

## Report

# Diagnostics: Unraveling the Future

**July 2022** 





# Foreword





Indian diagnostic industry has emerged as a preferred play in India's growing healthcare sector, driven by attractive margins and good headroom for growth. The domestic diagnostic industry in FY21 was ~US\$ 10B and is expected to grow at a compounded annual growth rate (CAGR) of ~14% over the next five years. This growth will be primarily driven by increasing demographics, urbanization, penetration, and better realizations per test.

The diagnostic industry is characterized by a high degree of fragmentation with over ~100K labs. Of the US\$ 10B markets, standalone centers account for 48% market share, followed by hospital-based labs with 37% share, and national chains account for only 5% share. This fragmentation poses a challenge in terms of capability, scalability, and quality of labs, but on the other hand, it also provides an opportunity to consolidate newer business models to evolve.

While the pathology segment contributes ~57% to the diagnostic market share, radiology is importantly extensive at ~43% of the market, comprising tests like computed tomography (CT) scans magnetic resonance imaging (MRI),

Madhur Singhal Managing Partner & CEO color doppler ultra-sound scans, etc.

This report analyzes the current state of the diagnostic market and analyzes the key trends that we see emerging. These include a) Changing patient expectations from diagnostic players, b) Newer tests addressing critical and precise clinical needs, c) Non-traditional competitors entering the market, d) Newer patient-centric business models working around industry challenges, and e) Logistics becoming critical in the pursuit to serve customers at their convenience, and f) Use of technology and digital to improve customer experience, support clinical decisions and serve as a backbone of the business.

Our endeavor with this report is to understand, qualify and quantify the impact these trends will have on the Indian diagnostics market in short to medium term. We hope you find the report informative and look forward to continuing the discussion. We hope that this report will give you an insight into the underlying success factors to ride this wave of growth in the Indian diagnostics industry.



Aryaman Tandon Managing Partner & Co-Founder



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# Executive summary

Section	Key takeaways
	• Market size: Estimated market size in FY21 was US\$ 10B, of which 57% was pathology and 43% radiology; Biochemistry comprised ~20% of the market, and low-end radiology another ~22%
	• Market growth: Indian diagnostics market is projected to grow at a CAGR of 14% to reach US\$ 20B by FY26
Market landscape	• Significantly under-penetrated market: Pathology tests per 1000 population in India is 1,111 versus 5,924 in Brazil, 10,000 in Australia, and 20,958 in the USA; Number of CT, MRI tests per 1000 population in India was 36 compared to 53 in Brazil, 144 in the UK, 192 in Australia, and 407 in the USA
	• Highly fragmented and urbanized: Standalone centers and hospital-based labs (including government labs) have an 85% share of the market; urban areas account for 74% of the market
	• Reasonable penetration in Tier 2 and 3 cities in terms of number of labs: This indicates market readiness to expand and adopt more specialized tests and technologies
	• <b>GP driven market:</b> ~55% of the tests prescribed in out-patient settings are from General Practitioners and Gynaecologists
	1 Changing patient behavior – pricing, convenience, and reliability are the top three driving factors while selecting a diagnostic service provider
	Preference for convenience:
	<ul> <li>Home collection over walk-ins - ~75% of the customers prefer home collection over lab walk-ins and are willing to pay 75 -100 for home sample collection services</li> </ul>
	• <b>Easy access to reports:</b> Test tracking, report access through email, app, and other ways; Easy to read reports for customers; Longitudinal analysis of historical reports
Emerging trends in	Neighbourhood labs: Preference remains high for acute and doctor driven tests
diagnostics market	Customers seek reasonable pricing:
	• For self-initiated or wellness tests – preference is high for online platforms with competitive discounts
	• Preference for reliable service providers: Convenience driving customers towards more reliable branded chains
	2 Specialized wellness tests driving growth
	• Specialized tests: Comprises 15-22% by volumes and 40-45% by value; Molecular pathology poised to grow at 35-40% year on year
	<ul> <li>Wellness tests: Currently comprises 1-3% by volume and 10-15% by revenue; Growth likely to be driven by general wellness and condition-specific monitoring packages</li> </ul>
	• In addition, PoC and rapid tests have seen a wide acceptance during COVID and, going forward, are likely to witness wider acceptability with advancements in technologies



