PwC Healthcare Trends of M&A Deal in 1H 2022

Sep, 2022





Introduction





Description of the data presented in the report

- The data in the report are based on information provided by the Zero2IPO database, Thomson Reuters, CVSource and PricewaterhouseCoopers analysis, except where noted;
- The Zero2IPO database, Thomson Reuters and CVSource only record deals that are publicly announced, and some announced deals may not be completed;
- Some deals do not disclose information or the amounts, which to some extent affects the comprehensiveness and trend of our analysis. In particular, in the case of some hospital investments, public information is limited due to the sensitivity of the deal information;
- The number of deals mentioned in the report refers to the number of publicly announced deals, regardless of whether their deal amounts are disclosed;
- The amount of deals mentioned in the report only includes deals for which the amount has been disclosed (referred to as "disclosed deal amounts" in the report);
- The average deal size mentioned in the report only considers deals with disclosed amounts, while excluding the impact of individual non-recurring mega-deals;
- "Domestic" data means the deal data occurring in mainland China;
- "Overseas" data means the deal data occurring in Hong Kong Special Administrative Region, Macao Special Administrative Region, the Taiwan Region and other overseas countries and regions;
- The measurement unit of the amount in the report chart is RMB, and the foreign currencies are uniformly converted into RMB, based on the exchange rate on the day of the event.



Industry Segment Description

Hospitals & Clinics: Medical institutions with the primary purpose of providing people with diagnosis services and treatment of diseases, and medical groups that own and operate one or more such institutions. Hospitals in this report mainly include general hospitals (including general practice clinics) and specialty hospitals (including dentistry, ophthalmology, medical aesthetics, maternal and child, cerebral, oncology, Chinese medicine, and other types of clinics);

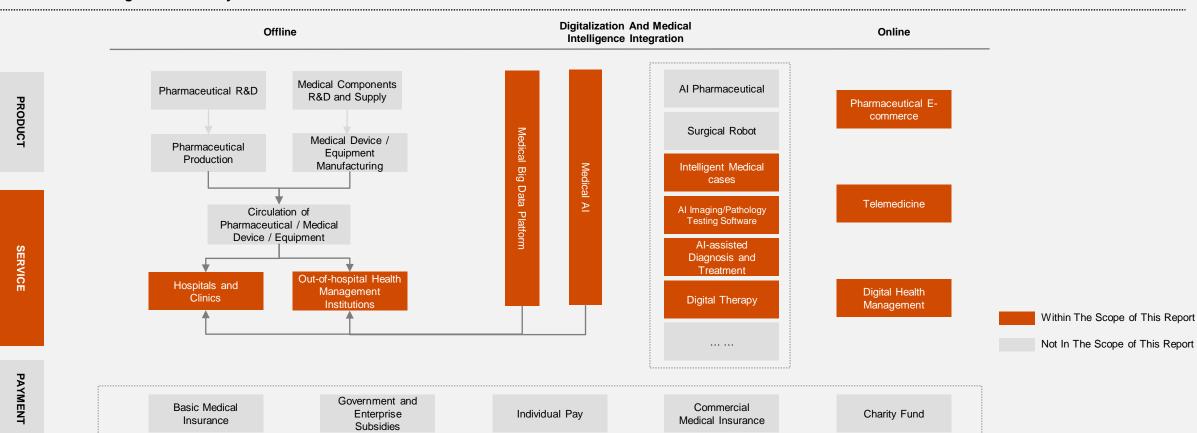
Out-of-hospital Health Management: Medical and health institutions other than hospitals and clinics, professional public health institutions and health management institutions, mainly including third-party medical testing centers (including imaging, genetic, pathological testing and other institutions), medical examination centers, rehabilitation institutions, elderly care institutions, maternity care centre, medical beauty centers, psychological counseling and other service institutions;

Digital Healthcare: Medical and health service providers with data as the core production factor and rely on digital technology (including the Internet, big data, artificial intelligence, blockchain, etc.) as the driving force, mainly including service providers in pharmaceutical e-commerce, online medical diagnosis (including Internet hospitals, online consultation, etc.), medical data platforms, medical AI (including intelligent medical cases, assisted treatment, AI imaging, digital therapy, etc.), digital health management (including health knowledge popularization platforms, remote health monitoring, etc.).

Health Industries



Chart of Medical Big Health Industry Chain in China



Catalogue

Healthcare Policy and Trends 5 Overview of M&A Trends from 2019 to 1H 2022 Deals Spotlight M&A Trend by Segment 36 Key Issues of IPO for Healthcare Companies caps lock 1

Healthcare Policy and Trends



In 2022, the construction and high-quality development of the medical service system have been further deepened



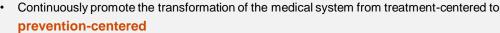


Increase the per capita financial subsidy standard for medical insurance by 30 yuan, and steadily raise the individual contribution standard

Promote the development of multi-level medical insurance system and enrich the supply of health insurance products

- Gradually establish a result-oriented payment system for medical services that takes disease types as the basic unit
- Strengthen the network capacity of medical and health institutions at all levels and all types, and promote 5G network coverage
- Carry out intelligent monitoring of medical insurance based on big data, and promote the application of face recognition and other technologies

2020 Digitalization Empowers Medical Insurance



- Accelerate the improvement of the **tiered diagnosis and treatment** system and expand the space for nongovernmental medical enterprises
- Actively increase the supply of family doctor services and expand the coverage of contracted services
- Implement the Maternal and Child Safety Action Enhancement plan; promote the establishment of a multidisciplinary diagnosis and treatment system
- Encourage the development of third-party medical services such as professional hospital management groups and medical tests

2022

Strengthen Specialty Construction



Reducing the Burden of Healthcare

- Select 11 cities including Beijing, Xiamen, Chengdu, etc. to organize centralized procurement of pharmaceutical
- Carry out pilot evaluation of centralized procurement, summarize the experience, and timely full rollout
- Explore the new mechanism of open and diversified medical service prices under new technological conditions
- Promote centralized procurement; pilot centralized bulk-buying model nationwide

Source: Public Information & PwC Analysis
PwC Healthcare M&A Deal Trends in 1H 2022



Strengthen the Service System

- Basically complete the construction of regional medical centers by 2025
- By 2025, at least 1,000 county hospitals nationwide will reach the level of medical service capacity of tertiary hospitals
- Promote the reform of medical insurance payment models and strive to build a hierarchical treatment pattern
- Steadily increase the proportion of the added value of the bio-economy in GDP, and make new breakthroughs in key core technologies
- By 2025, the level of modernization of the medical equipment industry chain will be significantly improved



In terms of healthcare system, enhance the quality and convenience of medical service at multiple levels, and improve medical service capabilities for county areas



Important policies for China's healthcare industry in 1H 2022

Subject

Specialty Construction

Example

- On the Organization of Declaration of Central Financial Support
- Basic Standards for Chinese Medicine Clinics (2022 Revised Version)
-

Initiatives Explanation

- Provisions for medical institutions to set up TCM departments and rehabilitation departments, financial subsidy support, and lowering the threshold for setting up medical institutions to enhance the penetration rate of specialty construction
- Music therapy and other interdisciplinary subjects set a precedent to be included in the national health insurance.

Keywords

Rehabilitation/elderly care, medical services integration, Chinese medicine clinic, maternal and child paediatrics, psychiatric specialties, psychology

Number of policies¹

Specialized construction of Medical treatment, Rehabilitation and Recuperation, traditional Chinese medicine, cross- disciplinary

Medical Insurance Reform

- Notice on the Issuance of Key Tasks for Deepening Medical and Health System Reform in 2022
- Public Service Information Release on Cross-Province Direct Settlement of Medical Treatment for National Medical Security (Forty-eighth Issue)
- Direct settlement of inpatient expenses across provinces has been applied to the whole country
- After DRG/DIP¹payment reform, hospitals have achieved significant cost reduction, medical service prices have increased, and the value of medical treatment has been reflected

DRG/DIP¹、APG²、
Cross-province medical insurance settlement,
medical informatization

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Standardized hospital management, facilitate medical insurance settlement

Domestic substitution

- Notice on Matters Relating to the Regulation of Government Procurement of Imported Products in Public Medical Institutions
- Announcement on the Approval of the Registration of 212 Medical Device Products
-
- Prioritize the purchase of domestic devices, set domestic procurement ratio and import procurement approval to boost downstream demand
- Priority review of high-tech devices and accelerate approval of innovative medical devices
- Domestic substitutions are switching to products with high technical barriers

High-end medical devices and equipment, Large scientific research instruments, the Molecular Diagnosis, Artificial Crystal, the Hemodialyzer, Cranial Titanium Plate, Balloon

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Accelerate the process of developing domestic substitution with a clear policy tendency

Healthcare Digitalization

- Notice on the Issuance of the National Catalogue of Restricted Technologies and Management Specifications for Clinical Applications (2022 Edition)
- Guidelines on Information Technology Functions for Operation and Management of Public Hospitals.....
- The restrictions are removed on the application of Aiassisted therapy technology
- Pharmaceutical coding popularization, Operation management normalization/standardization
- The target rate of telemedicine penetration is set at 95%, to compensate for uneven supply and demand matching of geographic medical resources

Ai-assisted diagnosis and treatment, Pharmaceutical information sharing, Telemedicine service, Electronic health records, Norms and Standards

09

Digitalization continues to penetrate healthcare services with vast market space

注: 1.DRG/DIP (Diagnosis Related Groups/Diagnosis-Intervention Packet, There are two kinds of medical insurance payment methods according to the total budget of disease diagnosis related group/region points method and the trial of payment according to disease points), DRG is to pay inpatients according to the nature of the disease grouping, and DIP is based on historical data such as medical records and regional prevalence, combined with calculation data such as point unit price; 2. APG (Ambulatory Patient Groups, outpatient capitation combined with outpatient case grouping) point method is a medical insurance payment method that combines disease type, treatment The number of policies includes key policies at the national and provincial levels in the first half of 2022, including programmatic documents such as development plans and guidelines, as well as management regulations.

