



Molecular Cytology That Transforms Patient Care

William Blair 35th Annual Growth Stock Conference June 9, 2015

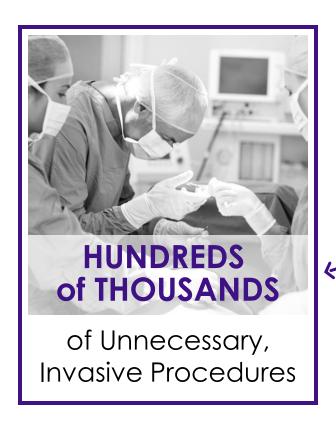
Forward-Looking Statements

Various remarks that we make in this presentation that are not historical, including those about our business strategy and goals, future plans and prospects, growth opportunities, drivers of our business, the size of potential addressable markets, international expansion plans and future products and product pipeline, constitute forward-looking statements within the meaning of the Safe Harbor provisions of the Private Securities Litigation Reform Act of 1995.

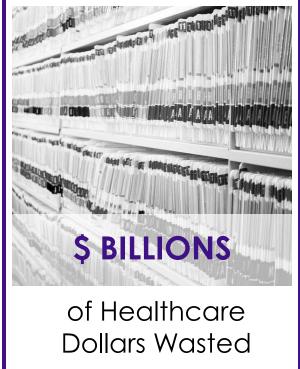
Forward-looking statements are subject to risks and uncertainties that could cause actual results to differ materially from our expectations. These risks and uncertainties include, but are not limited to: our limited operating history; our ability to increase usage of and reimbursement for Afirma and any future products we may develop or sell, including our PerceptaTM bronchial genomic classifier for lung cancer; our dependence on a few payers for a significant portion of our revenue; risks associated with new laws and regulations, including regulation of our tests by the FDA; our ability to attract and retain key personnel; our ability to develop and commercialize new products and the timing of commercialization; the timing, results and applicability of clinical study results to actual outcomes; our ability to raise capital as needed; our ability to successfully commercialize our Percepta test; our ability to commercialize other pulmonology products and the other risks set forth under the heading "Risk Factors" in our filings with the Securities and Exchange Commission. These forward-looking statements speak only as of the date hereof. We disclaim any obligation to update these forward-looking statements.

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Diagnostic Ambiguity: A Significant Healthcare Issue

