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 trends 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 analyses 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 could be best accomplished by using a combination of these technologies.
- Value-based care, value-based payment and telemedicine are the main trends that should be the focus for adding new technologies.
- Challenges and risks are present when adding new technologies to systems. A healthcare provider must evaluate current immediate needs and make decisions based on these needs.

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References


Blockchain vs KSI Blockchain
Mobile Personal Health Record System
Clinical measurements, observed symptoms → Clinical Data Collection

Monitoring and Control → 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>
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<td>Yes</td>
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<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>
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</tr>
</tbody>
</table>
Wanda Cardiovascular Disease System (Wanda-CVD)
Wide Body Area Network (WBAN)