

Liquid Biopsies Next Generation Cancer Molecular Diagnostics

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Chief Executive Officer

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Forward Looking Statements

Statements pertaining to future financial and/or operating results, future research, diagnostic tests and technology under development, clinical development of diagnostic tests, and potential opportunities for OncoCyte Corporation and the diagnostic tests it is developing, along with other statements about the future expectations, beliefs, goals, plans, or prospects expressed by management constitute forwardlooking statements. Any statements that are not historical fact (including, but not limited to statements that contain words such as "will," "may," "believes," "plans," "anticipates," "expects," "estimates") should also be considered to be forward-looking statements. Forward-looking statements involve risks and uncertainties, including, without limitation, risks inherent in the development, testing, marketing and/or commercialization of potential diagnostic tests, including developing or obtaining the resources and capabilities required to do so, uncertainty in the results of clinical trials, need and ability to obtain future capital, and maintenance of intellectual property rights, need to obtain approvals from federal and state regulatory agencies, and uncertainty as to reimbursements or coverage from third party payers such as Medicare, health insurance companies, and health maintenance organizations. Actual results may differ materially from the results anticipated in these forward-looking statements and as such should be evaluated together with the many uncertainties that affect the business of OncoCyte, particularly those mentioned in the Risk Factors and other cautionary statements found in the registration statement on Form 10 and the Information Statement included therein as an exhibit, filed by OncoCyte with the Securities and Exchange Commission. OncoCyte disclaims any intent or obligation to update these forward-looking statements and/or this presentation, including but not limited to any changes resulting from changes in fact or circumstances.

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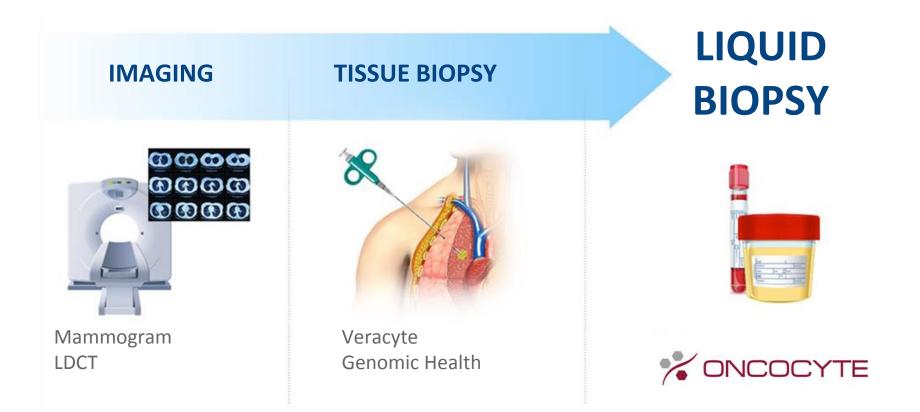


Investment Highlights

- Positioned to capitalize on standard of care moving to liquid biopsy
- Addresses large unmet needs for early, accurate diagnosis in multiple cancers
- Initial focus on lung, one of the largest markets and a national health priority
- Current lung cancer standard of care is inaccurate, risky, and expensive
- Strong clinical data potentially positions OncoCyte to develop standard of care
- Compelling value proposition for payers, physicians, and patients
- On track for first product launch
- Deep product pipeline leveraging core R&D competencies
- Experienced leadership team with background in commercialization

