

Bone & Metabolic Health

ProdigyTM from GE HealthCare

Performance and reliability with one of the largest installed base DXA systems in the world

gehealthcare.com/bmh

Prodigy

High performance, efficient and reliable DXA system with the versatility to offer bone density test and body composition analysis. Prodigy systems provide the option to scale up to a wide-range of clinical applications.

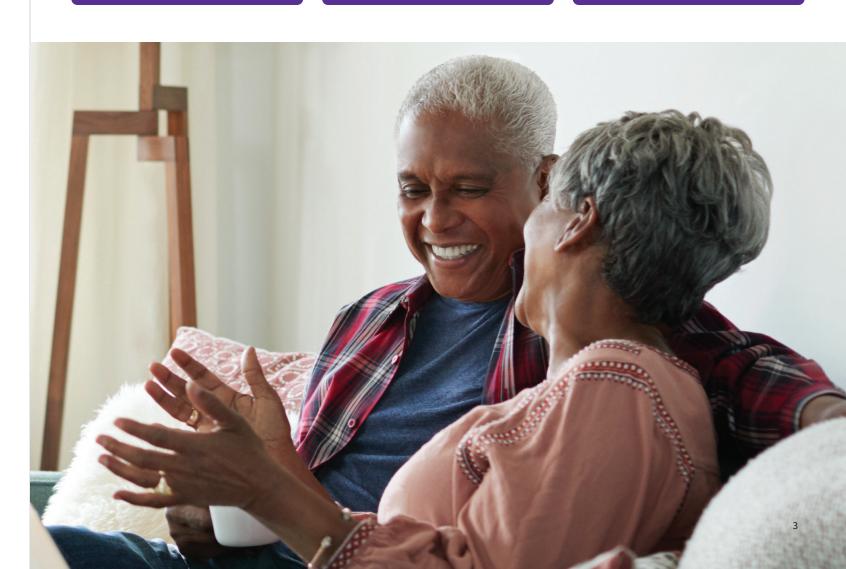


Your practice demands dependable dual-energy X-ray absorptiometry (DXA) assessment, and Prodigy delivers with exceptional precision and low-dose radiation. You can depend on Prodigy to provide precise data on bone and soft tissue composition, including bone-mineral density (BMD), lean- and fat-tissue mass, and percentage of fat. At the same time, Prodigy helps streamline your patient care and practice workflow.

Prodigy software packages – Customized to suit your needs



- Basic Skeletal
- Assessment Basic Body Composition
- Package includes: • Essential Skeletal
- Assessment
- Assessment



Prodigy Pro



• Essential Body Composition

• Pediatric Measurements

Prodigy Advance



Package includes:

- Advanced Skeletal Assessment
- Advanced Body Composition Assessment
- Pediatric Measurements
- Multi-User Database

Solid performance makes Prodigy chosen worldwide



Prodigy is our proven and dependable DXA product with a large global installed base across 120+ countries.

Clinicians, Researchers and Practitioners have trusted the Prodigy DXA system for more than 20 years making it one of the largest selling DXA systems in the world.

Prodigy with enCORE v18 software enables you to meet ISCD testing guidelines

ISCD indications for Bone Mineral Density (BMD) testing:

- Women 65 and older
- Men 70 and older
- Post-menopausal women with a risk factor:
- Low body weight
- Prior fracture
- High risk medication use

- Adults taking medications associated with low bone mass or bone loss
- Adults with disease or condition associated with low bone mass or bone loss
- ISCD guidelines for BMD testing available at ISCD.org

Prodigy for Bone Health

Prodigy's reliable design and robust technology platform supports a comprehensive portfolio of clinical applications for bone health.

- Bone Mineral Density
- FRAX
- Trabecular Bone Score (TBS)
- DVA (includes LVA, APVA and Lateral BMD)
- Atypical Femur Fracture and more

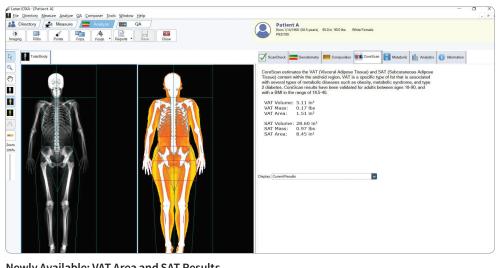


BMD Insights using AFF User Customizable Threshold

Prodigy for Metabolic Health

Prodigy offers a wide range of clinical applications for metabolic health needs.

