

Application of big data analysis and data mining for medical risk evaluation

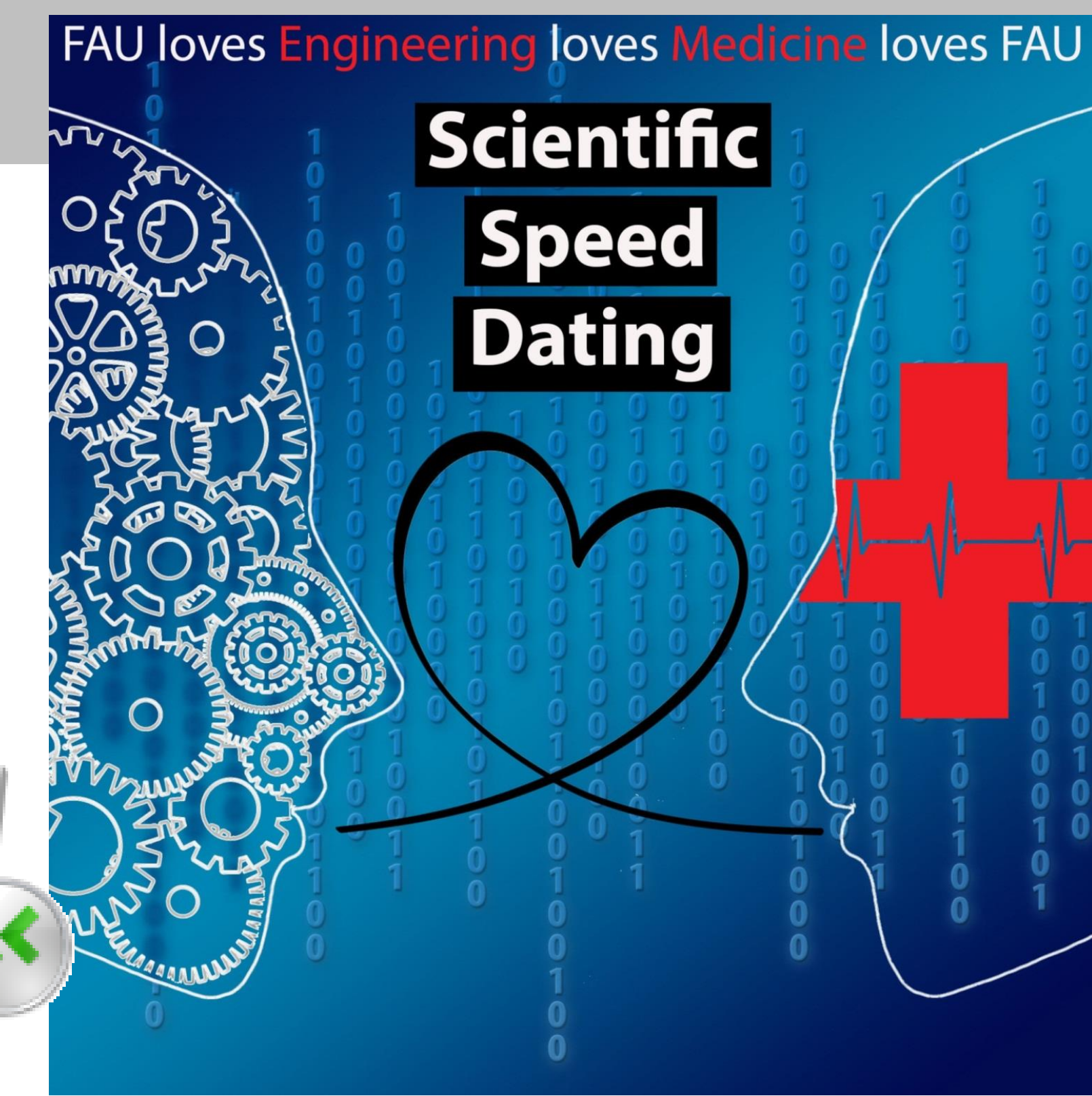
Dr. med. Stefan Wagner

Midterm meeting - current project status



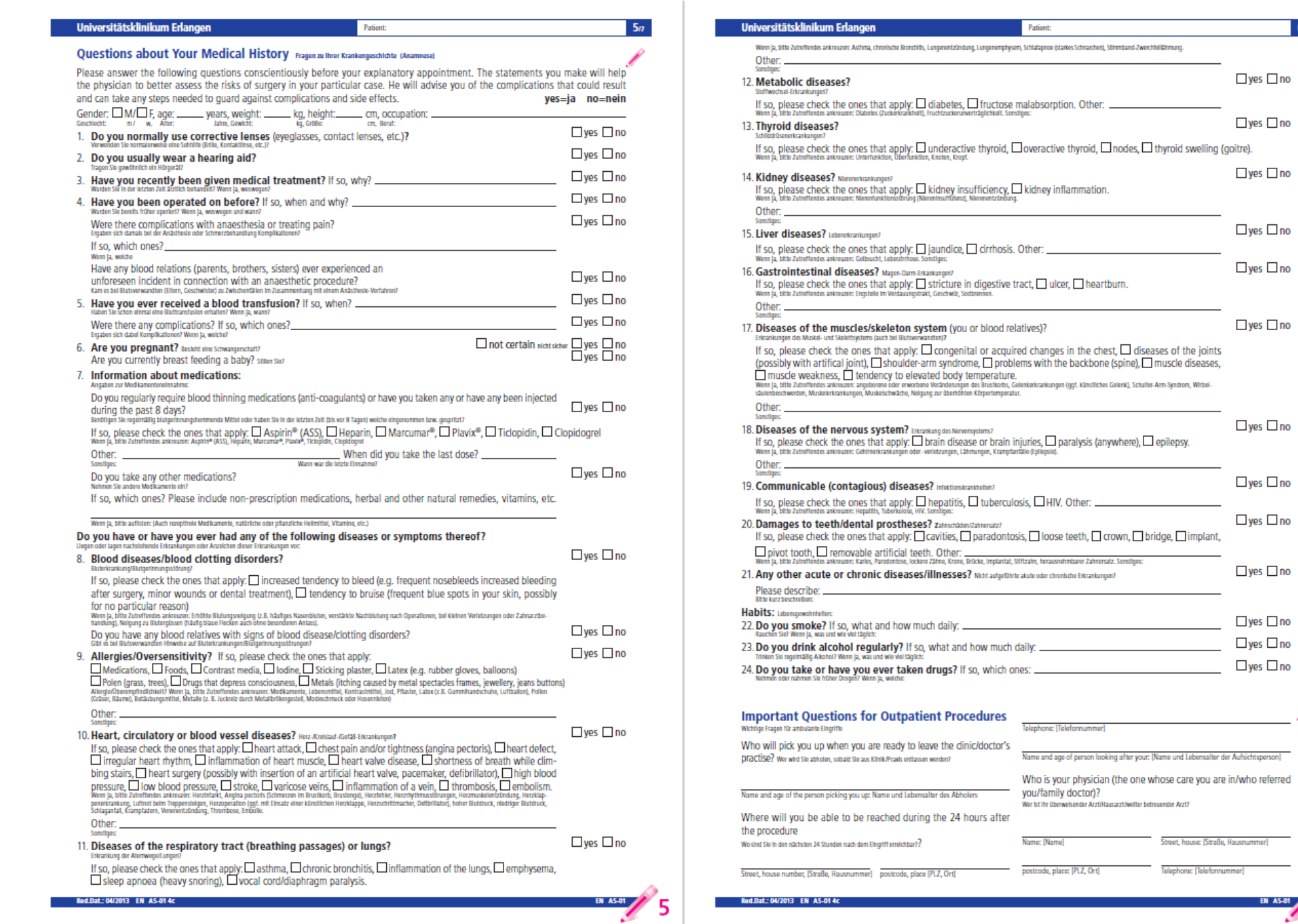
Project management

- ✓ Deployment and administration of **internal StudOn- and WhatsApp-groups**
- ✓ Planning, installation, setup and administration of **virtualized shared development environment** based on Windows Server 2012 R2 and **Remote Desktop Services**
- ✓ **Training** of new **team members**
- ✓ **Migration** from PHP 5 to **PHP 7** → **Reduction** of execution time up to **30 percent**
- ✓ **Upgrade** of **Apache** and **MySQL**



