Emerging Healthcare Trends & IT Advancements: Key Combination for Future Success

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Objectives
- To research IT advancements and improve my understanding of the healthcare industry.
- To analyze how IT advancements can aid the healthcare industry of 2017.

Methods
- Conduct research through a combination of scholarly & practitioner articles.
- Reference PC Health Research Institute for additional research.
- Use of observations at different appointments over the past year.
- Form predictions and analysis on how IT and the healthcare industry could complement each other.

Conclusions
- Healthcare providers need to adopt new technologies to assist them with industry trends; this would be best accomplished by using a combination of these technologies.
- Value-based care, value-based payment, and telemedicine are the main trends that should drive the future for adding new technologies.
- Challenges and risks are present when adding new technologies or systems; a healthcare provider must evaluate current immediate needs and make decisions based on those needs.

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References


Blockchain vs KSI Blockchain
Clinical measurements, observed symptoms

Clinical Data Collection

upload

Cloud based storage

Authorized access

Sharing with caregivers

Feedback, Test results, doctor’s opinion

Personal Health Record System
Smart Clothing Healthcare System
## Wearable 1.0 vs Wearable 2.0

<table>
<thead>
<tr>
<th>Product name</th>
<th>Category</th>
<th>Comfort index</th>
<th>Usability</th>
<th>Machine wash</th>
<th>Accuracy</th>
<th>Sustainability</th>
<th>Physiological index</th>
<th>Real-time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smart bracelet</td>
<td>Wearable 1.0</td>
<td>High</td>
<td>Very easy</td>
<td>No</td>
<td>Low</td>
<td>Yes</td>
<td>Simple</td>
<td>Yes</td>
</tr>
<tr>
<td>Smart watch</td>
<td>Wearable 1.0</td>
<td>High</td>
<td>Very easy</td>
<td>No</td>
<td>Low</td>
<td>Yes</td>
<td>Simple</td>
<td>Yes</td>
</tr>
<tr>
<td>ECG monitoring instrument</td>
<td>Wearable 1.0</td>
<td>Low</td>
<td>Hard</td>
<td>No</td>
<td>High</td>
<td>Yes</td>
<td>Simple</td>
<td>No</td>
</tr>
<tr>
<td>Heart rate monitor</td>
<td>Wearable 1.0</td>
<td>Middle</td>
<td>Easy</td>
<td>No</td>
<td>High</td>
<td>No</td>
<td>Simple</td>
<td>No</td>
</tr>
<tr>
<td>Fall detection device</td>
<td>Wearable 1.0</td>
<td>Middle</td>
<td>Easy</td>
<td>No</td>
<td>Low</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Smart clothing</td>
<td>Wearable 2.0</td>
<td>High</td>
<td>Very easy</td>
<td>Yes</td>
<td>High</td>
<td>Yes</td>
<td>Complex</td>
<td>Yes</td>
</tr>
</tbody>
</table>
Wanda Cardiovascular Disease System (Wanda-CVD)
Wide Body Area Network (WBAN)