Create value and promote the multidimensional development of upstream innovation and downstream management standardization in healthcare industry



Important policies for China's healthcare industry in 1H 2022

Topic

Tiered Diagnosis and Treatment

Example

- "Thousands of Counties Project" Work Plan for Improving Comprehensive Capacity of County Hospitals (2021-2025)
- Guideline on Promoting the High-quality Development of Contracted Services for Family Doctors...

Initiatives Explanation

- County and community medical services are receiving attention, and the development of primary care capacity to alleviate the "siphon" effect of large hospitals
- The construction of the national medical center has promoted the service quality improvement of multi-level medical institutions in the region

Keywords

Number of policies¹

Thousands of counties Project, county-level medical service, medical consortiums/medical community, national medical center, down market, family doctor

Strong policy support in favour of basic-level of medical institutions is accelerating development of county medical care

Centralized Procurement

- Deepening the progress of centralized bulk-buying reform of pharmaceuticals and high-value medical consumables State Council policy briefing
- Opinions of the General Office of the National Health Commission on Supporting Measures for the Centralized Volume Procurement and Use of High-Value Medical Consumables (Artificial Joints) by National Organizations
- Institutionalization, normalization, category diversification and regional alliance procurement of pharmaceuticals and equipment consumables
- The localization rate of collectively procured categories is almost all below 50%, encouraging domestic substitution

Pharmaceutical procurement, medical device supplies procurement (cardiovascular intervention, bone and joint, spine, testing reagents, electrophysiology, dental implants))

05

Expansion of procurement categories, alliance, drastic price reduction

Qualification Opening

- Medical Regulations of Shenzhen Special Economic Zone
- Management Measures for Mutual Recognition of Examination and Test Results of Medical Institutions
- Management Code for the Clinical Application of Keratoplasty Lens Technology (Draft for Comments)
- In order to promote the convenience of diagnosis and treatment and encourage the flow and development of medical professionals, the Shenzhen Special Economic Zone has opened up the right of nurses to prescribe prescriptions, and allowed doctors from Hong Kong and Macao to perform practices in multi-location, and cross-border registration of traditional Chinese and Western medicine
- Qualification is now open for orthokeratology lens, which benefits the listed companies engaged in the optometric field.

Nurses' Prescription rights, doctors' multi-site practice, cross-border registration of chinese and western medicine, mutual recognition of test results, orthokeratology lens

05

Qualification opening promotes medical convenience, conductive to optometry

Medical Services Operated by Nongovernmental Capital

- Annual National Private Hospital Special Inspection Action
- Guiding Principles for Planning the Establishment of Medical Institutions (2021-2025)
- The Guiding Opinions of Guangzhou Municipality on Supporting the Participation of Social Forces in the Construction of Key Fields.....
- To supervise the standardized development of private medical institutions under special inspection
- Encourage social forces in the shortage of specialist areas to establish medical institutions, and elderly care institutions to meet diversified needs
- Restrict the expansion of public hospital branches to reserve space for the development of private institutions, hence achieving the complementary effect between the public and private institutions.

Rehabilitation, nursing care, elderly care, leading medical associations, the community medical service providers, limiting the expansion of public branch hospital districts

03

Standardized development of private medical institutions, survival of the fittest

Note: 1. The number of policies includes key national and provincial policies in the first half of 2022, mainly including development plans, guidelines and other programmatic documents, as well as management regulations

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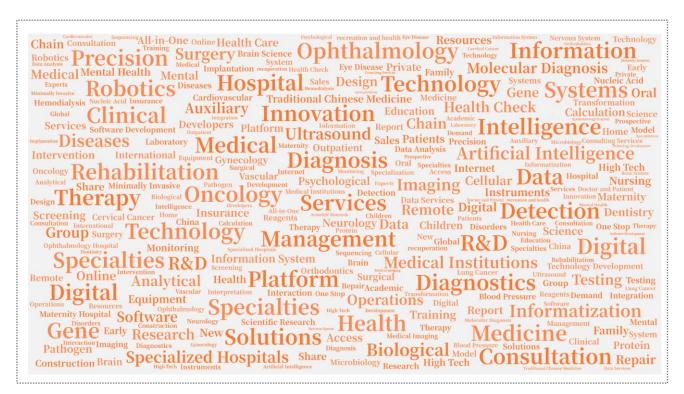
Overview of M&A Trends from 2019 to 1H 2022



Quality of service and technological leadership are the core values of the healthcare industry



Hot words in the target healthcare industry in 1H 2022¹

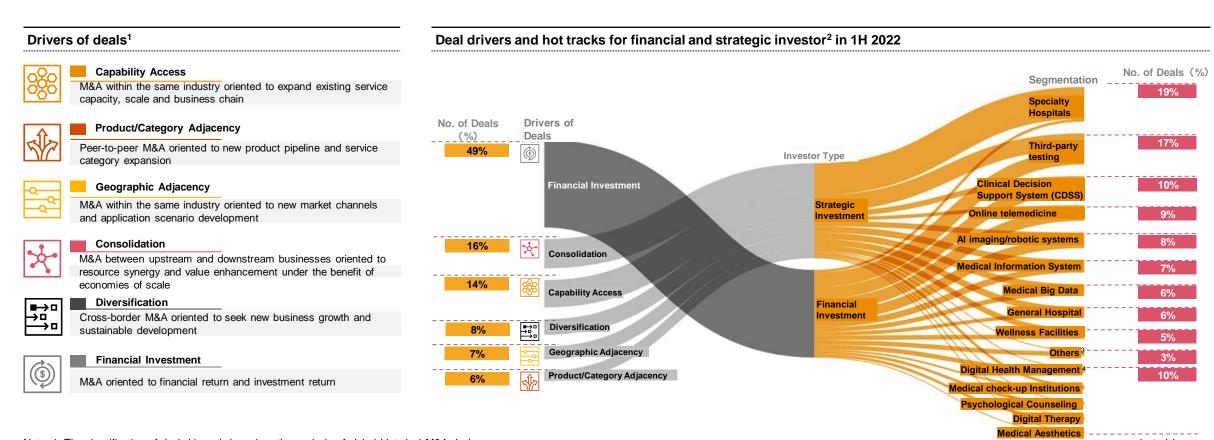


- The core of healthcare value delivery is service and technology
- Data, R&D, and innovation are the drive of technology renovation in healthcare industry
- In more and more cases, healthcare providers are offering medical and health management services in the form of solutions
- Popular areas of investment includes
 Oncology, Rehabilitation, Ophthalmology,
 Genetic Testing, Artificial Intelligence, etc

Note: 1. Keywords were extracted based on the business description of the target company in the medical and healthcare services industry in the first half of 2022, sorted by keyword frequencies

Resource integration and capability expansion become main drivers of strategic deals





Note: 1. The classification of deal drivers is based on the analysis of global historical M&A deals summarized by FWC's deals advisory department, 2. From the perspective of institutional type, the discussion of deal drivers is mainly conducted by strategic investors, investment institutions with industrial backgrounds, or operational post-investment management capabilities, and for pure financial investors, the deal drivers are classified as financial investments; 3. "Others" mainly includes assisted reproduction, medical aesthetics, maternity centres, pharmaceutical e-commerce, and smart case areas; 4. Digital health management, medical check-ups, psychological counseling and digital therapy accounts for a total of 10%, listed in descending order of quantity, as the combined disclosed number of deals is relatively small.

