CONFRONTING COVID-19

An Ipsos perspective on the impact of the MedTech Industry in China

PART 2

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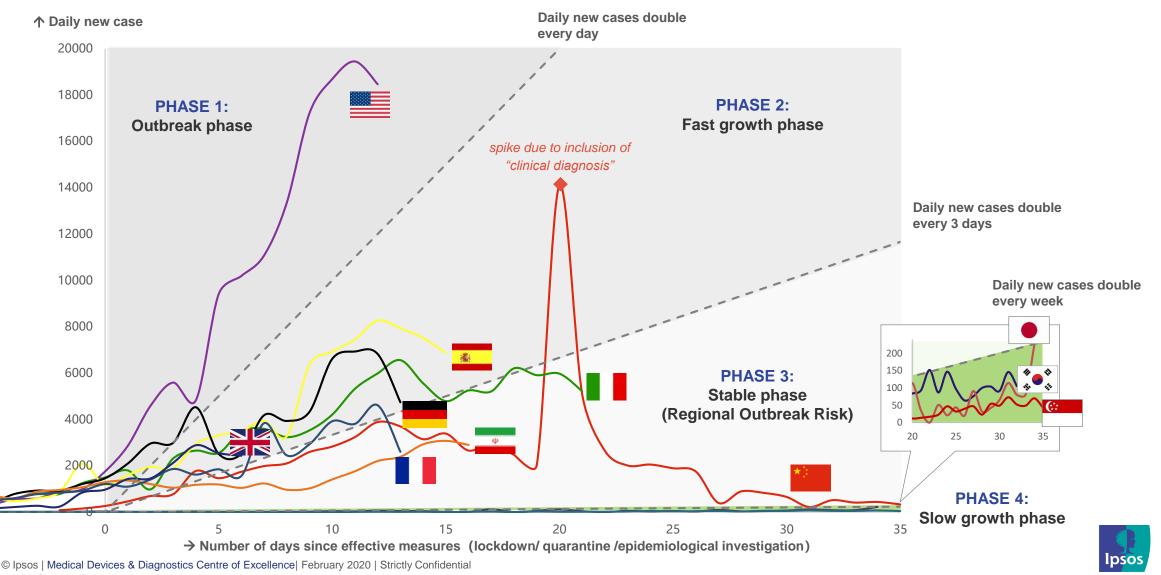
• COVID-19 global trends and impact on China's healthcare industry in Q1

- Global outbreak tracking, and potential risks and challenges
- > Impact on the value of healthcare in China, and expected recovery
- Forecasting the speed of recovery for outpatient, inpatient and surgery volumes in China for 2020
- Forecasting the impact on the medical devices & diagnostics market in 2020, and the market's subsequent development during China's14th Five-Year Plan
- Hospital volumes and consumables tracking (Jan. and Feb. 2020): An Ipsos study, sampled from 40 hospitals in major provinces across China
 - > Extent of the impact on hospital outpatient, inpatient and surgery volumes
 - > Year-on-year comparison of surgery volume in main departments
 - > Usage change in the volume of selected low and high value consumables



