



Bone & Metabolic Health

Advanced Analytics

Advanced insights into bone
& body composition

gehealthcare.com

enCORE v18 Advanced Analytics

The latest upgrade to our enCORE software elevates our world-class DXA family of products to a whole new level

Advanced Analytics allows you to create custom equations using existing data from your DXA system, set user-defined classification thresholds based on these equations, and establish actionable patient goals based on evaluation of the results. Later, these custom ratios can be printed out in a custom-built report to share the results with end users.

Hundreds of Bone and Body Composition Parameters are available for advanced analytics

Using Advanced Analytics, Clinicians, Sports Meds & Body Composition researchers can analyze DXA bone & body composition data using sophisticated techniques to discover deeper insights, create custom ratios, make predictions, and have metrics pinned on an in-built dashboard in enCORE software to track changes over time.

Metrics and trending can be performed on retrospective patient or athlete data too.

Advanced Analytics empowers Researchers and Clinicians to create a “metric” based on more than 200 DXA bone and body composition parameters captured during a DXA scan allowing creation of custom ratios and simple or complex mathematical equations.

Custom metrics can be used for research or in clinical practice to gain deeper insights into the changes in bone mineral density and body composition of various regions of interest over time.



MORE THAN 200 BONE AND BODY COMPOSITION PARAMETERS FOR ANALYSIS.

Custom Regions of Interest (ROI) can also be used with Advanced Analytics feature.

Sample Metric = VAT Mass/Total Fat Mass

BODY COMPOSITION ANALYTICS				BONE ANALYTICS – VARIOUS SKELETAL SITES			
DXA Parameters	Regions			AP Spine	Regions	DXA Parameters	
BMC	Left Arm	Composition			L1	Area	
Fat Free Mass	Right Arm				L2	BMD	
Fat Mass	Android				L3	BMC	
Lean Mass	Gynoid				L4	BMD %AM	
Region %Fat	VAT				L1-L2	BMD %YA	
Tissue %Fat	SAT				L1-L4	BMD T-Score	
Tissue Mass	Total Body				etc.	BMD Z-Score	
Total Mass	TBLH						
	much more						
DXA Parameters	Regions	Densitometry		Femur	Regions	DXA Parameters	
Area	Left Arm				Neck	AFF Beaking Index	
BMC	Right Arm				Trochanter	Area	
BMD	Android				Shaft	BMD	
BMD %AM	Gynoid				Total	BMC	
BMD %YA	VAT				etc.	BMD %AM	
BMD T-Score	SAT					BMD %YA	
BMD Z-Score	Total Body					BMD T-Score	
	TBLH					BMD Z-Score	
	much more						

Note: Some parameters may require purchase of additional features.

Advanced Insights

Clinicians, Sports Medicine & Body Composition researchers can analyze DXA bone & body composition data using sophisticated techniques to discover deeper insights, create custom ratios, make predictions, have results pinned on a dashboard, track changes of custom ratios over time, or generate clinical recommendations. Customer ratios can be run retrospectively too.

ADVANCED INSIGHTS INTO BONE HEALTH

- Radiologists
- Rheumatologist
- Orthopedic
- Oncologist
- OB/GYN



- Endocrinologists
- Sports Med
- Nutritionists & Dietitians

ADVANCED INSIGHTS INTO BODY COMPOSITION

Create new Metrics

Create simple or complex mathematical formulas using parameters from your bone and body composition exams. Mathematical operators and parentheses have been provided to create complex mathematical equations.

Equation:
Fat Mass Index (FMI) (kg/m²) = Total Fat Mass (Kg) / Patient Height [m²]

Math Operators

+

-

*

/

Add

Remove

(

)

(

)

Move

Up

Down

Easily create your own mathematical formulas and test your equation before it is finalized.

Define Thresholds to drive results from your metrics

Classification Thresholds

Female:

Classification

Background

Threshold

Font Color

Background

Threshold

Font Color

Background

Threshold

Font Color

Background

Threshold

Font Color

Background

Underweight

18.5

Normal

25.0

Overweight

30.0

Obesity

Male:

Classification

Background

Threshold

Font Color

Background

Threshold

Font Color

Background

Threshold

Font Color

Background

Threshold

Font Color

Background

Underweight

18.5

Normal

25.0

Overweight

30.0

Obesity

Define custom thresholds to enable automatic classifications and evaluation parameters.

