By the Numbers: The New Digital Healthcare Ecosystem

Section Editor: The ISPOR Student Network

Digital Healthcare: A Timeline

1993: Japanese electronics manufacturer, Panasonic®, releases a compact and automatic wrist cuff blood pressure monitor.1
1996: Health Insurance Portability and Accountability Act passed by United States Congress that sets standards for confidentiality around personal health information.2
1998: The Data Protection Act sets standards for maintaining confidentiality of patient records in the United Kingdom.3
2000: The daVinci® robotic surgical system that incorporates weak artificial intelligence is approved by the US Food and Drug Administration (FDA).4
2004: PatientsLikeMe.com is founded to help connect patients with amyotrophic lateral sclerosis. Today, it consists of 650,000+ members across 2900 conditions representing greater than 43 million data points.5
2007: Fitbit® founded with the vision of creating a wearable product to improve fitness and health.6
2009: Google Flu Trends reports a potential swine flu outbreak in Mexico several weeks before clinical epidemiology system reports the same.7
2014: A survey by Medscape reveals nearly 83% of physicians in the United States utilize electronic health records.8
2016: A study by PricewaterhouseCoopers reveals that nearly 50% of all US consumers own a wearable device.9
2017: The FDA releases its Digital Health Innovation Action Plan to develop approaches for the regulation of digital health products.10

Economic Evaluations of mHealth Solutions by Country

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<tr>
<th>Country</th>
<th>United States</th>
<th>United Kingdom</th>
<th>African Countries (Malawi, Kenya, Uganda, Cameroon)</th>
<th>Other European countries (Sweden, Spain, Switzerland)</th>
<th>Other Countries (Canada, New Zealand, Korea, Mexico)</th>
<th>China</th>
<th>Australia</th>
<th>Thailand</th>
<th>Malaysia</th>
<th>Multi-country study (South Africa, Mexico, Guatemala)</th>
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<td>% mHealth Economic Evaluations</td>
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The Use of Health Information Technology by Primary Care Doctors in 10 Countries, 2015

AUSTRALIA    CANADA    GERMANY    THE NETHERLANDS    NEW ZEALAND    NORWAY    SWEDEN    SWITZERLAND    UNITED KINGDOM    UNITED STATES

92   73   84   98   100   99   98   84   98   42

Numbers represent % of primary care doctors surveyed in each country.

KEY: • Use an electronic medical record • Routinely receive computerized reminders for guideline-based intervention or screening tests • Can electronically exchange patient clinical summaries with doctors outside practice

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References available online