Rapidly Deployed Remote Monitoring for COVID-19
Best Practices

March 31, 2020
Agenda

Welcome and Introductions
  • Jennifer Covich Bordenick, CEO, eHealth Initiative and Foundation

Presenters
  • Al Kinel, President, Strategic Interests, LLC
  • Bridgette Wiefling, MD, Senior Vice President Primary Care, Advanced Solutions Institute, Rochester Regional Health
  • Levi Shapiro, Founder of mHealth Israel; Instructor, Digital Health Program, BioMED MBA, Hebrew University
  • Uri Bettesh, CEO, Datos Health
Today’s Speakers

Al Kinel  
President, Strategic Interests, LLC

Bridgette Wiefling, MD  
Senior Vice President Primary Care, Advanced Solutions Institute, Rochester Regional Health

Levi Shapiro  
Founder, mHealth Israel

Uri Bettesh  
Founder and CEO at Datos
Housekeeping

• All participants are muted

• Use the Q&A box to ask a question related to the presentation

• Use the chat box is for technical difficulties and other questions / comments

Presentation slides are in the eHI resource Center
https://www.ehidc.org/resources
eHI Leadership Council

[Logos of various organizations]
eHI’s Mission

To serve as the industry leader in **convening executives** and multi-stakeholder groups to **identify best practices** that **transform healthcare** through the use of technology and **innovation**.
# Current Areas of Focus

<table>
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<tr>
<th></th>
<th>Value Based Care</th>
<th>Interoperability</th>
<th>Privacy &amp; Security</th>
<th>Analytics &amp; SDOH</th>
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<tbody>
<tr>
<td>Cost Transparency</td>
<td>Understanding FHIR / APIs / Da Vinci</td>
<td>Protection vs. Access</td>
<td>Non-traditional data sources</td>
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<td>Prior Authorization</td>
<td>Policy</td>
<td>HIPAA Part 2</td>
<td>SDOH &amp; PGHD</td>
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<td>Workflow</td>
<td>Cybersecurity</td>
<td>EHR Data for Clinical trials</td>
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<td>Info Blocking</td>
<td>Medical Device Security</td>
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• **April 7**- Telehealth during COVID-19: New strategies on how physicians are addressing the outbreak

• **April 23** – COVID-19 - Billing for Telehealth Services
This Webinar is Generously Supported by

strategic interests
Transforming Healthcare
Ambulatory COVID Response—Using Technology To Manage Care Safely and Efficiently

Bridgette Wiefling MD
SVP RRH Primary Care Ambulatory Specialty and Clinical Innovation
And
Al Kinal
CEO Strategic Interest
### Rochester Regional Health

#### Today

<table>
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<tr>
<th>5 hospital locations</th>
<th>19K+ system employees</th>
<th>2,500+ medical staff</th>
<th>1,600+ system volunteers</th>
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<tbody>
<tr>
<td>936 long term care beds</td>
<td>8 long term care facilities</td>
<td>370K behavioral health visits</td>
<td>100+ primary care &amp; ambulatory locations</td>
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<tr>
<td>1M+ clinical trials tests</td>
<td>267K+ emergency room visits</td>
<td>54 patient lab testing sites</td>
<td>35k+ patients in home care</td>
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Patient Engagement Efforts
Prior to COVID-19

• Virtual Consultation: Tele-health Cisco Carts for nearly 15 years to manage rural healthcare for community hospitals
  • Specialty Extension
  • ICU Support
• Embraced Epic Virtual Care
• Created eHealth@Home Team
• Tele-BH Services to facilitate scarce resources
• Exploring chronic disease management opportunities with Datos

COVID-19 Hit Rochester Fast
COVID-19 Hit Rochester Fast

Confirmed COVID Inpatient

Outpatient
- Urgent care
- Emergency Room
- Primary Care
COVID-19 Preparedness

Focus on:

- Workforce Management
  - Tools and Technology
  - Policies and Protocols for Rapid adoption
  - Regulatory management
  - Toolkit – “Playbook”
- Materials Management Central Team
  - PPE
  - Ventilators
  - Meds
  - Hospital Equipment
- Patient Flow and Volume Management
  - Wave 1 ambulatory redesign and conversion to full telehealth
- Communication and Education
  - Patient facing
  - Leadership
  - Community

Issues that arose:

1. Tele-health limitations
2. Lack of access to testing
3. Need to manage healthcare workforce
4. Need to facilitate easier way for county to manage large # of quarantined residents
**Battle Plan to Get Tool**

**Stage 01**
- Demo request
- Established use cases
- IT and CMI engaged

**Stage 02**
- IT privacy & security clearance process
- Contracting begun
- Business case development

**Stage 03**
- Implementation of critical paths:
  1. HR and Employee Health engagement
  2. Nursing recruitment
  3. Physician Champion
  4. Project management