Advanced Analytics Dashboard

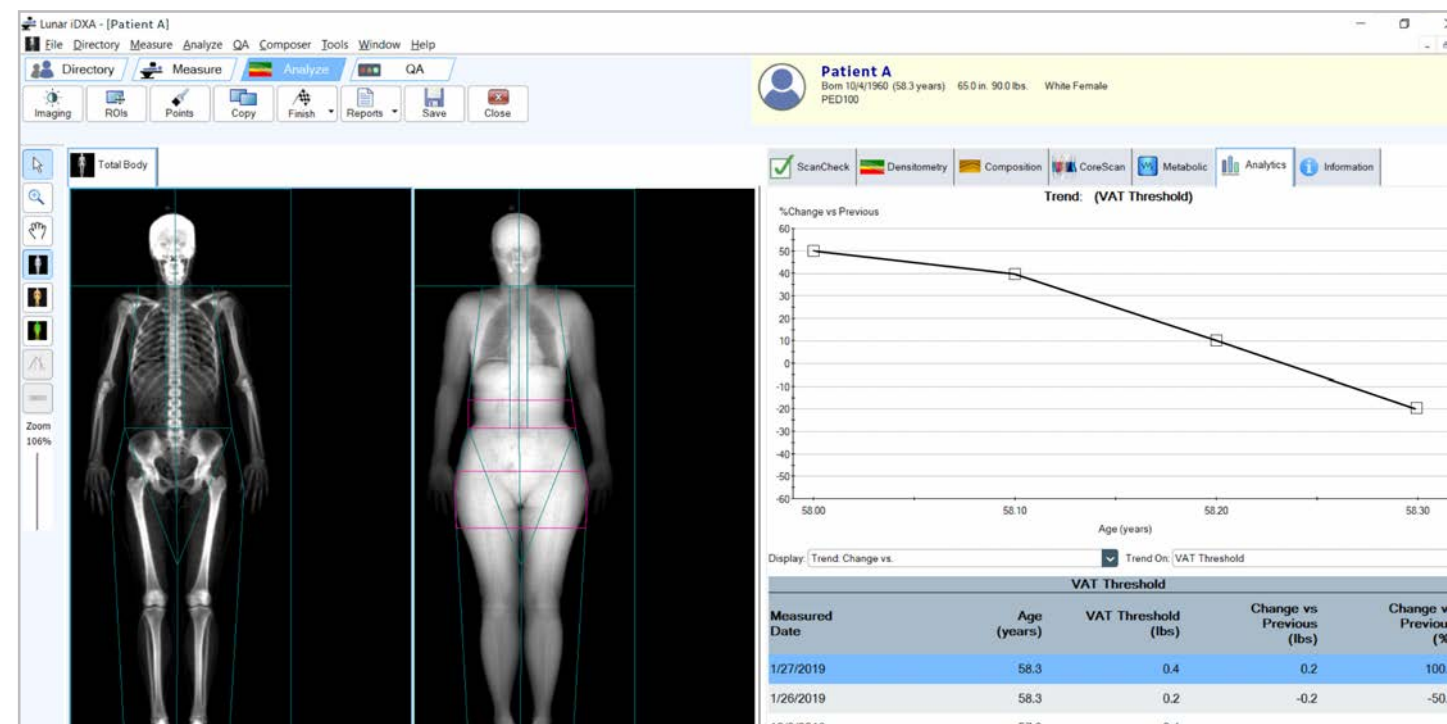
Each created metric will be visible in the Analytics Dashboard. Newly created analytics can also be applied retrospectively to existing files.

4

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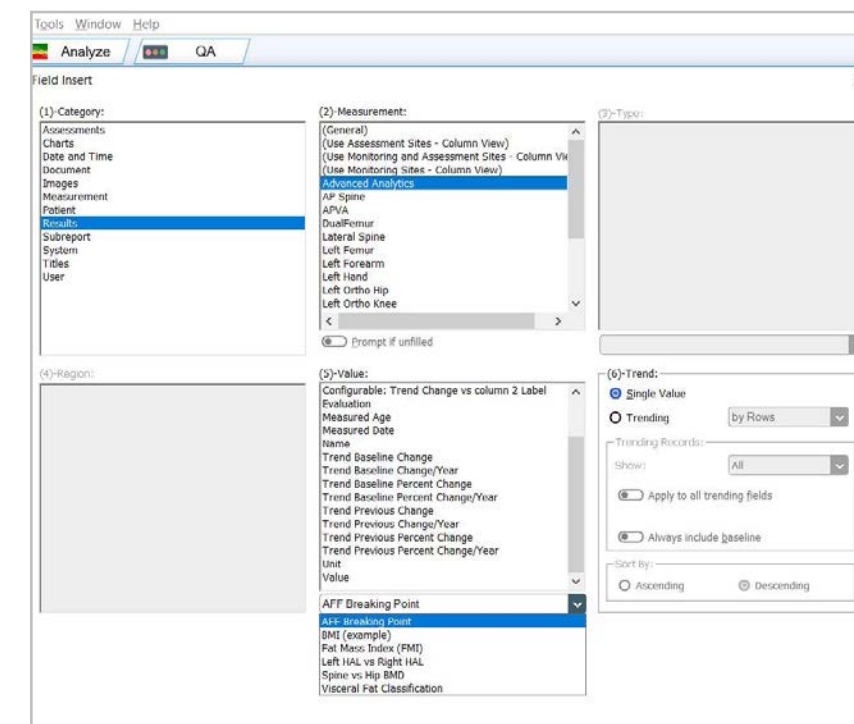
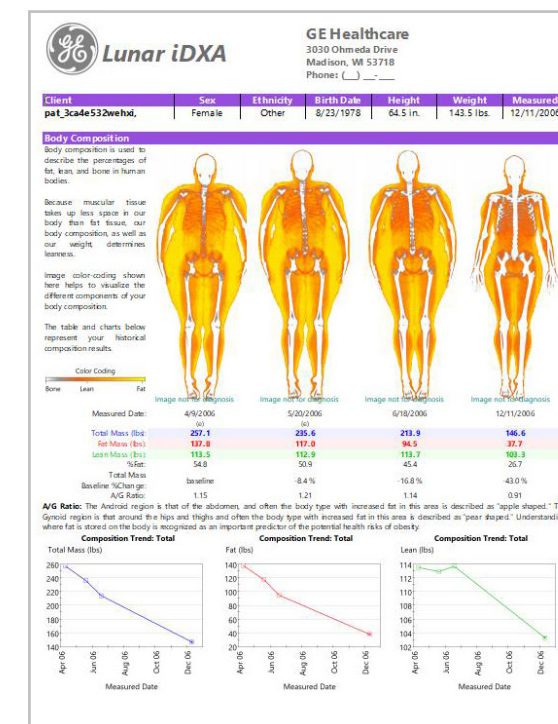
Trend Metrics over time

Changes in metrics can be tracked and monitored over time when the patient or athlete comes back for a DXA scan.



Your Metrics in Custom-Built Reports

Visual results and charts in custom reports that are easy to share. You can set thresholds and classifications to better communicate to patients and clients about changes over time in their bone and body composition.





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