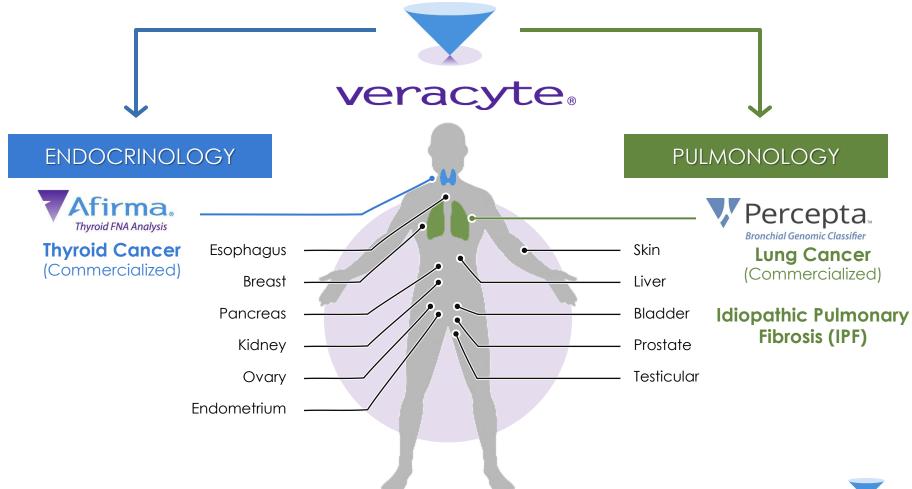




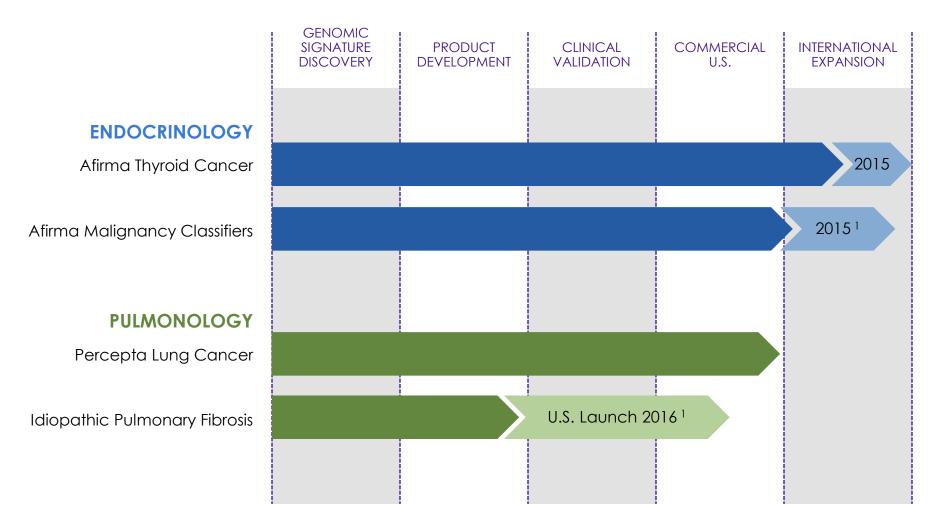




Veracyte: Using Molecular Cytology to Resolve Diagnostic Ambiguity



Deep Pipeline with Multiple Near-Term Milestones

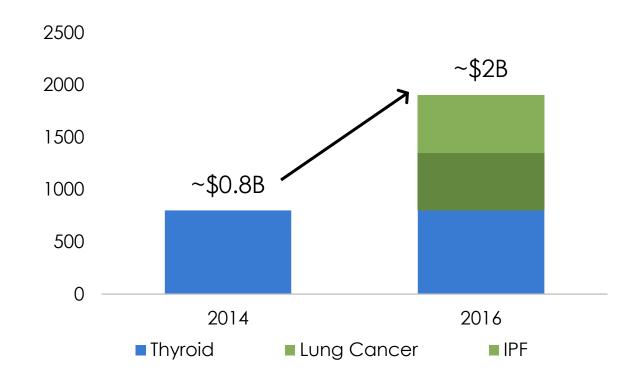




Large, Expanding Addressable Genomic Testing Markets

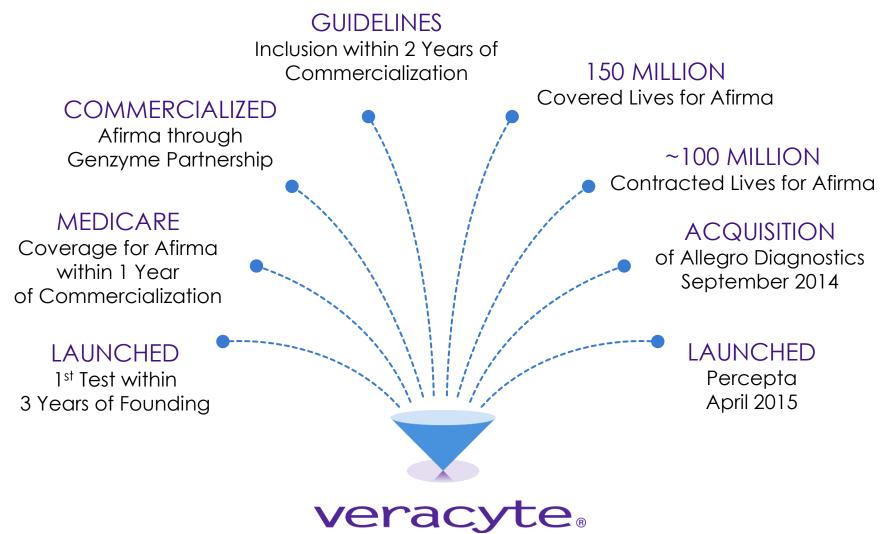
MORE THAN DOUBLING

with New Product Launches over Next Two Years



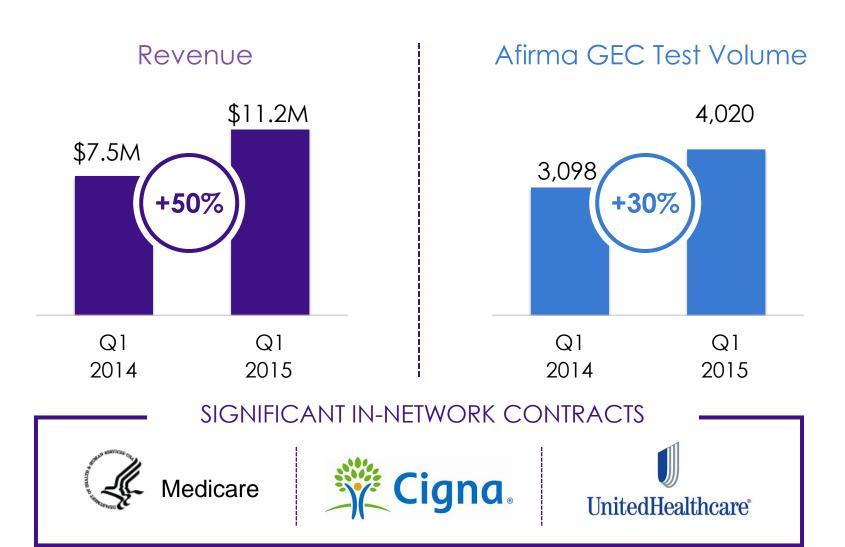


We're Setting New Standards





Continued Afirma Revenue and GEC Test Volume Growth





An Attractive Investment Thesis





PROVEN MODEL



GROWING FRANCHISE

Successful Execution in Thyroid; Expanding into Lung

ATTRACTIVE FINANCIALS

Efficient Commercialization and Reimbursement, Growing Revenue and Margins

