



Lunar Bone Density and Metabolic Health Portfolio from GE Healthcare

Over 44 years of Innovation and
Technology Leadership

1973

2017



Lunar Radiation Corporation

Founded by Richard Mazess, Ph.D, Professor of Medical Physics at the University of Wisconsin.

1973



enCORE software platform

An evolutionary software framework based on Microsoft Windows uses a graphical user interface that helps to improve training and ease-of-use. enCORE soon migrates to all Lunar densitometers.



Prodigy™ 3rd Generation DXA: Narrow-Angle Fan Beam

Narrow-angle DXA densitometer combines a narrow-angle fan beam with high-precision rectilinear scanning and a patented multi-view image reconstruction technique. The Prodigy uses a direct-digital detector for lower radiation dose and high-resolution images.

- Spine/femur scan time: 30 seconds
- Total Body scan time: 4 minutes

Lunar Corporation goes public Lunar DPX-L/DPX-alpha

Pencil-beam DXA densitometer utilizes a higher-current X-ray source. The DPXL and DPX-alpha improve scan speeds and allow bone mineral density measurement of the lumbar spine in the lateral view.

FDA registration of reference data

FDA registration of 2.5 minute scan time

1990

1998

1983



Lunar DP4

Commercial DPA densitometer measures the total body and allows researchers to study bone mineral density throughout the entire skeleton, as well as body composition.

- DEC PDP 11-70
- Total body scan time: 70 minutes

1988



Lunar DPX 1st Generation DXA: Pencil Beam

Pencil-beam DXA densitometer uses a k-edge filter and X-ray source in place of a radionuclide. The new X-ray technology, dual-energy X-ray absorptiometry (DXA), becomes the foundation of all modern DXA systems. Improves image quality, along with precision and accuracy.

- Rectilinear scan using X-ray with pencil beam geometry
- IBM AT
- Spine/femur scan time: 4 minutes
- Total body scan time: 20 minute

FDA registration of femur BMD measurement

1991



Lunar Achilles™

Quantitative ultrasonography (QUS) system measures the acoustic properties of the os calcis. QUS produces clinical parameter called stiffness, which is related to the density and structure/elasticity of the bone and predicts fracture risk. Initial use by researchers outside US led to widespread acceptance in certain markets around the world due to ease-of-use and absence of ionizing radiation. Later approved in the US in 1998.

- Fixed-position acoustic transducers
- Temperature-controlled water bath

FDA registration of lateral spine BMD measurement



Lunar iDXA™
4th Generation DXA:
High-Resolution,
Premium grade
equipment

The flagship narrow-angle DXA densitometer of the Lunar product line has a higher resolution providing enhanced bone mineral density measurement and image quality, as well as advanced body composition assessment.

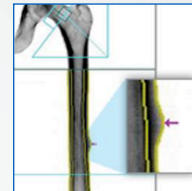


Prodigy Primo

Narrow-angle DXA densitometer optimized for the physician office. Available in a compact size.

New enCORE features

- Smart QA
- DVA SmartScan



New enCORE features

- Atypical Femur Fracture
- Sarcopenia Calculator



Achilles EXP II

Thoroughly redesigned QUS system is a faster, more durable bone ultrasonometer with enhanced data management capabilities.



Aria™

Value Segment Bone Densitometer for ROI-conscious clinics with < 50 beds

2006

2005

2011

2017

2000



Lunar joins
GE Medical
Systems

2003



Prodigy Advance

Narrow-angle DXA densitometer is enhanced with a higher weight limit and the latest enCORE feature set.

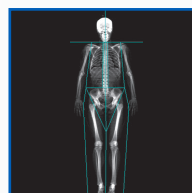
- 10 second QuickView
- 350 lb (159 kg) weight limit
- Washable pad



DPX Bravo

Pencil-beam DXA densitometer is enhanced with an innovative swing-arm design for easy patient access. This compact unit is well-suited for the physician office.

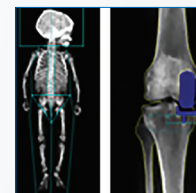
2012



New enCORE features

- Advanced body composition
- Image color coding
- Image trending
- Prodigy enhanced analysis
- RMR
- RSMI
- NHANES total body reference data
- CoreScan™ on Prodigy
- Dose reports

2014



New enCORE features

- Pediatric scan & analysis – Birth to 20 years of age; Pediatric reference population – 5 to 20 years of age
- Orthopedic knee



GE Healthcare provides transformational medical technologies and services to meet the demand for increase access, enhanced quality and more affordable healthcare around the world. GE (NYSE: GE) works on things that matter – great people and technologies taking on tough challenges. From medical imaging, software & IT, patient monitoring and diagnostics to drug discovery, biopharmaceutical manufacturing technologies and performance improvement solutions, GE Healthcare helps medical professionals deliver great healthcare to their patients.

Imagination at work

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