COVID-19: GLOBAL TRENDS AND IMPACT ON CHINA'S HEALTHCARE INDUSTRY IN Q1

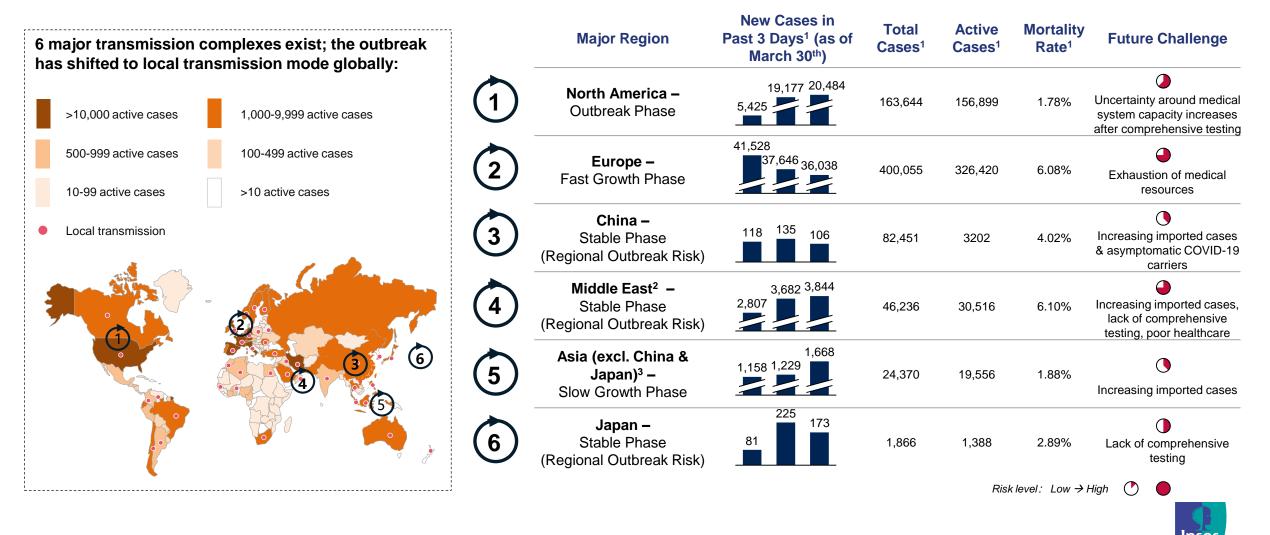
There are four phases to the COVID-19 outbreak; the most affected countries have taken effective measures to minimize the spread



Source:1. WHO and official data as of March 30; 2. Ipsos Analysis

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Europe and North America have become the "epicenters" of the pandemic, while others still face risk of regional outbreak clusters



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Source: 1. WHO and official data as of March 30; 2. Eastern-Mediterranean WHO region; 3. Includes Western Pacific (excl China and Japan) and South-East Asia WHO regions; 4. Ipsos Analysis

The pandemic has caused significant disruption to R&D in China; however healthcare services and patient visits are beginning to recover

	Pharma/ MedTech R&D	Manufacturing	Distribution	Healthcare Service	Patients
urrent Iation in China	 20% of clinical trials have been suspended, esp. those in Wuhan, nationwide COVID-19 designated hospitals, and nationwide respiratory & infection departments 70% of clinical trials have been postponed 	 99% of pharma and medical manufacturers have restarted operation, especially the medium-large- scale plants Aggravating impact on imports, as the outbreak overseas exacerbated 	• 99% of national pharmacy distributors and local distributors have returned to operation by end of Q1	 Inpatient volume has recovered to 65% of normal level, outpatient to 85%; hospital capacity is in recovery as medical staff that were dispatched to Hubei return 90% physical examination service is still in early recovery 	 chronical illness start to visit hospitals, while those with less severe conditions avoid medical consultation due to fear of infection 99% patients
China covery ospect	 Slow and steady recovery expected in Q2 in most provinces; still facing limited principal investigator capacity, and patients' fear of infection Widespread clinical trial delay across the globe, due to outbreak in USA and Europe 	>60% of pharma and MD&D imports' supply will be delayed, especially biologics, blood/serum, vaccine, wound management, radiology equipment from EU and USA, etc.	Logistics capacity and hospital SPD service to be fully recovered	 99% of outpatient and inpatient servicing capacity will recover to normal levels in Q2, except Hubei 70% recovery of hospital service capacity expected in Q2 in Hubei province 	 ~99% of those requiring medical treatment will gradually visit hospitals/clinics in Q2, except Hubei Physical examination will gradually recover in Q2

