

Median Technologies

Corporate Update

January 2022



European Rising Tech
LABEL
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Innovation Is in Our DNA



"Many diseases, including cancer, do not kill if diagnosed early"

We help conquer cancer and other health-threatening diseases through routine Al-based imaging tests and imaging services for drug development

Our Growth: Powered by proprietary technology, strong KOL connections, and medical, scientific, technology partnerships Our People: As of Dec 2021, 190+ employees worldwide (EU, US & China), 30% working in R&D
Our locations: HQ in France with subsidiaries in the US and in China

Our 2 Business Units:

- iCRO: image management for oncology trials
- iBiopsy®: Imaging platform for Albased biomarker discovery



Company View



Yan Liu, MD, MSc, PhD Chief Medical Officer

- Board-certified radiologist
- Biomarker expert with more than 15 years of clinical research experience
- Former head of translational research, radiotherapy, and imaging department at EORTC





Fredrik Brag Chief Executive Officer and Founder

- Co-founded the company in 2002, bringing years of technology company expertise gained in business development, fundraising, and IPOs
- Previously served as board member and Senior Executive VP of Health Center/ Focus Imaging



Corporate Support

Jean-Christophe Montigny

Chief Financial Officer



iCRO Business Unit Nicolas Dano Chief Operating Officer



iBiopsy® Business
Unit
Thomas Bonnefont
Chief Operating and
Commercial Officer

Board of Directors



Bringing significant industry, medical, financial and strategic expertise to the company



Oran Muduroglu *Chairman*



Fredrik Brag

Director



Kapil Dhingra *Director*



Oern Stuge *Director*



Tim Haines *Director*

2021 Key Performance



As of December 31, 2021

2021 revenue at €20.5M

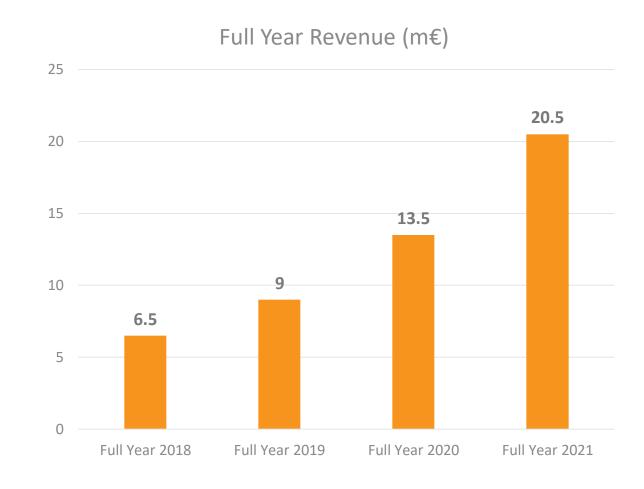
 An increase of 52% compared to 2020 revenue (€13.5M).

Order backlog at €58M

 An €6.3M increase compared to December 31, 2020.

Cash and cash equivalents at €39M

• Cash position strengthened by the capital increase by private placement finalised on March 25th, 2021 for an amount of €28.1M and by the exercise of 1,344,444 warrants between July 1 and September 29, 2021, for gross cash funds of over €6M.





iBiopsy®

"Many diseases do not kill if diagnosed at their earliest stage"

We are developing the next generation imaging tests to help:

- Detect, diagnose & monitor early-stage cancer patients
- Detect, diagnose & monitor early-stage NASH patients



iBiopsy® Platform: Image Sequencing, Integrated Al



Help conquer cancer through routine imaging tests applying AI, advanced analytics and cloud solutions



The iBiopsy® platform leverages Median's expertise and capabilities in:

- Imaging technology
- Al and data science
- Clinical development
- Regulatory and reimbursement