# Executive summary

Section	Key takeaways
Section Emerging trends in diagnostics market	<ul> <li>Key takeaways</li> <li>Playfield becoming more competitive <ul> <li>Due to attractive margins, players from adjacent service areas of the healthcare ecosystem have entered the diagnostics market and become more competitive. Examples include pharmaceutical companies (e.g., Lupin), Hospitals (e.g., Max, Aster DM, Sterling), Diagnostic service aggregators, telehealth providers</li> <li>Government is taking several initiatives to strengthen the public health infrastructure and make diagnostics more accessible and affordable With increasing competitive intensity in Metros and Tier-1, lab chains are undertaking aggressive expansion in Tier 2+ through asset-light models</li> <li>New business models</li> <li>New business models around teleradiology and telepathology to improve access, quality, and efficiency of diagnostics; Newer players include computational pathology solution providers and teleradiology service providers; Teleradiology was estimated to be a US\$ 356M market in 2020 and is likely to evolve into US\$ 700M market by 2025 growing at a CAGR of ~15%</li> <li>Network of partnerships: Diagnostics ecosystem has expanded from comprising only core equipment and reagent providers to include players offering lab automation, third party logistics &amp; ones offering tech-centered business models; With the decoupling of operating layers, models are evolving into a network of partnerships</li> <li>While still at its nascency, Insurance cover for out-patient care could propel a rapid growth</li> </ul> </li> <li>Supply chain innovation <ul> <li>Best in class sample logistics is fast evolving into a core enabler of a successful pathology business: Supply chain innovations in sample processing in both pre and post-analytical stages are levers of key differentiators among the service providers. The focus is on improving sample visibility and, reliability &amp; responsiveness of the supply chain</li> <li>Technology and digital</li> <li>Focus on improving customer experience through digitalized journeys</li> <li>Use of Al s</li></ul></li></ul>
	<ul> <li>While the considerable focus has been on leveraging digital to become efficient and deliver customer delight, many areas of opportunity remain unexplored</li> </ul>
Key challenges	• Key challenges facing the industry are across the regulatory, <b>fragmented market with a low focus on quality, commoditization and increasing competitive intensity,</b> nonaccess to specialized resources, and value-conscious Indian customers



# Executive summary

Section	Key takeaways
Future outlook	<ul> <li>While the industry is poised for healthy growth at a CAGR of 14% to reach US\$ 20B by FY26, diagnostic companies have certain imperatives laid out for them. These include:</li> <li>Growing their core: Omni-channel strategy, accretive value Tier 2, 3, and 4 city expansion, stitch network of partnerships for faster growth, introducing new products</li> <li>Expansion through inorganic route and in non-core: Expansion into adjacencies: e.g., Addition of capabilities for teleradiology and telepathology; integrated health offerings – e.g., wellness services; Data monetization or value add services</li> <li>Supply chain and operations: Improving service TAT and reliability, supply chain digitization to enhance supply chain visibility and reliability; usage of digitalization tools such as AI for process efficiencies</li> <li>Customer acquisition, experience, &amp; retention: fine-tuning digital journeys for customers and enhancing loyalty</li> <li>Bottom line improvement: With increasing competition and tests becoming more commoditized, there is a need for super-efficient operations to keep the bottom line healthy</li> </ul>

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# Overview of diagnostics market





In the Indian diagnostics market, biochemistry has the largest share of pathology, while low-end radiology is the largest in radiology





### **Compared to other leading countries, diagnostics is significantly underpenetrated in India**



Even for imaging tests such as CT and MR, there is significant headroom for growth when benchmarked with other countries

**CT and MR test under penetration in India** # tests per '000 population per year





# Standalone centers and hospital-based labs (including government labs) have an 85% share of the market; urban areas account for 74% share



