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ErgoDesign Improving digital skills for Ergonomics and Bioengineering Innovations for inclusive Health Care

Starting date
01.09.2022

Duration:
36 months

Contact us:
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Project website:
www.ergodesigner.eu

NEWSLETTER 02/2022

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Newsletter 02/2022

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About Project

Within the second quarter of 2022, the most important achievement was the development of the platform Toolkit. It was tested by a selected group of experts. It was preceded by our analyses of the available 3D design software. In addition, we managed to meet online several times to jointly determine the further steps necessary to achieve the objectives of PR1 and PR2.

Newsletter
02/2022

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Project Context

Popularization of surgery with the use of 3D implants

The use of implants can be also a therapy for people after oncological treatment, when the cancer attacks the bones and they need to be removed. In large cavities, a typical implant cannot be used - it must be made specifically for a specific patient. Precise specification is necessary before the procedure, using, among others, computed tomography and magnetic resonance imaging. Only then the implants are printed[1].

[1] https://www.prawo.pl/zdrowie/poznan-najwieksza-w-polsce-udana-operacja-ortopedyczna-z-uzyciem-druku-3d,244844.html

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At present, in Poland, endoprostheses made in 3D technology are implanted only in a small group of patients. The problem is particularly important because each of us is different and tailor-made prostheses are the future! For comparison, specialists from the City Hospital. J. Strusia in Poznań install approx. 500 mass-produced hip and knee endoprostheses annually. 3D printing gives a chance to treat those patients who were previously unqualified for it. In recent years, only 3 such procedures have been performed in Poland[2].

The ErgoDesign project aims to support the development of specialists in this field, to make this therapy more accessible by educating more specialists in the field of bioengineering and biomechanics. Not only in Poland, but all over Europe!

[2] https://www.poznan.pl/mim/info/news/wyjatkowa-operacja-w-miejskim-szpitalu,200562.html

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Are you interested in:

- 3d printing in medicine
- a modern, inclusive approach to health
- design for people with disabilities
- ergonomics of work

If you said 

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Our design activities results could be appealing to you!

See you soon!