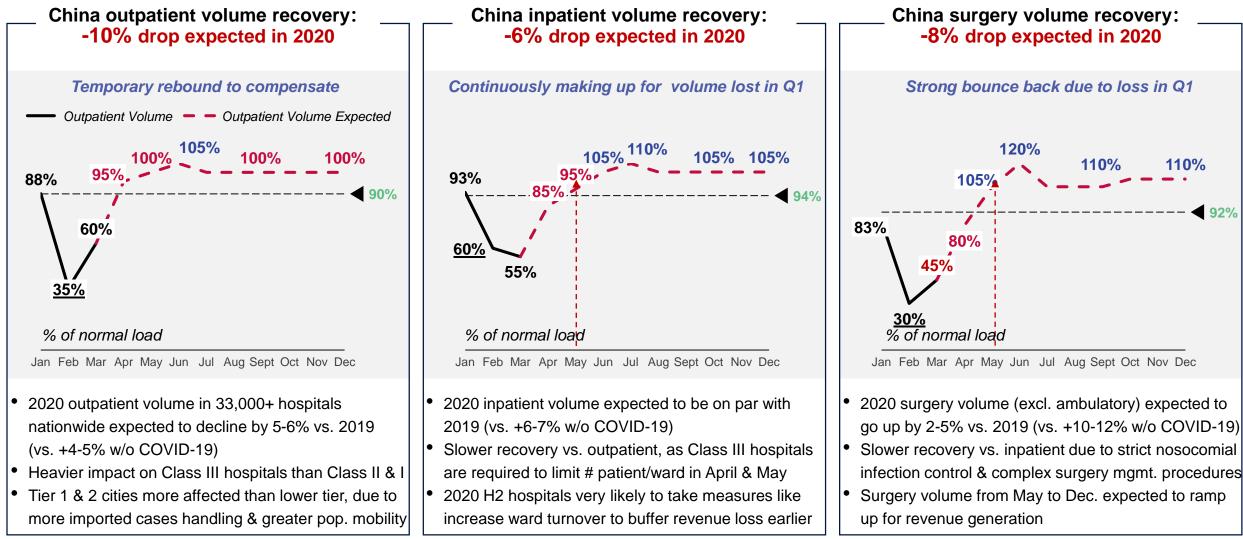
HEALTHCARE VALUE CHAIN IN CHINA

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Patient volumes in Q1 2020 dropped, due to COVID-19. However, hospital intakes started to recover since late March, limiting annual drop to <10%

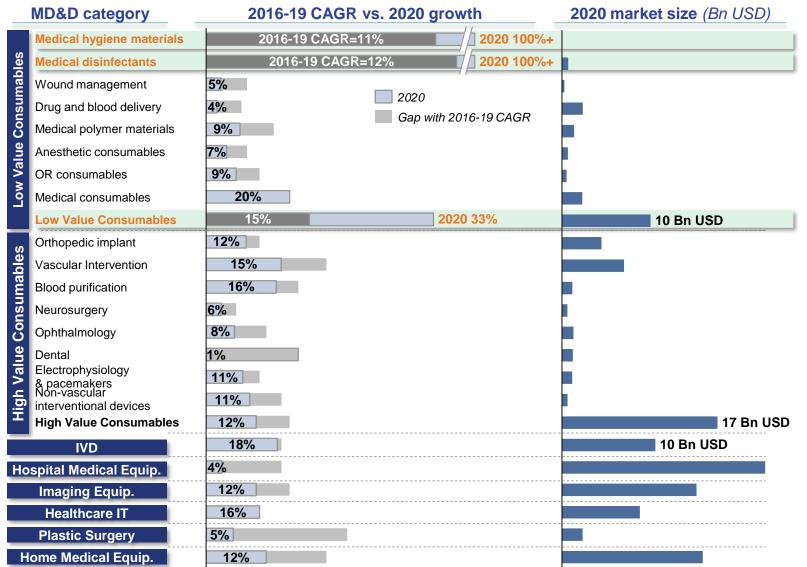


NB: based on the hypothesis of no nationwide secondary outbreak; data includes c. 12k public hospitals and c. 21k private hospitals © Ipsos | Medical Devices & Diagnostics Centre of Excellence| February 2020 | Strictly Confidential