Notes: \*Hospital-based labs in Institution type is inclusive of Government labs. Private and Government labs split is estimated at 75:25, and for market estimation price of tests are assumed at market prices instead of subsidized rates Sources: CRISIL reports, HDFC Securities report, Praxis analysis



# In OPD, general physicians followed by gynecologists account for the largest share of the diagnostics test prescriptions





# Standalone centers have a 48% share, followed by hospital-based labs at 37%; national chains have a 5% share, led by Dr. Lal PathLabs



Notes: Revenue for players has been estimated based on their market share in FY20. \*Hospital-based labs in Institution type is inclusive of Government labs. Private and Government labs split is estimated at 75:25, and for market estimation price of tests are assumed at market prices instead of subsidized rates Sources: Company filings, Annual reports, Tracxn, Press reviews, Analyst reports, Praxis analysis



The ecosystem has expanded from only core equipment and reagent providers to players offering lab automation, third party logistics & tech-centered business models



----> Transfer of material ----> Transfer of information or service



Tier 2 and 3 cities are reasonably penetrated with headroom for growth, indicating market readiness to expand and adopt more specialized tests and technologies



	Tier 1	Tier 2	Tier 3	Tier 4 & 5
Population (In M)	118	79	67	178

Notes: City tier classification criteria: Tier 1 – Population > 40 Lakhs, Tier 2 – Population 15 - 40 Lakhs, Tier 3 – Population 5 - 15 Lakhs, Tier 4&5 – Population < 5 Lakhs Sources: Just Dial scrape, AERB database, Praxis analysis



# **COVID-19** shaped the market – emphasizing the need for diagnostics & treatment, influencing consumer acceptance of PoCT & home collection

	Impact of COVID
Trust on home collection	• Home collection revenues (excluding COVID business) grew by <b>25-30%</b> for most of the national chains in <b>FY21</b>
Proliferation of molecular testing	<ul> <li>Astronomical growth in the number of NABL accredited molecular testing labs → from 40 in March 2020 to 1,690 in November 2021</li> <li>The additional capacity will remain in place as the pandemic subsides, which could potentially find multiple applications for the RT-PCR assay as the dominant method for diagnosing viral infections in India</li> </ul>
Adoption of digital solutions for improving customer experience	<ul> <li>Usage of apps (from aggregators as well as diagnostics chains) for booking tests increased multifold and is likely to increase as customers would continue to book tests online post COVID</li> <li>Several diagnostics chain players have improved their online presence and invested in automating and expanding the customer support team</li> </ul>
Usage of tele-diagnostics solutions	<ul> <li>Multiple players have implemented technology to allow their technicians and pathologists to read images remotely to drive better utilization of expert resources</li> </ul>

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# **Emerging trends**





### **Emerging trends in Indian diagnostics market**





Evolving patient behaviour

A Customers are increasingly seeking convenience, reliability and going for wellnessrelated tests



Sources: Primary research, Praxis analysis

Evolving patient behaviour



A For self-initiated tests & regular check-ups, online platforms are preferred; customers also desire additional value-added services while booking tests online

Online platforms are emerging as customer preference for selfinitiated and regular check-ups Majority of customers believe following additional value-added services can make their online diagnostic test experience better

Preferences of online platforms across tests	Self-initiated tests	Regular check-ups	Doctor prescribed Additional value-added services by customers while booking tests via online platforms		ers while booking tests
types				Transparent and systematic slot booking	
				process	
Online platforms				Consultation by certified medical professional	
Branded lab chains				at minimal cost	
regional chains)				Descriptive and user-friendly report format	
Other private					
standalone labs				Home sample collection facility	
Hospitals					
	G			Booking experience	

Emerging preference Low () () () () High

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Evolving patient behaviour

A Price, quicker access to reports & home collection facility are the primary reasons for the selection of diagnostic service provider

Reasons for preferring online platforms as diagnostics servic	e provider
Price competitiveness	
Quicker access to reports	
Convenience of at-home sample collection facility	
Quality of service being provided	
Accuracy of the reports	
Prominent brand name of the provider	
Hygiene factors	
Availability of tests within the hospital	٠
Safety procedures and practices of the facility	٠