The number of active deals has a year-on-year increase compared with last year; from the average value of a single deal, funds tend to invest in early stage



	01. Amount	02. Number	03. Average ¹	04. Significant Deals
ear-on-year	Disclosure of deal size exceeded Rmb25.3 billion	Number of deals reached 210	The average single disclosed deal amount is about Rmb160 million	A total of 6 deals of over Rmb 1 billion during the year. The deal size reached Rmb12 billion
hange from ne first half f last year	17% 🔻	1.35 times 🔺	01 70 V	o change in Amount 🛕 4%
	05. Rounds	06. Segmentation	07. Investors	08. Region
 	Investment fever remained bifurcated in the first half of 2022, with funding mainly focused on specialty hospital holding equity acquisition type deals and digital healthcare early stage equity financing type deals.	Specialty hospitals are the hot areas in the first half of 2022; ophthalmology, stomatology, rehabilitation, assisted reproduction, maternal and child hospitals lead the way; out-of-hospital third-party medical testing, and the field of wellness is receiving capital attention.	From the number of deals, strategic investors dominated for the first time over financial investors, accounting for about 52% of the total deal amount, with a single investment amounting to Rmb150 million, strategic investors, and comprehensive medical groups with professional capabilities gradually become the backbone force.	The Yangtze River Delta region and Guangdong, Hong Kong and Macau ² disclosed an annual deal value of Rmb13.7 billion, contributing nearly 54% of the deal value and 52% of the deal volume
	No change in trend	Assisted Reproduction,	Strategic A	Jiangsu 🔺
		Maternal and Child	Investors	

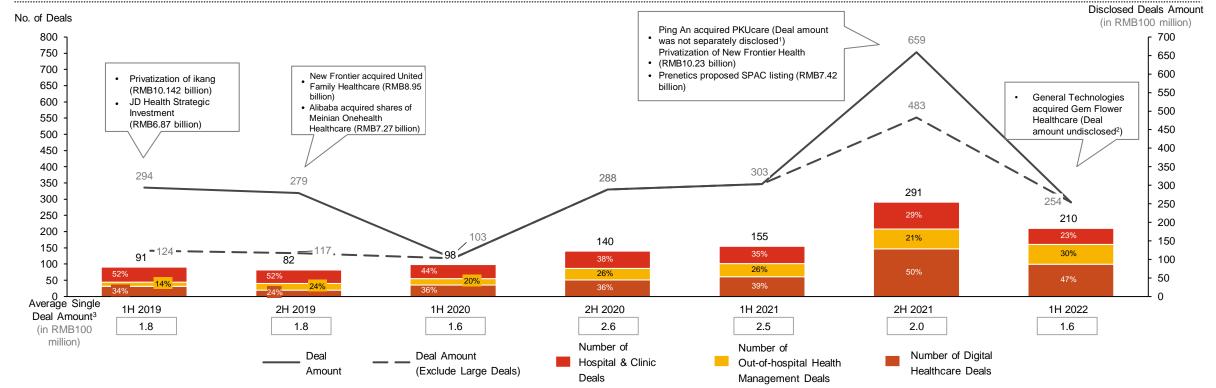
Province, Hong Kong and Macau are not included.

Under the impact of Covid-19, the overall transaction activity in 1H 2022 is still recovering compared with the same period last year, and the overall trend is positive in the long run



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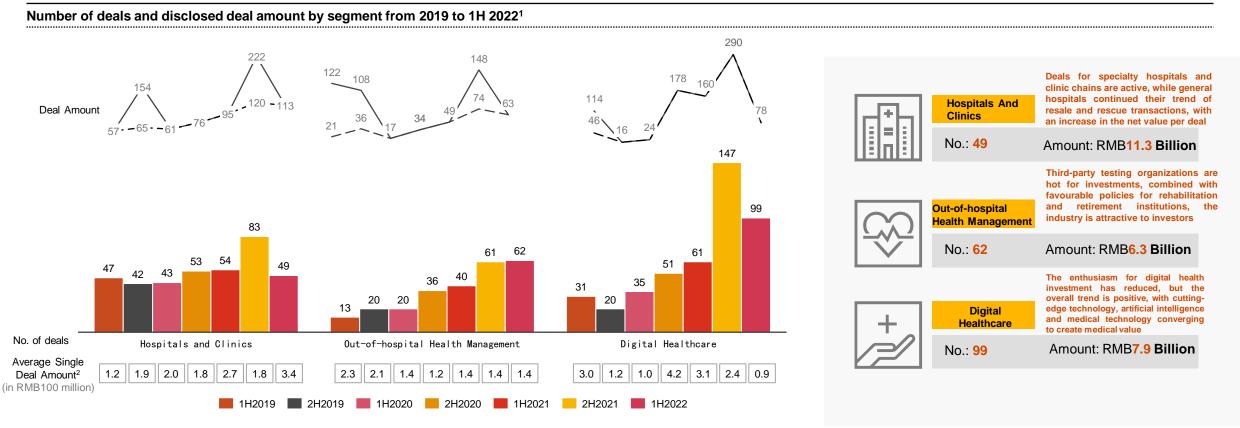




Note: 1. On January 30, 2022, the CBRC formally approved the acquisition of approximately 66.51% equity shares in New Founder Group by Ping An of China Life with their own funds of RMB48.218 billion, which was aimed at deepening the strategic layout of the healthcare industry; since the restructuring transaction included equity-type, debt-type and other assets in the healthcare, finance, information technology, and education segments, the deal amount of healthcare segment was not disclosed separately. The transaction amount was not included in the statistics because the deal amount of the segment was not disclosed separately; 2. On the morning of February 28, 2022, PetroChina Group and General Technology Group signed an official contract regarding the deepening reform and professional integration of Gem Flower Healthcare; after the signing, Gem Flower Healthcare was merged into General Technology Group, and after the completion of the delivery, General Technology will own hospitals 30 hospitals with approximately 46,000 beds under management and 50,000 employees 3. The calculation of the average single disclosed transaction amount does not include the number of transactions with undisclosed amounts and does not include the amount of large transactions (above RMB6 billion).

Resale of hospitals and clinics continues with total transaction value down and increased net amount per transaction; digital healthcare transactions with "AI technology + diagnosis" as the core are active

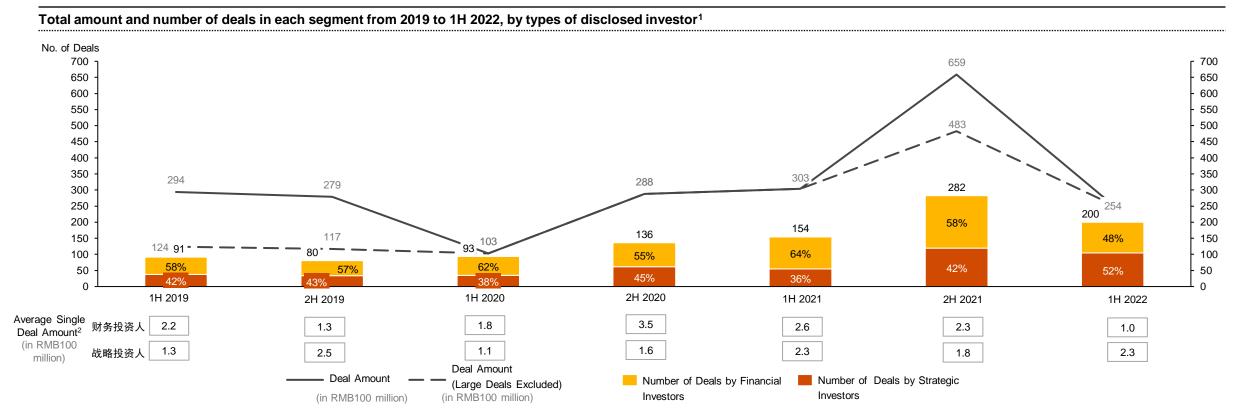




Note: 1. The deal amounts and deal sizes shown in this report are disclosed deal amounts; M&A deals with undisclosed amounts are not included; 2. Calculation of average single disclosed deal amount does not include the number of deals with undisclosed amounts, and does not include the amount of mega-deals (above RMB6 billion).

Industrial capital in the medical field layout is increased; the proportion of strategic investors has exceeded that of financial investors for the very first time



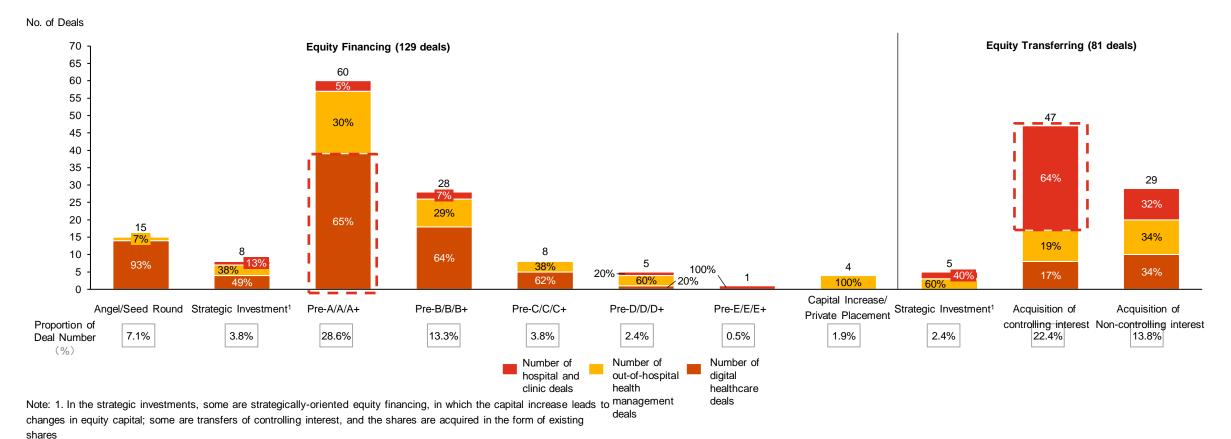


Note: 1. For types of institutions, strategic investors mainly refer to strategic corporate investors, investment institutions/platforms with industrial resources, SOE background or strong integration capabilities of post-investment operation and management, etc.; whereas investors with transaction purpose being the investment returns are classified as financial investors; the basis for classifying investors depends on the driving factor of the leading institution of the deals; 2. Calculation of average single disclosed deal amount does not include the number of deals with undisclosed amounts, and does not include the amount of mega-deals (above RMB6 billion).