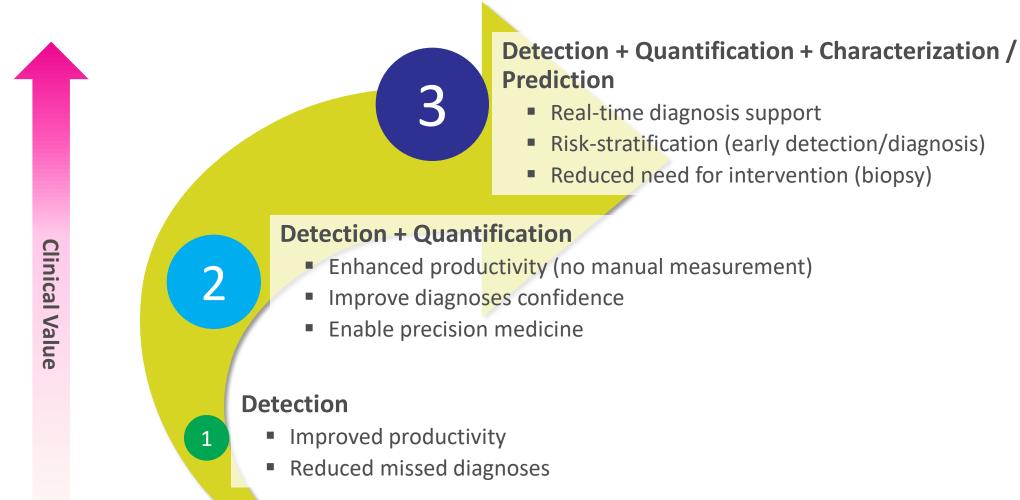
To:

- Drive the development of our Pheno-iDx portfolio of products
- Drive commercial adoption
- Lower healthcare costs
- Improve patient clinical outcomes

Our Differentiators



Whole organ & real time end-to-end AI cloud-based solution



Lung Cancer Screening



Lung cancer screening using LDCT has been shown to reduce mortality by 44 % (NELSON results) [1]

Facts and Figures

Leading cause of cancer mortality worldwide with an estimate of 1.8m deaths, accounting for 18% of all cancer deaths in 2020 [2]. Estimated to be 2.4m in 2030

5-year survival rate [3]:

• 5% for distant tumors (metastases)

Our proposed solution: Pheno iDx LCS

- Build a cloud based end-to-end approach performing both localization and lung cancer risk categorization
- Replicate the radiologist's workflow, including full assessment of LDCT volume, comparison to prior imaging when available and calibration against biopsy-confirmed outcomes
- Demonstrate the potential for deep learning models to increase the accuracy, consistency and adoption of lung cancer screening worldwide

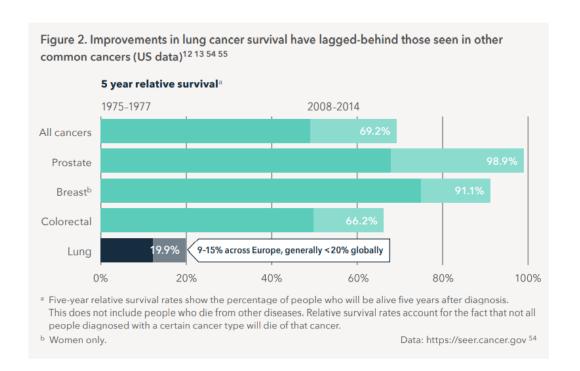
National/ supranational LCS programs		Reimbursement procedures	Target population	Test ASP	Annual TAM
US	Yes – USPSTF screening guidelines	Yes – Reimbursed by CMS	Based on NLST criteria: 14.12m individuals eligible for lung cancer screening	\$100-500	\$1.4 – 7B per year
Europe	Under discussion at EU level	Under discussion	Based on NELSON criteria: 34m individuals considered at risk	\$100-500	\$3.4 – 17B per year
China	N/A yet	N/A yet (general population)	107m individuals eligible	\$100	\$10.7B

Unmet Medical Needs - A Disease We Need to Detect Early

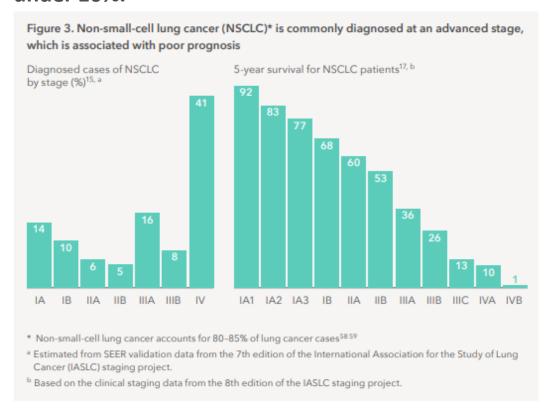


The relevance of early prognosis and diagnosis of lung cancer

Prognosis for lung cancer is poor compared with most other cancers, largely due to a high proportion of cases being detected at an advanced stage.



