

The Power of Healthcare Data

The Body as a Source of Big Data

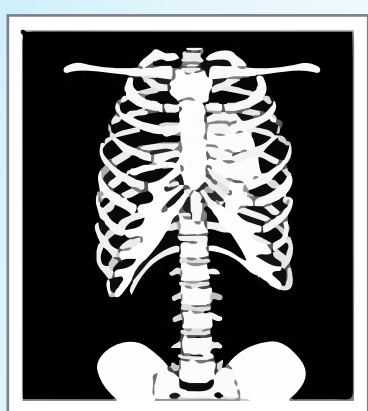
Today data storage is essential for healthcare providers to see a patient's complete story of care, make the most informed decisions and enhance treatment and outcomes.



Access to electronic patient data beyond the desktop



3D MRI 150MB



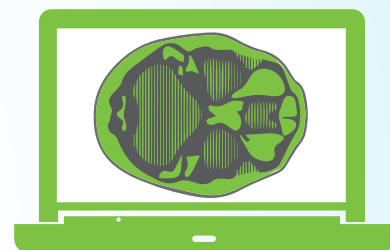
X-RAY 30MB



0.5MB is generated



MAMMOGRAMS 120MB



3D CT SCAN 1GB



There are currently 425K telehealth providers in the U.S.²

It is estimated that by 2015, the average hospital will generate

665TB of data¹

PACS (picture archiving and communication systems) applications were cited as the number-one reason for healthcare data growth, at 63 percent,

followed by files held in the electronic health record (54 percent) and scanned documents such as proof of insurance (51 percent)³

The Medicare and Medicaid Electronic Health Record Incentive Program now includes a measure for recording imaging results via certified EHR technology.⁵



Medical image archives are increasing by

20-40% annually⁷



Common uses of health care analytics: More accurate diagnoses, streamlining the cost of care, revenue reimbursement, outcomes and business analysis to manage populations⁴



36.6M

Total admissions in U.S. registered hospitals, according to the American Hospital Association⁶

Today, **80%** of data is unstructured, such as images, video and email.⁸

Sources:

- <http://www.netapp.com/us/media/wp-7189.pdf>
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- 2011 International Healthcare Data Management Survey, Survey allowed respondents to choose more than one.
- Markets and Markets Healthcare Data Analytics Market Research Report <http://www.wcax.com/story/20121236/medical-analytics-market-237-cagr-for-healthcare-data-analytics-market-to-2017>
- http://www.cms.gov/regulations-and-guidance/legislation/ehrincentiveprograms/stage_2.html
- American Hospital Association Statistics 2013 edition, published annually by Health Forum, an affiliate of the American Hospital Association, according to their 2011 survey (the most recently published)
- http://datascienceresearch.com/assets/blog/The_Age_of_Data-Driven_Medicine.pdf (page 9)
- <http://www.zdnet.com/news/unstructured-data-challenge-or-asset/6356681>