STRONG TEAM Deep Expertise in R&D, Commercialization, and Reimbursement



Proven Model for Efficiently Building Additional Franchises

DIFFERENTIATED STRATEGY

Inform a Specific, Relevant Question at the Right Point in the Clinical Pathway

PROPRIETARY SCIENCE

Uniquely Apply
Whole Genome
Biomarker Discovery
and Algorithms to
Cytology Samples

CLEAR VALUE

Clinical Utility and Economic Value that Changes the Standard of Care

SUCCESSFUL REIMBURSEMENT

Published Evidence
Drives Clinical
Guidelines and
Positive Coverage







Thyroid Diagnostic Solutions

COMMERCIALIZED

Gene Expression Classifier (GEC)

Reducing Unnecessary
Thyroid Surgeries and
Lowering Healthcare Costs

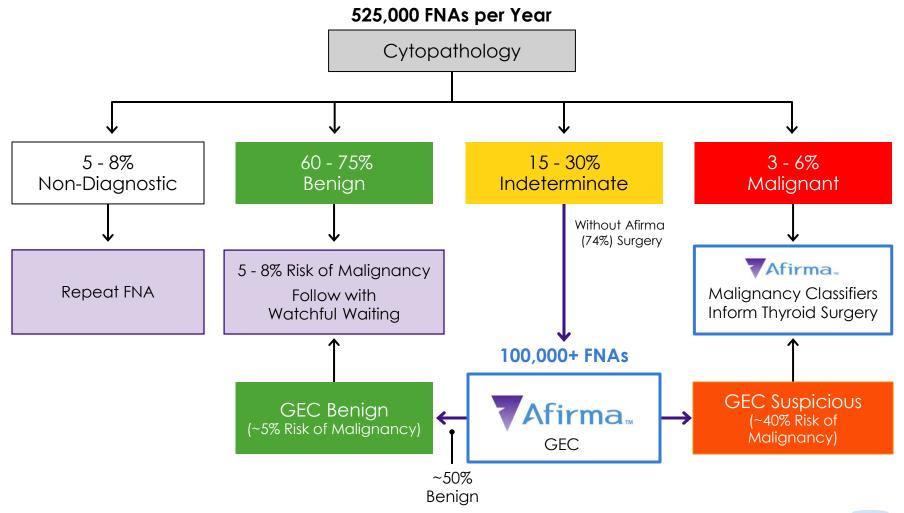
LAUNCHED MAY 2014

Malignancy Classifiers (MTC and BRAF)