Around 20% of people with lung cancer are diagnosed at stage I, when their likelihood of surviving 10 years is 92% (*I-ELCAP study*), compared with more than 40% of people being detected at stage IV, when their likelihood of surviving 5 years is under 10%.



Lung Cancer Treatments

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- Surgery to remove tumors: lobectomy, pneumonectomy, segmentectomy
- Chemotherapy drugs to shrink or kill cancerous cells
- Radiation therapy
- Targeted therapy (or biological therapy)
 to inhibit molecular pathways or mutant
 proteins that are critical to tumor growth:
 monoclonal antibodies, small molecule
 drugs

The next big hope:

 Immunotherapy for early-stage lung cancer to stimulate the patient's own immune system to recognize cancer cells as foreign bodies and destroy them



Stage	Description	Surgery	
Stage I a/b	Tumor of any size is found only in the lung		
Stage II a/b	Tumor has spread to lymph nodes associated with the lung	Surgery	
Stage III a	Tumor has spread to the lymph nodes in the tracheal area, including chest wall and diaphragm	Chemotherapy followed by radiation or surgery	
Stage III b	Tumor has spread to the lymph nodes on the opposite lung or in the neck	Combination of chemotherapy and radiation	
Stage IV	Turnor has spread beyond the chest	Chemotherapy and/or palliative (maintenance) care	

Source [4]



Cutting-edge performance with innovative deep learning algorithm

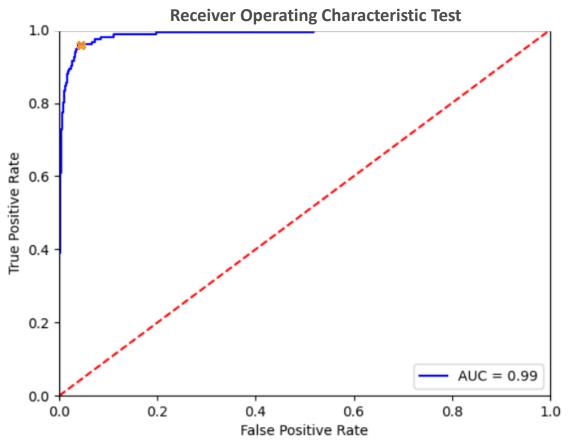
Nodule Characterization

Nodule-wise characterization on NLST sub-set

- > Cohort of 1,737 patients (16,249 nodules)
- > Training set: 1,239 patients (11,676 nodules)
- > Test set: 498 patients [330 benign, 168 malignant] (4,573 nodules)

Deep Architecture with outstanding performance

- > Test AUC = 0.99
 - Youden Index Operating Point*:
 Sensitivity = 95.3 %, Specificity = 96.2 %

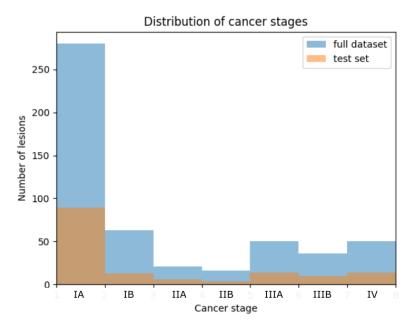


Outstanding KOLs feedback, unrivaled results, game-changer capacity



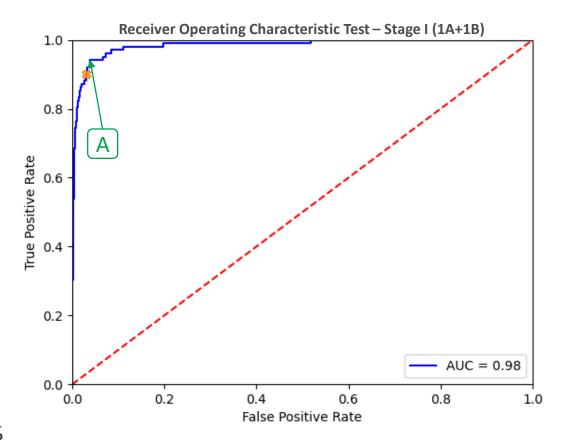
Stage 1 (1A+1B) lung cancer characterization performance