- Total Body Composition
- CoreScan
- Sarcopenia
- Fat Color Coding
- Custom Reference Population
- Option to Integrate Hydration Levels from BIA/BIS (TBW, ECW, ICW) to have 5 compartment models (LM, FM, BMC, ECW, ICW) and more



Newly Available: VAT Area and SAT Results

vois Window Leip	- Patient A Bean Disk (1990 (53.) years) 55.0 in 50.0 bs. White Female PED/00	- 0 ×
	Beschleck Constructively Image: FRACe Image: APR Image: A	↓ 35

A Few of our Newest Applications

A wide breadth of applications and features



Trabecular Bone Score – Integrated TBS¹ Provides TBS score based on assessment of trabecular region of bone, including FRAX-adjusted TBS. Includes TBS license. Complimentary 60-day

TBS software trial program available for new



Sports Athletics Package

Includes TBLH (Total Body Less Head) for Adults and Smaller Body Comp – ROI to easily scan and report on specific Regions of Interest. Facilitates study of localized changes in body composition.

Smaller Body Composition (Regions of Interest)⁵

Monitor and report on Regions of Interest (ROI) including upper arm, lower arm, upper leg and lower leg, to study changes in body composition in these regions.

Advanced Analytics



Provides deep BMD and Body Composition insights with custom equations, metrics and ratios based on 200+ DXA bone and body composition parameters. User-defined classification thresholds, trending and reporting.

Customizable Thresholds (AFF and VAT)^{6,7,8}

Enables setting of custom thresholds to search for correlations: between "beaking" and the probability of AFF, and between VAT and the probability of metabolic disorders.



Analytics 🚺 Information

Composer Reporting

Provides default style sheets, which can be edited using an intuitive WYSIWYG interface to quickly produce customized reports and templates.

Multi-User Database on a Secure Platform



Advanced security features help protect your data.

Security Feature	Provided Benefit
IPv6 for DICOM and HL7	Communication protocol integrating I
FIPS 140-2 Encryption	Federally compliant encryption standa
Audit Trails	Logs information related to:Software configuration and user accDatabase events including authentiEvents supported by the DICOM Auc
TLS for DICOM [®]	Provides security at the transport laye TLS is an updated, more secure, versic

Provides one unified workflow and comprehensive reporting for BMD, AFF, VAT and SAT.² Designed to improve operator efficiency with a scan time up to 40% faster.³ Includes

DXAVision[™]

TBS customers.

Total Body Less Head (TBLH) and Neck-to-Knee for Adults. Neck-to-Knee for Adults^₄

Performs a faster scan by omitting head and lower legs, providing an estimate of total body composition.

Total Body and Smaller Body (ROI) Composition,



Total Body Less Head (TBLH) for Adults⁵ Including the skull can mask changes occurring in other areas of the skeleton; this tool automatically performs a scan from the neck down. Can also get

TBLH results for scans with the head included.



CoreScan with VAT and SAT Results CoreScan estimates Visceral and Subcutaneous Adipose Tissue (VAT and SAT) mass, area within the android region. Value

displayed in user-defined statistical and trends.

bcutaneous	
volume and	
ies can be	
formats	

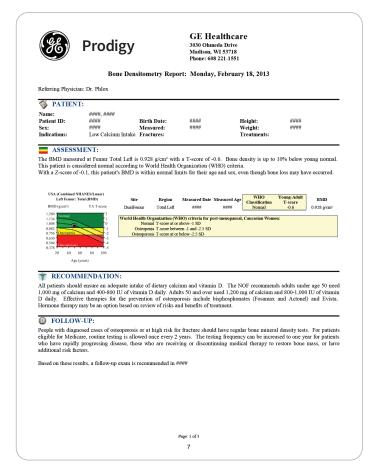
IPSec for better security during data exchange

dard that protects patient exam files using 256-bit encryption

ccess changes, destination IP addresses tication, patient modification/deletion idit Trail Profile

er of a DICOM transaction by using encryption and node authentication. ion of the SSL protocol.