Control deal is the dominant type for hospitals and clinic deals, while earlystage equity financing is the dominant type for digital health, with clear differentiation between the two levels



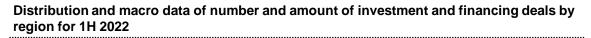
Number of disclosed healthcare services deals in China in 1H 2022, by deal type and round

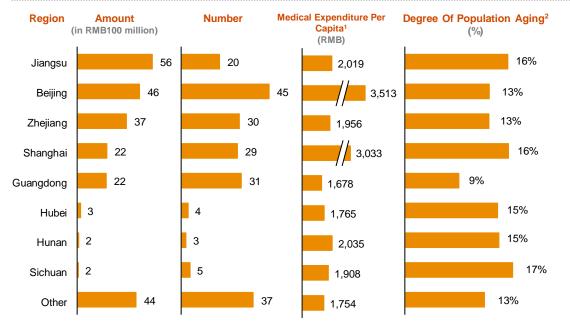


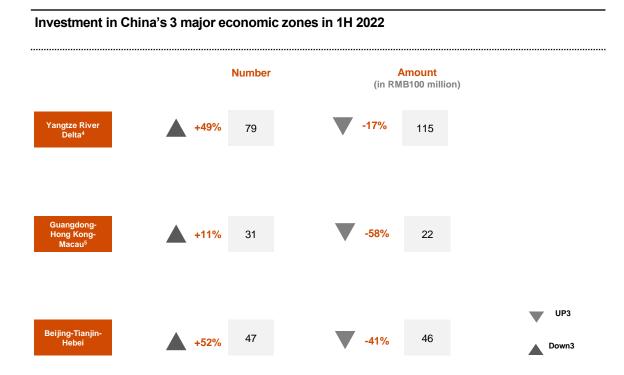
Source: PEDATA. Thomson Reuters, public information and PwC analysis PwC Healthcare M&A Deal Trends in 1H 2022

Deals in Yangtze River Delta region accounted for nearly 40% of all the transactions, with Jiangsu ranked first in the size of deals, and the three major economic zones saw year-on-year growth in trading activities







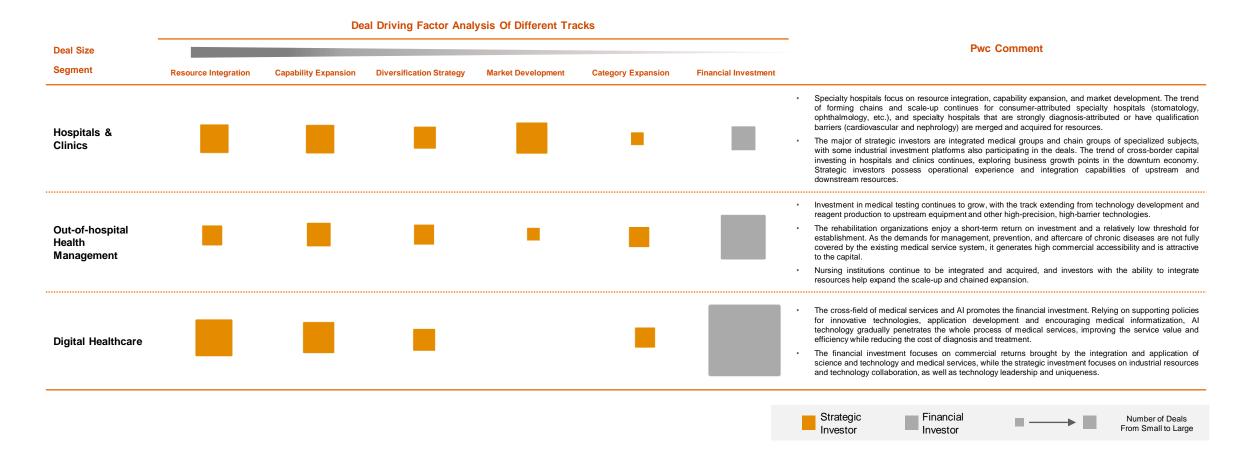


Note: 1. The medical expenditure per capita refers to the data in 2020, and the medical expenditure per capita in Hong Kong is converted to RMB based on the exchange rate by People's Bank of China on December 31, 2021; 2. The degree of population aging is the proportion of the total population aged 65 or above in each province in the seventh population census, 2020; the data in Hong Kong comes from the public data released by the government; 3. Data fluctuations are concluded based on comparisons between 1H 2022 and 1H21; 4. Statistics of the Yangtze River Delta region include Jiangsu, Zhejiang and Shanghai; 5. Statistics of Guangdong-Hong Kong-Macao include Guangdong Province only, and not Hong Kong and Macao.

Source: PEDATA, Thomson Reuters, public information and PwC analysis

Deals Driver Analysis by Segment





3 Deals Spotlight



Acquisition of hospital shares dominates in large deals of 1H 2022

Note: 1. The institution holds five dental hospitals; 2. The deal includes the equity acquisition of Yunnan Jiuzhou Hospital and Kunming Hewanjia Maternity Hospital; 3. The deal



	Target Company	Target Company Business	Main Investor	Type Of Investor	Round Of Deal	Driver Of Deal	Segment	Disclosed Deal Amount (in RMB100 million)
1	Suzhou Hongtian Medical ¹	Dental Hospital Operation	Taikang Life Insurance	Private equity	Acquisition of CI	38 8	=======================================	38. 2
2	HK Asia Medical	Cardiovascular Hospital Operation	Country Garden VC, Primavera, Taikang Life Insurance, ICBC International	Private equity	D	*		25.4
3	Novogene	Genetic Technology Products And Services	Undisclosed	Undisclosed	Private Placement	(\$	22.9
4	B-Soft	Medical And Health Informatization Services	Philips	Enterprise	Transfer of equity	38 8	+	12. 3
5	OncoCare Medical	Specialized Oncology Hospital Operation	Fosun Pharma	Enterprise	Acquisition of CI	<mark>888</mark>	=======================================	10.6
5	ST Hengkang	Integrated Hospital	New Mileage Capital	Enterprise	Acquisition of CI	% 8	=======================================	10.5
7	Guangdong Kangzhi Hospital ²	Specialized Reproductive Hospital Operation	Jinxin Reproduction	Enterprise	Acquisition of CI	<u>~</u>	=======================================	9.5
3	Mingzhou Rehabilitation Hospital ³	Specialized Rehabilitation Hospital Operation	Samsung Healthcare	Enterprise	Acquisition of CI	<u> </u>		8.4
9	Heren Health	Overall Solutions of Medical Informatization	TC Medical	Enterprise	Transfer of equity	*	+	7.7
0	Aidoc Medical	Al Healthcare	Technology Crossover Ventures, CDIB Capital	Private equity	D	(+	7. 4
	Capability Expansion	Category Expansion	Market Development	Resource Integration		Diversification Strategy		Financial Investment

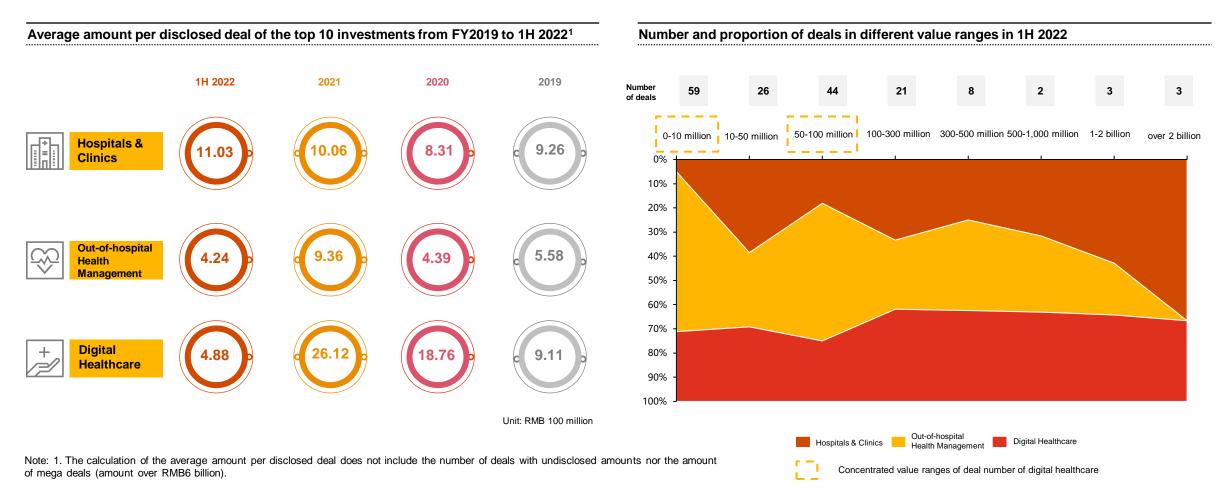
includes the purchase of equity of 5 Mingzhou Rehabilitation Hospitals.