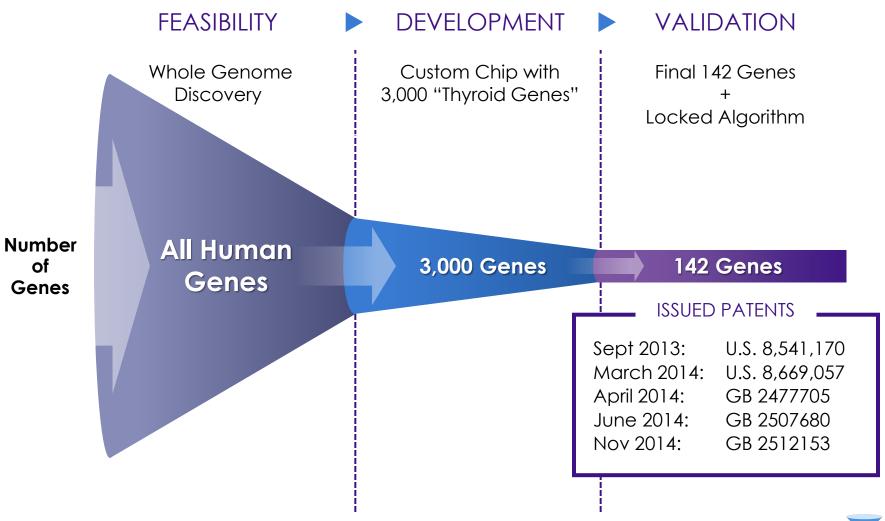
Pre-Operatively Informing the Choice of Thyroid Surgery When Surgery Is Needed



DIFFERENTIATED STRATEGY: Focused on the Right Point in the Clinical Pathway for Thyroid Nodule Assessment



PROPRIETARY SCIENCE: Entire Genome Explored to Identify Gene Signature



PROPRIETARY SCIENCE: Proven Clinical Validity

AFIRMA GEC

- Clinical Validation Study Published in The New England Journal of Medicine (August 2012)
- Prospective, Multi-Center, Double-Blinded Study
 - 49 Sites, 4,812 FNAs
- >94% NPV When It Identifies Benign Nodules Among Those Deemed Indeterminate by Cytopathology



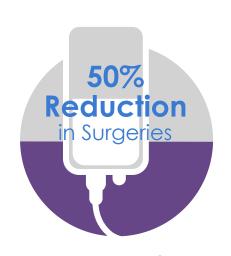
CONCLUSION

Findings May Enable Physicians to Replace Surgery with Routine Monitoring for Patients with a Benign Afirma GEC Result



CLEAR VALUE: Afirma Delivers Strong Clinical Utility and Measureable Economic Value

Diagnostic Clarity WITHOUT SURGERY



PATIENTS

Reduce Unnecessary Surgeries

~50,000

Surgeries Potentially **Avoided Annually**



PHYSICIANS

Make More Informed Treatment Decisions, Earlier

> 14 Days Instead of 60-90 Days



PAYERS

Lower Healthcare Costs

\$500 Million

in Direct Medical Savings Over 5 Years



SUCCESSFUL REIMBURSEMENT: Published Evidence Drives **Guidelines and Positive Coverage**

Published Evidence

Guidelines





Chudova D, et al. JCEM 2010 Alexander E, et al. NEJM 2012

Analytical Verification

Walsh PS, et al. JCEM 2012

Clinical Utility

Duick D, et al. Thyroid 2012 Alexander E, et al. JCEM 2014 Angell T, Alexander E. US Endo. 2014