Source: Ipsos hospital monitoring database, Ipsos Analysis

In 2020, China expects higher growth than initially forecasted in low-value consumables

and IVD segments; healthcare IT is expected to benefit from hospital digitalization



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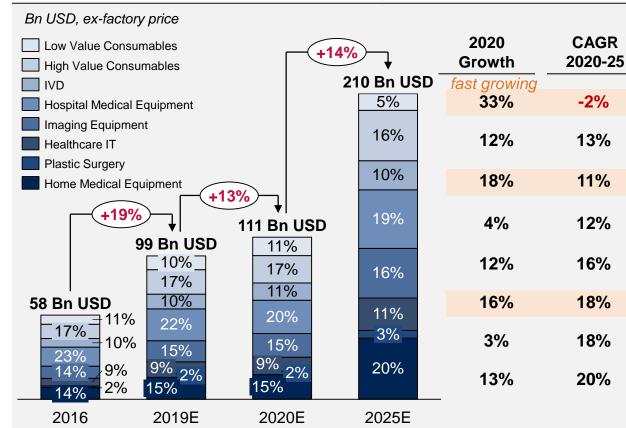
Source: < China MedTech Blue Book 2019>, EvaluateMedTech : World Preview 2018, Outlook to 2024, Ipsos MedTech Sales Monitoring Database

Large growth potential in China

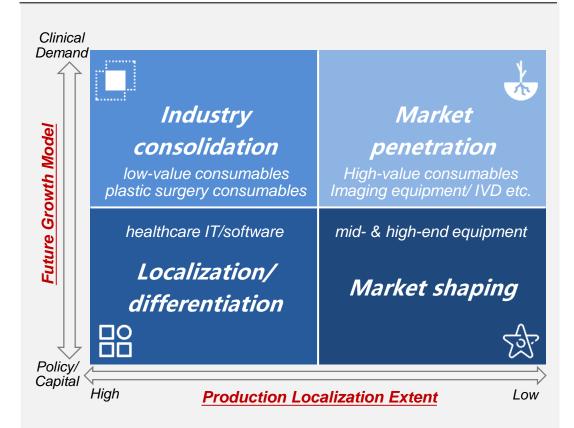
- Surging demand for low-value consumables now presents risk for redundant stock after Q3
- >300% growth of medical disinfectants and hygiene materials e.g. masks and protective suits, expected in 2020 H1
- Accelerated hospital digitalization :
- ✓ By 2020 YE, Class III hospitals' electronic medical record system should reach level 4, Class II hospitals to reach level 3
- Further digitization has been prompted by development of online diagnosis, hospital interconnectivity, DRGs (Diagnosis Related Groups) payment system & medical alliance
- Increasing demand for COVID-19 point of care tests & reagent kits stimulates growth of the IVD market; more fever clinics being set up and ongoing medical service capability buildings in lower tier cities also help sustain IVD growth
- Short-term negative impact is seen on high-value consumables, with rapid rebound expected in Q2
- Orthopedics, cardiovascular & blood purification are expected to have a fast recovery, and gradually slow in H2
- Rising domestic demand for medical and imaging equipment in Q1, while a surge in export is expected in Q2; hospital equipment purchase and renewal will be delayed due to revenue loss in Q1

MD&D growth in 2020 and during China's 14th 5-year Plan is expected to stay at ~13-14% p.a., with accelerated concentration in sub-categories

China MD&D market size 2020 and development forecast during 14th 5-year Plan



- MD&D market has been steadily growing, but expected to slow down to 13% in 2020
- During the 14th 5-year Plan, different categories of consumables are to develop differently, with imaging, healthcare IT, home medical equipment and plastic surgeries maintaining fast growth, while low-value consumables may drop to -2% p.a.