Hospitals & Clinics

Out-of-hospital Health Management

The single investment of top amount transactions of hospitals and clinics is increasing year by year, with 60% deals are above RMB2 billion; Deal amounts for digital medical treatment are mainly distributed over the RMB tens-of-million to RMB hundreds-of-million range





Source: PEDATA, Thomson Reuters, public information and PwC analysis PwC Healthcare M&A Deal Trends in 1H 2022

M&A Trend by Segment





Hospitals and Clinics



Acquisition of shares for dental chains stays popular, and acquisition of shares for cardiovascular, oncology, kidney disease, and other specialties with significant clinical implications are active, with diversified drives and mainly by capability expansion



Target Company	Business of Target Company	Major Investment Institutions	Investor Type	Deal Round	Driver of deal	Disclosed Deal Value (in RMB100 million)
Suzhou Hongtian Medical ¹	5 Dental Hospitals	Taikang Life Insurance	PE	Acquisition of CI	%	38.2
HK Asia Medical	Cardiovascular Specialized Hospital	Country Garden VC, Primavera, Taikang Life Insurance, ICBC International	PE	D	*	25.4
OncoCare Medical	Private Oncology Hospital	Fosun Pharma	Corporate	Acquisition of CI		10.6
Hengkang Medical	Integrated Medical Group	New Mileage Capital	Corporate	Acquisition of CI		10.5
Guangdong Kangzhi Hospital ²	2 Assisted Reproduction Specialty Hospitals	Jinxin Reproduction	Corporate	Acquisition of CI	<u>~</u>	9.5
Mingzhou Rehabilitation Hospital ³	5 Rehabilitation Hospital Chains	Samsung Healthcare	Corporate	Acquisition of CI	<u></u>	8.4
Jiangxi Dakang Medical	Nephrology Specialized Hospital And Hemodialysis Center	Ganjiang New Area Health Industry Investment, Nanjing Hi-tech New Innovation, Central Enterprise Poor Regions Industry Investment Fund	PE	E	*	4.0
Shenzhen Glenfiled Oral	Dental Hospital Chain	Winsan Medical	Corporate	Acquisition of CI	₩	1.6
Pili Jichen	Dental Medical Services	EC Healthcare	Corporate	Acquisition of CI		1.1
Renshu Medical	Otolaryngology	Cenova	PE	Pre-B	(1.0
Capability Expansion	Category Expansion	Market Development Re	source Integration	□→□ Diversification	on Strategy	Financial Investment

Note: 1. The institution holds five dental hospitals: Suzhou Dental Hospital, Taian Dental Hospital, Kunshan Tongji Dental Hospital, Bengbu Dental Hospital and Wuxi Dental Hospital; 2. The deal includes the acquisition of controlling interest of Yunnan Jiuzhou Qinniao Reproduction Special Hospital and Kunming Jinxin Reproduction Hospital, with both hospitals being licensed by In Vitro Fertilization (VIF) and available for Assisted Reproduction Service (ARS); 3. The deal included the acquisition of controlling interests of five Mingzhou Rehabilitation Hospitals, namely Wuhan Mingzhou Rehabilitation Hospital, Changsha Mingzhou Rehabilitation Hospital, Changsha Mingzhou Rehabilitation Hospital and Ningbo Beilun Mingzhou Rehabilitation Hospital

Source: Pedata, Thomson Reuters, public information and PwC analysis

The average single deal amount increased for acquisitions of hospitals and clinics, 80% of which were acquisitions of shares

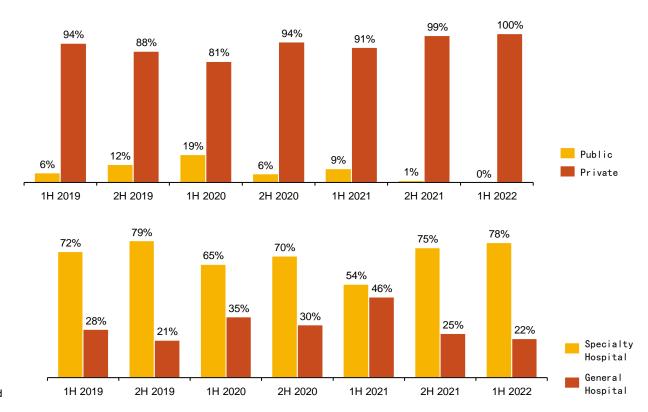


Numbers and amounts of hospitals and clinics deals, 2019 - 1H 2022

Number of deals 222 350 300 154 120 250 200 150 83 100 50 1H 2019 2H 2019 1H 2020 2H 2020 1H 2021 2H 2021 1H 2022 Average Single 1.9 2.0 1.8 2.7 1.8 3.4 1.2 Deal Amount¹ (in RMB100 million) Deal Amount (mega deals excluded) (in RMB100 million) (in RMB100 million)

Note: 1. the calculation of the average single deal amount disclosed does not include the number of deals with undisclosed amounts, and does not include the amount of mega deals (above RMB6 billion).

Number of deals of hospital and clinics in % 2019 - 1H 2022

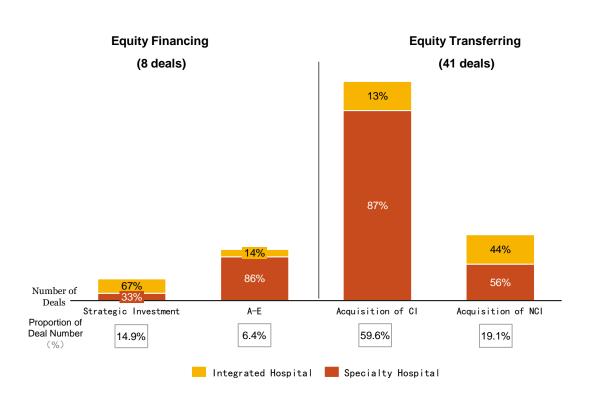


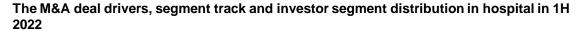
Source: Pedata, Thomson Reuters, public information and PwC analysis

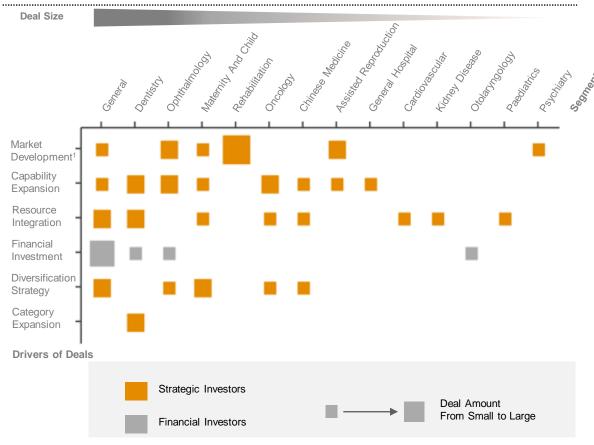
Equity resales of specialty hospitals continued to be active; strategic investments were primarily driven by the integration of upstream and downstream channels, brand resources, and the expansion of medical treatment and service capabilities



Numbers of deals for hospitals in %, by disclosed deal rounds, 1H 2022



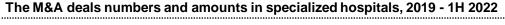




Note: 1. 5 of the market development-driven deals are Samsung Healthcare's acquisition of 5 Mingzhou Rehabilitation Hospitals, with one deal recorded for each hospital acquisition. Therefore, the number of deals is higher than the capacity expansion and resource integration type. If the impact of the change is excluded, the number of capacity expansion and resource integration deals is higher

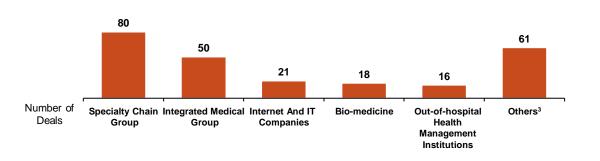
The track is led by deals for dentistry, ophthalmology, rehabilitation, maternal & child and assisted reproduction, with consumer attributed specialty chained institutions moving up in deal amounts; integrated medical groups and specialty chains are the main investors



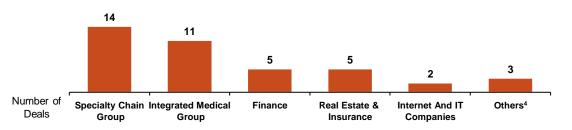




Number of M&A deals in specialty hospitals by strategic investors, 2019 - 1H 2022



Number of M&A deals in specialty hospital by strategic investors in 1H 2022



Note: 1. The calculation of the average single disclosed deal amount does not include the number of deals with undisclosed amounts, and does not include the amount of mega deals (above RMB6 billion); 2. Other specialties include cardiovascular and cerebrovascular, psychiatry, and otolaryngology. The cumulative and average single deal amount in 2019 - 1H 2022 and 1H 2022 was mainly due to the fact that the single financing amount of Hong Kong Asia Medical Group, a cardiovascular specialty hospital service brand, exceeded RMB2.54 billion and after deducting this deal, the average single deal amount was RMB180 million and RMB170 million, respectively; 3. Other types of investors include medical devices, manufacturing, insurance companies, financial industry, real estate, etc.; 4. Other investors include biopharmaceutical companies and construction engineering companies