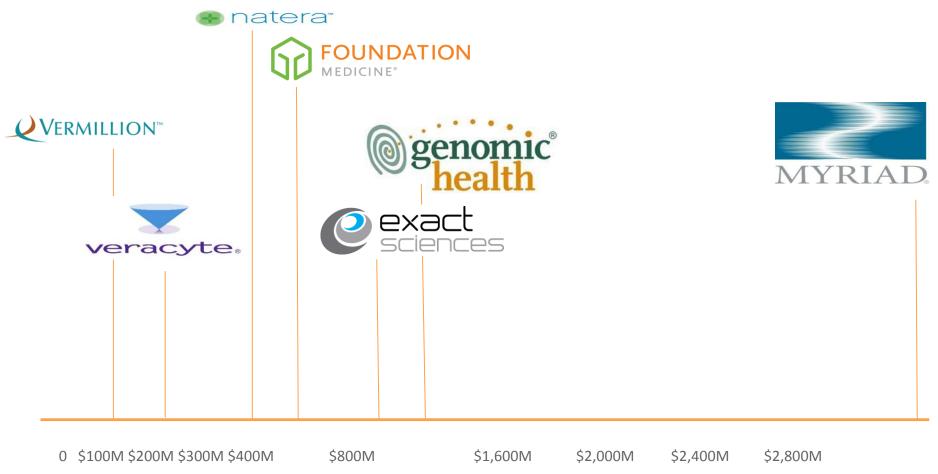


Molecular diagnostics are evolving toward non-invasive liquid biopsies





In some cases based on incremental improvements and/or small markets



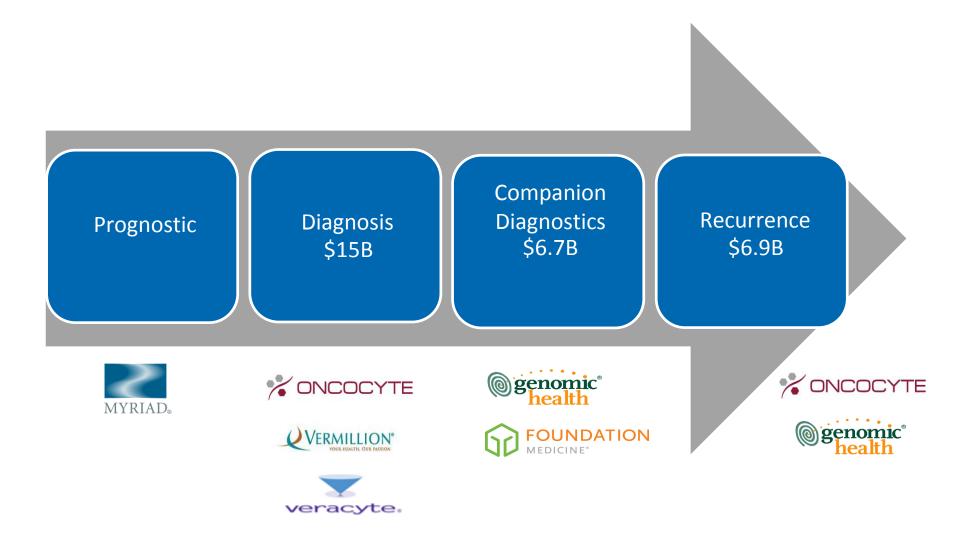
Market cap on 12/9/2015

Market capitalization

OncoCyte is focused on the largest segment and the biggest market opportunity

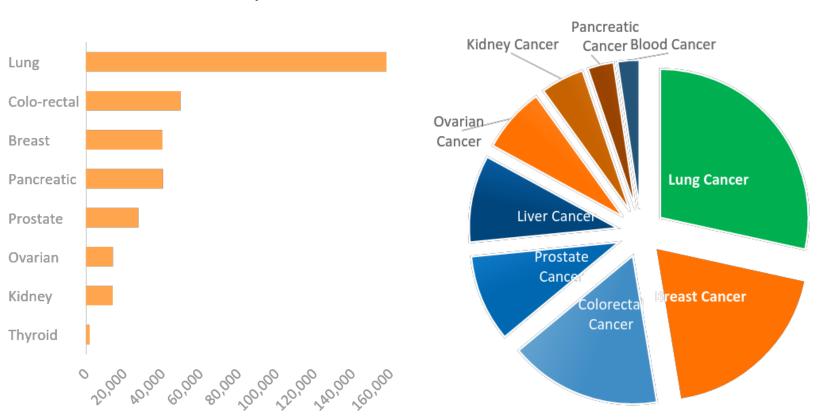


OncoCyte is focused on early diagnosis – the largest market segment, but with low competition





Most cancer deaths each year in the U.S.