MD&D market strategic outlook

• MD&D market is expected to further consolidate and concentrate during the 14th 5-year Plan, driven by policies that encourage smart hospitals, better medical resource in lower tier cities etc., flourishing capital markets and expedited localization

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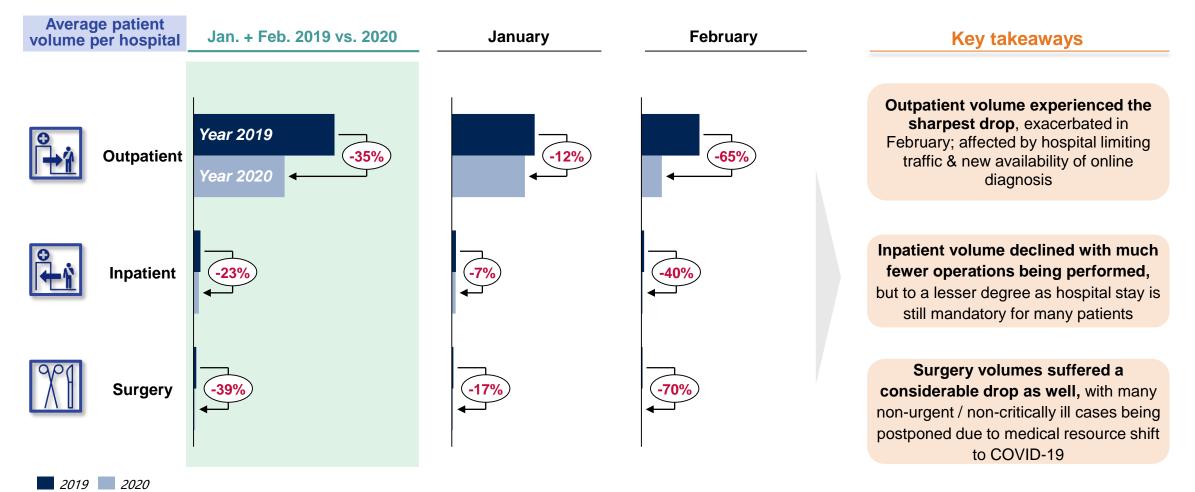
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Source: < China MedTech Blue Book 2019>, EvaluateMedTech : World Preview 2018, Outlook to 2024, Ipsos MedTech Sales Monitoring Database

