

### Learning from the Pioneers April 2, 2019

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### In the Beginning

#### Non Existent:

- Reimbursement
- Delegated Credentialing and Privileging
- Licensure Compacts (Nursing and Physician)
- No FCC Discounts on Communications
- HIPAA and HITECH

#### Technical/Equipment/Communication

- \$89,000 for a Video System
- Telehealth Carts were BIG and Heavy
- No Internet (T1 Lines/ISDN/Frame Relay)





### Welcome to Today!

- Reimbursement
- Mergers and Acquisitions
- Competition
  - New Players via Partnerships
  - Direct to Consumer
  - Unusual Suspects
- EMRs
- Analytics and Metrics
- FCC
- Technology
  - 5G
  - Al





### Today – Reimbursement

- Fee for Service
  - Fading, but how fast?
- Fee for Value
  - At-Risk Contracts
  - Bundles

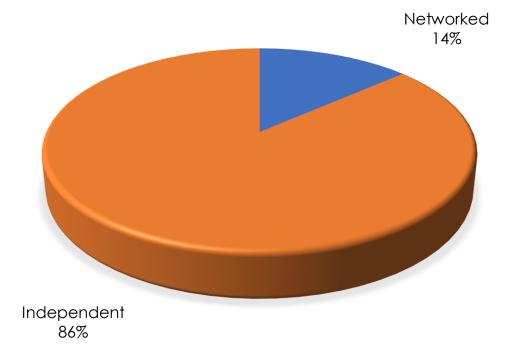




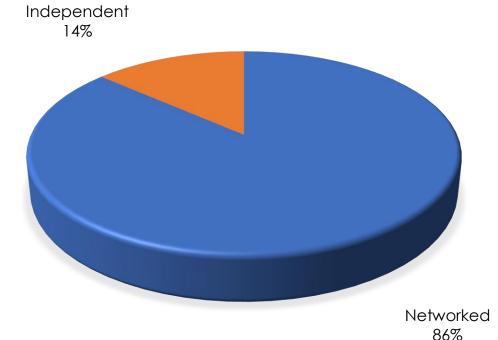
### Today - Mergers and Acquisitions

#### LVHN TeleBurn<sup>SM</sup> – 2008-2018

#### **TELEBURN HOSPITALS 2008**



#### **TELEBURN HOSPITALS 2018**





### Today - Competition







Amazon Holds Wholesal Pharmacy Licenses in 12 States





# How valuable was experience? Direct to Consumer (DTC)

- 20+ years experience in telehealth
- Make Telehealth "as good or better" to convince providers & payers
- DTC met a consumer need, but some went to war against the model, with legal battles in some states
- Health plans and employers adopted DTC
- Cerner partners with AmWell
- Epic has an integrated DTC in MyChart
- DTC is here to stay

# \*

### Today – Who are your competitors?

- Insurers United Healthcare, Anthem, Aetna, Cigna, Humana, Highmark...
- Employers Walmart, Home Depot, State of KY, U of KY....
- Retailers/pharmacies/public spaces
  - Walmart (Mucinex, Delsym, Airborne, others) = free Doctor on Demand consult
  - CVS, Walgreens, Rite Aid
  - Kiosks in grocery stores (Publix, Giant, Hy-Vee) and airports...
- **UberHEALTH** vaccines in the home
- Any healthcare provider using a DTC platform

and your newest potential competitor or partner...



### Haven

amazon

\$232B

A. Morgan

\$131B

BERKSHIRE HATHAWAY INC.

\$247B



### Today - FCC/USAC-RHCD

- UNIVERSAL SERVICE ADMINISTRATIVE COMPANY
- RURAL HEALTH CARE PROGRAM
- FY 2019 funding \$593,782,000.
- Telecommunications Program Urban Rural difference
- Healthcare Connect Fund 65% of eligible expenses
- Funding year is July 1, 2019 to June 30, 2020

## Today – Eligible Health Care Providers

- Post-secondary educational institutions offering health care instruction, teaching hospitals and medical schools
- Community health centers or health centers providing health care to migrants
- Local health departments or agencies
- Community mental health centers
- Not-for-profit hospitals
- Rural health clinics
- Dedicated emergency departments of rural for profit hospitals
- Part-time eligible entities
- SNFs
- Consortia of the above entities



### Today - Healthcare Connect Fund

## 65% support for broadband communications including hardware

#### Consortia can:

- Include urban health care providers (over 50% must be rural)
- Off site data centers and administrative offices are supported
- Can request multi year funding support



