To receive Lunar News and be informed about the latest developments in Densitometry, please register for SmartMail. You will find the SmartMail registration link on the left side of all pages of www.gehealthcare.com

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Our healthymagination vision for the future invites the world to join us on our journey as we continuously develop innovations focused on reducing costs, increasing access and improving quality and efficiency around the world. Headquartered in the United Kingdom, GE Healthcare is a $17 billion unit of General Electric Company (NYSE: GE). Worldwide, GE Healthcare employs more than 46,000 people committed to serving healthcare professionals and their patients in more than 100 countries. For more information about GE Healthcare, visit our website at www.gehealthcare.com

Lunar DPX NT
Office-based bone densitometry
Bone densitometry has reached a landmark in clinical performance with the Lunar DPX NT® densitometer. With the combination of clinical confidence and dedicated utility, easy-to-use enCORE software and high performance low dose scanning, Lunar DPX NT assists physicians to confidently and efficiently diagnose osteoporosis and assess fracture risk. Also available for the Lunar DPX NT are innovative tools to increase productivity, such as the DualFemur feature for seamlessly scanning both femora in one automatic process, and Composer for automated generation of custom reports.
Connectivity and productivity solutions

enCORE software – seamless osteoporosis management
The intuitive graphical enCORE software provides a dedicated palette of clinical applications for seamless osteoporosis assessment in a streamlined operator-friendly package, while ensuring clinical confidence and fast throughput. The embedded AutoAnalysis feature facilitates the assessments even more, by automatically placing the (adjustable) standard regions of interest (ROIs).

DualFemur – identifying the weakest femur
With the DualFemur option, both femorae are automatically scanned in one seamless acquisition without repositioning the patient. As such, DualFemur allows you to assess the density of the critical hip region, including identification of the weakest side increasing confidence in your treatment decisions. In addition, the trending function enables seamless follow-up of change over time.1,2,3

ScanCheck – add quality and diagnostic power
ScanCheck automatically studies acquisition inputs and the acquired image, looking for errors and patient irregularities. When it detects anomalies, it displays explanations and instructions which can be reviewed by the interpreting physician. ScanCheck helps speed throughput and reduces errors. It also helps technologists provide information to the interpreting physician.4,5

OneScan – three sites in one test
OneScan simplifies BMD testing by acquiring lumbar spine and bilateral femur scans in one, automatic process from a single patient position, without compromising diagnostic confidence.6,7,8

SmartScan – increase throughput
Patient scanning speed is improved with the SmartScan feature: this time-saving scanning technique automatically adapts the scan path to the skeletal structure, imaging the necessary anatomy only, resulting in further speed gains and dose reduction. Utilizing this feature, AP spine and femur scan times are typically less than two minutes in standard mode.9

Complete connectivity with DICOM, HL7, MUDB and TeleDensitometry
DICOM and HL7 connectivity seamlessly integrate densitometry results with Picture Archival and Communication Systems (PACS) and Radiology/Hospital Information Systems (RIS/HIS) respectively.

The Worklist feature, present in both DICOM and HL7, enables you to automatically use patient information from scheduling applications, increasing throughput while also helping to reduce data entry errors.

Multi-User Database access (MUDB) improves flexibility and productivity by offering the possibility to access and/or reanalyze scans remotely and to share with clinical partners.

TeleDensitometry enables you to send paperless reports as easy e-mail attachments, viewable on any personal computer without special software.

Composer: custom reports
With clinical diagnosis and treatment decisions based on a variety of pre-defined criteria and guidelines established by international and local societies,10 it might not always be that easy for your referring colleagues and administrations to interpret multi-page reports. Composer allows you to automatically generate concise custom patient reports, including imagery, clinician diagnosis and monitoring assessments, in full accordance with the pre-defined criteria and guidelines in your locality.

OneVision: the spine and both femurs in one comprehensive report
OneVision automatically combines scans of the spine and both hips into one comprehensive report, acquired in one process and evaluated in one analysis. Rather than receiving multiple assessment reports, the referring physician receives a single, consolidated report that combines all risk assessment analyses.
Dedicated to BMD and beyond

Total body, body composition

Body composition measurement with dual-energy X-ray absorptiometry (DXA) can look beyond weight and the traditional body mass index (BMI) to determine body fat distribution. Body composition scans with the Lunar DPX NT provide exceptionally precise and accurate data on bone and tissue composition, including bone mineral density (BMD), lean tissue mass, and fat tissue mass. They provide both total body data and regional results (trunk, arms, legs, pelvis and android/gynoid regions). The measurements are fast and non-invasive.

Lunar DXA pediatric application

Now you can use one powerful set of tools to get valuable clinical information about growth and development in children. The Lunar DXA pediatric application measures bone mineral density in addition to femur bone density in predicting fracture risk.

- **Hip Axis Length (HAL)**: has been demonstrated in prospective studies as an effective adjunct to femur bone density in predicting fracture risk.
- **Cross-Sectional Moment of Inertia (CSMI)** and Femur Strength Index (FSI) are calculated for the assessment of the load-bearing capacity of the hip.
- **Color bone mapping**: displayed to differentiate areas of cortical and high/low density trabecular.

Orthopedic - Peri-prostetic hip implant

The orthopedic application provides highly accurate and precise bone mineral density and bone mineral content values. Bone assessment in the vulnerable region surrounding an implant is now possible. This application also enables automatic bone assessment of the hip implant using standard Gruen zones (7 zones) and extended Gruen zones (19 zones) to provide exceptional evaluation for practitioners and clinical researchers specialized in the fields of orthopedics and surgery.

Bone evaluation of peripheral sites

The optional peripheral applications, such as the radius and ulna can be evaluated to provide additional clinical information on the skeletal status of your patient, or patient population.