Project goals

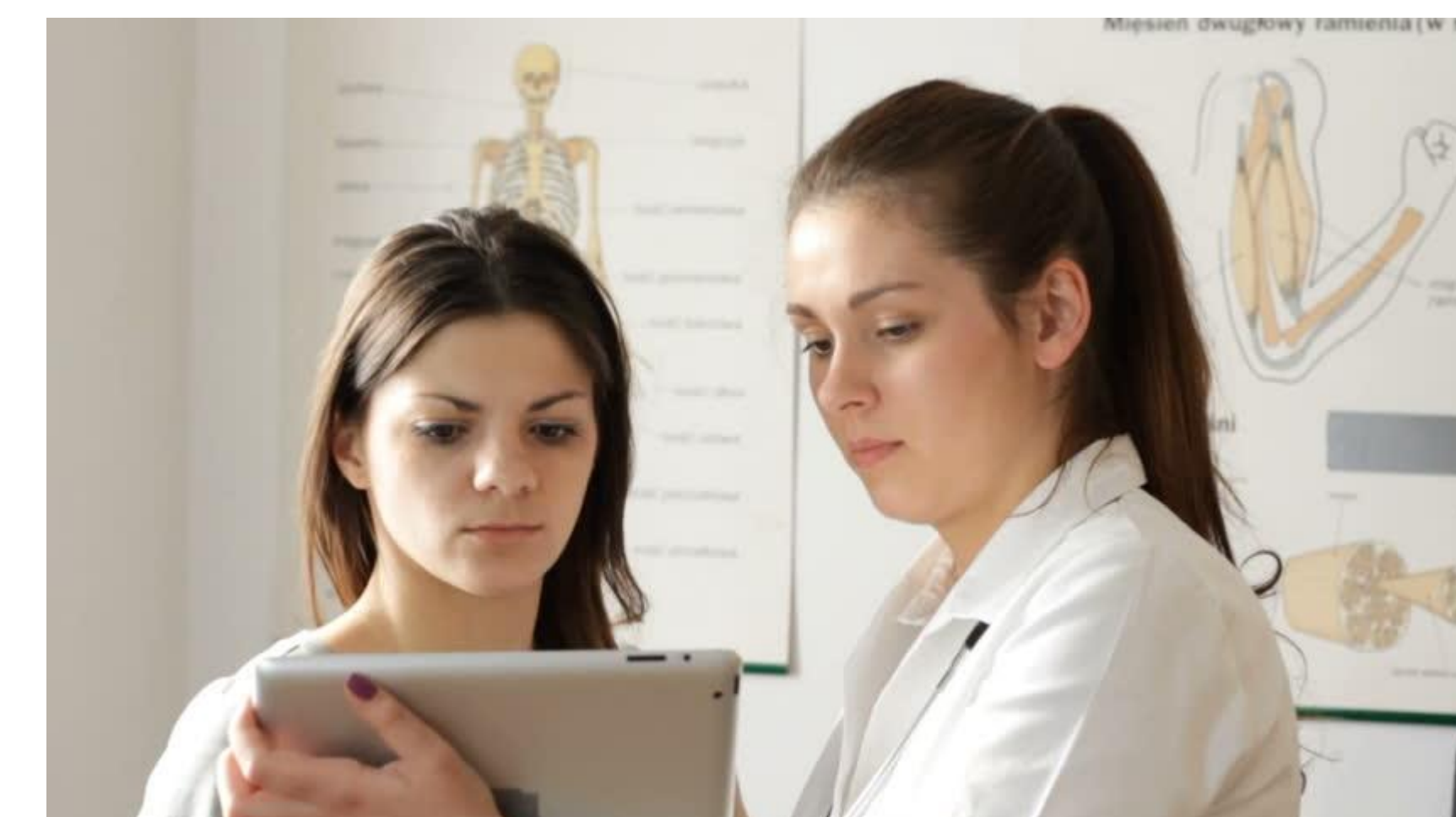
- Expand **medical data analysis** to optimize questionnaire prefilling (**big data analysis, data mining**)
- **Storing** of updated **datasets in database** after corrections and modifications by patient and doctor
- Basic **implementation of first intelligent warnings/recommendations**, e.g. PONV risk and development of chronic pain
- **Optimization of performance** of existing **prototype application** and **“bug fixing”**
- **Improvement of design and user interface**