Largest % of global diagnostics revenue

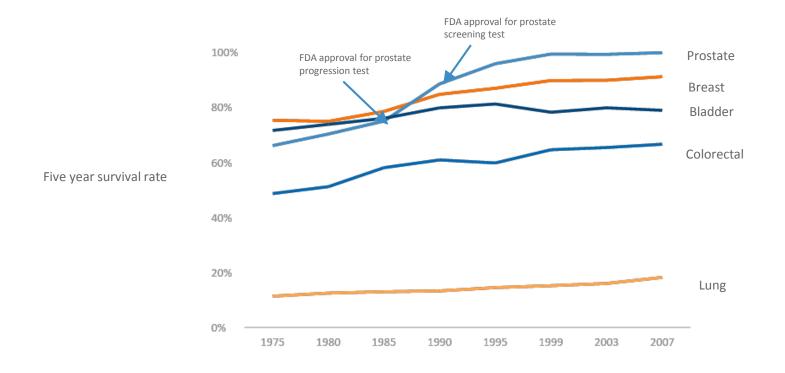
Cancer Diagnostics Market: Global Industry Analysis, Size, Share, and Forecast 2014-2020, Transparency Market Research Diagnostics include both imaging and molecular diagnostics SEER Stat fact Sheet Estimated deaths 2015



Lung opportunity driven by poor outcomes with little improvement over the last 40 years

Lung cancer is typically diagnosed at later stages, limiting survival rates

57% of lung cancer diagnoses are made in stage IV

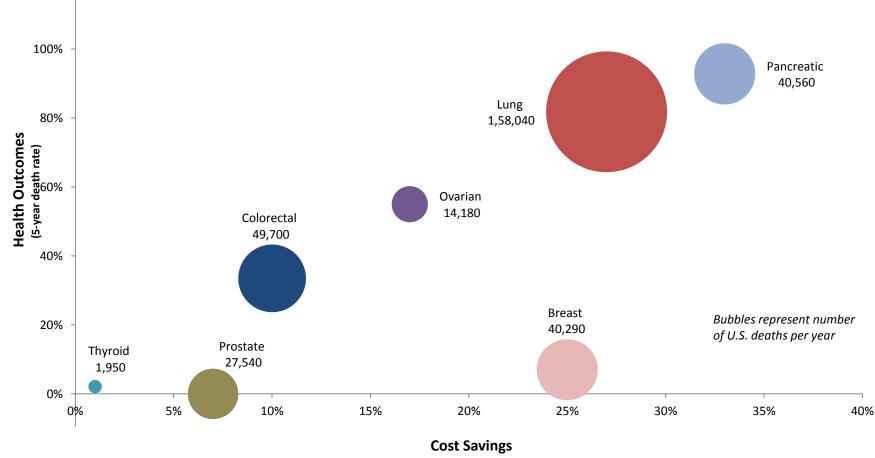


Sources: Cancer SEER Stat Fact Sheets NCCN Guidelines Lung Cancer Screening 2/2014 USPSTF Screening for Lung Cancer



Lung cancer diagnosis is the highest unmet need

The most lethal cancer with one of the worst survival rates, but one of the poorest standards of care



Probability of false positive test under current standard of care (leading to unnecessary and expensive follow-up procedures)



Early detection of lung cancer is now a national health priority because it has the highest death rate

Better diagnosis will increase the survival rate and save lives

December 2013

- USPSTF guidelines recommend annual LDCTs for patients with 30 pack-year history
- 7-10M Americans

February 2015

• CMS announces Medicare coverage of LDCTs

However LDCT has a high rate of false positives

- 25% of all LDCTs are indeterminate, requiring additional procedures
- But 96% of indeterminate LDCTs turn out to be benign – false alarms
- So 96% of follow up procedures are unnecessary









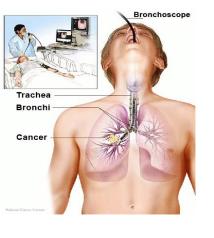
Follow up procedures are also expensive

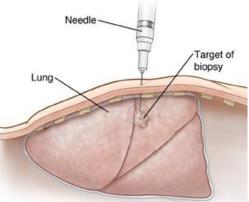
- Biopsies via bronchoscopies, surgery, needle biopsy
- Frequent follow up LDCTs (radiation exposure)

Lung biopsies are much riskier than other types of biopsies, and deaths could be avoided:

- 0.5 to 1% mortality (600 to 1,300 annual deaths averted)
- 4-20% major complications (5,000 to 26,000 fewer events annually)
- 2-15% collapsed lung (2,600 to 20,000 fewer events annually)

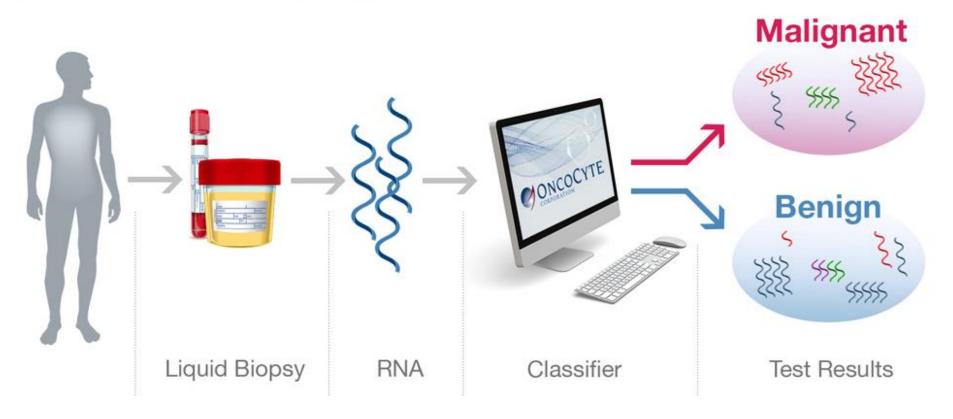
For an average patient a lung biopsy has a **higher likelihood** of leading to a serious complication than of confirming lung cancer





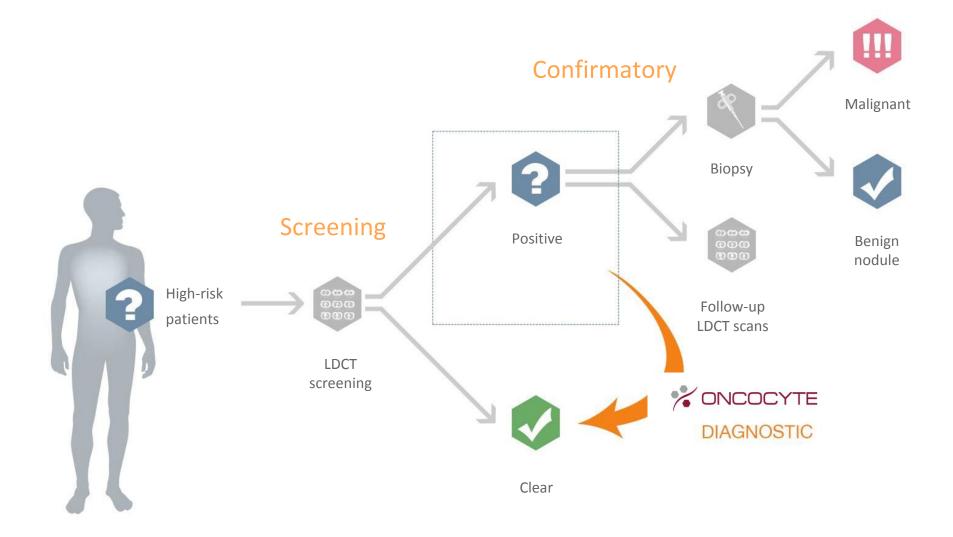
Pipeline diagnostics based on platform with commercial advantages