### Today - FCC/USAC-RHCD

#### Rural Health Care Program

Filing Window closes May 29, 2019



### Today - Technology

- New Advances in Technology are Propelling Interest in the industry of Medicine and in Telehealth
- Reality check: If Hospitals stop leading the way in Telehealth growth, Tech Giants will.
- Fertile ground for profits are shrinking.
  - Who would have thought 20 years ago State supported growth and use of marijuana would not get you a lengthy jail sentence?
- Amazon, Apple, Google, Microsoft, IBM, Facebook, UPS all are seeing the potential of Telehealth and advances in Al as fuel for future profits



### Today - Technology - FDA

- Notable 2017 Telehealth FDA Clearances
  - KardiaBand: Medical device accessory that uses Apple Watch to capture an EKG
  - Cochlear Nucleus Implant System: Remote programming capabilities for cochlear hearing implants
  - Abilify MyCite: Ingestible "smart pill" with digital sensors designed to monitor medication compliance
  - **IDx-DR**: Via a kiosk with a tech, anyone can have there eyes photographed to diagnose for Diabetic retinopathy. FDA approved and <u>currently only allowable "non practitioner" way for payment in CMS history</u>



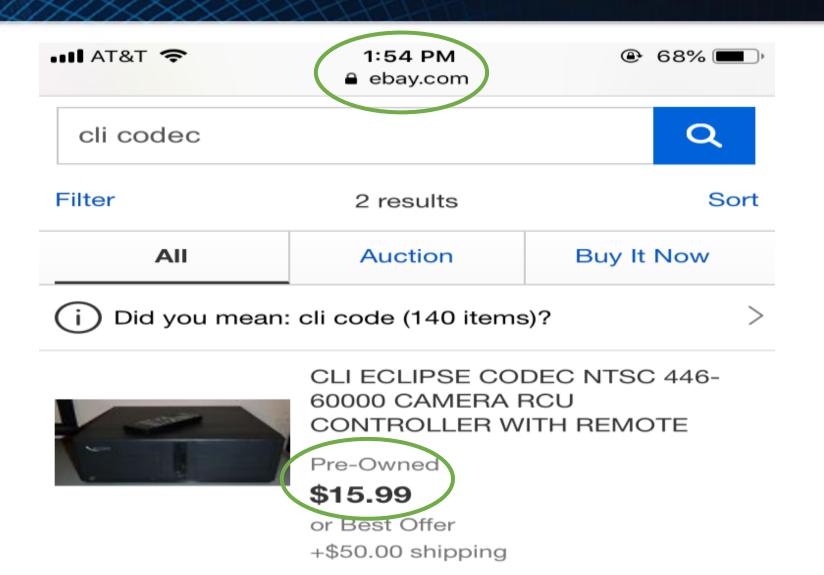
### Today – Analytics

#### The future of Health IT will be driven by Data

- Personal data is fueling the potential for Al
- As more products for Telehealth combine personal data with predictive analytics, that mixture will fuel the engine of change
- Cheap/passive/easy/autonomous the buzz words of Al
- 2.2 Billion invested in AI development in 2018 Dr. David Brailer
- Will technology innovations make health care better for all of us?



### Original Cost - \$89k





### Back To The Future

### ITSR Goals

Year 1

- Create an organizational infrastructure to effectively deliver telemedical services
  - Clinical scheduler
  - Technical help desk
  - Needs-based research and development



### Principles That Have Held True

- Passion for doing it the right way
- Open for innovation and making telemedicine a tool
- Had to push forward telehealth process and technologies so Telemedicine adoption across the country would continue to grow.
  - Federal and State policies
  - creation of needed infrastructure, resources
  - research, publications
  - a lot of grant writing and reporting
  - while tending to our own gardens to assure we all remained employed! (kids got to eat!)



### A Few Final Thoughts

- Is it healthy for your EMR to be a one stop shop for telehealth?
- Protect what intellectual property you have!
- Is it less expensive and more efficient to outsource than build it internally?
- Analytics/Metrics/Data are we reducing patients to numbers?



### Moving Forward

- Understand your Environment
- Anticipate Change
- Evaluate and Plan Out your Options
- Think Partnership(s)
- Execute on your Strengths



### See The Bigger Picture



Picture – courtesy of Robert Schosser, MD, East Carolina University



### See The Bigger Picture



Picture – courtesy of Robert Schosser, MD, East Carolina University



### Discussion