Emerging preference Low () () () () High



Evolving patient behaviour

### ~75% of the customers prefer home collection over lab walk-ins and are willing to pay rupee 75 - 100 extra for the same





### • Consumers are increasingly adopting preventive and wellness related tests

Share of such tests is estimated to increase from ~10% to ~12% by FY26 at a CAGR of 18%

Prev thei	Preventative tests are projected to grow at a CAGR of 18% to increase their share in all diagnostics tests to ~12%			CAGR of 185	Growth drivers for preventative tests	
<b>Distribution of pathology tests by type</b> US\$ B, FY16-26P			CAGR CAGR FY16-21 FY21-26P		<ul> <li>Increasing awareness for personal immunity and preventive healthcare post COVID-19</li> </ul>	
	3.1	5.8	11.7	13%	14%	<ul> <li>Pise in disposable income among the Indian population</li> </ul>
	8%	10%	12%	18%	18%	(Section 80D of Income Tax Act allows income deduction of rupee 5-7K for preventive health check-ups)
						• Government's push towards developing new models for health and wellness as part of the National Health Mission
	92%	90%	88%	12%	14%	• Corporate sectors are now encouraging employees to undergo preventive healthcare testing in order to boost workplace productivity
						<ul> <li>Focus of online aggregators is moving towards the preventive and wellness segment of diagnostics</li> </ul>
						• Advances in the medical field such as preventive genetic
	FY16	FY21	FY26P			testing will also push more people towards preventive healthcare
Sickness related Preventive and wellness						



Evolving patient behaviour

A While radiology has many pain points being addressed, the attractive economics of this segment offers growth opportunities

Several key challenges exist to be solved across the value chain of imaging (e.g., CT scan), such as shortage of advanced labs, shortage of transparency in procedure charges, etc.

With attractive economics and these challenges remaining, radiology is emerging as an attractive segment (illustrative economics for CT scan unit at the large hospital)





Return on CT scanner		
<b>Total investment</b>	~₹ 18 M	
Rol*	~56%	
Simple payback	~2 years	
EBIDTA	~ 39%	
PBT	~ 34%	



B Specialized and wellness tests are the key segments projected to be growth drivers for the Indian clinical testing market

Segments by clinical area	Test Mix	Growth outlook	Rationale
<b>Routine tests</b> Such as <b>CBC, lipid profile,</b> urine culture, etc.	<ul> <li>In volume mix, this category is the major contributor to the volume, i.e., 40-45% of total clinical tests; however, in value terms, it's just 12-17%</li> </ul>	1	<ul> <li>Routine + semi-specialized tests that are primarily biochemistry pathology, immunology, and microbiology constitutes 75-85% of the total clinical tests volume</li> <li>Year on year growth in these segments is</li> </ul>
<b>Semi specialized tests</b> Such as <b>diabetes, thyroid,</b> liver profile, etc.	• In volume mix, this category is the second major contributor to <b>volume</b> i.e., <b>35-40%</b> of total clinical tests however in value terms it's <b>25-35%</b>	1	projected to grow at <b>10-15% year on year</b>
<b>Specialized tests</b> Such as molecular diagnostics for <b>colorectal cancer tests, lung</b> <b>cancer tests, somatic panel tests, etc.</b>	• In volume mix, this category is the second least contributor to <b>volume</b> , i.e., <b>15-22%</b> of total clinical tests; however, in value terms, it's already the highest, i.e., <b>40-45%</b>	t	<ul> <li>Molecular pathology testing, which is more of genomics, genetic-based DNA, and RNA segment sequencing, is poised to grow at 35-40% year on year</li> <li>Some of the key factors driving the growth are finding alternative utilization of the rapidly installed base for PCR &amp; rapid test products during the pandemic, growth in lifestyle diseases, etc.</li> </ul>
Wellness tests Such as cholesterol, BP, mammogram, etc. under annual health check plans such as from corporates and individuals	<ul> <li>In volume mix, this category is the least contributor to the volume, i.e., only 1-3% of total clinical tests; however, in value terms, it's already a healthy 10-11%</li> </ul>	t	<ul> <li>Wellness testing will grow to double that of sickness testing for the next 20-25 years - till wellness is 60-70% of the total, which is just 10% currently</li> <li>This is dues to increased offerings, awareness, and adoption of bundled tests profiles and wellness packages</li> </ul>