Diagnostic Strategy



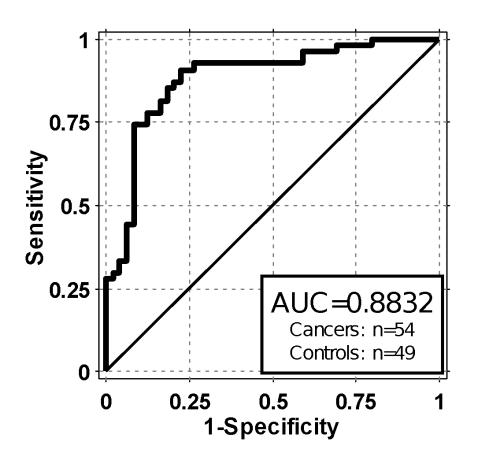


OncoCyte's confirmatory diagnostic solution





OncoCyte's preliminary test shows strong performance



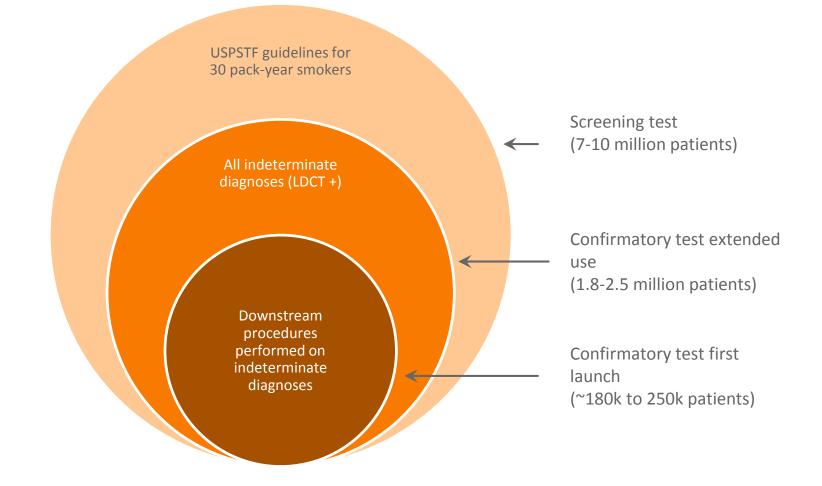


- Bioinformatics lab of Dr. Louise C. Showe
- 8+ years of developing blood-based tests for lung cancer
- Significant sample access (>2000 samples and ongoing collection)
- OncoCyte exclusive options and ongoing SRA
- Finalizing the licensing agreement
- Pivotal trial underway

- Prototype classifier presented at American Thoracic Society in 2015
- Sensitivity: 76%
- Specificity: 88%



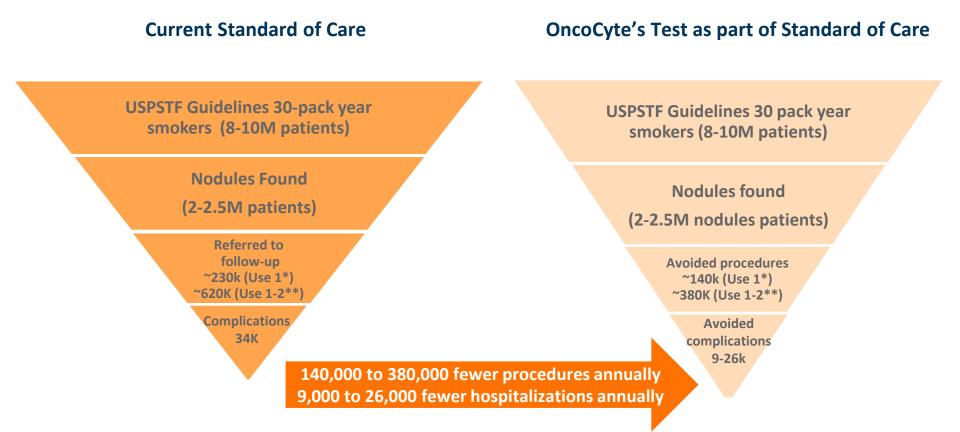
Large market opportunity for lung tests



TAM numbers based on company estimates and secondary data

High clinical utility – the potential for fewer risky procedures and significant cost savings