Unprecedented performance beyond the state of the art





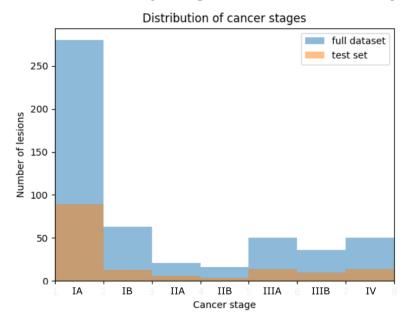
- Youden Index Operating Point *:
 Sensitivity = 89.2 %, Specificity = 96.8 %
- Operating point A: Sensitivity 93.1% at Specificity 96.2%





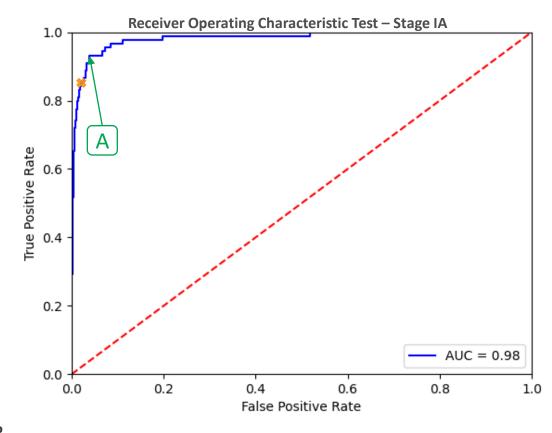
Stage 1A lung cancer characterization performance

Unprecedented performance beyond the state of the art



Test AUC = 0.982

- Youden Index Operating Point*:
 Sensitivity = 85.3 %, Specificity = 97.4 %
- Operating point A: Sensitivity 92.1% at Specificity 96.2%





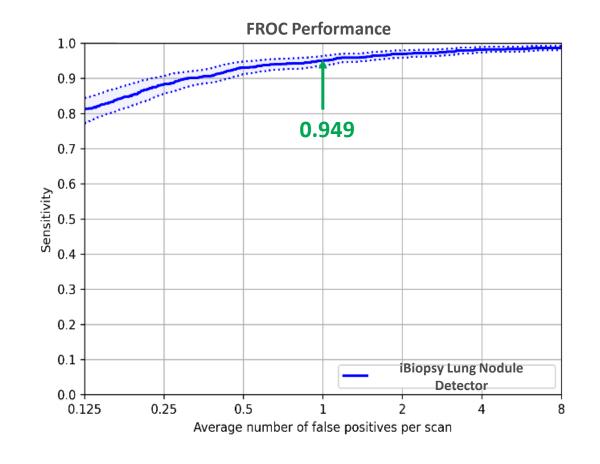
Automatic Lung Nodule Detection

LIDC/IDRI Cohort (Luna16 Grand Challenge)

- Lung CT scans of 888 patients annotated by 4 experienced radiologists for a total of 1,186 nodules
- Training set: 800 patients
- Test set: 88 patients
- Training/testing using 10-fold cross-validation method

Encoder-Decoder Deep Architecture

- Results obtained by aggregating the ten test folds
- Sensitivity of 94.9% for a false positive rate of 1 per CT scan.



Al Powered Software as Medical device – Competitive Data on Sensitivity, Specificity & FP/Scan



CADe Software as Medical Device

COMPANY	PRODUCT	TEST TYPE	SENSITIVITY	FALSE POSITIVE PER SCAN
MEDIAN TECHNOLOGIES	iBiopsy [®]	AI CADe	94.9%	1
RIVERAIN TECH	Clear Readt CT	AI CADe	83%	0.75
ARTERYS	Lung Al	AI CADe	93%	1.53
AIDENCE	Veye Lung Nodules	AI CADe	88%	1.04

CADx Software as Medical Device

COMPANY	PRODUCT	TEST TYPE	SENSITIVITY	SPECIFICITY
MEDIAN TECHNOLOGIES	iBiopsy [®]	AI CADx	95.2%	95.7%
OPTELLUM	Virtual Nodule Clinic	AI CADx	99%	28%

