CLINICAL DECISION SUPPORT - A CLINICIANS' VIEW -

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Workshop: Clinical decision support in practice – HL7 standards, interoperability, and selected applications eHealth Summit 2016 24.5.2016 Schönbrunn, Vienna, Austria





Contents

- Why clinical decision support?
- Example: Efforts and Strategy to establish Precision Medicine in Ophthalmology















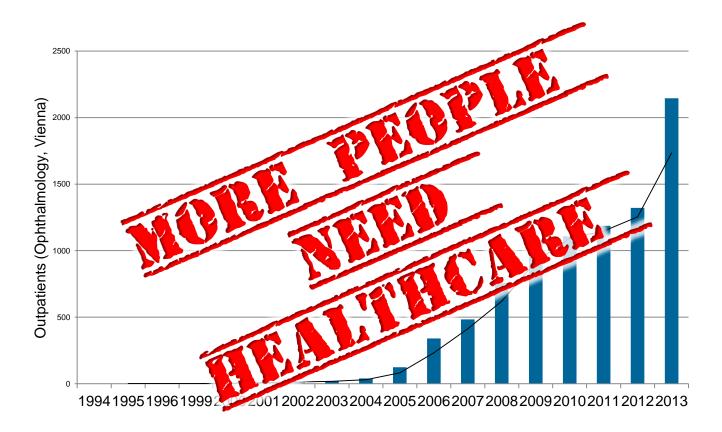
The prevalence of diabetes



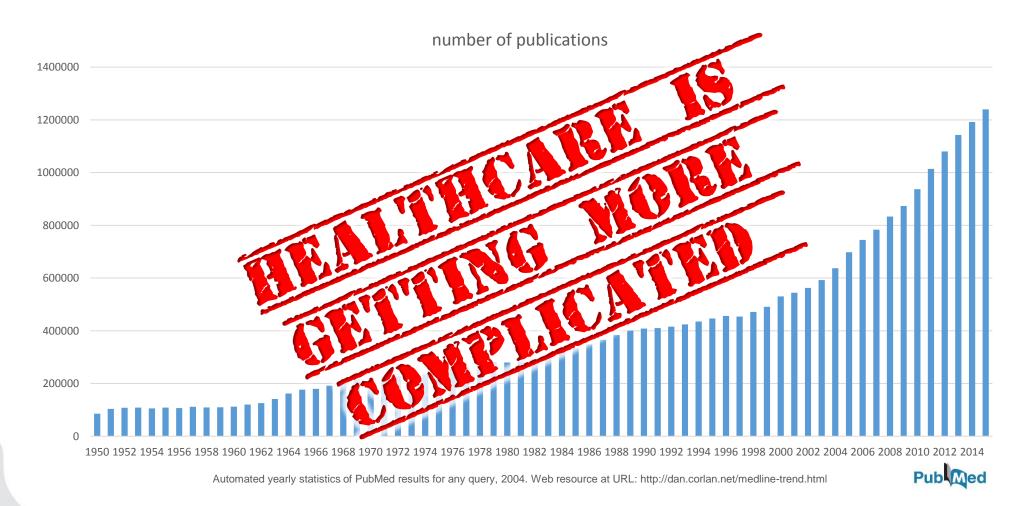
One in 10 adults will have diabetes





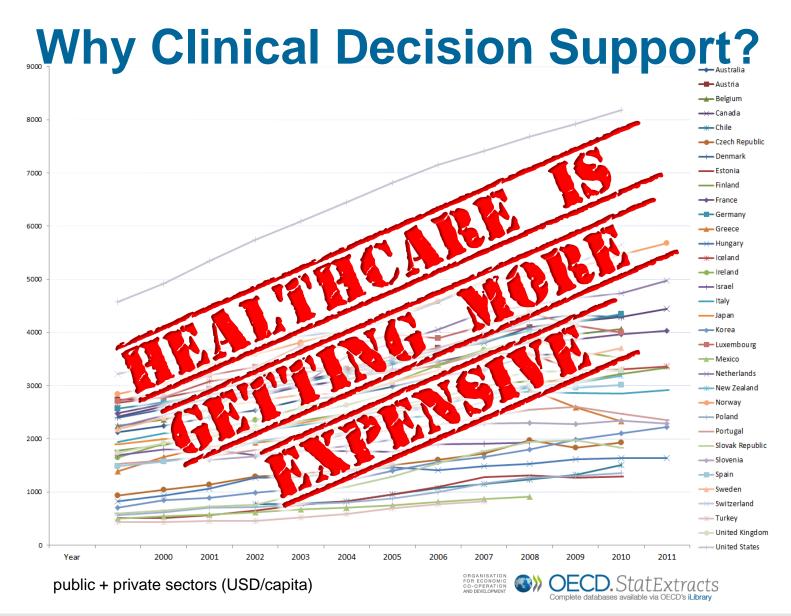
















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Healthcare Challenges

- Quantitative
 - Age-related
 - Lifestyle-related
 - Medicine itself-related
- Qualitative
 - Medicine is on the doorstep to Precision Medicine:
 - Better, but largely more expensive and complicated diagnosis
 - Better, but largely more expensive and costly (time and money) treatment





eHealth as a solution

- Guideline-based management and treatment
- Available Knowledge Management Systems
 - Assures quality
 - Optimizes resources
- Population-based studies (EHR)

