

YOUR BONE IDENTITY



A NEW CONCEPT OF BONE HEALTH

Paving a new way for bone health
management throughout life
at the point of care:

**PREVENTION
EARLY DIAGNOSIS OF OSTEOPOROSIS
SHORT-TERM MONITORING**

[Watch the video](#)



EchoS

The first radiation-free solution for bone health assessment at the axial sites through a very simple and fast echographic scan.

[Watch the video](#)

A NEW ERA IN BONE DENSITOMETRY

Revolutionary approach for bone micro-architecture characterization exploiting the “raw” unfiltered signals acquired during an echographic scan at the lumbar vertebrae and the femoral neck.





LIGHT. FAST. ACCURATE.

A software-assisted echographic scan,
– 80" at the spine and 40" at the hip –
for an accurate bone health
prevention, diagnosis and monitoring,
immediately providing the medical report.

[Watch the demo](#)



BONE MINERAL DENSITY

Evaluation of Bone Mineral Density at the lumbar vertebrae (L1-L4) and the femoral neck providing all the standard parameters for the diagnosis of osteoporosis:

BMD (g/cm²)
T-score
Z-Score

Medical Report



BONE FRAGILITY

An accurate assessment of the internal bone structure, independent from BMD, for evaluating the risk of fracture in 5 years through dedicated statistical and spectral analysis:

FRAGILITY SCORE

Medical Report

(Not yet available in USA)



BODY COMPOSITION

Analysis of the amount and distribution of body components providing BMI, Body Fat and Basal Metabolism Rate measurement during the scan:

BMI
% BODY FAT
BMR

Medical Report

(Not yet available in USA)



SHORT-TERM MONITORING

Bone strength is susceptible to continuous changes.

Thanks to EchoS you will be able to evaluate the bone status at any time, life stage and physical condition, allowing a short-term monitoring throughout life.

LESS COSTS. MORE OPPORTUNITIES.

EchoS does not need for certified operator, shield room, or high maintenance costs.

Its versatility of use in any location and condition, will bring significant benefits to your clinic and patients.





THE PORTABLE SOLUTION

Also available in the ultra-light portable version by simply connecting the main unit to any laptop with a USB cable to perform the examination wherever you want.



Primary
Care



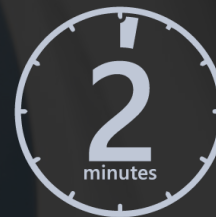
Instant
Report



Portable
Solution



Automatic
Analysis



Quick
Scan



Cost
Effective



MORE THAN A MEDICAL DEVICE

We created the quintessential medical device, something goes beyond reality. Its design and lightness enclose a highly reliable technology for a unique and high quality care.

[Book your demo](#)