A radiological CADe device is "intended to identify, mark, highlight or otherwise direct attention to portions of an image that may reveal abnormalities during interpretation of images by the clinician." (Source: FDA)

A CADx device is "intended to provide information beyond identifying abnormalities, such as an assessment of disease." (Source: FDA)

Liquid Biopsy Data



Lung cancer detection by cancer stage

COMPANY	PRODUCT	TEST TYPE	SENSITIVITY	SPECIFICITY
GRAIL	GALLERI	LIQUID BIOPSY LUNG Early Detection	Stage I Stage II Stage IV 43% 81% 93%	99%
EXACT SCIENCE	CANCERSEEK	LIQUID BIOPSY LUNG Early Detection	All stages: 27%	99%

Sensitivity: the ability to correctly generate positive results for cancer patients (true positive rate)

Specificity: the ability to correctly generate negative results for non cancer patients (true negative rate)

Source: https://www.healthnewsreview.org/toolkit/tips-for-understanding-studies/understanding-medical-tests-sensitivity-specificity-and-positive-predictive-value/

HCC Early Detection/Diagnosis



Hepatocellular Carcinoma accounts for 90% of all primary liver cancers [5]

Facts and Figures

3rd leading cause of cancer mortality worldwide with an estimated 830,000 deaths, accounting for 8% of all cancer deaths in 2020 [2]

Trend: 1,1 million deaths projected in 2030 [2]

5-year survival rate: 20% [6]

High risk population [7]:

- Risk factors: HBV, HCV, NAFLD, cirrhosis, heavy alcohol use, obesity, T2 diabetes
- 328m individuals www are at risk, over
 27m in the US and Europe

Our proposed solution: Pheno iDx Liver

- Build a cloud based end-to-end approach performing both localization and HCC cancer risk categorization
- Replicate a more complete part of a radiologist's workflow, including full assessment of HCC volume, focus on regions of concern, comparison to prior imaging when available and calibration against biopsy-confirmed outcomes
- Show the potential for deep learning models to increase the accuracy, consistency and adoption of HCC screening worldwide

Market opportunity

Key assumptions	Annual Total Addressable Market (TAM)	
 Target population: 27m individuals in the US and EU ASP: \$100 per test 	US & EU alone: \$2.7B TAM	

NASH – Non-Alcoholic Steatohepatitis



NAFLD and NASH are a global silent epidemics [8]

Facts and Figures

NAFLD affects 25% of the global population. 20% of NAFLD patients progress to NASH, with a risk at developing cirrhosis and liver cancer [9]

Trends: NASH prevalence is increasing in Western countries and Asia [10]

Diagnosing NASH early is key, as, in its early stages, the disease is reversible by a change in eating habits and lifestyle

NAFLD Annual US economic burden [11]

- \$103 billion from direct medical care costs +
- \$188 billion in societal costs

Our proposed solution: Pheno iDx NASH

- Build a cloud based diagnostic test to assess early stage of NASH / Fibrosis to identify patients with reversible disease burden
- Show the potential for deep learning models to increase the accuracy, consistency and adoption of NASH diagnosis worldwide

Market opportunity

Key assumptions	Annual Total Addressable Market (TAM)
 Target population: 50m individuals in the US and EU have NASH 	US & EU alone: \$5B TAM
ASP: \$100 per test	

