BONEBANK: A GERMAN-DANISH BIOBANK FOR STEM CELLS IN BONE HEALING

ScanBalt Forum, Tallin, October 2017
PROJECT IN A NUTSHELL

Start: 1\textsuperscript{st} September 2015
End: 29\textsuperscript{th} February 2019
Duration: 36 months

Total project budget: 2.377.265 EUR,
1.338.876 EUR of which are Interreg funding
PROJECT STRUCTURE

Project Partners
University Medical Centre Schleswig-Holstein, Campus Lübeck (Lead Partner)
Odense University Hospital
Stryker Trauma
Soventec
Life Science Nord

Network partners
Syddansk Sundhedsinnovation
WelfareTech

Project Management
DSN - Connecting Knowledge
• Research on stem cells is driving regenerative medicine
• Availability of high-quality bone marrow stem cells for patients and research is limited today
• Innovative approach to harvest bone marrow stem cells during routine operations for fracture treatment
• Facilitating access to bone marrow stem cells and driving research and innovation in Germany-Denmark

Harvesting of bone marrow stem cells during routine operations in the university hospitals Odense and Lübeck
Cross-border biobank for bone marrow stem cells located in Odense and Lübeck
Organisational and exploitation model for the Danish-German biobank providing access to bone marrow stem cells for donators, patients, public research and companies
ACHIEVEMENTS SO FAR

Harvesting of 53 samples, both in Denmark and Germany
Most patients (34) are over 60 years old
Isolation of stem cells possible
Characterization profiles of stem cells vary from individual to individual

Donors/Patients

Germany

Denmark

19 women
17 women

7 men
10 men

Age

< 60 years
> 60 years

27
7

9
10

women
men
Mesenchymal stem cells isolated from human bone material can be used for...

- Autologous therapy
- Allogenic therapy
- Stem cells for research (public or industrial)

**POSSIBLE APPLICATION FIELDS**

Isolated cells currently do not meet requirements for therapy

**Business model?**

- Cells or cell extracts for research
- Financial basis for therapeutic products in the future
- Therapeutic product
CHALLENGES IN CROSS BORDER ECONOMY

- Lack of common structures for building legal entities
- Cultural differences
- Differences in the regulatory environment
- Language
- Lack of cooperation from government agencies
- Lack of common data protection (despite EU GDPR)
THANK YOU

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