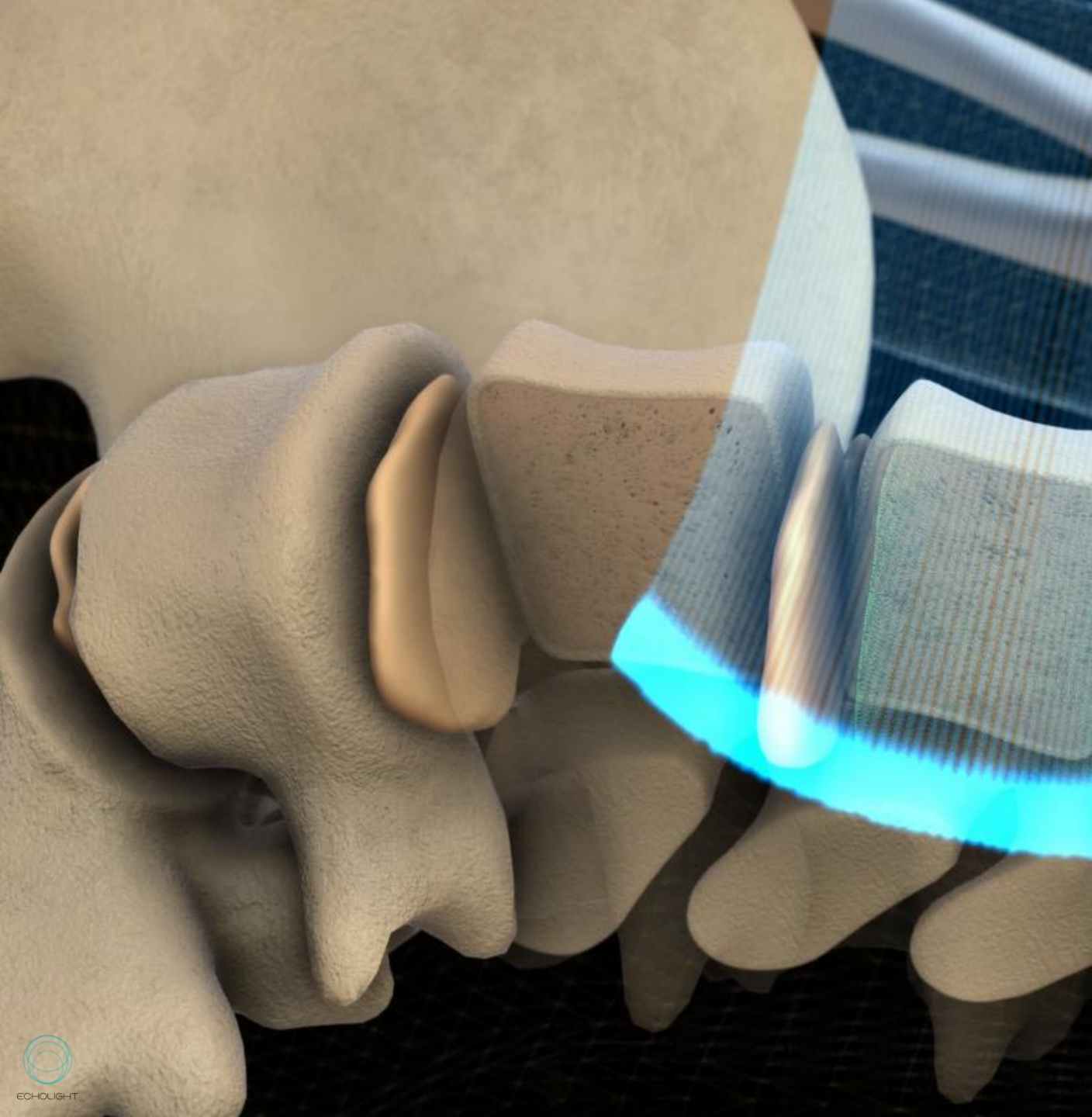
R.E.M.S. TECHNOLOGY

Radiofrequency Echographic Multi Spectrometry

EchoS is based on R.E.M.S. technology:

the proprietary radiation-free method
for bone density and quality assessment
at the lumbar vertebrae and the femoral neck.

[Watch the video](#)



MORE THAN AN ULTRASOUND

Revolutionary approach for bone micro-architecture characterization exploiting the “raw” unfiltered signals acquired during an echographic scan, overcoming all the main DXA and QUS limitations.