How Big Is the Market Opportunity, Market Segments M median

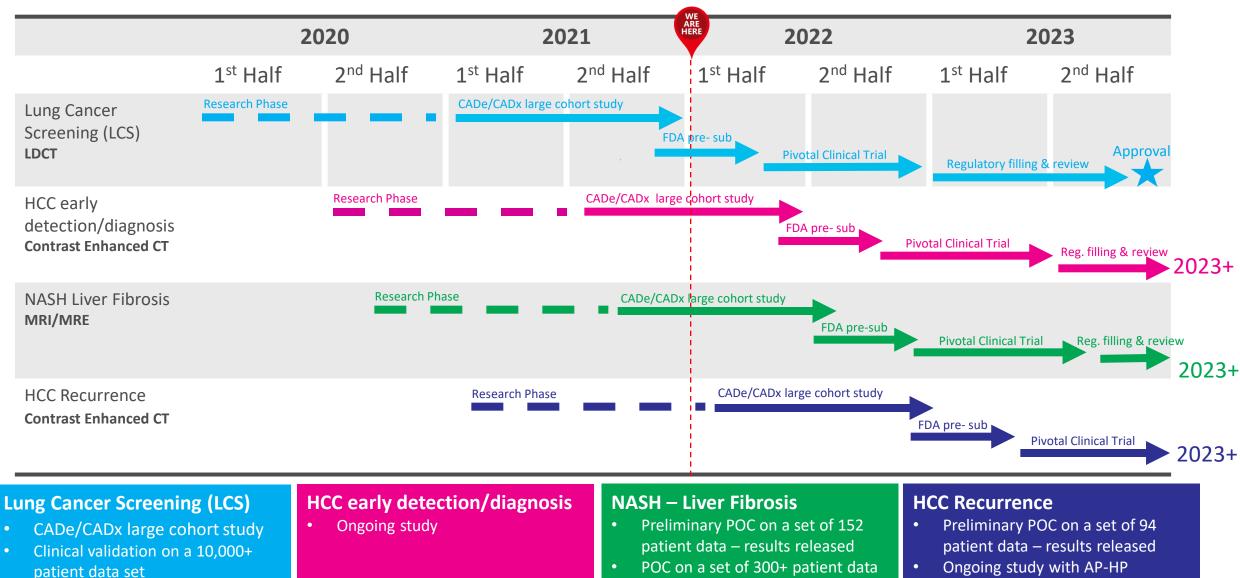


U.S. ANNUALT	OTAL ADDRESSABLE MARKET (TAM): \$30-\$130B
Early Cancer Detection/Screening	High Risk Detection/Screening	Cancer Recurrence Monitoring and MDR
~\$5-50B	~\$2-5B depending on the indication	~\$20-75B
 Key Assumptions 107MM individuals aged 50-79 \$100-500/test Annual or biennial testing Age expansion would increase TAM 	 Key Assumptions Examples include monitoring tools for smokers, liver disease, and esophageal cancer TAM is highly dependent on number of cancers included 	 Key Assumptions ~1.8MM new cancer dx/year Assuming use in new survivors, total survival penetration could be ~50% in 5 years ASP: ~\$1-3K/ test at varied intervals
Major Cancer Indications Lung, Breast, Colorectal, Liver, Ovarian, Esophagus, Pancreas and many others	Major Cancer Indications Lung, Liver, esophageal, hereditary	Major Cancer Indications Colorectal, Blood-based, Breast, Lung

Source: Cowen report, 2020

iBiopsy® Product Roadmap





(UC San Diego study)

Payer Coverage and Reimbursement



We can help payers reduce diagnostic and treatment costs while improving clinical outcome

We believe our test offer significant health economic values in the following ways:

- Detect early disease in high-risk individuals to increase chances of survival & treatments.
- Monitor & Predict disease recurrence in cancer survivors and NASH patients.
- Reduce the need for a repeat invasive biopsy.
- New guidelines for reimbursement are being implemented due to the impact of technology on diagnostics.
- FDA is also reviewing its guidelines for regulatory pathways for Al-based diagnosis solutions.



iBiopsy® Landscape: Comparables



	Liquid biopsy	Image biopsy	Market caps (as of January 3, 2022)
GUARDANT	/		NASDAQ: GH \$10.2B
GRAIL			Acquired by Illumina in Sep 2020 at \$8B
nferVision		/	Private Chinese company
EXACT SCIENCES			NASDAQ: EXAS \$13.4B
Median		/	EPA: ALMDT \$0.24B



