

Disruptions

How Labs Can Utilize Big Data and Capitalize on Industry Innovations

Jason Bhan, MD, Chief Medical Officer, Medivo www.medivo.com May 5, 2015



Big Data Analytics Disruptions

dis·rup·tion
/dis'rəpSH(ə)n/

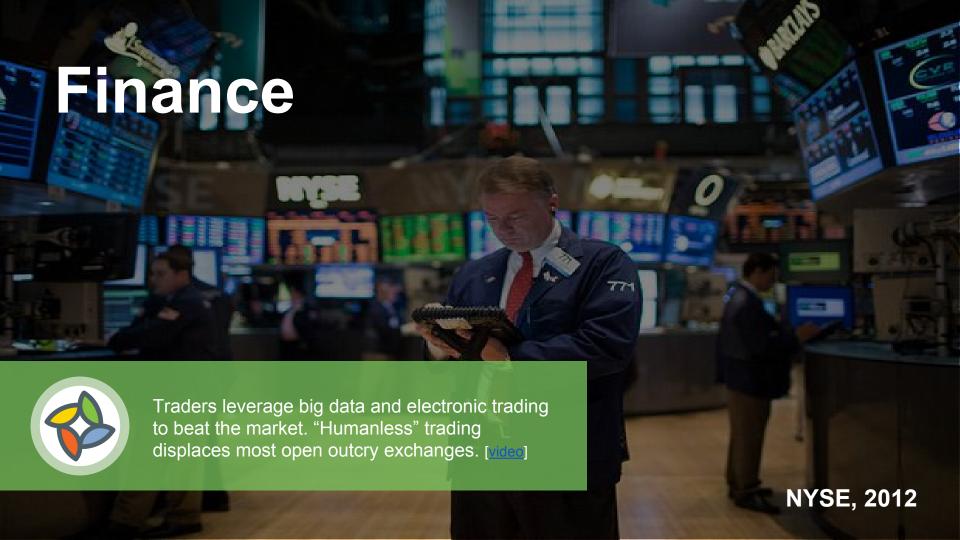
Harvard Business School professor and disruption guru Clayton Christensen says that a disruption displaces an existing market, industry, or technology and produces something new and more efficient and worthwhile.

It is at once destructive and creative.