Infrastructure for molecular testing expanded multi-fold during COVID, which in a post COVID world could be used to create a market for new viral tests





### **B** Less than 20% of breast cancer cases get diagnosed early (before Stage III)



Breast cancer 5-year survival rate across stages

Notes: For ovarian cancer - the TNM staging, subsequent treatments and 5- year survival rates remain similar; and FIGO and AJCC stage ovarian cancer into I, IA, IB, IC, II, IIA, IIB, IIIA, IIIA,

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Clinical needs and test types

B Global genomic testing market is expected to grow at ~20% CAGR; In India too, tests are being increasingly used for oncology, reproductive health, and predictive testing



Notes: India's leading genomic solutions company into oncology, reproductive health, inherited diseases and infectious diseases. It started in 2013 in the US and India. Sources: Industry reports, Secondary research, Praxis analysis



B PoC and rapid tests have seen a wide acceptance during COVID and in future are likely to witness wider acceptability with the advancement in technologies



#### **Barriers to adoption of PoCT**

City tier	Low accuracy	Absence of trust	High cost
Description	<ul> <li>Accuracy achieved via PoCT is not 100% satisfactory. Doctors want highly accurate readings (&gt;90% accuracy) as sometimes a second verification test from a traditional laboratory has to be done, and it defeats the purpose of PoCT</li> </ul>	• Trust is a major factor with PoCT as sometimes the patients are skeptical about the results and sometimes even doctors are not 100% confident about the PoCT outputs	<ul> <li>Zero willingness amongst patients to pay rupee 500 for a test when the consultation fee itself is not more than rupee 200</li> <li>In case of specialists in tier-3 cities, PoCT isn't as feasible due to high initial costs</li> </ul>
Metro			
Tier 2		٠	
Tier 3			

Notes: Sophisticated PoCT devices: POC devices other than glucometer, sphygmomanometer, oximeter and infrared thermometer Sources: GP & specialists IDIs (N = 45), Hospital IDIs (N = 5), Expert interviews (N = 3), PoCT player interviews (N = 8), Tracxn, BIRAC, PGA Labs analysis Intensity level

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Competition

C Due to attractive margins, players from adjacent service areas of the healthcare ecosystem have entered the diagnostics market and made it more competitive

Player type	Market actions
Pharma companies	<ul> <li>One of the major pharma companies plans to set up its National Reference Laboratory in Navi Mumbai, and plans to open 100 labs and 1000 collection centers pan India in the next 3 years</li> <li>Another Pharma giant commercialized its RT-PCR test kit 'ViraGen' for COVID-19</li> <li>And launched a portable wireless spirometer for diagnosis of chronic obstructive pulmonary disorder (COPD) and asthma</li> <li>Whereas another player launched diagnostic center chain in 2017, and is currently expanding in Maharashtra and other western &amp;</li> </ul>
Hospital chains	<ul> <li>One of the national chains formulated a wholly-owned subsidiary focused on diagnostics</li> </ul>
	• An online pharmacy player <b>acquired</b> 66% stake in Thyrocare, the <b>fourth largest diagnostics chain in India</b>
Comprehensive telehealth service providers	<ul> <li>Whereas the other competitor in this space acquired Droplet, a logistics company specializing in home sample collection for diagnostics labs</li> <li>And another player in this space launched phlebotomist services for consumers to avail lab tests from the comfort of their homes</li> </ul>
Diagnostics service aggregators	• An online platform for health services, <b>launched health testing at home in 100 new cities in the country</b> by recruiting 1,500 support staff, including pathologists, phlebotomists, lab technicians, etc.
	• Whereas another provider <b>expanded its diagnostic solutions</b> to 3500+ routine and specialized tests for hormone testing, genomic testing, routing pathology investigations, etc.