iCRO Business

Solutions and Services for Image Management in Clinical Trials

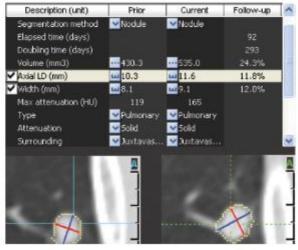


Imaging CRO Solutions and Services



Bringing more meaning to image data: iSee®







Identify

Quantify

Track

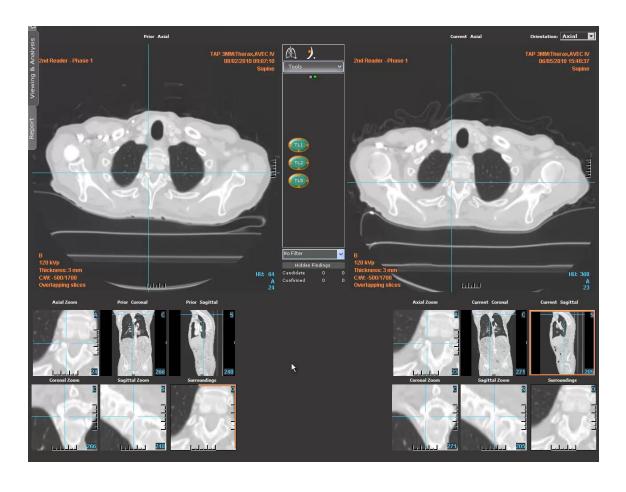
- Image analysis and data management platform
- Extracts more data from an image than any other system
- Delivers the highest quality data for better informed decisions

- Limit variability and increases reproducibility by automatically identifying, quantifying, and tracking lesions across all time points
- All readers use this advanced proprietary tool, accessed through a web-browser
- Based on a 510K FDA cleared platform

Imaging CRO Solutions and Services

median

Bringing more meaning to image data: iSee®



Experience by Phase

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145 studies

29

Phase I trials
Including 14 trials with Immunotherapy

21

Phase I/II trials
Including 13 trials with Immunotherapy

50

Phase II trials
Including 20 trials with Immunotherapy

2

Phase II/III trials
Including 1 trial with Immunotherapy

43

Phase III trials
Including 34 trials with Immunotherapy

As of 6/30/2021

Key business indicators:

- 40+ clients in the US and Europe
- 10+ clients in China, including the three Top 3 Chinese biopharmas
- 9 supported regulatory approvals
- 17,962 enrolled patients
- 78,738 quality-controlled timepoints
- 3 successful FDA inspections (2017, 2019, 2021)
- 5 Chinese NMPA inspections for New Drug Application approvals (4 completed in 2021)

iCRO Business Development Accelerator



Median Technologies confirmed as a preferred vendor by one of the Top 3 pharmaceutical companies in the world

- Renegotiation of terms of an existing Master Service Agreement (MSA)
 with this major big pharmaceutical company.
- The new scope of the MSA covers Phase III clinical trials for major indications in oncology and the terms are valid for 3 years.
- This partnership will contribute to sustain Median's future bookings and revenues growth.

iCRO Growth Opportunities (1/2)

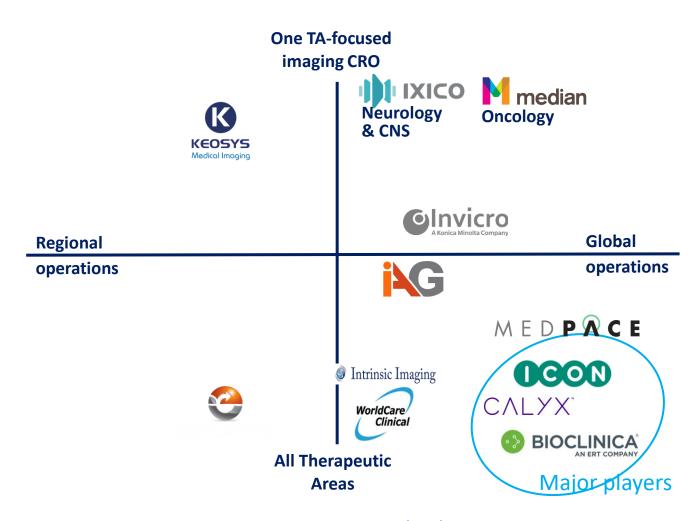


Landscape

- The global contract research organization (CRO) services market size was valued at USD 38bn in 2018 and is projected to reach USD 91bn by 2026 [13]
- The imaging CRO market size was valued at USD 1.3bn in 2020. The largest market segment is for oncology.
- On April 28, 2021, ERT and Bioclinica closed their merger in a \$7.8bn deal