Radiation
Free



Axial
Sites



Bone Micro
Architecture



Bone Density
Bone Quality



Artifacts
Removal



Automatic
ROIs

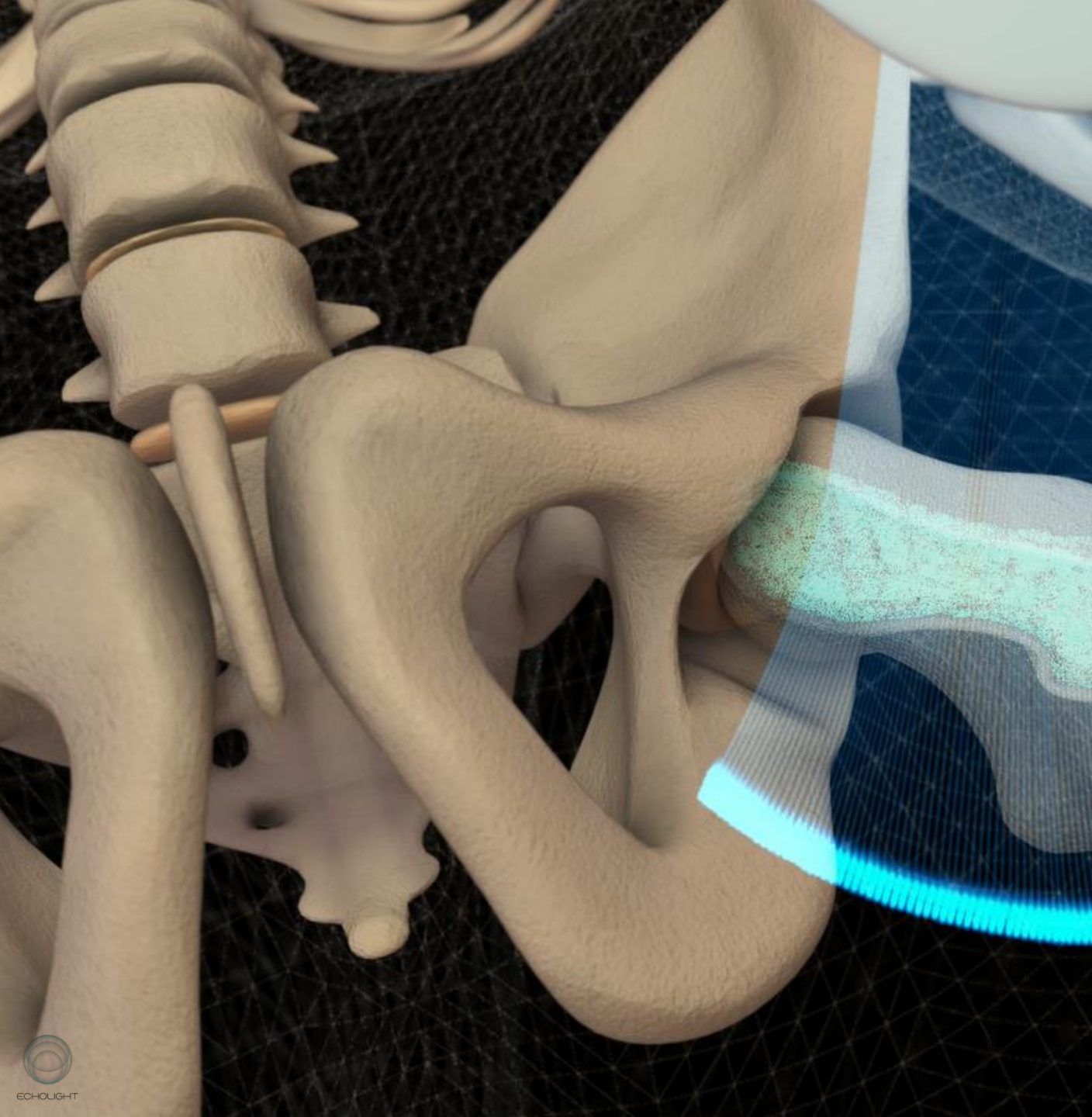


High
Performance



FDA
Cleared





ACCURATE. PRECISE. RELIABLE.

Clinical validation involving more than 10.000 subjects enrolled through international multi-center studies carried out by the most important centers for bone health diseases in Europe.

Reference Sites



Vertebrae 

PRECISION AND REPEATABILITY

 Femur

REMS

PARAMETER

REMS

0.009 g/cm²

SMALLEST DETECTABLE
DIFFERENCE (SDD)

0.006 g/cm²

0.38 %

INTRA-OPERATOR
REPEATABILITY (RMS-CV)

0.32 %

0.54 %

INTER-OPERATOR
REPEATABILITY (RMS-CV)

0.48 %

1.05 %

LEAST SIGNIFICANT
CHANGE (LSC,%)

0.88 %

>90 %

DIAGNOSTIC AGREEMENT
WITH DXA

>90 %



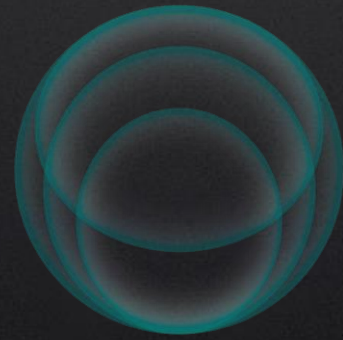
Echolight S.p.A.

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National Research
Council of Italy



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