Detailed assessment in just a few clicks



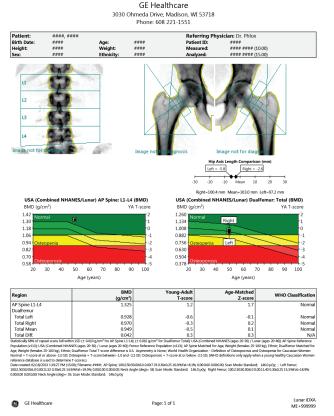
GE Healthcare 3030 Ohmeda Drive, Madison, WI 53718 Phone: 608 221-1551 Patient: Birth Date: Height: NES/Lunar) AP Spine: L1-L4 (BMD) NES/Lunar) DualFemur: Total (BM Age (vear: Region WHO Classificati AP Spine L1-L2 DualFemur Total Left Total Right Total Mean Total Diff. Statistically 68% of r Norma Normal Normal Normal Lunar iDXA ME+999999 GE Healthcar Page: 1 of

Fully customizable reports can be made as concise or as detailed as needed.

Treatment recommendations designated by the physician are automatically added and can include society guidelines.

OneScan performs spine and dual femur BMD measurements in a single protocol without repositioning.9 Results print in a one-page report.





General purpose business reporting

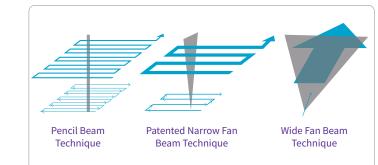
- tools help you manage your practice. Prodigy will automatically: Generate referring physician letters
- Analyze populations and trends
- Export data to tab-delimited text files for use in Microsoft Excel®

Robust Technology Foundation

Third generation DXA technology – with over 30 years of innovations

Patented Narrow Fan Beam Scan

Combining the features of pencil beams and wide fan beams, Narrow Fan Beam technology offers a shorter scan time with reduced magnification error (inherent to wide-angle fan beam scans).



Low-Dose Photon Counting Technology

Dose-efficient photon counting detector technology more efficiently counts X-ray photons, lowering dosage to the patient.

Performance comparison of DXA beam types

	Pencil Beam	Narrow Fan Beam	Wide Fan Beam
Scan time	Long	Short	Short
Bone height measured	No	Yes	No
Magnification effects	No	No	Yes
Off-center distortions	No	No	Yes
Scattered radiation	Lowest	Low	High

Innovative SmartScan[™]

Our SmartScan technology reduces scan time and X-ray dosage by identifying bone regions after each transverse sweep and estimating where to begin scanning on the subsequent sweep.

K-edge Filter

An exceptional "K-edge filter" that creates a dual energy beam and absorbs the X-rays in the middle energy range and protects the patient against unnecessary exposure.

Multi-View Image Reconstruction (MVIR)

By performing multiple transverse sweeps across the site of interest, MVIR accurately determines bone-height above the tabletop, minimizes magnification errors and provides excellent precision and accuracy.

Low Scattered Radiation

Narrow-fan beam technology results in low scatter radiation in comparison to wide-angle fan beam systems.¹⁰

🗸 Standard 🛛 Optional 🗙 Not Available	Primo ^{**}	Pro	Advance
AP Spine	~	~	~
Femur/Dual Femur	~	~	~
Forearm/Non-seated Forearm	~	~	~
Total Body BMD*	~	~	 Image: A set of the set of the
FRAX [®] Fracture Risk Tool	~	~	~
DVO Fracture Risk Tool ¹¹	~	~	~
Multi-User Database (1-3)	~	~	~
ScanCheck	~	~	~
Practice Management	~	~	~
Composer Report Tool	~	~	~
OneScan	~	~	~
OneVision	~	~	~
Pediatric – AP Spine [†]	•	~	~
Pediatric – Femur†	•	~	~
Pediatric – TB (Birth to 20 YO)*	•	~	~
Total Body Composition*	•	~	~
DVA (Includes: LVA, APVA, Lateral BMD)†	•	•	~
CoreScan™*	•	•	~
Advanced Body Composition ^{12*}	×	•	~
Orthopedic Hip	×	•	~
Advanced Hip Assessment	×	•	~
Orthopedic Knee	×	•	~
Hand	×	•	~
Multi-User Database (Up to 40)	×	•	~
Atypical Femur Fracture	×	•	•
Sarcopenia*	×	•	•
Small Animal	×	•	•
Quick View (10 second scan)	×	×	~