**Stage 04**
- Worked with Datos-SI for customization
  a. HR on process and use needs
  b. PCP patient care needs
  c. County challenges
  - Epic orderset

**Stage 05**
- Rapid refinement
- Final Demos
- Launch
- PDSA process
- Add chronic diseases

**Timeline**
- Tuesday March 11
- Friday March 20
- 10 Days

**Phases**
- Forming
- Storming
- Norming
**Use Cases**

- Patients presumed positive
- Covid Positive Patients
- Exposed Health care workers

**Impacts**

- Positive Patient Experience
- Reduced Ed Utilization
- Increased ability to get Providers back to work

**Challenges**

- Right work flow for patients with problems
- Double management of patients that are employees and patients
- County Needs
mHealth Israel: Community for Connected Health

- 7K Members
- 20+ Events
- 10K LinkedIn
- 16K Mailing List
- 3 Delegations
Next Wave of Innovation Will Be Driven by **Covid-19**

Biology + AI, physics, computation, electronics, nano, etc
Sheba Case Study: Telemedicine as a Critical Tool for Covid-19
Priority: Maximal Crew Protection

- High Level Medical Care
- Minimal Physical Contact
Harnessing Telemedicine Technologies

- Communication
- Monitoring
- Physical Examination
1st Stage - Facility for “HEALTHY” people

✔ Goal: Zero physical contact

New Concept:
Inpatient Tele-Hospitalization
The Control Room

The Tele-Tent
Communication

• **Uniper**
• **Back-up:**
  • Telephone
  • Cell phone
  • Emergency press button
  • Security cameras
Simple TV box turns any television into an interactive personal companion.

Simple remote

Customized easy-to-use remote control with a built-in microphone and a small web camera for social engagement and activity.
Video visits
Group visits
Virtual Family Visit
Monitoring

- Self examination and reporting of vital signs
- Earlysense
EarlySense

- Contact free continuous monitoring of HR, RR and Motion
- AI based algorithm that predicts clinical deterioration
Daily Rounds
Intouch Telepresence Robot

Located in the special care room and allows better communication with staff when inside the facility.
Stage 2

- Transform the facility into an internal medicine ward

Goal: Minimal Physical Contact
Sensor Measurement

Biobeat’s patch measures and records the following parameters:

- Blood pressure
- Respiratory rate
- Blood oxygen saturation
- Pulse rate
- Heart rate variability
- Stroke volume
- Cardiac output
- Cardiac index
- Pulse pressure
- Systemic vascular resistance
- One lead ECG
- Mean arterial pressure
- Sweat level
- Skin temperature
Telemedicine is critical in times of crisis

- Medical Care for Isolated Corona Inpatients
- Home Hospitalization for Corona Patients
- Continuity of Care for Non-Corona Ambulatory Patients
Datos.

Fully automated remote care and telemedicine platform

COVID-19 quarantined patients monitoring program

Uri Bettesh, Founder & CEO
March 2020
Field-proved COVID-19 telemedicine solutions

HOME HOSPITALIZATION

Remote monitoring and online symptom-checking for home hospitalized positively diagnosed Corona patients at their homes

- Enable large scale of care
- Protect hospitals and care teams
- Allows an isolated medical team to provide remote care

VIRTUAL CLINIC

Transform all hospitals’ ambulatory services and out-patient clinics to operate virtually enabling remote consultations via video calls

- VERY simple – no app download or registration process is needed
- Can even support non-techies users
We have the experience!
We have a comprehensive telemedicine technology

A full stack software platform that equips care teams to remotely manage complex clinical protocols, delivering personalized remote care at utmost operational efficiencies and dramatically reduced costs.

**WEARABLES & MEDICAL DEVICES**

- Agnostic integration both on the mobile and cloud level

**PERSONALIZED PATIENT EXPERIENCE**

- Protocol management, survey generation, and communication engine

**SECURED & FLEXIBLE CLOUD PLATFORM**

- Data visualization, alerts, reminders, survey configuration

**PATIENT MANAGEMENT CONSOLE**
We connect patients with the care team

Enabling reliable vitals monitoring, real-time alerts and reminders

Allowing physicians to monitor patients”, away from the hospital

Delivering daily surveys for symptoms management

Communicating with the home hospitalized patient whenever its needed
Let us help your local hospital!
Contact us: info@datos-health.com
Or contact our strategic partner

Bill Lavoie, COVID Project Manager
blavoie@strategicinterests.com

THANK YOU

www.datos-health.com
Panel Discussion

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