Competition



Government is taking initiatives to strengthen the public health infrastructure and make diagnostics more accessible and affordable

#### Free diagnostics service under NHM

- Timeline: FY18 ongoing
- Free radiology and pathology services at SHCs, PHC, CHCs, District & sub-district hospitals to reduce high out-of-pocket expenditure
- Tests include hematology, serology, biochemistry, clinical pathology, microbiology, radiology, and cardiology. However, States are free to add to the list based on their priorities

#### **National Essential Diagnostics List**

- Timeline: FY19 ongoing
- 105 general lab tests, 30 disease-specific tests, and 24 radiology tests to address a critical gap in the standardization of medical devices and IVD devices

#### National Program for Prevention & Control of Cancer, Diabetes, Cardiovascular Diseases & Strokes

- Timeline: FY19 ongoing
- Free treatment to poor people at SCIs or TCCCs
- Preventive screening for ~7 Cr; 67K cancer, 99K strokes, 42 lakh Hypertension, 33 lakh Diabetes and 2 lakh cardiovascular diseases cases diagnosed

#### Pradhan Mantri Atma Nirbhar Swasth Bharat Yojana

- Timeline: FY22 26
- Support for 17,788 rural HWCs, and 11,024 urban HWCs through the establishment of integrated public health labs in all districts

#### Procurement of imaging equipment by State govts

- Procurement of equipment such as CT and MR by state govts for in-house public facilities
- For CT: States such as Maharashtra, Karnataka, Gujarat & Kerala floated ~ 122 tenders between 2020 21
- For MR: States such as Maharashtra, Telangana, Uttarakhand & Kerala floated ~ 48 tenders between 2020 21

#### **Diagnostics centers under PPP model**

- **1,797 centers** under the PPP model operated by Krsnaa Diagnostics across 14 states
- Expansion of hub & spoke centers as 1,127 centers added in the last three years

Recent policies

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Competition

C Despite competition, organized labs are expected to have better revenue growth than others due to their wider test portfolio, better customer experience, and deeper reach



**Business models** 



Due to increased competition in Metros and Tier-1, lab chains are undertaking aggressive expansion in Tier 2+ cities through asset-light models

Route for business expansion	Details	
	<ul> <li>Online players betting big on diagnostics, e.g., Pharmeasy's acquisition of Thyrocare</li> <li>Acquisition of larger stand-alone facilities, and regional chains for geographic expansion and establishing pan-India presence</li> </ul>	
回 回 New labs in T2+ cities	<ul> <li>Lab chains are fast expanding through organic and inorganic routes in Tier 2+ cities</li> <li>Diagnostic chains going for IPO seek aggressive growth across city tiers</li> </ul>	
Collection centers	<ul> <li>Lab chains are further deepening their presence in multiple cities across the country through collection centers, patient service centers, pick-up points, etc. e.g., some of the key national chains have a strong network of over 14K collection centers and over 55K patient touchpoints</li> </ul>	

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**Business models** 

To cater to the latent demand, teleradiology is seeing wider adoption and is likely to expand in T2, T3, and T4 cities



Notes: Teleradiology market size (TAM) = (# Installed base of radiology equipment) X (# Radiology scan) X (Teleradiologist fees per scan); Installed base and number of scans are sourced from secondary research, while teleradiologist fees is sourced through conversations with industry experts Sources: Secondary research, Praxis analysis

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**Business models** 

Even in pathology, wherever images are involved, players are investing to make business plans around remote diagnosis and improve quality and efficiency of diagnostics