Out-of-hospital Health Management



Genetic testing companies attract capital market's attention; rehabilitation institutions continued to be the investment hotspot; the value of prevention-oriented medical treatment reflected



	Target Company	Business of Target Company	Major Investment Institutions	Investor Type	Deal Round	Driver of Deal	Disclosed Deal Amount (in RMB100 million)
	Novogene	Gene Sequencing Services And Equipment	Undisclosed	PE	Capital increase/Private Placement	(22.9
2	Fourier ¹	Rehabilitation Training, Robotics	SoftBank, Vision Plus Capital, Prosperity 7 Venture	PE	D	(4.0
}	Sunowe	Senior Care Services, Health Consultation	Zhuji Tiancheng Hongwei Real Estate Co., Ltd. ²	Corporate	Acquisition of NCI	■ →□ →□ →□	3.4
	Carriergene	Reproductive Health And Oncology Genetic Testing	AstraZeneca CICC Medical Industry Fund, China Resources Zhengda Life Science Fund, Panlin Capital	PE	В	88	3.4
5	Amcarelab	Genetic Diseases And Oncology Genetic Testing	CICC, Bessen Medical Fund, GVCGC, Jointown	PE	В	(2.0
	OST Therapy	Children's Speech Therapy, Rehabilitation	Temasek, Taikang Capital, Eight Roads Cenova, Long Hill Capital, etc.	PE	D	(1.9
	Oriomics	Tumor Genetic Testing And Early Detection	Hotgen Biotech ³	Corporate	В	88	1.5
	ClaireView	Gene Therapy And Cell Therapy Technology Development	Metropolitan Investment, Harris Landon Group	Corporate	А	*	1.3
	Medmotion	Sports Rehabilitation	Qiming Venture Capital, Taifu Capital	PE	А	(1.0
)	Simple Mind	Mental Health	Cenova	PE	В	(1.0
000	Capability Expansion	Category Expansion	Market Development Reso	urce Integration	in Diversificati	ion Strategy	Financial Investments

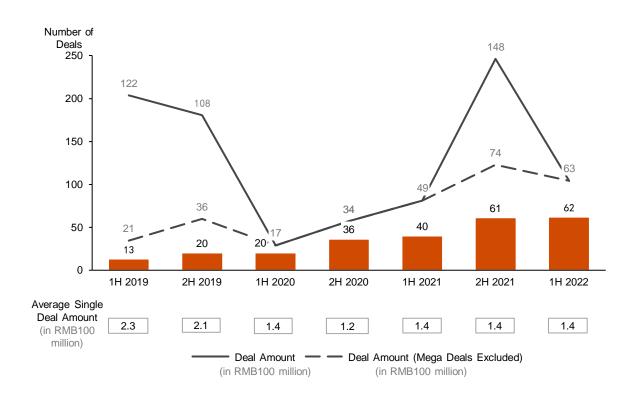
Note: 1. Fourier Intelligent Rehabilitation Robot provides rehabilitation services to more than 1,000 institutions and performs more than 400 million rehabilitation training actions; as of July 31, 2020, it has set up several intelligent rehabilitation projects in Shanghai, Zhejiang, Hubei, Hunan, etc.; The business scope of Zhuji Tiancheng Hongwei Real Estate is real estate development and operation, etc.; 3. Hotgen Biotech has a comprehensive layout of various liquid biopsy technologies for tumor early detection; the investment of Hotgen Biotech in Oriomics is "equity participation", not "controlling".

Source: Pedata, Thomson Reuters, public information and PwC analysis

Investments featuring third-party testing and wellness facilities are significantly higher in deal amount than other out-of-hospital health management facilities

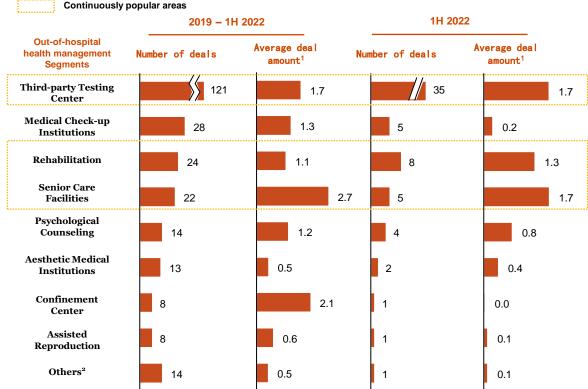


Number and amount of deals for out-of-hospital health management, 2019 - 1H 2022



Note: 1. the calculation of the average single disclosed deal amount does not include the number of deals with undisclosed amounts, and does not include the amount of mega deals (above RMB6 billion); 2. other segments of the track include nursing stations, patient intermediary services

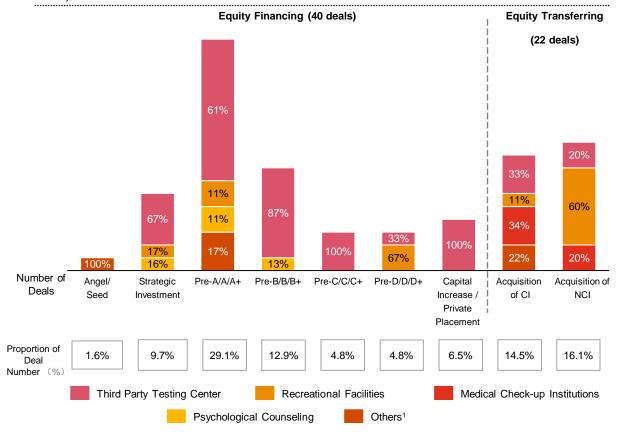
Number and amount distributions of out-of-hospital health management deals, by segments of the track, 2019 – 1H 2022



Early investment in third-party testing services stays popular; M&A integration and chainization of health institutions are accelerating under favorable policies



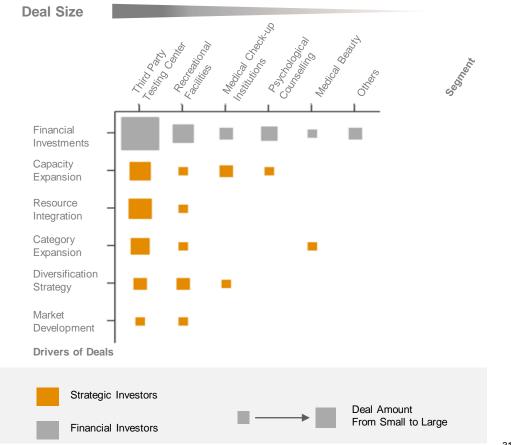




Note: 1. Others include the out-of-hospital health management track such as patient internment services

Source: Pedata, Thomson Reuters, public information and PwC analysis

The M&A deal drivers, segment track and investor segment distribution in out-of-hospital health management, 1H 2022





Digital Healthcare



Financial investments focused on the integration and application of digital technology and medical services, while strategic investments focused on technology and industrial resources cooperation, with emphasis on technology leadership and uniqueness



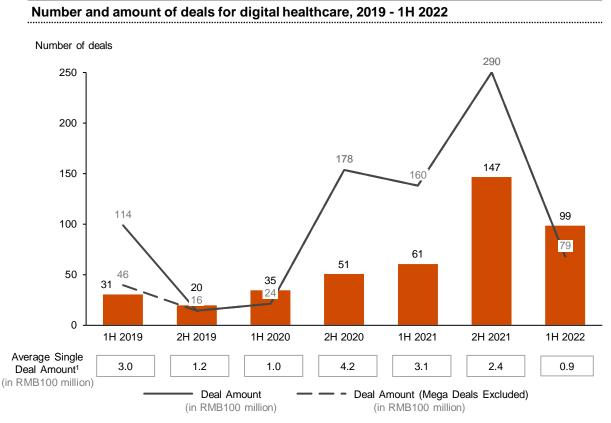
	Target Company	Business of Target Company	Major Investment Institutions	Investor Type	Deal Round	Driver of Deal	Disclosed Deal Amount (in RMB100 million)
I	BSOFT	Medical Information Technology Solutions	Philips	Corporate	Transfer of CI	8 8	12.0
!	Heren Health	Medical Information Technology Solutions	TC group	Corporate	Acquisition of NCI	*	8.0
3	Aidoc Medical	Al-assisted Treatment	Technology Crossover Ventures, CDIB International	PE	D	(7.0
	Sibionics (Shenzhen)	Al Medical Imaging & Pathology	CPE Fund、China Life Invest, Qianhai FOF, JG Invest, etc	PE	C++	*	5.0
;	Xingmai IT	Al Medical Imaging & Pathology	Fosun Pharmaceutical Group	Corporate	Acquisition of CI		3.4
	Medicalsystem	Medical Information Technology Solutions	Mianyang Anxian Investment Holding ¹	Corporate	Acquisition of NCI	*	3.4
	HugoBiotech	Disease Diagnosis & Management Platform	Long Capital, LYFE Capital	PE	С	%	3.0
	Singlera	Disease Diagnosis & Management Platform	Fstone Capital, CGS, Sansure Biotech, etc	PE	B+	(5)	3.0
	Aden Tech	Al Application And Medical Big Data Platform	Dingying Investment, LegendStar, Beijing Sinoloom, etc.	. PE	В	(2.0
)	Palline	Medical Big Data Platform	Bluerun Ventures, Yunqi VC, etc	PE	Α	(4)	2.0
98	Capacity Expansion	Category Expansion	Market Development Resc	ource Integration	■→□ Diversificati	on Strategy	Financial Investments