HOSPITAL **VOLUME AND** CONSUMABLES **TRACKING IN** JAN. AND FEB. 2020: AN IPSOS STUDY

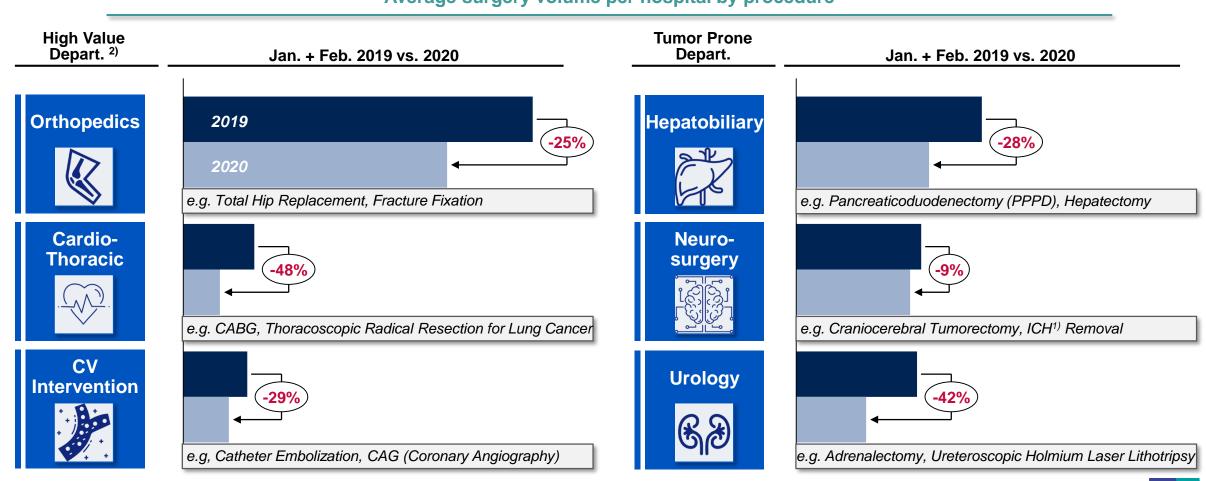


Due to the allocation of resource to COVID-19 and fear of infection, the number of hospital visits declined in January and February





Surgery volumes in all major departments dropped in January & February, as many were postponed, except those addressing critical conditions



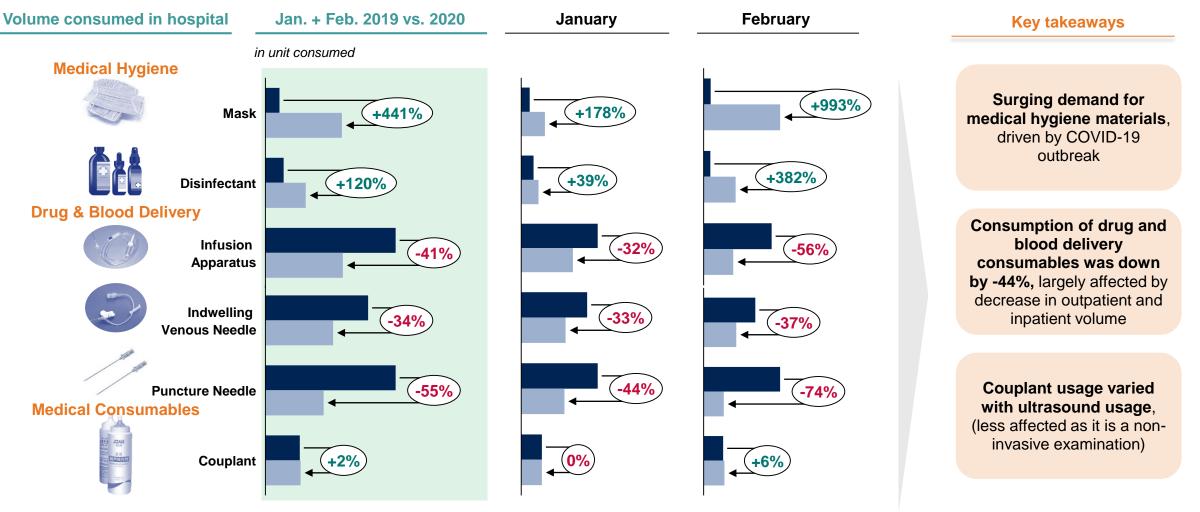
2019 2020

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Average surgery volume per hospital by procedure

Note: 1) intracranial hemorrhage 2) departments that have heavier usage of high value consumables © Ipsos | Medical Devices & Diagnostics Centre of Excellence| February 2020 | Strictly Confidential Source: Ipsos Hospital Monitoring Database, Ipsos Analysis

Medical hygiene consumables experienced explosive growth in February, with masks reaching growth of 993%