Plays	Offering	Players (illustrative)	
Service providers	<ul> <li>Digitization of tissue slides</li> <li>Access to a large pool of histopathologists to analyze images for domestic and international markets</li> </ul>	AINORA Digiscan Leader in Digital Pathology	
In-house use of Technology	• Hospitals and diagnostic chains adopting solutions esp. for cancer diagnostic	Br Lat PathLabs Where Dating Service, Surveyline U.A. Way Of LA- Company Service, Surveyline U.A. Way Of LA- adding life to years	
Computational pathology solution providers	<ul> <li>Al-powered digital pathology solution for cancer diagnostics</li> <li>Significant improvements in diagnostic efficiency, with a 25-30% reduction in time-to-diagnosis compared to conventional microscope viewing,</li> <li>1 - to 2 - day reductions in total turnaround time</li> </ul>	<ul> <li>Philips – Ibex Medical tie-up</li> <li>Roche – Ibex tie-up for workflow and AI analysis for cancer</li> </ul>	



**Business models** 

With the decoupling of operating layers, models are evolving into a network of partnerships





**Business models** 

### Business models are evolving fast to align with customer preferences

Key partners	Value proposition	Channel	Customer Segments A and relationship
<ul> <li>Decoupling of layers: Home pickup businesses and third-party phlebo networks</li> <li>Technology partnerships: sample movement &amp; tracking, LIMS</li> </ul>	<ul> <li>Convenience: At home collection</li> <li>Pricing: bundling of tests, pricing discounts</li> <li>Accuracy and reliability: COVID has prompted the shift towards branded players</li> <li>Readability of report: 80% of patients cannot understand their report</li> </ul>	<ul> <li>Franchising of labs, partner labs</li> <li>Proximity to the customer: collection centers, pick-up points</li> <li>Online channels: digital customer acquisition, online test booking</li> </ul>	<ul> <li>Affordable and value services (e.g., value radiology)</li> <li>Condition specific segments: Onco, elderly, chronic ailments</li> <li>Owning the customer: Growth of online models</li> <li>Loyalty: Increasing criticality of loyalty with increasing competition</li> </ul>
Cost structure	र	Revenue streams	
<ul> <li>Asset light models - Deepening protection centers, patient</li> <li>Reagent rental models: Pay per us</li> <li>Centralization of resources: Tele-reliab-work</li> </ul>	esence in multiple cities across the country service centers, pick-up points, etc. e to reduce upfront CAPEX nodels – radiologists, histopathologists,	<ul> <li>Newer tests: Molecular diagnostic</li> <li>Remote diagnostics: Telepathology</li> </ul>	s, genomics, health, and wellness tests y and teleradiology services

• **Computational pathology:** Better accuracy, higher productivity



Launched in June 2020 and currently

only serving B'lore

Financing and payers

While still in nascency, insurance cover for out-patient care could propel a rapid growth