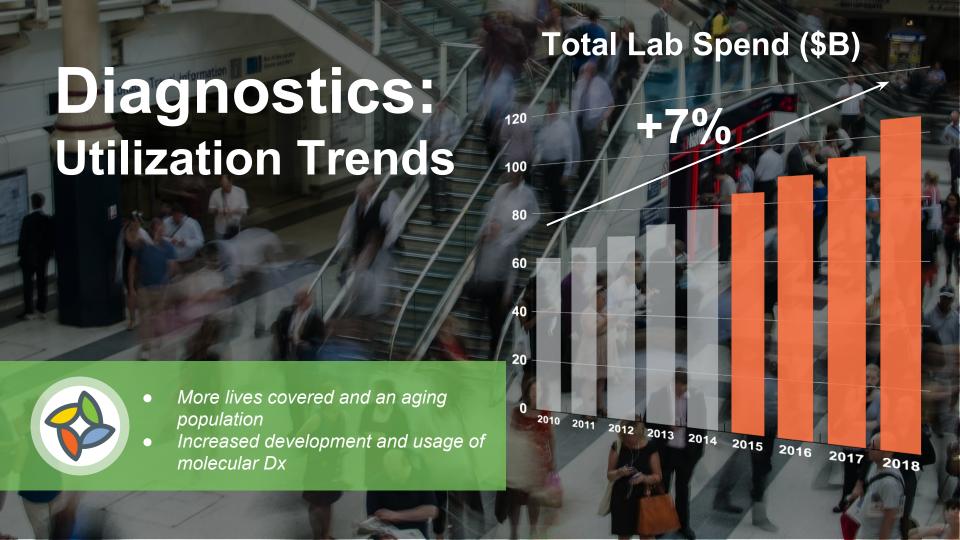












Diagnostics: Technology Evolution



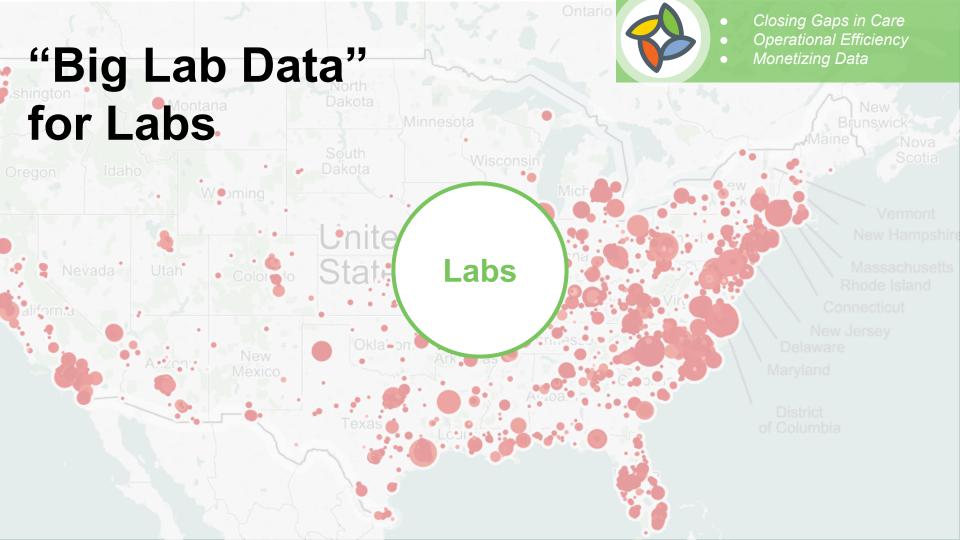
- Genomics and Precision Medicine
- Data and Analytics
- POC testing and diagnostics

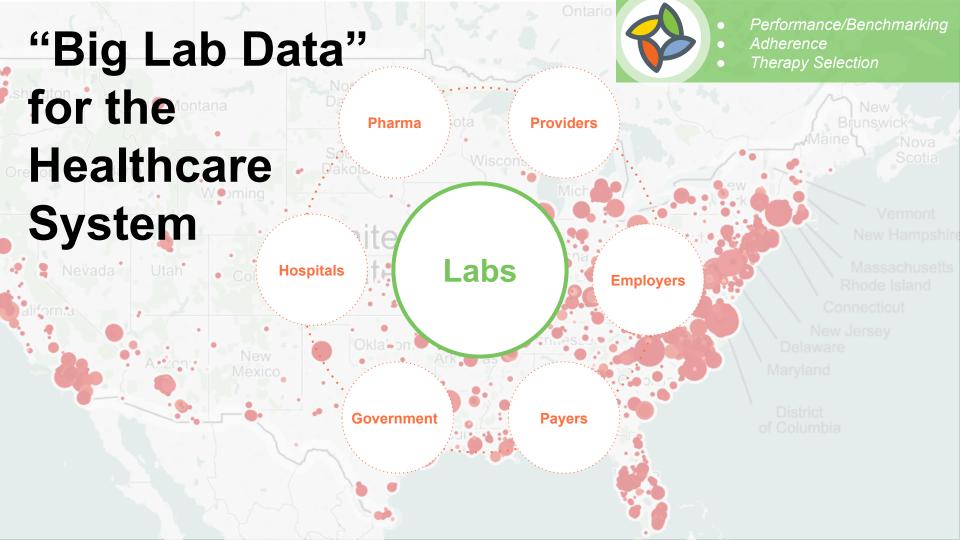


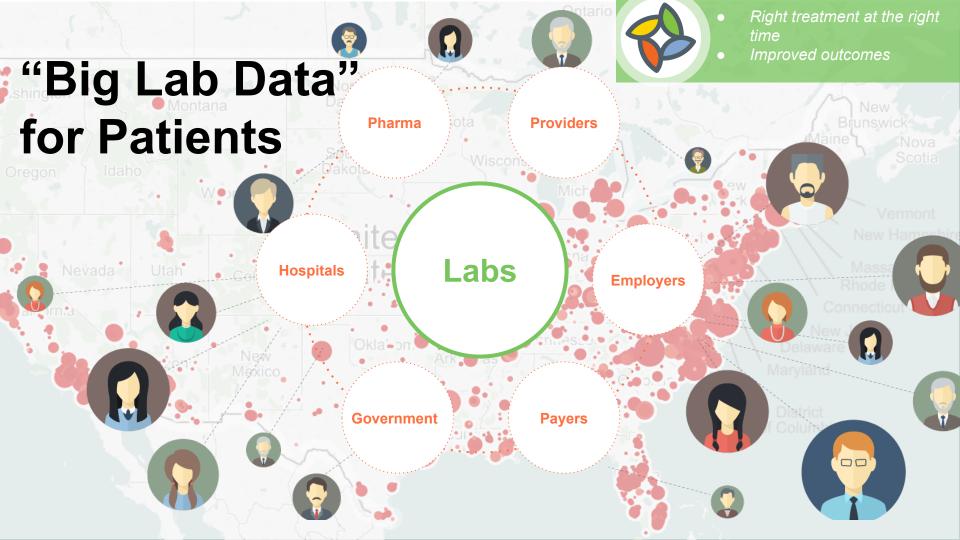
Lab Data is valuable because it is...

INFLUENTIAL	TIMELY
70% or more of medical decisions are based on lab testing	Lab data can be delivered within a few days of testing, well before treatment decisions have been made
TARGETED	ACCURATE











Unlocking the Power of Lab Data

Access Analytics to Unlock Potential

Underutilization - Practice View Practice Info ANDALUSIA Revenue Opportunity - Tota HEMATOLOGY/ONCOLOGY \$83.922 Underutilization - Practice 4.0 2.0 0.5 Avg BCR-ABL1 Testing Per Patient Avg. BCR-ABL1 Recommended Testing Frequency -Additional Recommended RCR-ARI 1 Testing Clinical Guidelines

Clinical Analytics Platform that helps our lab partners locate and quantify underutilization and add-on testing opportunities.