Cost-Effectiveness and Quality of Life

Li H, et al. JCEM 2011 Duick D, et al. Thyroid 2012

Recent Reviews

Ali S, et al. PLoS Currents 2013 Xing M, et al. Lancet 2013 Ward L, Kloos R. Arg Bras Endo Metab. 2013

National Comprehensive Cancer Network (NCCN)

Published 2013, Updated 2014

UpToDate

Evidence-Based Clinical Decision Support Resource of Physicians – Published 2013, Updated 2014

American Thyroid Association (ATA)

Preliminary Guidelines 2014

American Association of Clinical Endocrinology (AACE) Guideline Update in Process















Several Blues Plans including:

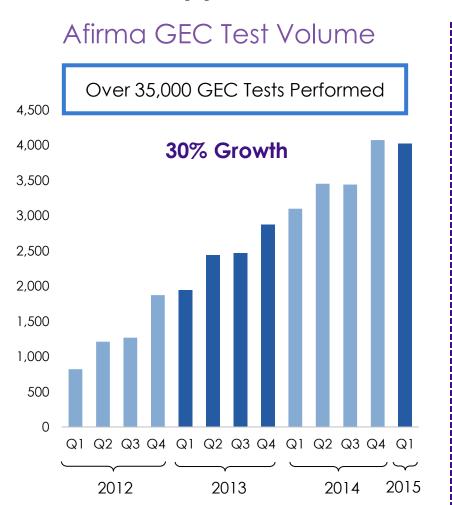
blue 🗑 of california



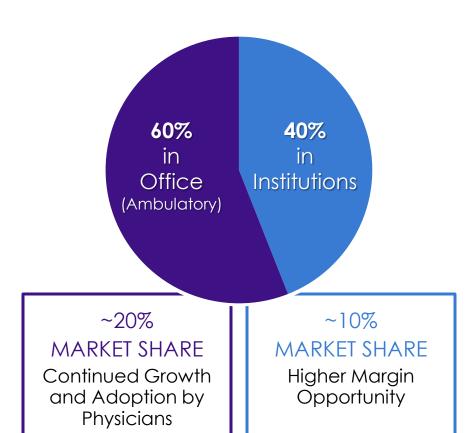




Continued Afirma GEC Volume Growth: Attractive Opportunities in the Institutional Segment



FNAs Performed Annually (U.S.)





Sales Force Is Positioned for Continued Afirma Growth

SCALE

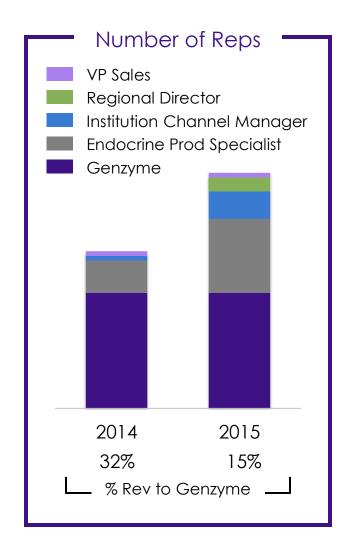
- Grew Veracyte Sales Force from 8 to 26 in 2014
- Continued Leverage with Genzyme Sales Force
- Expanded Marketing Campaigns, Physician and Patient Awareness Initiatives

FOCUS

- Fully Dedicated Team, Transaction Oriented Process
- Positioned to Target the Institutional Opportunity
- Genzyme Will Focus Efforts on Lead Development and Account Maintenance

EFFICIENCY

- Continued New Account Penetration
- Deeper Selling into Institutions
- Growth in GFC Test Volume