Competitive positioning and differentiators

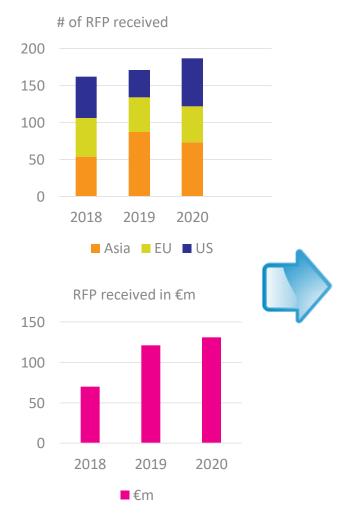
- Median is the only oncology-focused imaging CRO with a global footprint and partners with global CROs
- Strong technology differentiators with our proprietary platform, iSee® and evolutions
- Unique AI competitive advantages



Competitive imaging CRO landscape: Fragmented with 3 major players

iCRO Growth Opportunities (2/2)





iCRO Business Development Triggers

- 1 Access to RFPs
- 2 Win rate
- 3 Phase III #
- 4 Al offering

Tactics



- Develop partnerships with global CROs
- Increase repeat business with Top Pharmas
- Target Top 200 biotech companies

2020 Win rates

- Repeat Business: 52% (based on contract values)
- New clients: 14% (based on contract values)

Median Al Competitive Advantage



Provide additional insights for clinical trials

More & Better Efficacy Biomarkers

- Additional measurements on tumor pixel data (Radiomic or Multiparametric Analysis)
- Automated tumor detection & measurements to reduce variability (CAD)

Explainability for the Results

- Offer population fragility index (body composition)
- Offer comparison of a cohort to other trials (Analytic)

Imaging Biomarkers for Toxicity trials

- For phases I, help identify the Maximum Tolerated Dose
- For phases II & III, identify tolerance to the dose

Optimize the Drug Development Plan

- Identify true vs pseudo progression on 1 TP
- Identify responders vs non-responders
- Analysis of the radio-phenotypic impact of the molecule
- Interpretation and explanation of the clinical trial results
- Build companion predictive tests
- Build companion Dx tests

2022 and Beyond



iBiopsy®

- Early detection and diagnosis are key and have the potential to save patient lives
- Very strong push for non-invasive biomarkers from patients, regulatory agencies (FDA, EMA) and payers
- Continued clinical validations studies for Lung Cancer, HCC, NASH
- Clinical and technology partnerships for additional validation studies
- Major total addressable market
- A strong US market positioning

iCRO

- Major potential for growth in a very dynamic market
- Very strong technology differentiators for clinical trials: iSee®
- Strong position in the fast-growing global market





Our Core Values

Leading innovation with purpose

Combine the spirit of innovation with our passion and conviction to help cure cancer and other debilitating diseases.

Committing to quality in all we do

Be dedicated to quality in everything we do. Quality begins with us and we are committed to it.

Supporting our customers in achieving their goals

Listen to the needs of our customers and help make their goals our goals through our innovation, imaging expertise, superior services, and quality solutions.

Putting the patient first

There is a person at the other end of the images we analyze who is counting on us to do everything we can to help make them healthier.



European Rising Tech

www.mediantechnologies.com

Sources



[1]	https://www.healthimaging.com/topics/oncology-imaging/nelson-trial-ct-lung-screening
[2]	https://gco.iarc.fr/
[3]	https://www.lung.org/lung-health-diseases/lung-disease-lookup/lung-cancer/resource-library/lung-cancer-fact-sheet
[4]	https://slidetodoc.com/lung-cancer-overview-a-slide-presentation-for-oncology/
[5]	https://www.nature.com/articles/s12276-020-00527-1
[6]	https://www.cancer.net/cancer-types/liver-cancer/statistics
[7]	https://www.cancer.org/cancer/liver-cancer/causes-risks-prevention/risk-factors.html
[8]	https://www.nature.com/articles/s41575-020-0315-7
[9]	https://www.researchgate.net/publication/327427978 Global Perspectives on Non-alcoholic Fatty Liver Disease and Non-alcoholic Steatohepatitis
[10]	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7154715/ and https://www.the-nash-education-program.com/what-is-nash/
[11]	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6366581/
[12]	Biopharma 2019 ranking, based on revenue - https://www.fiercepharma.com/special-report/top-20-pharma-companies-by-2019-revenue
[13]	https://www.fortunebusinessinsights.com/industry-reports/100864