
VEITH Symposium
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Innovations in Healthcare Drivers

1. Surgeons/Physicians
2. Insurance Companies – BC/BS, United Healthcare, etc
3. Healthcare Systems – UPMC, CCF, Mayo, Intermountain, Ascension, Kaiser, etc
4. Pharma/Retailers - CVS, RiteAid, Walmart, Amazon

Innovations in Healthcare

5. Industry:
   - Intuitive Surgical (da Vinci Robotics)
   - Ethicon – The Verv Robot with Google
   - Medronics
   - J & J
   - US Surgical
   - WL Gore
   - UnNamed ready to innovate and develop and be acquired

Drivers of Innovation

1. Word to Text – could be the end of EPIC/Cerner.
2. Face (Image) Recognition Software.
3. Artificial Intelligence – Machine Learning
   - Moore’s Law – AI doubles every 18 – 24 months
Drivers of Innovation

4. **Personal Assistants** – Siri, Alexa, Cortana, etc
   - Personal (Implantable) Health Monitoring
   - Drive Population Health (not Physicians)

5. **Medical Innovation Centers** – Partnerships with Medical Centers and Companies

Innovations in Healthcare

- A NEW COMPANY
  - Amazon
  - Berkshire Hathaway
  - JP Morgan

**DISRUPTION**

**Different Innovators**

- Alphabet
- Amazon
- Apple
- Microsoft
- IBM Watson
- Facebook
- Twitter

**China**

- Alibaba
- Baidu
- Tencent

**Innovation in Healthcare WHY??**

1. To increase quality in healthcare for Americans and Society Worldwide!
2. $$$
3. USA Gross Domestic Product - 20%
4. Largest Employer in America

**Innovation in Healthcare WHY??**

- CULTURE
- STRATEGY
Drivers of Innovation

• AI / Robotic Delivery of Healthcare
  1. Radiology
  2. Pathology
  3. Primary Care – Adult and Pediatrics
  4. Infectious Disease
  5. Psychiatry – PTSD
  6. Emergency Medicine
  7. Anesthesia
  8. OB/GYN
  9. Surgery / Orthopedics

The Future of Surgical Practice

PHYSICIANS RELATIONSHIPS

• Radiology Majority Computer
• Pathology Interpretation
• Computer Interpretation with Surgeon’s Expertise
  ??Payment??

CONCLUSIONS

• AI, Machine Learning and Robotics is Coming!!
• Physicians / Surgeons and Hospitals will always be needed. BUT DIFFERENT!!!!!!
• Embrace Change – get involved and do not fight it!!