Discussion Panel: Forward Thinking – How Technology is Changing Family Caregiving

#CareAdvocate @NA4Caregiving
Technology & Caregiving

• What We Know
  
  • 77% of family caregivers found that Personal Health Record tracking would be helpful
  • 70% wanted a shared Caregiving Coordination System
  • 70% wanted a Medication Support System device

Catalyzing Technology to Support Family Caregiving

Rajiv Mehta and Richard Adler, Catalyzing Technology to Support Family Caregiving (2014), available at www.caregiving.org/research/technology
• What the Round Table Recommended
  • Better “concept maps”
  • New data on caregiving and technology
  • A broad, national conversation
  • Business case for employers
  • Caregiving coaching
  • Social conversations between families and communities

Ravi Nemana, MBA
Healthcare & Innovation Expert

Speaking on behalf of CITRIS
(Center for Information Technology Research in the Interest of Society)

#CareAdvocate @citrisnews
EMERGING TECHNOLOGY & AGING

Why service matters so much.

Ravi Nemana
AGENDA

- A few key trends
- Highlight Technology Developments
- Highlight Technology Implications

Financial Conflicts of Interest: None

Special Thanks: David Lindeman, CITRIS Executive Director
We tend to overestimate the effect of a technology in the short run and underestimate the effect in the long run

--Roy Amara
“Amara’s Law”
**TRENDS: SENIOR CARE IS RETURNING “HOME” AGAIN**

Move toward *home care* & *self care*. Home care is one of the fastest growing segments of health industry.

**Productivity of Home Care services is poor.**
TRENDs: NEW COMPUTER CLASS EVERY 10 YEARS

Nearly all new technologies transmit or capture something & IT will process, sort, send, track and store these streams.
TRENDS: WE HAVE ACCEPTED THE “BIONIC MAN” MODEL
Everyday health through everyday devices

Everything is a touchpoint / interface to other devices

Every device has a chip, every chip as a radio

TRENDS: CONVERGENCE IS HAPPENING
TRENDS: CONVERGENCE & AGING

Example: Exergaming, Telemedicine, Entertainment, Out-tasking, Communication, “Wellness” ADLs, Living Independently
HIGHLIGHTS: TELEMEDICINE / REMOTE MONITORING

- **Home Activity Tracking**
- **Personal Emergency Response Systems**
- **Geo-tracking**

**Lively**

**Philips Lifeline**

**Life360**

**Healthsense**
**HealthSense**

**HIGHLIGHTS: CONNECTED HOME ENVIRONMENT**

*How the Wellaware™ System Works*

**Key Components**

1. **Data Manager**
   - The Data Manager receives wireless signals from an array of sensors. The data can be transmitted via a phone line or wired/wireless broadband.

2. **Authorized Caregivers**
   - Data is analyzed 24/7 on a private secure server. Caregivers can easily access the password-protected wellness and trend reports from any computer with internet access. Alerts can be received via email, text, message, pager and PERS system.

3. **User-Friendly Reports**
   - User-friendly reports are designed to proactively identify emergent wellness conditions and improve care delivery efficiency.
HIGHLIGHTS: MONITORING + SERVICES

DROPCAM

LIVELY

CANARY

HD Camera
Microphone
Night Vision
Motion Detection
Temperature
Air Quality
Humidity
**Highlights: Technology for CareGiving**

- **Research Kit** (Apple, Inc)
  - DM, CAD, BRCA, PD, asthma...

- **LiftWare spoon** (Liftware)
  - Multiple Attachments: Fork, soup spoon, keyholder, and more are coming soon.
  - Stabilizing Technology: Cutting-edge electronics will work to actively detect and stabilize your tremor.
  - Battery: Ultra-thin rechargeable battery will last for several days on a charge.
SERVICES + TECHNOLOGY FOR AGING

© Microsoft

© Apple, Inc.
FOR FURTHER INFORMATION:

Ravi Nemana
rnemana@gmail.com
David Inns, MBA
Chief Executive Officer
Great Call Inc.

#CareAdvocate  @GreatCallInc
HOW TO SUCCEED

• **BENEFITS** senior & caregiver

• **EASY, convenient, affordable**

• They **WANT TO USE** it

• Respect **PRIVACY**
WHERE WE’RE HEADED

• SMARTPHONES ARE THE FUTURE OF CAREGIVING: smartphones with bluetooth peripherals

• BUT THAT’S THE FUTURE. Today, smartphones aren’t a part of every seniors life.
AND NOW

WHAT CAN WE DO TODAY?
NEXT GENERATION PERS

AFFORDABLE
SIMPLE
EASY TO USE