OncoCyte's test could result in \$1.4B to \$4.0B in annual U.S. cost savings



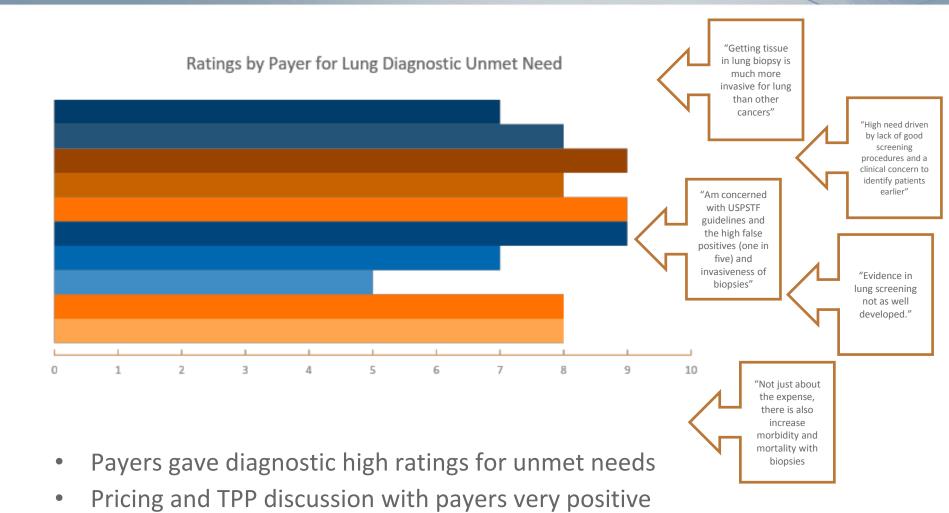
*Use 1 - Confirmatory test first launch, Lung RADs 3 and 4 (see slide 15)

**Use 1 and 2 - Confirmatory test first launch and expanded use, Lung RADS 2,3 and 4 (see slide 15)

Assumptions: 10M patients screened, 25% positive results, molecular diagnostic with 65% specificity (OncoCyte test may have higher or lower specificity); for Use 1 and 2 all positive screens referred to downstream procedures including repeat LDCTs, PET scans, bronchoscopies, surgical biopsies, with 15% complications and associated hospitalization costs

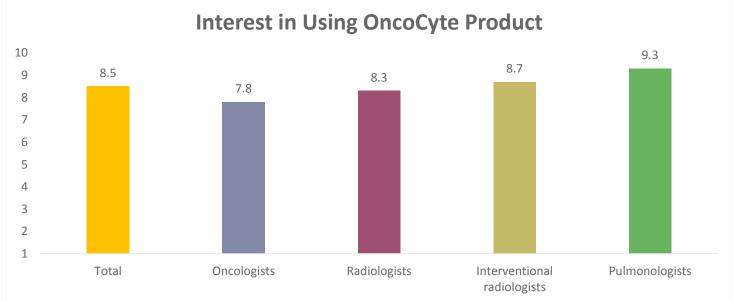


Compelling proposition for payers



Asked of 10 Commercial, Managed Medicaid and Managed Medicare payers representing 20M covered lives Q8: Now I would like to ask what is your perception of the overall unmet need for certain oncology screening diagnostics or procedures. On a scale of 1 to 10 where 1 is no unmet need and 10 is significant unmet need for an improved screening procedure/diagnostic

Compelling proposition for prescribers



- Interest in using the OncoCyte test is very high with a mean rating of 8.5 out of 10
- Pulmonologists expressed highest interest at 9.3, followed by interventional radiologists at 8.7
- Reasons provided for high ratings:
 - Useful for smaller nodules with high risk factors
 - Provides additional accuracy and benefit
 - Avoid biopsies
 - Non-invasive blood test
 - Provides clinical utility

18 Survey of 30 in-depth interviews with clinicians fielded in Sept/Oct 2015. Question asks On a scale from 110 where 10 is very interested, how interested would you be in utilizing Test X?



Commercialization strategy addresses all key stakeholders



Provider

- Determinate diagnosis
- High sensitivity
- High specificity
- Reduce unnecessary
 procedures

Patient

- Earlier detection
- Improved outcomes
- Reduce anxiety over indeterminate finding