Pulmonary Diagnostic Solutions

U.S. LAUNCH APRIL 2015



Improving the Diagnosis of Lung Cancer without Surgery

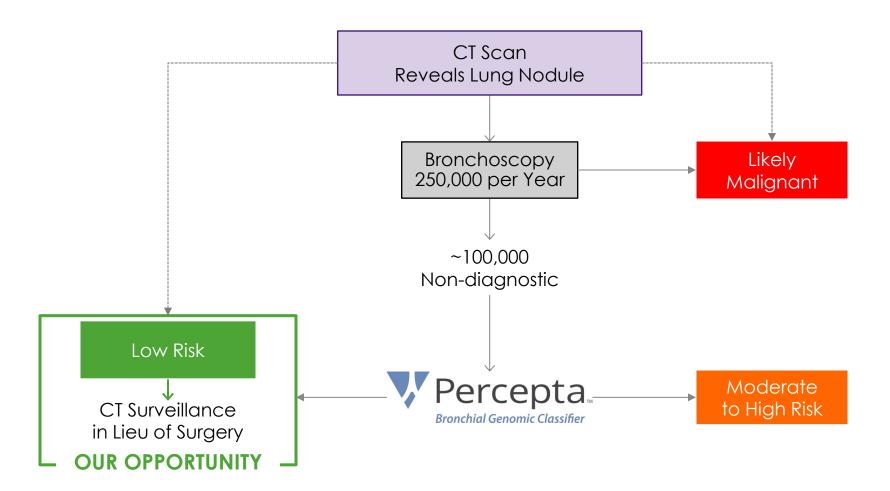
U.S. LAUNCH 2016¹

Interstitial Lung Diseases

Improving the Diagnosis of IPF without Surgery

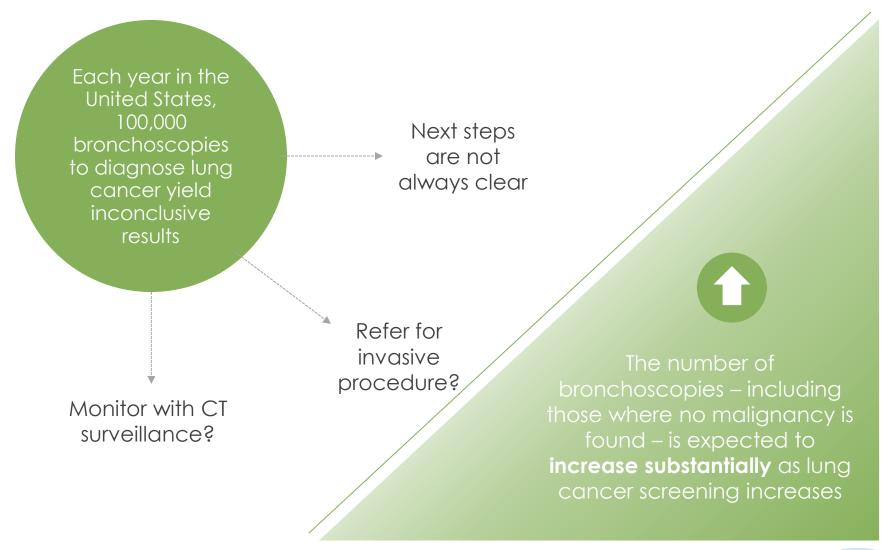


DIFFERENTIATED STRATEGY: Focused on the Right Point in the Clinical Pathway for Lung Cancer





Clinical Dilemma



PROPRIETARY SCIENCE: Innovative "Field of Injury" Genomic Technology



Peripheral Lung Nodules Are Difficult to Biopsy, Yielding High Rates of Non-Diagnostic Bronchoscopies



Smoking Alters the Epithelial Cell Gene Expression throughout the Airway



A Gene Signature of a Cytology Sample Collected from the Airway Can Determine Cancer Risk in a Peripheral Lung Nodule

Determining Who Is at Low Risk of Cancer WITHOUT Surgery or a Sample From the Nodule or Lesion Directly





PROPRIETARY SCIENCE: Thyroid Development Process Replicated for Lung Cancer Program We Are Here

Whole Genome Discovery and Algorithm Development



Two Clinical Validation Studies

BRONCHIAL BRUSHINGS

- Training Set n=299
- Affymetrix GeneST Array
- Supervised Learning Exploiting the "Field of Injury"
- 23 Genes
- Logistic Regression
 Classification Algorithm

- PROSPECTIVE Bronchial Brushing Samples
 - AEGIS I (n=298)
 - AEGIS II (n=341)
- Performance Shows High NPV >90%



