Software advances changing the global landscape of ultrasound

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Disclaimers

• No financial conflicts of interest to report
• This talk discusses some commercially available products without intent to endorse.
• Any opinions expressed here are my own.
Software Advances Changing the Application of Ultrasound Worldwide

- Available
- Affordable
- Appropriate
- Adequate quality

Access to diagnostic imaging

Access to diagnostic imaging

Ultrasound
- Fills a void
- Cheaper
- Portable
- Point-of-care
- Accurate

US and x-ray can fill 90% of global imaging requirements

Manu, et al. Globalization and Health. 2010
The Pros

- Not enough radiologists, technologists, sonologists to meet demand
- Increases efficiency of existing resources and infrastructure
- Decreases the price of medical expertise
The Downside

- Our livelihood
- Young technology
- Quality limitations
- Aid in diagnosis, but then what
- Will health care systems take advantage?


3d for all
Open source solutions

- Image viewing and processing
  - OsiriX
  - XNAT
  - dcm4chee

- EHRs with DICOM
  - Open EHR
  - Open MRS
  - Bahmi

mHealth
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Technology literacy

- Use devices
- Maintain devices
- Troubleshoot devices
- Overall literacy


However...

- Infrastructure
- Training
- In-country maintenance
- Data Protection, Privacy and Security
- Trust

https://digitalprinciples.org/


Smarter scanning

Movement of data

Availability of interpretation
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Questions?