Payer

- Improved health outcomes
- Fewer unnecessary procedures
- Reduce overall costs

Marketing <u>Strategy</u>

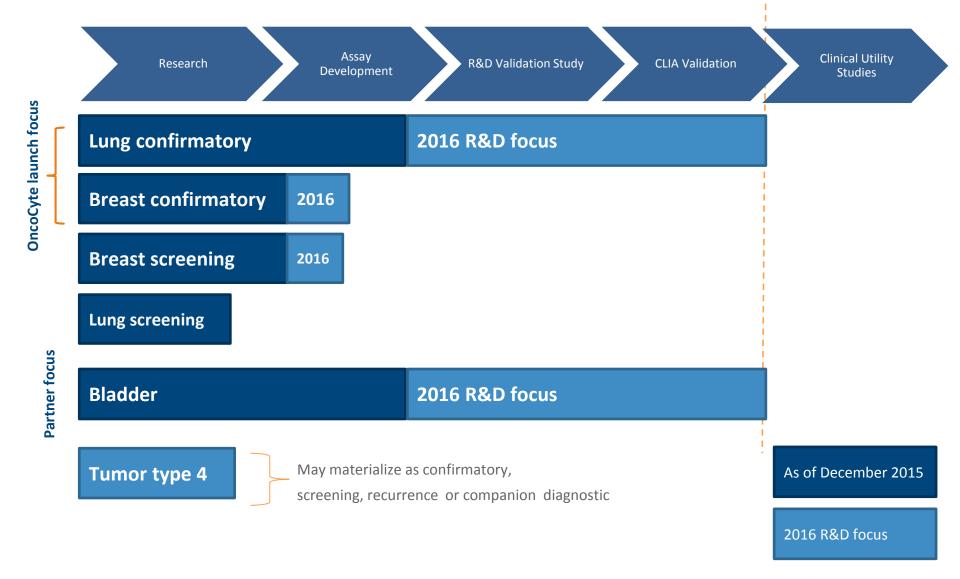
- Specialty sales force
- TPP refinement via market research
- Practice guidelines
- Peer review journals
- KOL influence

- Reimbursement support out of pocket
- Increase awareness to increase LDCT uptake
- Patient friendly test report

- Pricing vs comparator
- RWE clinical utility studies
- CMS 1st coverage focus
- 5 Large health plans