Support with Robust Clinical Evidence

- Published AEGIS I and II CLINICAL VALIDATION STUDIES
- Performed ANALYTICAL VERIFICATION Studies to Transfer Test to CLIA Lab
- Initiate CLINICAL UTILITY and COST -EFFECTIVENESS STUDIES



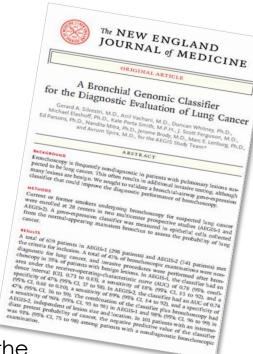
PROVEN CLINICAL VALIDITY

PERCEPTA BRONCHIAL GENOMIC CLASSIFIER

- Clinical Validation Studies Published May 2015
- Prospective, Multi-Center Studies
 - 28 Sites, 639 Patients (298 in AEGIS I and 341 in AEGIS II)
- 91% NPV in patients for whom there is the greatest uncertainty of cancer status*
- 89% Sensitivity
- 47% Specificity
- Improves diagnostic performance of bronchoscopy for the detection of cancer

CONCLUSION

Identifies Patients at Low Risk for Lung Cancer Following Inconclusive Bronchoscopy and Who Can Avoid Unnecessary Invasive Procedures



^{*} Assessed pre-bronchoscopy as intermediate risk (10-60%) patients

The Roadmap to Percepta Coverage and Reimbursement

On Track for Successful Commercialization

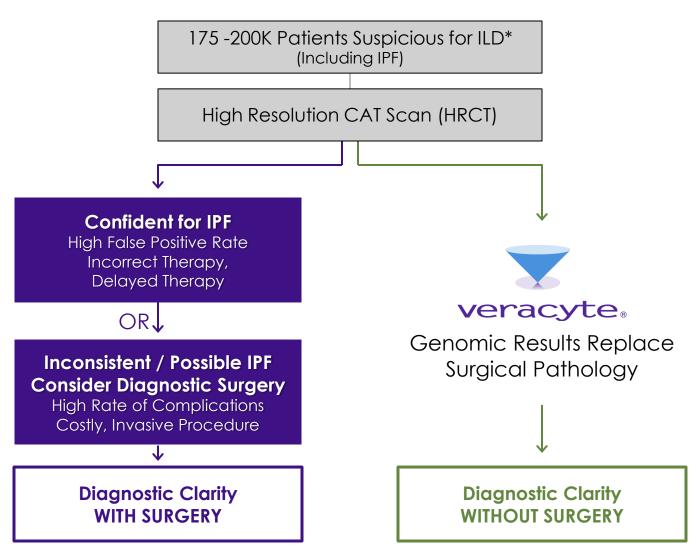
- Addressing a specific and compelling unmet clinical need
- Backed by proprietary and scientific foundation
- Analytical verification studies complete
- ✓ Two prospective, multi-center and blinded validation studies AEGIS I and II - published in The New England Journal of Medicine
- Study on Derivation of Percepta published in BMC Medical Genomics
- Early adoption with top thoughtleaders in pulmonology

Key Milestones Going Forward

- Additional published evidence including clinical utility and costeffectiveness
- Coverage and reimbursement anticipated in 2016
- Broaden access to patients across the United States
- Meaningful revenue in 2017



DIFFERENTIATED STRATEGY: Replacing Surgical Pathology with Transbronchial Biopsy Genomic Classifier







PROPRIETARY SCIENCE: Thyroid Development Process Replicated for IPF Program

We Are Here

Whole Genome Discovery and Algorithm Development

SURGICAL TISSUE

- Banked ILD Surgical Tissues (n = 309)
- Local Clinical Diagnosis and Some with Expert Surgical Pathology Review

MACHINE LEARNING ALGORITHMS

- Microarray and Deep RNA Sequencing
- Support Vector Machines



Product Development and Clinical Validation

- PROSPECTIVE
 Bronchoscopy Sample
 Collection
- >25 Sites in United States and Europe
- Diagnoses by Expert Pathologist and MULTI-DISCIPLINARY TEAM (MDT)
- Further Assay and Algorithm Development
- Lock Test and Algorithm