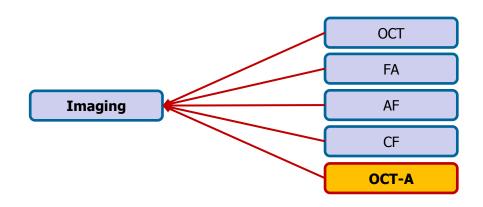




CDS and precision medicine - in Ophthalmology -



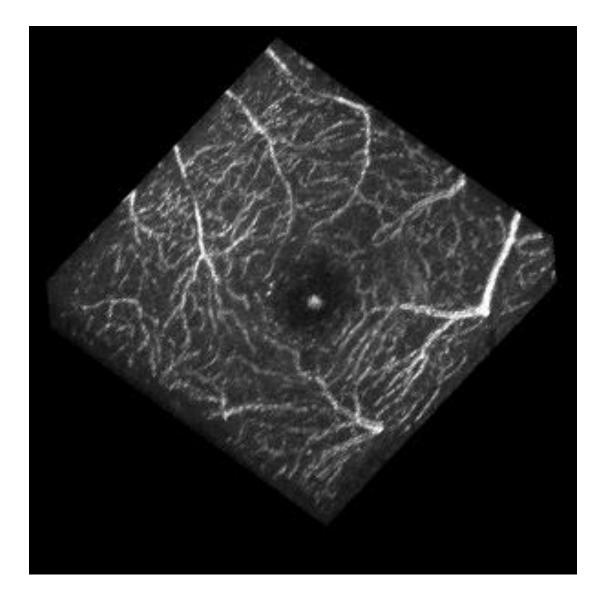












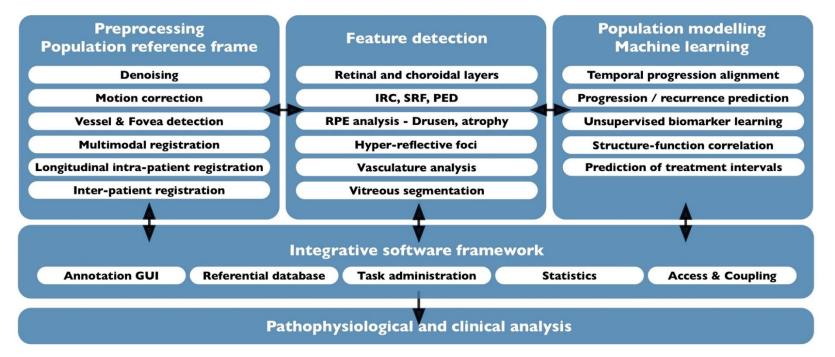






Moving towards Precision Medicine



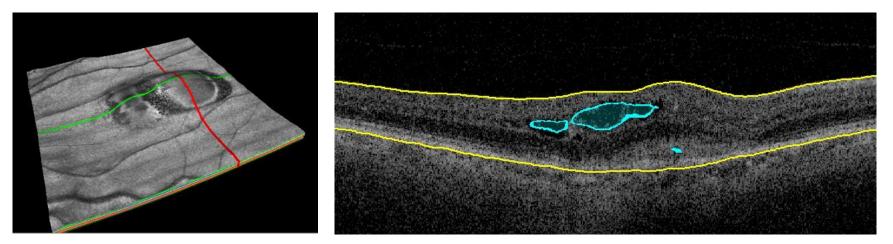




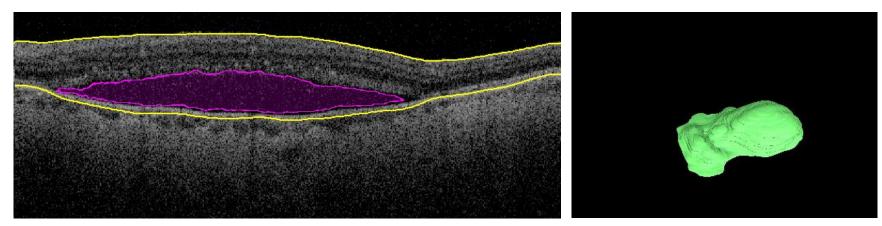




Example: Macular Edema



Intraretinal fluid



Subretinal fluid

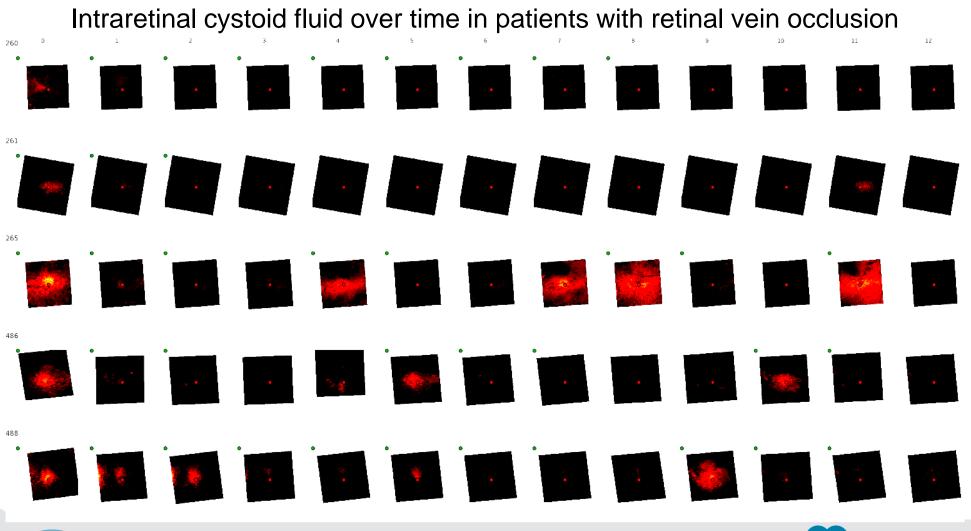








Morphological Patterns

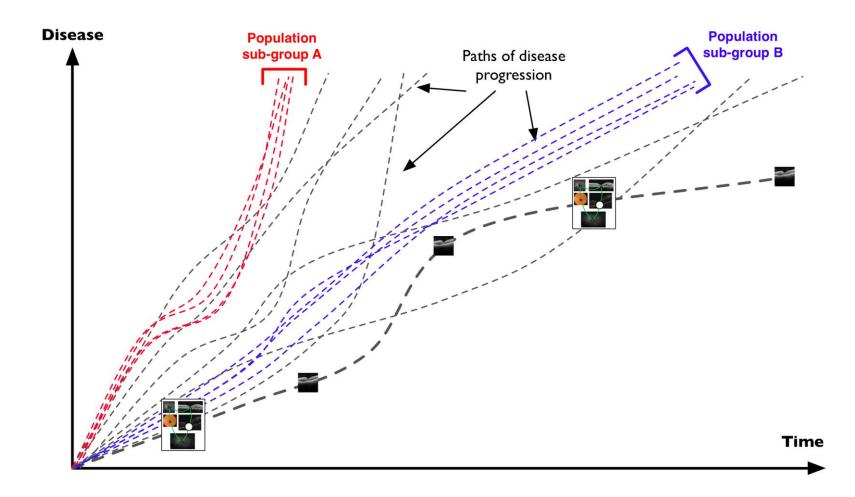








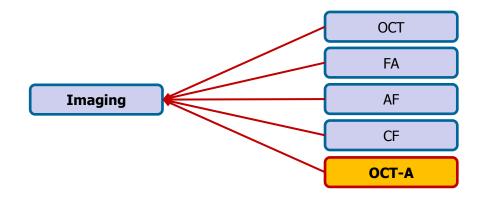
Stratified Medicine







An integrated view on clinical Ophthalmology