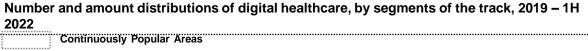
Note: 1. The actual controller of Mianyang Anxian Investment Holding is Anzhou District State-owned Assets Supervision and Administration Commission of Mianyang City

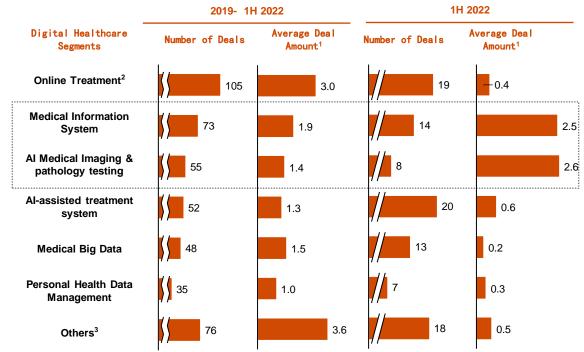
Source: Pedata, Thomson Reuters, public information and PwC analysis

Artificial intelligence, big data, and information technology are hotspots for investment with increased average amounts of single disclosed deal in AI medical imaging and pathology testing, and medical information systems







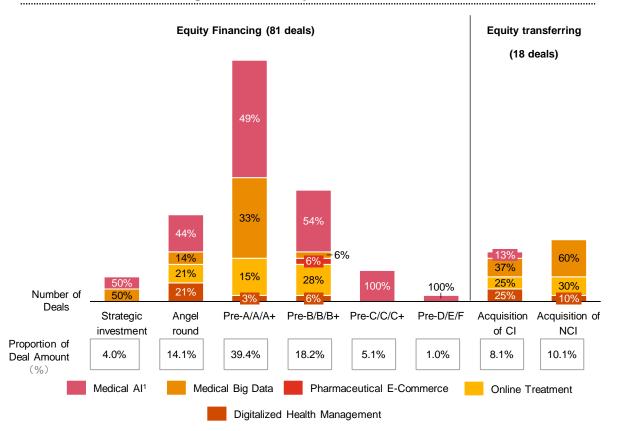


Note: 1. the calculation of the average single disclosed deal amount does not include the number of deals with undisclosed amounts and does not include the amount of mega deals (above RMB6 billion); 2. online treatment refers to disease diagnosis and management platforms, including remote chronic disease management platforms, online consultation platforms, etc.; 3. other segments of the track include AI medical robotic system, personal health data management, health knowledge science platform, medical information system, medical big data, digital marketing of medicine, pharmaceutical e-commerce, digital therapy, intelligent medical case

With the aid of financial investors, digital healthcare achieved R&D and downstream application channel development; with the aid of industrial investors, digital healthcare achieved resource integration, technical capability breakthrough, and product power upgrading



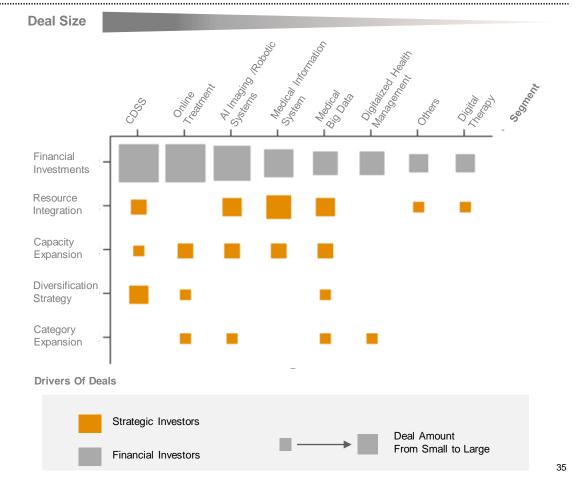
Number of M&A deals in digital healthcare by disclosed deal round in %, 1H 2022



Note: 1. Medical Al includes digital healthcare areas related to artificial intelligence such as Clinical Decision Support Systems (CDSS), Al imaging/robotic systems, etc.

Source: Pedata, Thomson Reuters, public information and PwC analysis

The M&A deal drivers and distributions by track segments and investor types in digital healthcare, 1H 2022



5

Key Issues of IPO for Healthcare Companies



Digital medical companies take up half of the healthcare companies to be listed; specialty hospital and clinic chains are ready to go public



Medical service companies to be listed in 1H 2022

	Company	Board	IPO Date ¹	Industry	Track Type	Process ²
+	Eddatech	HKEx Mainboard	2022-01-10	Digital Healthcare	Al Medical Robotic Systems	Lapsed ³
+	ETAO International	Nasdaq	2022-01-31	Digital Healthcare	Medical Big Data	Submitted Prospectus
+	Pulse Medical	HKEx Mainboard	2022-02-11	Digital Healthcare	Al Image Detection	Lapsed ⁴
+	Keep	HKEx Mainboard	2022-02-25	Digital Healthcare	Digital Health Care	Lapsed ⁵
+	Medbanks	HKEx Mainboard	2022-02-25	Digital Healthcare	Disease Diagnosis And Treatment Platform	Submitted Prospectus
+	ClouDr	HKEx Mainboard	2022-03-01	Digital Healthcare	Medical Big Data	Listed ⁶
\$	Adicon	HKEx Mainboard	2022-03-04	Out-of-hospital Health Management	Third-party Testing	Submitted Prospectus
+	Dingdang Health	HKEx Mainboard	2022-03-16	Digital Healthcare	Pharmaceutical E- commerce	Passed ⁷
*	Clifford Hospital	HKEx Mainboard	2022-03-23	Hospitals and Clinics	Single-site General Hospital	Submitted Prospectus

	Company	Board	IPO Date ¹	Industry	Track Type	Process ²
	 Dental Doctor	HKEx Mainboard	2022-03-29	Hospitals and Clinics	Dental Clinic	Submitted Prospectus
	Center Technology	HKEx Mainboard	2022–04–19	Digital Healthcare	Disease Diagnosis And Treatment Platform	Submitted Prospectus
2	Beauty farm	HKEx Mainboard	2022-04-22	Out-of-hospital Health Management	Medical Aesthetic Institutions	Submitted Prospectus
	China Dental Medical Group	HKEx Mainboard	2022-04-29	Hospitals and Clinics	Dental Clinic	Submitted Prospectus
	Meizhong Jiahe	HKEx Mainboard	2022-05-31	Hospitals and Clinics	Oncology Clinic	Submitted Prospectus
Š	Barley	HKEx Mainboard	2022-06-29	Out-of-hospital Health Management	Hair Transplant Clinics	Submitted Prospectus
	Lu Daopei Hospital	HKEx Mainboard	Proposed IPO	Hospitals and Clinics	Hematology	Not Started Ye
	Wuhan Asia Heart Hospital	HKEx Mainboard	Proposed IPO	Hospitals and Clinics	Cardiovascular Department	Not Started Ye
	IFLY Health	HKEx Mainboard	Proposed IPO	Digital Healthcare	Ai-assisted Diagnosis And Treatment	Not Started Ye

Note: 1. Time of prospectus submission/initiation of IPO counseling; some companies submitted prospectuses in 2021 but have not yet been listed, including; Huaxia Eye, Sanbo Hospital, Shulan Hospital, etc.; 2. Main nodes of IPO progress: 1) not yet started; 2) in counseling period, not yet declared; 3) submitted prospectus; 4) lapsed; 5) passed/failed to pass/ suspended IPO, to be listed information as of 31 August 2022; 3. on 11 July 2022, the status of the Eddatech's IPO application was changed to "lapsed" due to the failure to pass the hearing within 6 months after the filing of the prospectus; 4. Pulse Medical IPO application status was changed to "lapsed" on 12 August 2022 due to failure to pass the hearing within 6 months of filing the prospectus: 5. Keep's IPO application status was changed to "lapsed" on 26 August 2022 due to failure to pass the hearing within 6 months of filing the prospectus; 6. ClouDr was officially listed on the Hong Kong Stock Exchange on 6 July 2022; 7. Dingdang Health passed the HK Exchange hearing on 17 August 2022



Hospitals and

Out-of-hospital Management



Healthcare

Source: Pedata, Thomson Reuters, public information and PwC analysis

Listed companies in 1H 2022 are mainly specialty clinic chains and medical testing organizations; the newly-listed medical testing organizations outperform companies of other tracks in the stock prices and performances