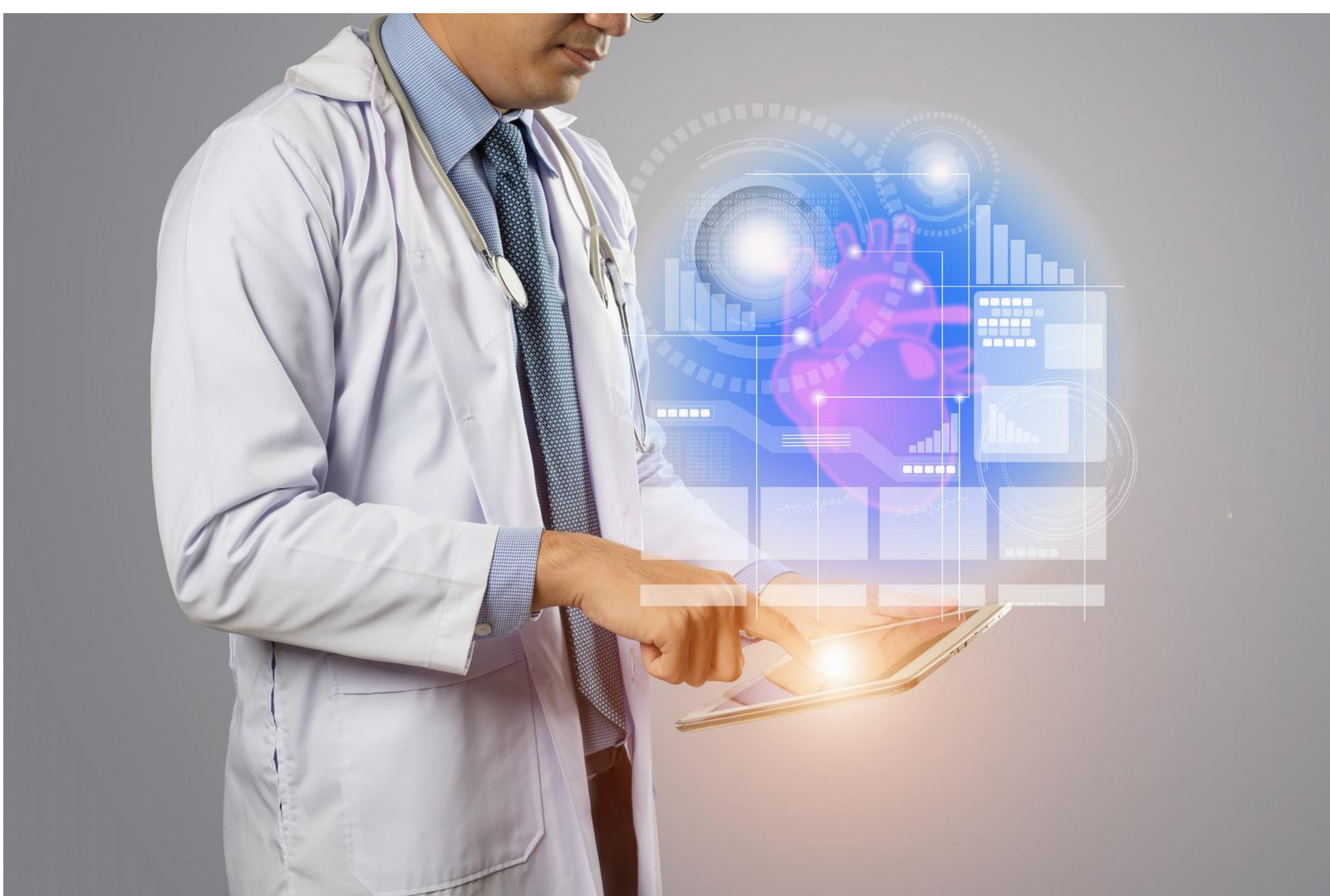
Acknowledgements

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- Dipl.-Inf. Martin Gropp**



Quelle: <https://cdn.shutterstock.com/shutterstock/videos/3880208/thumb/1.jpg> (30.05.2017)



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