Support with Robust Clinical Evidence

- ANALYTICAL Verification
- Prospective, Multi-Center CLINICAL VALIDATION
- CLINICAL UTILITY and COST-EFFECTIVENESS Studies



Financial Highlights

Afirma Commercial Success
Strong Revenue, FNA and GEC Volume Growth

Positioned to Achieve Afirma Profitability
Reimbursement Rate Expansion
Increase in Institutional Volume and Penetration

Upside Potential from Percepta and Franchise Expansion

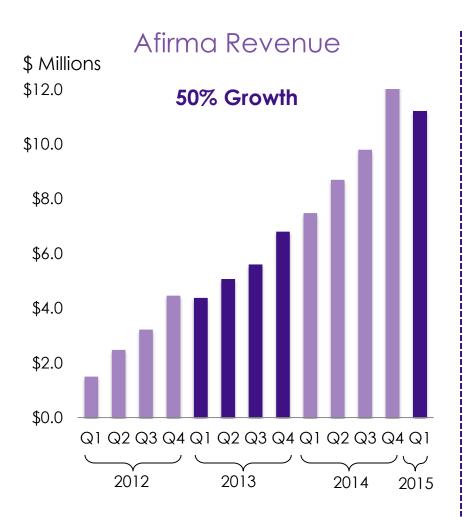
Strong Financial Position

Over \$65M Cash as of March 31, 2015 (pro forma for PIPE). Can Substantially Progress All 3 Products

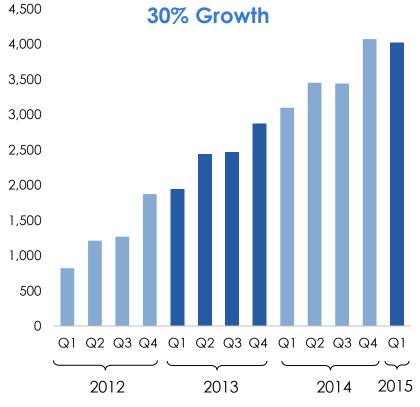




Strong Revenue and Volume Trends



Afirma GEC Test Volume





Experienced Team with Track Record of Success

BONNIE ANDERSON	President and Chief Executive Officer	BECKMAN COULTER
SHELLY GUYER	Chief Financial Officer	J.P.Morgan Hambrecht & Quist
JULIE A. BROOKS	EVP, General Counsel and Secretary	Bayer Conceptus Inc.
CHRISTOPHER M. HALL	Chief Operating Officer	CELERA
GIULIA C. KENNEDY, PHD	Chief Scientific Officer	CHIRON MILLENNIUM
RICHARD T. KLOOS, MD	Senior Medical Director, Endocrinology	Medical Center
J.A. THORSON	EVP, Corporate Strategy and Business Development	VAR AN



Execution for 2015: Corporate Milestones

Afirma Market Penetration



- ~50% YoY GFC Test Volume Growth
- ~30% YoY FNA Samples Received Growth
- Publication of Final ATA Guidelines Expected in 2015
- AACE Guidelines Expected in 2015

Additional Positive Coverage Decisions and In-Network Contracts



Focus on Blues

Mid Year Commercial Launch of Lung Cancer Test



Publication of Two Validation Studies Including AEGIS I and II (New England Journal Medicine)

- ✓ AEGIS Data Presentation at May ATS Meeting
- Publication of Analytical Verification Studies
- Commencement of Patient Testing in CLIA-Certified Laboratory (April 2015)
- Initiation of Clinical Utility Studies

Advance IPF Program



Presentation of IPF Data on Bronchoscopy Biopsies at May ATS Meeting



Veracyte

LARGE MARKETS GROWING FRANCHISE

ATTRACTIVE FINANCIALS

STRONG TEAM

Proven Molecular Cytology Model









Molecular Cytology That Transforms Patient Care