CLEAR Data Solutions™ for Labs helps our lab partners:

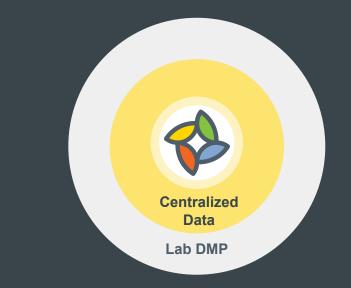
- Better informed sales team
- Drive value-based patient care
- Collect revenue by finding new opportunities for appropriate testing



Data Management Platform

Singular cloud-based lab data platform for multiple applications

- ETL data from all relevant systems within the lab
- Prepare data for all supported applications
- Secure, cloud-based storage
- Plug-and-play integration with all supported front end applications
- Consultative data services and evaluations

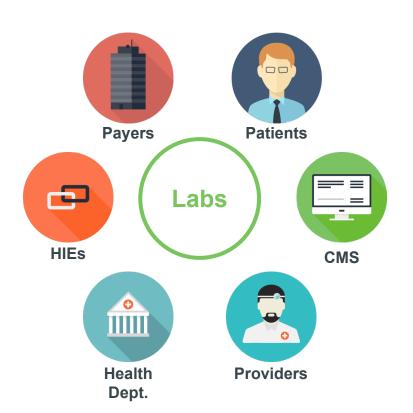


Population Health
Regulatory Compliance
Research
Payer Reporting
Utilization Analytics
Top Line Revenue Opps

Productivity and Workflow Esoteric Interpretation Delivery to HIEs Government Patient Services



Reduce Overhead and Speed Response



Multiple entities need your data and you need to share it securely.

Easily service the demands of all of your 3rd party data requests.

- Reduce the time spent by employees pulling data requests
- Streamline request management



Monetize an Untapped Asset



Convert your data platform from a cost center into an valuable asset that feeds a developing ecosystem.

- Utilize one data platform for multiple applications.
- Minimize data related IT projects.
- Monetize data, straight to the bottom line.



Furthering the Cause with Meaningful Research



Clinical Research presented at:

- American Association of Clinical Endocrinologists -2013, 2014, 2015
- Pharmaceutical Management Sciences Association -2014, 2015
- **Digestive Disease Week** 2013, 2014, 2015
- American Association for the Study of Liver Diseases -2013, 2014
- College of American Pathology 2014
- American Society of Hematology 2014
- Clinical Management Laboratory Association 2015



Improve Patient Care Delivery



Lab data must become a more integral part of the patient care continuum.

- Lab data should be the driving force behind patient care solutions:
 - Pop Health, Disease Management, Research



My husband Joe was diagnosed with CML. He was put on treatment and all went well. After 6 months he gained clinical remission and I thought he was cured. Suddenly after 6 months he lost remission and our doctor is trying to find a new solution. We are waiting.

I was referred a male patient. He is 55 now, diagnosed in June 2012. I started him on imatinib (Gleevec). 6 months into the therapy he showed significant improvement, but then his results went up again. Trying to look into the literature to find similar cases... Waiting...













We observe 22,000 CML patients tested every year





Medivo LVX Fact 2

1,250 new patients are diagnosed with CML every month





Medivo LVX Fact 3

Approx 6 CML patients show poor response to their current treatment **EVERY DAY!**







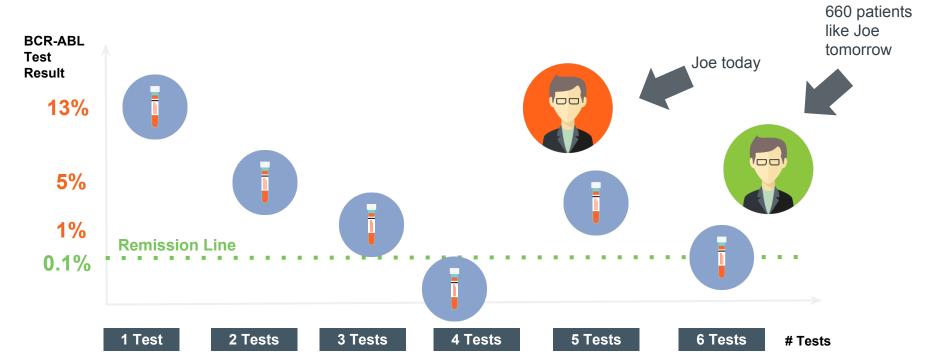








Medivo found 660 patients in the LVX just like Joe, and followed their patient journey with lab data to find ways to get Joe back to remission again!



N = 660 patients in Medivo LVX who lost response to treatment, switched therapy and gained remission back





Together we can unlock the power of lab data.

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