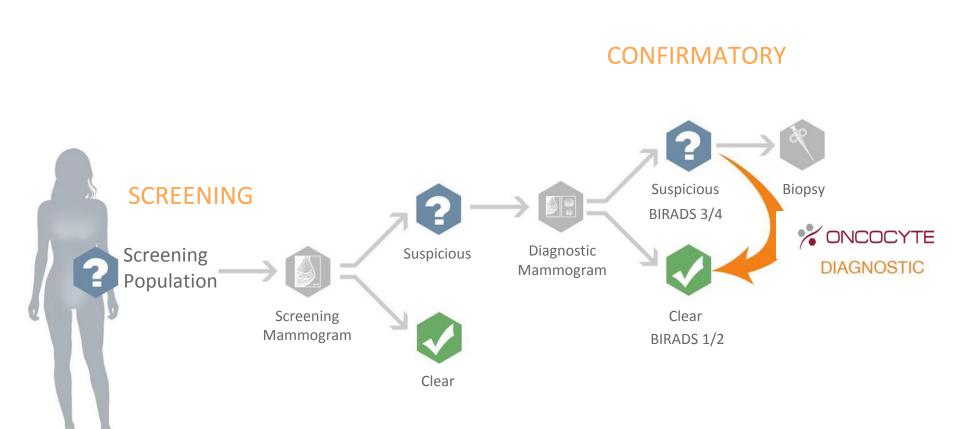


OncoCyte's deep product pipeline



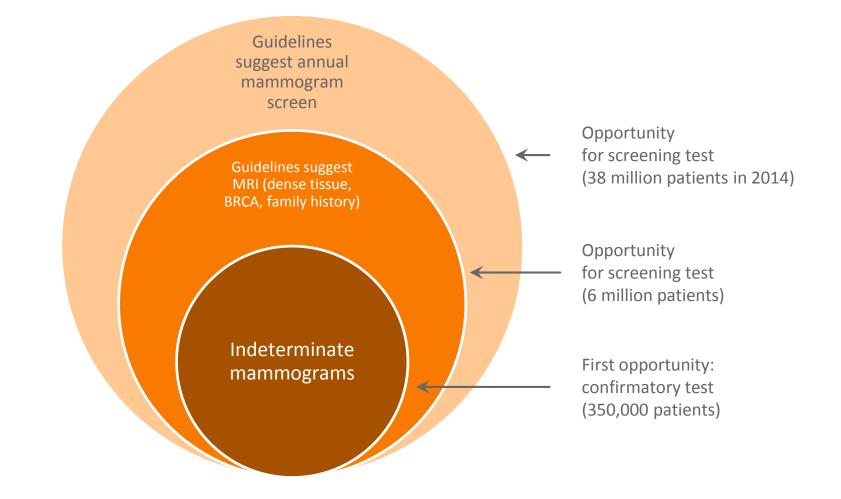


Breast cancer confirmatory diagnostic in early stage development





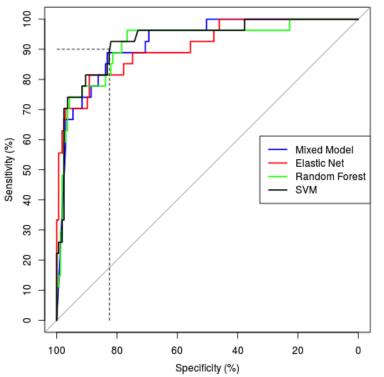
Large market opportunity for iterative breast cancer diagnostic tests



TAM numbers based on company estimates and secondary data



Potential to partner development and/or commercialization of bladder cancer test

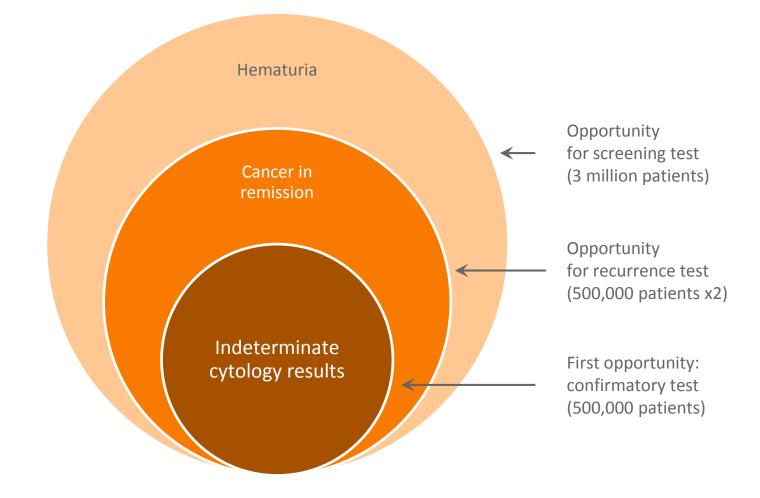


ROC AUC = 0.91 Sensitivity = 90%

Specificity = 83%



Large market opportunity for bladder cancer diagnostic tests



TAM numbers based on company estimates and secondary data



Management team with commercial experience

	Position	Experience
William Annett	CEO	CEO BioFx Labs; CEO Corra Life Sciences; Managing Director Accenture Life Science; Led Commercial Strategy, Project Finance Genentech; Harvard MBA
Karen Chapman	VP Research	Advanced Cell Technology; Origen Therapeutics; Geron Corporation; Ph. D. Johns Hopkins University School of Medicine
Lyssa Friedman	VP Clinical and Regulatory Affairs	Veracyte VP Clinical Operations, Telomere Diagnostics, VP Clinical Development Carmenta Biosciences, McKesson Oncology Network, Oncology RN
Lyndal Hesterberg	VP Development	CEO BaroFold; Carmenta Biosciences; CTO Crescendo Biosciences; EVP Thermo BioStar; Senior Director SomaLogic
Kristine Mechem	VP Marketing	Business Analytics Abbott Labs, Market Planning Genentech, Managed Care Consulting, VP Marketing and Business Development Corra Life Sciences
William Seltzer	VP Clinical Services	Lab Director Veracyte, Illumina, Counsyl, Athena Diagnostics
Russell Skibsted	CFO	CFO BioTime; CFO Proove Biosciences; Managing Director and CFO RSL Ventures, CFO Aeolus Pharmaceuticals; CBO Hana Biosciences; Portfolio Management Partner Asset Management Company



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