



2084

- EDITORIAL, *C. LOVIS*
- HOSPITAL OF THE FUTURE, *M. KEEN*
- FUTURE MEDICINE, TODAY'S HEALTHCARE, *S. HEINEMANN*
- LET'S CHANGE BEFORE WE HAVE TO, *M. CABRER*
- SMART CONTRACTS IN HEALTHCARE, *S. JANIN*
- PATIENT HEALTHCARE PORTALS, *M. PETERSEN*
- LABS OF THE FUTURE
- FUTURE OF AUGMENTED REALITY IN HEALTHCARE, *D. MADISON*
- CHALLENGES, OPPORTUNITIES OF TOMORROW'S RADIOLOGIST, *D. HILMI*
- UTILITY OF ARTIFICIAL INTELLIGENCE IN RADIOLOGY, *R. VIDAL-PEREZ*

TOP HEALTHCARE TRENDS
2018

THE FUTURE OF MEDICINE
BOOK, *P. BRONSON ET AL*

VISIONARY LEADERSHIP,
D. CORTESE ET AL

WOMEN IN RADIOLOGY,
S. BAKER

ROBOTICS: A CHANGE

MANAGEMENT CASE STUDY,
L. ROBSON

AWARD-WINNING 'DOCTORS'
ASSISTANTS', *S. MCNALLY
ET AL*

3D PRINTING AT THE JACOBS
INSTITUTE: AN UPDATE,
P. MARCUCCI

DEEP INTEROPERABILITY IN
HEALTHCARE *C. BUCKLEY,*

VIRTUAL REALITY CLINIC: A
CASE STUDY, *B. WIEDERHOLD*

MACHINE LEARNING FOR
BRAIN TUMOUR DETECTION,
D. CORONADO

ARE RANKINGS THE BEST
WAY TO DETERMINE
HEALTHCARE SYSTEMS?
A. LAYLAND ET AL



Top healthcare trends 2018

What do healthcare leaders see ahead?

HealthManagement.org spoke to healthcare leaders on the future of the sector. The consensus is Artificial Intelligence (AI), leadership training, population health, cross-collaboration and development of value-based healthcare will lead progress in healthcare.

“There are a number of trends I see becoming more important for imaging in 2018. Future radiologists will become imaging information experts and there will be an increase in opportunities and challenges of machine learning in our profession. It will also be interesting to watch the radiology workforce in the era of artificial intelligence and image-guided therapy. The role of quantitative imaging in treatment planning and the role of imaging in value-based healthcare systems are also worth watching in addition to radiology’s impact on population health.”



Lluís Donoso Bach

Editor-in-Chief Imaging, HealthManagement.org



Christian Lovis

Editor-in-Chief IT,
HealthManagement.org

“For 2018 I would say that we will see an explosion of AI in the field of image recognition, embedded in current tools as decision support. New business models, such as Zebra which uses data from millions of scans to catch misdiagnosed diseases and early-stage cancers will also become more prominent. I also see consolidation of large groups as new players, such as Telecom/Mobile/Fitness in Germany or Food Supply/Insurance/Fitness/Mobile Doctors in Switzerland. We can see this with Amazon, Apple and Google too of course but these other examples will put increasing pressure on traditional players. Precision medicine will become a huge driver for data-driven science in life sciences

and medicine. Data will increasingly become the new currency in health, and citizen, patients and care providers will further challenge open data movements that will slowly fail because of the profit-driven models behind data-driven technologies (such as AI). I am certain that embedded systems will increase and robotics for surgery will slow down despite increasing precision in telemanipulation because of failing to show real benefit in outcomes/costs in many cases. Initial Coin Offerings (ICO) and blockchains will have a remarkable peak these few next years, but I fear that it will take way longer to really provide usage in health. Finally, of course, patient/citizen communities will grow.”



Michael E. Porter
Professor, Harvard
Business School

“Value-based healthcare is penetrating rapidly across many countries, and in peer-reviewed medical literature. National health systems are embracing value-based healthcare as their strategic framework. More providers are moving to integrated practice units to care for conditions and at-risk populations such as poor-elderly, frail-elderly, and opiate-addicted patients. The International Consortium for Health Outcomes Measurement (ICHOM) and the Organisation for Economic Cooperation and Development (OECD) are collaborating to expand adoption of standardised outcome measurement for selected conditions across the developed world. Corporations and regional governments, such as Washington State in the U.S., are increasing their use of value-based bundled payments to contract directly with provider “centres of excellence” for comprehensive care of patients with acute and chronic conditions.”



Robert S. Kaplan
Senior Fellow, Professor,
Harvard Business School

“There is a global consensus about the need for collaboration between healthcare and social services. If we are talking about integrated care this development is absolutely imperative. But if digitalisation in healthcare has evolved slowly, in the social services this technology is just at the beginning. The hope is necessity will push advances hard. It is not going to be easy, but we can see some interesting and hopeful signs: preventive modelling on vulnerability, fragility and skilled nursing facilities readmissions are some examples amongst others.”



Josep Picas
President, European
Association of Healthcare IT
Managers



Sherry Polhill
Associate VP, Hospital
Labs and Respiratory Care,
UAB Medicine

“There will be more emphasis on developing leadership in healthcare. I have seen this in my day-to-day work. In 2015, I started a Leadership School for employees interested in getting into management. There was a need to develop leaders so I took on the responsibility to teach talented people in the lab environment. The curriculum provides introductory sessions on lab finance and quality and information systems followed by leadership skills development covering topics such as communication, emotional intelligence and how to manage stress for example. Another exciting aspect is for current supervisors and above. It was evident that current leaders need to remain flexible and effectively manage all sorts of complex changes for the future. The vision includes preventing burnout, sharpening leadership skills, and helping people develop their potential. “