The Internet of Healthy Things: *BioStamp*

Michelle Graff, Maddie Jones, Dillon Paul, Kevin Czarnowski



Meet David















Productivity • Transparency • Quality of Care



The Problem - Chronic Health

US Adults with Chronic Conditions:

Visits from recurring chronic checkups: 38%

Hospital Readmissions:

Billions

45%



\$1 TRILLION

total costs Chronic Diseases annually ³ 1/2 nearly half the people in the U.S. have chronic conditions \$234 billion in lost productivity

\$425 billion in medical spending every year in US²

\$91 billion annually in lost productivity of caregivers to people suffering

from chronic conditions

4X

Productivity loss owing to a chronic condition disease is four times as great as the direct medical costs of a chronic condition.³

The Problem - Wearables



US Consumers using activity tracker 6 months after purchase:

Only 33%

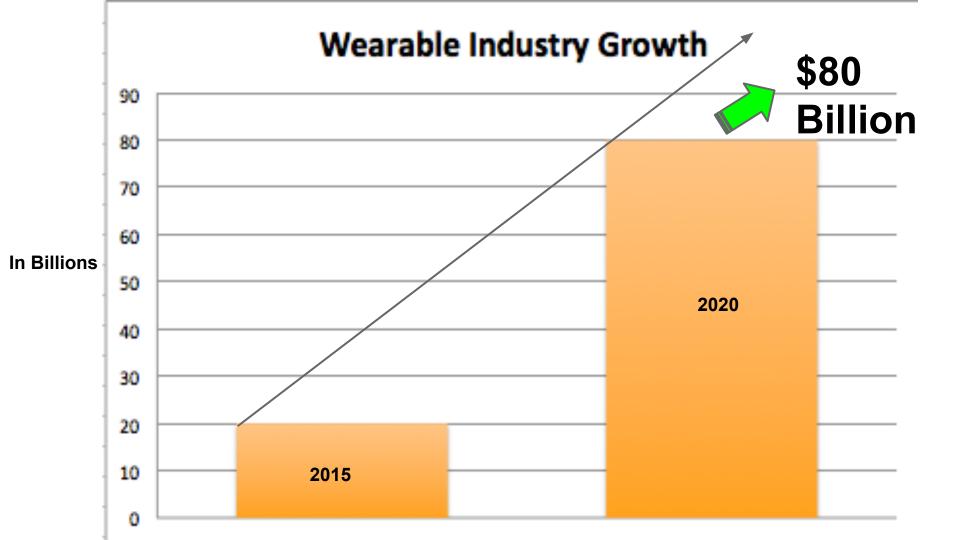




TORY BURCH FOR FITBIT

A fashion-forward collection of Tory Burch accessories designed exclusively for Fitbit Flex.









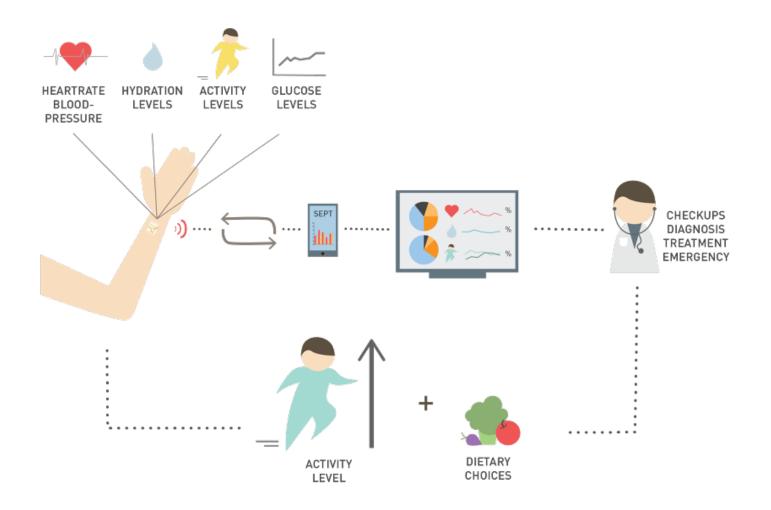


MedStar Washington Hospital Center

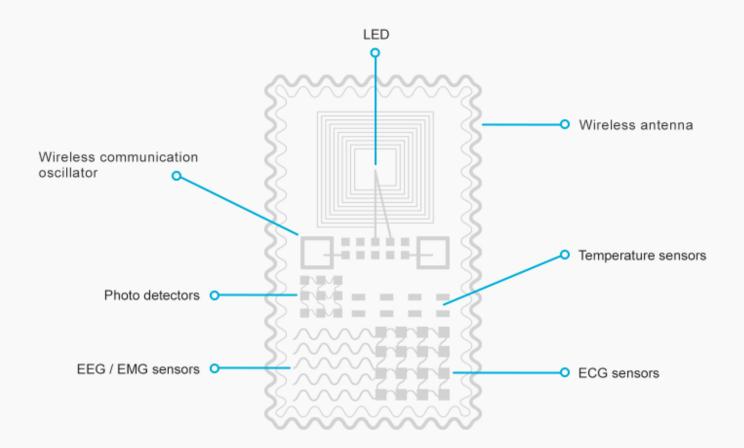
Biostamp- the next frontier of wearables

Department of Neurology





THE BIOSTAMP CIRCUITRY



Competition

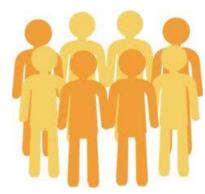




Acquisition Benefits

- ★ Efficient diagnostic process
 - Early detection & prevention
 - Substitute thousands of dollars in lab work
- ★ Heightened quality of care
 - Constant supervision
 - Eliminate more than 10% of visits
- Transparent stream of revenue
 - Reduce dependence on expensive equipment

Implementation Timeline





1st Year: Equip facility

- 2nd Year: Formalize monitoring procedure
- 3rd Year: Reform standard diagnostic operations
- 4th Year: Transition from acute to chronic care model



Projected ROI

Year 1	Year 2	Year 3	Year 4	Year 5
.40	3.0	4.2	4.7	5.2

Appendix A

Drawbacks & Mitigation

Extending past Chronic Segment -R&D, wide scale marketing

Battery Life -Clinical Trials





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Appendix A

HealthCare
Partners

- ROI = 1.3 in Year 1
 - Total returns/patient = \$4388
- Returns attributable to reduced hospital admits

- California-based patients with COPD and other chronic health conditions
- Utilized low-cost interactive voice response monitoring (IVR) system
- 6 month average intervention length
- Pre-post comparison

<u>http://www.techandaging.</u> <u>org/ROIModelReport.pdf</u> - Center For Technology and Aging: Measuring Return on Investment of Remote Patient Monitoring