Intel in Healthcare
Global Healthcare Crisis

Global aging and rapid increases in chronic diseases

Shortage of qualified healthcare professionals

Healthcare costs rising to unsustainable levels

Need for new models of care
The Continuum of Care

Quality of Life

Cost of Care / Day

Home Care
- Independent, Healthy Living
- Community Clinic
- Chronic Disease Management
- Doctor’s Office

Residential Care
- Assisted Living
- Skilled Nursing Facility

Acute Care
- Specialty Clinic
- Community Hospital
- ICU

Shift Left!
Highest quality of life, lowest cost of care

Highest quality of life, lowest cost of care
Intel’s Digital Health Focus Areas
Explore how people deal with specific healthcare problems

Design prototypes of new technology solutions

Field-test prototypes in everyday settings, everyday lives

Turn prototypes into new platforms that meet people’s needs

Intel social science fieldwork in more than 1000 homes; 100 clinics; 20 countries; 12 pilots
Technology pilots Intel is doing

- Parkinson’s At Home Testing Device
- Context Aware Meds Prompting
- Fall & Gait Analysis System
- Detecting Daily Routines

All devices are investigational devices only for research purposes!
Chronic Disease Management

• The U.S. spends approx. $500 billion/yr caring for people with chronic diseases*
• 1 billion adults overweight, worldwide†
• 75-85% of healthcare spending on chronic disease management in US*

• Intel is committed to developing solutions for chronic disease management focused on COPD, CHF and diabetes

Providing information to the patients and clinician, enabling personalized care management

Independent Living

• Intel has been researching how technology can play a role in independence and health for nearly 10 years

• We are bringing our 30 years of technology leadership to help improve healthcare, increase independence, and lower costs.

Applying the power of technology for independence and health
Healthcare IT

Solution Areas

Provider
- Electronic Medical Records
- Mobile Point of Care

Payors
- Claims Processing

Pharma
- Drug Discovery
- eClinical Trials

Enterprise IT

- Server Virtualization
- Client Management
- IT Security
- Wireless Management

Enabling healthcare orgs to better manage information and enhance patient wellness
Healthcare IT
Mobile Clinical Assistant

Clinical Design
- Easy-carry handle
- Disinfectant tolerant
- Rugged and lightweight (~ 3 lbs)
- Designed for patient safety

Workflow optimized
- “5-Rights” via Barcode, RFID
- Integ. camera to enhanced documentation
- Hot-swappable battery (docked mode)
- Designed around the workflow

Information at the point of care
- EMR connectivity via Wireless LAN
- Vitals monitoring connectivity via Bluetooth

Enabling clinicians to access patient records at the point of care
Cultivating Collaborations

*Other names and brands may be claimed as the property of others.
Policy and Standards

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Continua Health Alliance

• A non-profit, open industry alliance of the finest healthcare and technology companies in the world joining together in collaboration to improve the quality of personal healthcare
Continua Health Alliance

• “Our Mission is to establish an ecosystem of interoperable personal health systems that empower people & organizations to better manage their health and wellness”
Continua Health Alliance

PRODUCT PACKAGING

PRODUCT APPLICATIONS

ELECTRONIC MEDIA / SOFTWARE

PRODUCT SUBSTRATES
Version One Device Connectivity Standards

- ISO/IEEE 11073-10404 = Pulse Oximeter
- ISO/IEEE 11073-10406 = Pulse / Heart Rate
- ISO/IEEE 11073-10407 = Blood Pressure
- ISO/IEEE 11073-10408 = Thermometer
- ISO/IEEE 11073-10415 = Weighing Scale
- ISO/IEEE 11073-10417 = Glucose
- ISO/IEEE 11073-10441 = Cardiovascular Fitness Monitor
- ISO/IEEE 11073-10442 = Strength Fitness Equipment
- ISO/IEEE 11073-10471 = Independent Living Activity
- ISO/IEEE 11073-10472 = Medication Monitor

Bluetooth Medical Device Profile Specification

USB Personal Healthcare Device Class Specification
Integrated Programs

Device Sensors

Biometric Responses

Person Centered

- Wellness Management/Support Systems
- Bio metrics Testing
- Glucose Meter
- Cholesterol HDL/IDL
- Triglycerides
- Blood Sugar
- Spirometer
- Blood Pressure
- Blood Pressure Cuff
- Weight Scale
- Weight
- Pedometer
- Medication Tracking
- Body Fat Analyzer
- Body Fat
- Fitness Equipment
- Fitness
- Nutrition
- Stress Management
- Information Systems
- Blood Pressure Cuff
- Pulse Oximeter
- PHR/PHA
- Resting Heart Rate
- Wellness Center
- IRA/Health Administrative Assistant
- FlexAir
- Classes
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