	•	dīgit	Manipal & Cigna		Care	even
# network	hospitals	5,900	6,500	6,700	8,250	11
Claim sett	lement ratio %	~94%	~91%	~96%	~93%	
% penetra policies	tion of OPD	• 5-10% of retail health policies sold include OPD cover	• 5-10% of retail health policies sold include OPD cover	<ul> <li>5-10% of retail health policies sold include OPD cover</li> </ul>	<ul> <li>5-10% of retail health policies sold include OPD cover</li> </ul>	<ul> <li>All plans cover OPD consultations and diagnostics</li> </ul>
	Policy name	• Smart + OPD	ProHealth Plus	GoActive	Comprehensive	Even Plus
Policies with OPD cover	Hospitalization cover	• 5L	• 6L	• 5L	• 5L	• 50L a year per family member
	OPD cover (rupee)	<ul> <li>5,000 (25% copayment in year 1)</li> <li>Net OPD cover: 3,750</li> </ul>	<ul> <li>2,000 (no co-payment)</li> <li>Net OPD cover: 2,000</li> </ul>	<ul> <li>2,400 (no co-payment)</li> <li>Net OPD cover: 2,400</li> </ul>	<ul> <li>5,000 (no co-payment)</li> <li>Net OPD cover: 5,000</li> </ul>	<ul> <li>Unlimited doctor consultations</li> <li>Unlimited diagnostic tests</li> </ul>
	Premium (rupee)	<ul> <li>Without OPD cover: 4,300</li> <li>With OPD cover: 6,300</li> <li>Premium for OPD cover: 2,000</li> </ul>	<ul> <li>Without OPD cover: 7,093</li> <li>With OPD cover: 8,170</li> <li>Premium for OPD cover: 1,077</li> </ul>	<ul> <li>Without OPD cover: 7,697</li> <li>With OPD cover: 8,874</li> <li>Premium for OPD cover: 1,177</li> </ul>	<ul> <li>Without OPD cover: 6,621</li> <li>With OPD cover: 10,535</li> <li>Premium for OPD cover: 3,914</li> </ul>	• With OPD cover: Starts at 1,050 per month
	Premium (rupee)	• 53%	• 72%	• 49%	• 78%	
	Claim process (OPD expenses	• Bills reimbursed in 3 working days (cashless through Godigit app)	• Bills reimbursed in maximum 7 working days (cashless through Medibuddy app)	<ul> <li>Bills reimbursed in maximum 7 working days (through Max Bupa website or app)</li> </ul>	• Bills reimbursed in 7-10 working days (cashless through their app)	• Procedures are already paid for, no need to file claims (cashless)
	Diagnostics Coverage	<ul> <li>All necessary and prescribed diagnostics up to the extent of sum insured</li> </ul>	• All necessary and prescribed diagnostics up to the extent of sum insured	<ul> <li>Diagnostics test are allowed in lieu of permissible annual health check-up expenses</li> </ul>	<ul> <li>All necessary and prescribed diagnostics up to the extent of sum insured</li> </ul>	<ul> <li>Unlimited coverage of diagnostics test prescribed by partner doctor and carried out at partner hospital or lab</li> </ul>

**Notes:** OPD cover here refers to expenses that do not require hospitalization; All policy prices based on 27 year old male living in Metro

Sources: Company websites, Agent interviews, Insurance aggregator websites, Praxis analysis

Less favorable



Supply chain

Supply chain innovations in sample processing pre and post-analytical stages are levers of key differentiators among the service providers





### **F** Digital transformation is happening across areas in diagnostics



Adoption level

Technology and digital



F While considerable focus has been on leveraging digital to become efficient and deliver customer delight; many areas of opportunity remain unexplored





# Future outlook





Future outlook

# Indian diagnostics market is projected to grow at a CAGR of 14% & reach US\$ 20B by FY26





Future outlook

### **Challenges facing the industry**

Challenges	Likely impact
Regulatory	<ul> <li>Price control, especially on tests covered under NEDL - Low likelihood</li> <li>Focus likely to be on ensuring the tests are provided to patients who need it</li> <li>Barring exceptional situations, Government will allow markets to operate</li> </ul>
	<ul> <li>High margin, high volume 'routine tests' may face pricing pressure.</li> <li>Government is likely to invest in augmenting diagnostics infrastructure, which, if utilized well, may impact unorganized labs more</li> <li>Could lead to the growth of the industry as 'evidence-based treatment' would find higher acceptance</li> </ul>
Fragmented market, low focus on quality	<ul> <li>NABL is not mandatory and not likely to be made mandatory in medium terms</li> <li>Industry is highly fragmented, and enforcing accreditation may not be feasible</li> <li>Consolidation would drive focus on quality in medium to long term</li> </ul>
Commoditization and increasing competitive intensity	<ul> <li>Pricing pressure could be there on semi-specialized and specialized tests; however, with scale, margins can still be maintained</li> <li>Will require Companies to work on increasing ticket size through bundling of tests, promote health and wellness tests, and introduce specialized tests</li> </ul>
Access to specialized resources	Emerging models like teleradiology and telepathology could address this issue
Value conscious market	Could witness value products from leading OEM to address the value segment across Tiers of cities



### **Imperatives for diagnostic companies**





# Praxis offerings





**Praxis offerings** 

### How can we add value to diagnostics? - Praxis Global Alliance





**Praxis offerings** 

### **Our solutions to help increase shareholder value**



# Connect with us

We will be happy to share perspectives



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