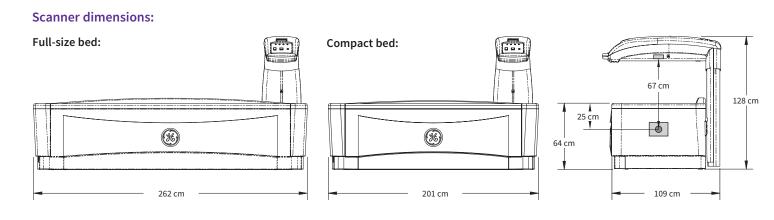
Integrated TBS 3.1	•	•	•
DXAVision ^{™*}	×	•	•
Sports Athletics Package*	×	•	•
Advanced Analytics Full*	×	•	•
Advanced Analytics Bone*	×	•	•
Advanced Analytics Body Comp*	×	•	•

*Not available in Compact size.

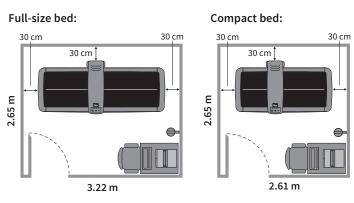
**Prodigy Primo Compact model is not available in all countries – contact your GE HealthCare representative.

[†]Not available on Prodigy Primo Compact.

Specifications



Minimum room dimensions¹³:



Scanner table specifications:

Ε

Scanner size (full-size bed)
Scanner size (compact bed)201(W) x 109(D) x 128(H) cm
Scanner weight (full-size bed)272 kg
Scanner weight (compact bed) 254 kg)
Patient table top height 64 cm
Drive system stepper motor with reinforced drive belts
Active scan area (full-size bed) 196 cm x 60 cm
Maximum patient weight supported159 kg
Active scan area (compact bed) 134 cm x 60 cm
Start position indicator cross laser light (class II, <1 mW power)
Pad washable patient mat
Attenuation of patient support table
Communication cable7.62 m serial
Scanner leakage currentmeets IEC 60601-1 safety standard

Connectivity:

- Teledensitometry¹⁴
- DICOM[®] interface
- HL7 interface
- SQL Server

Computer specifications:

Processor	Intel® Core™ i3
Operating SystemWindows®	10 2021 LTSC
Memory	RAM 8 GB
Storage1	TB NVMe SSD
Optical Drive	DVD-RW SATA
Monitor	0 32-bit color)
Archive Drive (optional)	1 TB USB
Document viewing Adob	e [®] Reader [®] DC
Browser M	licrosoft Edge
Connector RS-2	32 Serial Port
Printer Windows	s [®] -compatible

Detector specifications:

Detector	LYSO X-	-ray	counting	detector

Environmental specifications:

g)	Power 200-240 VAC 50/60 Hz 10A dedicated circuit
n	Consumptionidling 40VA, scanning 450VA
ts	Distortionsinusodal waveform, less than 5% THD
n	Humidity 20%-80% non-condensing
g	Room temperature
n	Scanner heat outputidling 150 BTU/hr, scanning 1500 BTU/hr
r)	Console heat output approx. 200 BTU/hr with 24" monitor
at	Ventilationall cooling vents must remain unblocked
L	Dust, fumes, debris install system in clean, ventilated area
al	

References:

1. Consult for market availability.

- 2. Requires purchase of AFF application and Corescan (for VAT and SAT) application.
- 3. Data on file with GE Healthcare, April 2019.
- 4. Requires DXAVision.™
- 5. Requires DXAVision™ or Sports Athletics Package.
- 6. Requires Advanced Analytics.
- 7. Customizable Threshold for AFF requires AFF Application.
- 8. Customizable Threshold for VAT requires CoreScan application.
- S.M. Hunt et al, "Changing Bone Densitometers in Clinical Practice: Effect on Precision Error", Presented at the American Society for Bone and Mineral Research Annual Meeting, September 23-27, 2005, Nashville, TN, USA.
- 10. Data on file with GE Healthcare, January 2017.
- 11. German speaking countries only.
- Bone-Lean-Tissue Color Coding, Metabolic Results (ICW, ECW, TBW), Resting Metabolic Rate, Composer Style Sheets – Body Sports Medicine Segmental, Body Patient Weight Loss.
- 13. A small room kit with isolation transformer may be required. Please refer to local regulations.
- 14. Additional hardware may be required for fax capabilities.

Products mentioned in the material may be subject to government regulations and may not be available in all countries. Shipment and effective sale can only occur after approval from the regulator. Please check with local GE HealthCare representative for details.

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