List of listed healthcare service companies in 1H 2022

Company	Board	IPO date	Industry	Field	Initial Fund Raising Amoun (in RMB100millio		Net Profit Margin (%)	EBITDA (%)	Market Capitalization Of IPO Day And Current ² (in RMB100 million) Share Price Movement After Listing ³
He Eye Hospital	GEM	2022-03-22	# ::::::::::::::::::::::::::::::::::::	Ophthalmology Clinic	13.0	963.7	6.97%	25.45%	60 54
Huakang Medical	GEM	2022-01-28	+	Hospital System Providers	10.4	785.5	7.28%	13.07%	49 41
YunKang Group	HKEx Mainboard	2022-05-18	8	Third-Party Testing Organization	9.6	1, 211. 5	21.92% ⁴	30.24%	52 112
Arrail Group	HKEx Mainboard	2022-03-22	## H H H H H H H H H H H H H H H H H H	Dental Clinic	6.8	1,516.3	7.44%	-26.11%	80 75
Cowealth Medical	SH/SZ Mainboard	2022-02-16	8	Third-Party Testing Organization	4. 2	1, 229. 8	6.66%	11.02%	24 50
Megagenomics	HKEx Mainboard	2022-06-22	8	Third-Party Testing Organization	2.2	204.2	38.90% ⁴	46.97%	43 43
ClarityMedic	HKEx Mainboard	2022-02-18	====	Ophthalmology Clinic	2.0	222.4	16.11%	18.58%	8 6

Note: 1. Revenue data as of 31 December 2021; 2. Market capitalization as of 30 June 2022; 3. Post-IPO stock price trend is from the IPO date to 30 June 2022; 4. The net profit margin of YunKang Group is the after-tax profit margin from continuing operations in FY2021, and Mainline is based on the net profit margin in FY2020

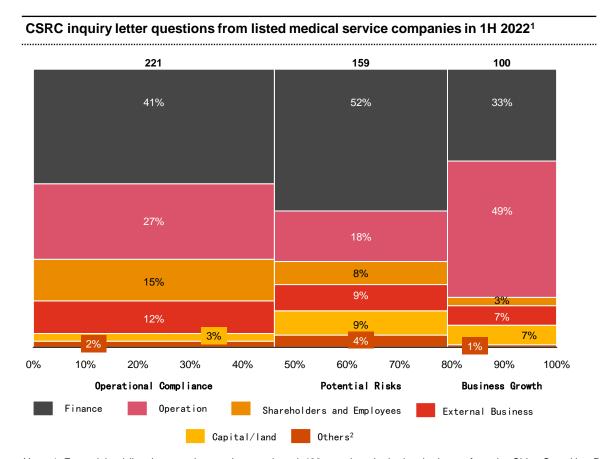


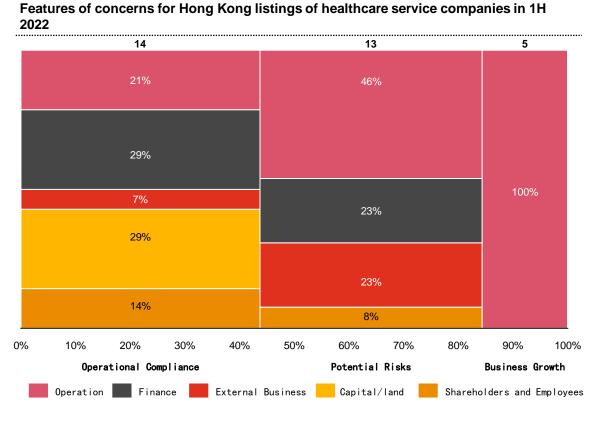
Out-of-hospital Health Management



Key listing issue differs for medical service providers going listed in Mainland China and Hong Kong, mainly related to financial/operational compliances







Note: 1. For mainland listed companies, we have gathered 480 questions in the inquiry letters from the China Securities Regulatory Commission for mainland listed companies, and for Hong Kong proposed listed companies, we have gathered over 30 questions for anonymous healthcare companies in the Hong Kong Stock Exchange's listing decision documents in the past ten years since 2012. 2. "Others" includes foreign market relations, data authority, history and changes, etc.

Source: Pedata, Thomson Reuters, public information and PwC analysis

Mainland listings focused on financial and business process compliance and changes that deviate from industry common sense, while Hong Kong focused on legal compliance and material integrity



HK listing Key Issues¹ Mainland listing Key Issues¹ 耍 Abnormal financial situations such as a large number of cash deals to match the Compliance of financial activities with Mainland/Hong Kong tax laws and business, deliberate misrecording of accounts, the timing of revenue recognition, regulations: compliance of shareholders and management with the lock-up management fee rates higher than the industry average, cost accounting period for profits from stock sales; deliberate tax avoidance by shareholders methods, etc. · Compliance with 18-A core product eligibility requirements for products that have Focus on illegal acts in sales, procurement and bidding, and foreign hospital applied for overseas/mainland approved clinical trials; material integrity of the Operational cooperation; whether medical institution construction and operation comply with distribution business model Compliance safety and environmental protection regulations, and business activities that are Change in control and ownership of the company in the last year; compliance different from common sense or industry characteristics with the planned sales of share options to the trusts; explanation and disclosure Illegal behavior of shareholders and management, external relations, transfer of of bribery incidents G Long recovery cycle, the excessive proportion of accounts receivable, etc., · Loan guarantee of related personnel from banks; foreign exchange risk hedging impairment charges for market fluctuations, abnormal changes in financial data during a certain period Over-reliance on the upstreams and the downstreams; specific measures in Excessive reliance on a physician for revenue; incomplete disclosure of main **Potential Risks** respond to regulatory policy changes, increasing market costs and insufficient business may mislead investors; incomplete disclosure of planned arrangements demand in medical industry; customers disputes, administrative penalties and etc. in subcontracting operations; rebates from distribution operations · Explanation of the deviation of the number of personnel, per capita salary and Export of products to sanctioned countries: bribery incidents rent amounts from the operating financial data; the large gap between various personnel expenses and that of the same industry ₽ Performance regression, insufficient growth in the existing business, no business · Granularity of disclosure levels according to core indicators such as gross margin of products or services, changes in core indicators, explanation of price improvement plan provided; no disclosure of market position in terms of OEM/ODM and private label sales; high dependence on major customers and no **Business Growth** · Status of industry position and competitiveness; sustainability and growth of indication of initiatives to reduce dependence business model; explanation of operation-related features The impact of operating qualifications and credit lines on operations; the commercial rationality of the establishment of branches and other actions, and whether the external business model is in line with industry characteristics Performance

Note:1. For mainland listed companies, we have gathered 480 questions in the inquiry letters from the China Securities Regulatory Commission for mainland listed companies, and for Hong Kong proposed listed companies, we have gathered over 30 questions for anonymous healthcare companies in the Hong Kong Stock Exchange's listing decision documents in the past ten years since 2012; 2. not all concerns have been exhausted in the above-mentioned collection, and questions are summarized according to the frequency of keywords in the inquiry letters.

Source: Pedata, Thomson Reuters, public information and PwC analysis

Data Methodology and Disclaimers



Statistics from earlier news releases may not match the data in this study and press release. There are three main explanations for this: first, PwC excludes some transactions that are essentially not a transfer of control but more like an internal corporate restructuring; second, PwC data from prior years is sourced from other sources; and third, the ClearBridge Database and Thomson Reuters regularly update their historical data when deals are finalized or completed.

_	Investments in listed and unlisted companies (minimum 5% ownership) Spin-off of assets (including spin-off of wholly-owned subsidiaries through listing)		Spin-off of assets (including spin-off of wholly-owned subsidiaries through listing)	•	Non-medical service industry
•	Change of control resulting from acquisitions of listed and unlisted companies	•	Reverse takeover and special purpose acquisition company (SPAC) M&A deals	•	Rumored but unannounced d
•	Leveraged buyouts, management buyouts, management share sales	•	Corporate restructuring, reorganization, bankruptcy dispositions and auctions	•	Options to acquire additional with the acquisition of 100% e
	Business or asset divestitures resulting in a change		Directed share issuance and repurchase for non-actual		

· Transfer of shares by agreement

· Capital increase by non-controlling shareholders/new

controllers

Joint venture company buyout as a whole	shareholders	

<u>-</u>	
laint continue among and	Tracking Stock in the course of corporate equ

•	Joint venture arrangement	•	restructuring

Re-injection of capital	 IPO¹
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of control at the parent company level

Business merger

Deals included

•	Solicitation of acquisitions	•	De-listing and privatization deals of listed companies
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Deals excluded

•	Non-medical service industry deals	•	Investment in new construction projects (including investment in hospital greenfield projects)
•	Rumored but unannounced deals	•	Non-fairly priced deals
•	Options to acquire additional equity interests offered in connection with the acquisition of 100% equity interests	•	Related party transactions under the same control
•	Purchase of trademark usage rights	•	Share repurchase by controlling shareholders
•	Transfer of assets	•	Capital increase by controlling shareholders
•	Capital raising in fund market		
•	Mutual fund share purchase		
•	Open market repurchase or cancellation of shares of listed companies beyond the company privatization		
•	Balance sheet restructuring or internal restructuring		

Note: 1. IPO trading are not included in the overall deal amount and number of deals, and are presented and discussed separately in the listing section

Source: Pedata, Thomson Reuters, public information and PwC analysis

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Thank you!

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