A Health Technology Assessment of a breakthrough technology in the early diagnosis of Osteoporosis and other bone related diseases.

Fact Sheet

Project Information

**NonInvasive Cortical Bone Microstructure Analysis**

Grant agreement ID: 190115994

**DOIDoi**

10.3030/190115994

**Funded under**
The European Innovation Council (EIC)

**Total cost**
€ 3 730 018,75

**EU contribution**
€ 2 500 000,00

**Coordinated by**
POROUS GMBH
Germany

**Start date**
1 February 2023

**End date**
30 April 2025

Project description

**Diagnosing osteoporosis early with novel ultrasound technology**

Osteoporosis is a significant healthcare burden, and current diagnostic methods fail to detect a large proportion of people at risk of fractures. In this context, the EIC-funded NonInvasive Cortical Bone Microstructure Analysis project proposes a solution, which uses quantitative ultrasound technology to measure cortical bone quality down to the microscopic pore level. This approach provides a multifactorial analysis of fracture risk that overcomes the limitations of the bone mineral density test, the current gold standard for osteoporosis diagnosis. Moreover, the use of mobile ultrasound systems allows for the solution to be deployed anywhere. This
paves the way for early diagnosis of osteoporosis and for preventive measures through screening, ultimately reducing healthcare costs associated with hospitalisation due to osteoporotic fractures.

**Fields of science**

- medical and health sciences ➔ clinical medicine
- engineering and technology ➔ medical engineering ➔ medical laboratory technology ➔ diagnostic technologies
- natural sciences ➔ physical sciences ➔ acoustics ➔ ultrasound

**Keywords**

- Cortical bone
- Quantitative analysis
- Osteoporosis
- Quantitative Ultrasound
- Software
- Patented
- Breakthrough

**Programme(s)**

- HORIZON.3.1 - The European Innovation Council (EIC)

**Topic(s)**

- HORIZON-EIC-2022-ACCELERATOROPEN-01 - EIC Accelerator Open

**Call for proposal**

- HORIZON-EIC-2022-ACCELERATOR-01

See other projects for this call

**Funding Scheme**

- EIC-ACC - EIC-ACC

**Coordinator**

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POROUS GMBH

Net EU contribution
€ 2 500 000,00

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Region
Brandenburg > Brandenburg > Potsdam

Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links
Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network

Other funding
€ 1 230 018,75

EC signature date 13 January 2023
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Permalink: https://cordis.europa.eu/project/id/190115994

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