal women younger than 65 years old³.

“ At IBEX we firmly believe that awareness is the first step to change. Improving screening services will empower patients to take control of their own bone health and raise the profile of the disease amongst clinicians.

We are excited to be powering Agfa’s DensityScan™ and share a common vision to raise awareness of the disease, hopefully before a patient has suffered their first fracture.” says Dr. Paul Scott, CEO of IBEX.

Improving patients’ quality of life

“DensityScan™ fits in Agfa’s vision to transform radiology by bringing intelligent and definitive answers to patients with x-ray imaging. Aside from the benefit of improving patients’ quality of life, we are committed to leveraging the low cost and easy access of plain radiography to reduce the pressures chronic diseases and a growing elderly population place on healthcare professionals, hospitals and society,” says Paul Danini, Global Software Marketing and Product Manager at Agfa Radiology Solutions.

¹ [1]: Bone Health Osteoporosis Foundation - Osteoporosis Fast Facts - <https://www.bonehealthandosteoporosis.org/wp-content/uploads/Osteoporosis-Fast-Facts-2.pdf>

² Snodgrass, P., Zou, A., Gruntmanis, U. et al. Osteoporosis Diagnosis, Management, and Referral Practice After Fragility Fractures. *Curr Osteoporos Rep* 20, 163–169 (2022). <https://doi.org/10.1007/s11914-022-00730-1>

³ <https://www.uspreventiveservicestaskforce.org/uspstf/recommendation/osteoporosis-screening#fullrecommendationstart>

DensityScan™, which will be introduced at RSNA 2023, is the second solution in the MUSICA® Workstation-embedded ScanXR portfolio of AI-driven tools for identifying pathologies. ScanXR intelligently assists clinicians and radiologists to accelerate the notification of suspected pathologies that tend to be underdiagnosed or that need to be treated immediately.

Find out about Agfa's intelligent technologies for image processing and workflow assistance, including DensityScan™, at booth 2552, RSNA 2023, Chicago, IL, from November 26-30.

About Agfa

Agfa develops, produces and distributes an extensive range of imaging systems and workflow solutions for the printing industry, the healthcare sector, as well as for specific hi-tech industries such as printed electronics & renewable energy solutions.

The headquarters are located in Belgium. The largest production and research centers are located in Belgium, the United States, Canada, Germany, France, the United Kingdom, Austria, China and Brazil. Agfa is commercially active worldwide through wholly owned sales organizations in more than 40 countries.

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