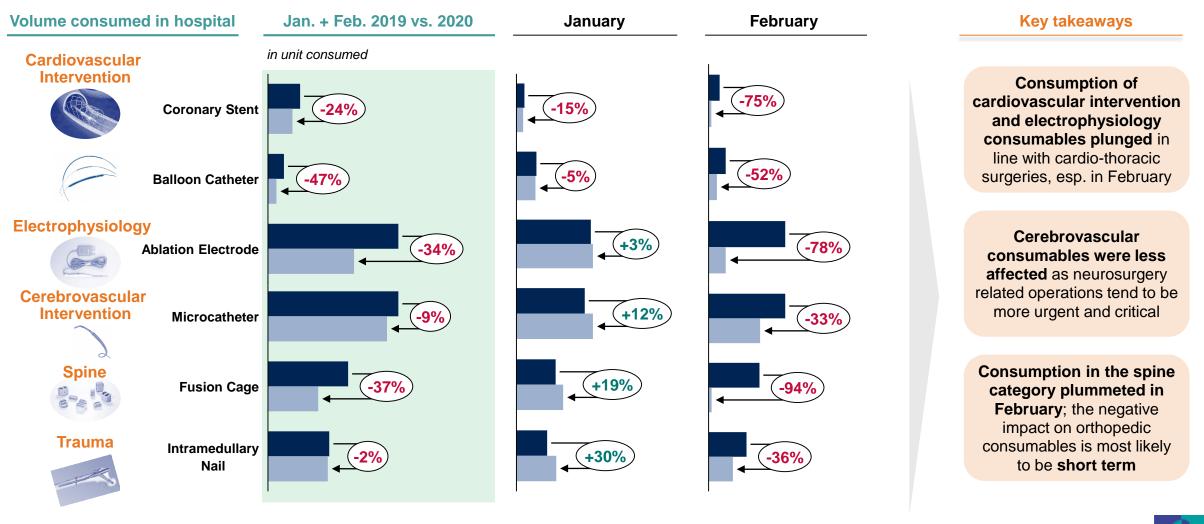
2019 2020

NB: volume consumed covers all departments and outpatient clinics

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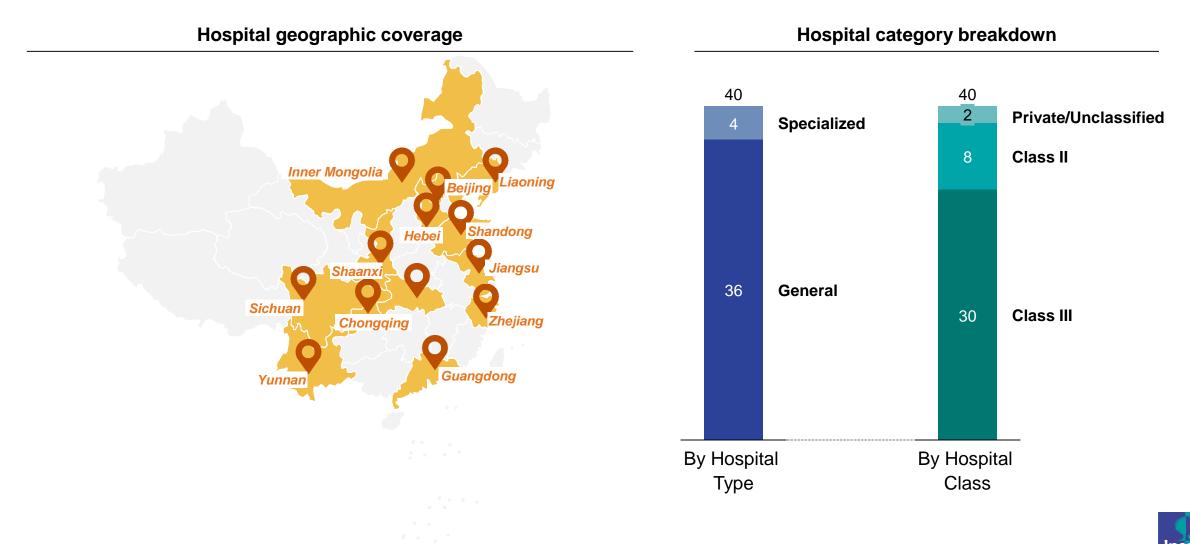
High-value consumable volumes, such as cardiovascular interventions, drastically declined





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The dataset covers a list of 40 hospitals across China, comprising mostly general and Class III hospitals



THANK YOU!

Please contact us!

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