Digital Health Transformation
Digital Health Transformation Is….

Enabling innovative technologies to augment traditional medicine and provide a positive impact to patient care

**WHAT IS DIGITAL HEALTH TRANSFORMATION**

- **Telemedicine to increase access to medicine**
- **Wearable devices that assist continuous health monitoring**
- **Artificial Intelligence enabled medical devices**
- **Smartphone apps that help track trends in patient drug adherence**
- **Robotic Process Automation (RPA) that helps to improve healthcare efficiency by automating backroom functions**
- **Blockchain electronic health records that enables safer patient data exchange**
- **Digital documentation technologies that can transcribe doctors notes and seamlessly integrate them into EHR systems**
- **Electronic drug ordering and filling technologies that reduces unfilled Rx**
- **Real World Evidence enables effective personalized medicine**
- **Big data enables predictive analytics to better assess patients for potential diseases**

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Healthcare lags behind in digital ... but huge potential

Though healthcare lags behind in adopting digital technologies, several healthcare trends point to huge potential

- Increase in on demand healthcare. Patients want healthcare on their schedule
- Increase in adoption of mobile technologies in healthcare
- Increase in big data utilization in healthcare
- Increase in non-healthcare firms entering healthcare market, driving up innovation
The quantified self is alive and well

The genome generation is more informed and engaged in managing their own health

- The quantified self means people are active participants in managing their own health
- There is now broad adoption of bio-sensing wearable devices – the tech has become cheaper and ubiquitous and data quality has much improved
- Wearables supported by virtual assistants are enabling older people live more independently
- Most people will accept telemedicine as first contact with a physician
- People will feel secure enough to share their healthcare data willingly with providers
The culture in healthcare is transformed by digital

Smart healthcare is delivering more cost-effective, patient centered care

- RPA and AI will initiate and coordinate concurrent activities, including resolving nursing workflow pain points, allowing care givers more time to provide care
- AI has changed disease diagnosis through mining medical records, reading images and augmenting radiologists
- Secretarial robots listen and write up clinical notes automatically
- Clinical decision making is enabled by centralized digital command centers
The life sciences industry is industrialized

Advanced cognitive technologies have improved the productivity, speed and compliance of core processes

- Real world evidence is used to identify and enroll patients in clinical trials, and provides the control arm for large scale trials
- Leading pharm companies have automated up to 95% of regulatory filings, saving around 12 months in the launch cycle time
- AI is used to aggregate big data and create patient segmentation more effectively
- Companies have optimized their cold chain distribution using predictive analytics to manage “bull whip” effects in their supply chain
Data is the new healthcare currency

Artificial intelligence and real-world evidence are unlocking value in health data

- Healthcare systems are capitalizing on the value of data sources and data is monetized
- Providers have formed data partnerships to transform care based on precise real world insights
- Clinicians have improved the digital IQ and skills in analytics to work in the digital health future
- Online patient communities have grown exponentially, providing rich crowd sourced data
- Patients’ engagement with their data has led to better medication adherence and management of chronic diseases
New entrants are disrupting healthcare

The boundaries between stakeholders have become increasingly blurred

- Collaborations between healthcare providers and tech companies have created more agile, customer-focused organizations
- Logistics companies have entered the home delivery and home-care support markets
- Companies manufacturing “smart” home devices have worked with providers to develop new home care support tools for managing home care
- The “share economy” companies will find unmet needs in care support and utilize their community network technologies to support healthcare needs
Enabling Digital Transformation

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> Adoption of new technology
> Recruitment and retention of talent
> Regulation that is open to digital health innovations