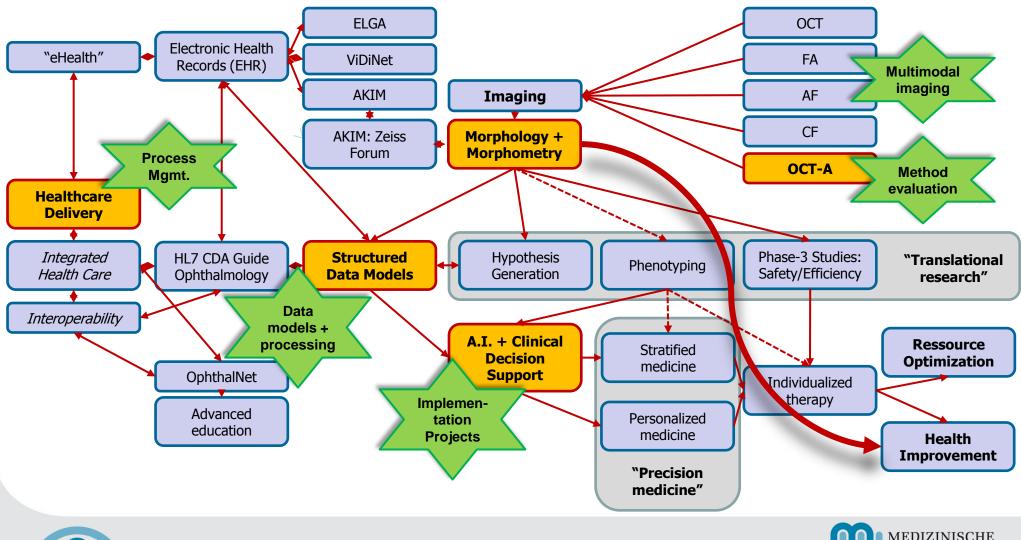








An integrated view on clinical Ophthalmology



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MEDIZINISCHE UNIVERSITAT WIEN

Conclusion

Clinical Decision Support Systems and Knowledge Management Systems will soon be essential to enable physicians to provide up-to-date care





Conclusion

Translational research result and implementation cycles are getting shorter:

Standards need to be applied and test platforms must be implemented to improve transition.





Thank you



"Mr. Osborne, may I be excused? My brain is full."



