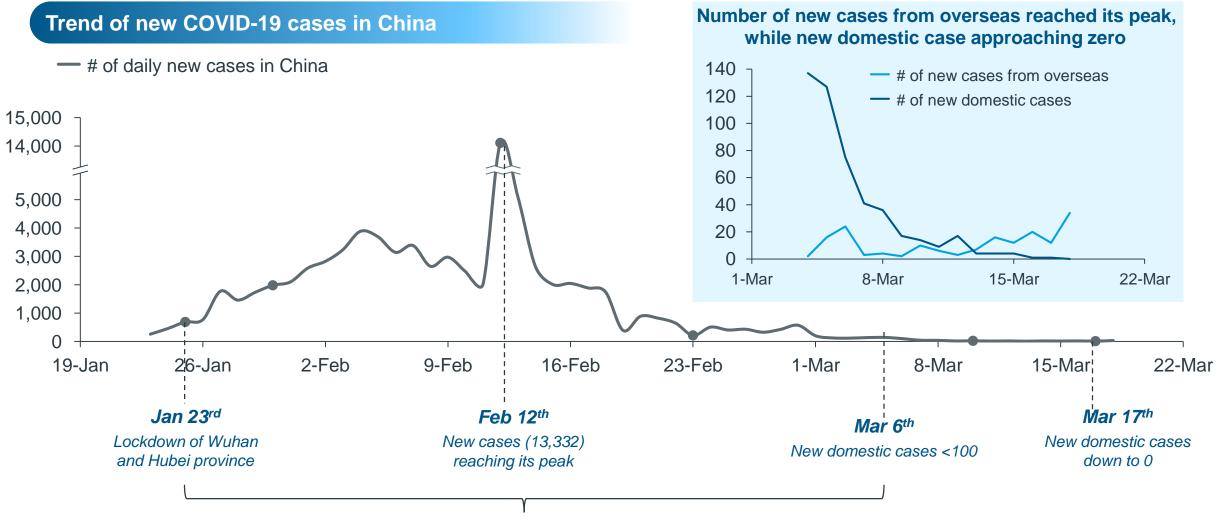
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Update on COVID-19 Pandemic in China and its Impact on Pharmaceutical Market

IQVIA Management Consulting March 20, 2020

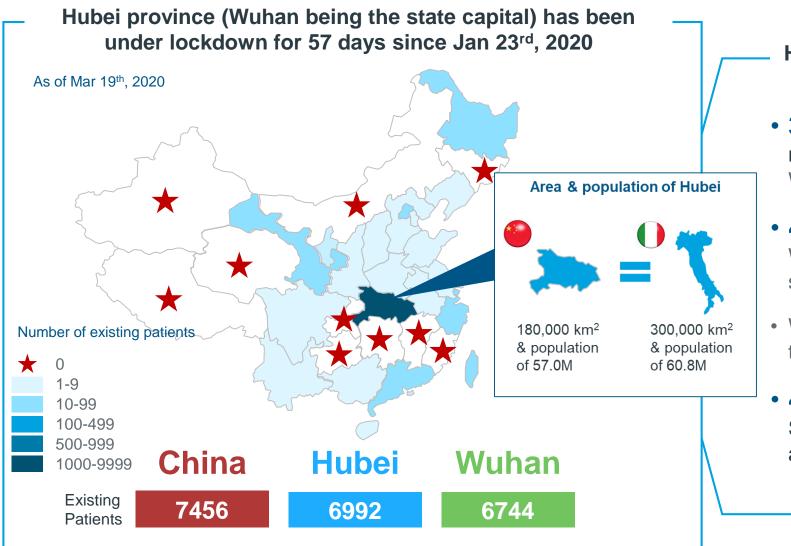
In China, the battle ground for COVID-19 pandemic is shifted to screening and isolating imported cases from overseas



7~8 weeks China public health emergency battling COVID-19 pandemic



In the last 24 hours, the whole China, including Hubei has zero new domestic cases, but 34 imported cases



Hubei province, excluding Wuhan, is being unlocked

- **3,675 medical professionals** from **41** nationally recruited medical teams has left Wuhan
- **46 COVID-19 designated hospitals** in Wuhan planned to resume regular services in April
- Wuhan aside, Hubei is gradually removing traffic blockade
- **49.3% manufacturers**, mostly large SOEs has reopened, with the rest reopen after March 20



Life outside Hubei is expected to return to normal in April, while recovery in Hubei is expected in June



Manufacturing







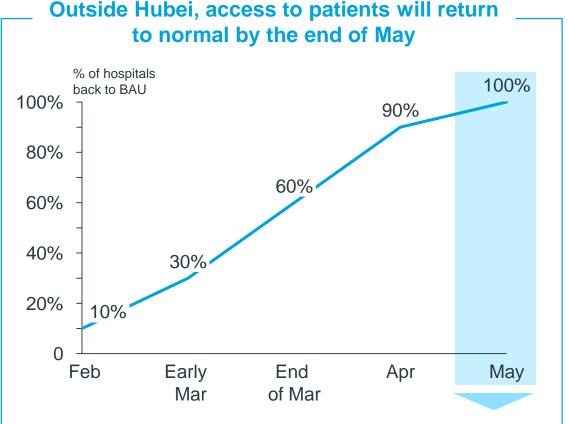


- >90% manufacturing reopened outside Hubei, 49.3% in Hubei
- Pharmaceutical, chemical and electronics industries have recovered to \sim **70%** of original capacity
 - Government has taken actions to stimulate the economy, including low interest loan, tax subsidy and deferral
 - Service sector has recovered to 67% of level seen in 2019 Q4 nationwide, ~30% in Wuhan
 - 90% of supermarkets, retail stores, restaurants and hotels have re-opened nationwide
 - Nearly **100%** of cross-state highways reopened and **80%** local traffic resumed nationwide

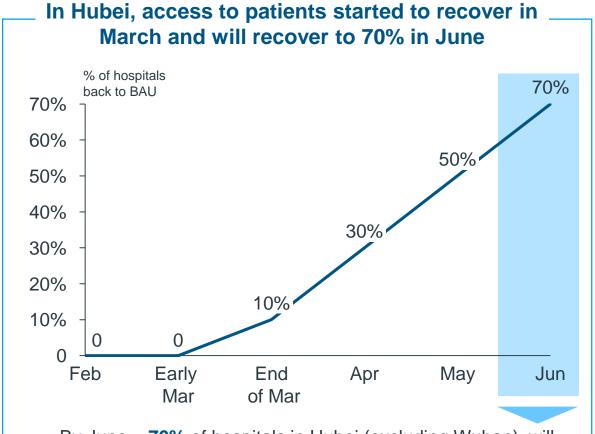
- Other than Wuhan, Hubei unblocked all communities on Mar18th
- Schools are already open in 3 provinces (Qinghai, Guizhou, Xinjiang)
- All schools outside Hubei will gradually open throughout April
- Hubei schools are expected to reopen in June



Hospitals/Sites increasingly re-opened from Feb, and 100% of the sites outside Hubei will resume patient access by the end of May



 By end of May, ~100% of the hospitals (outside Hubei) will resume services with patient access



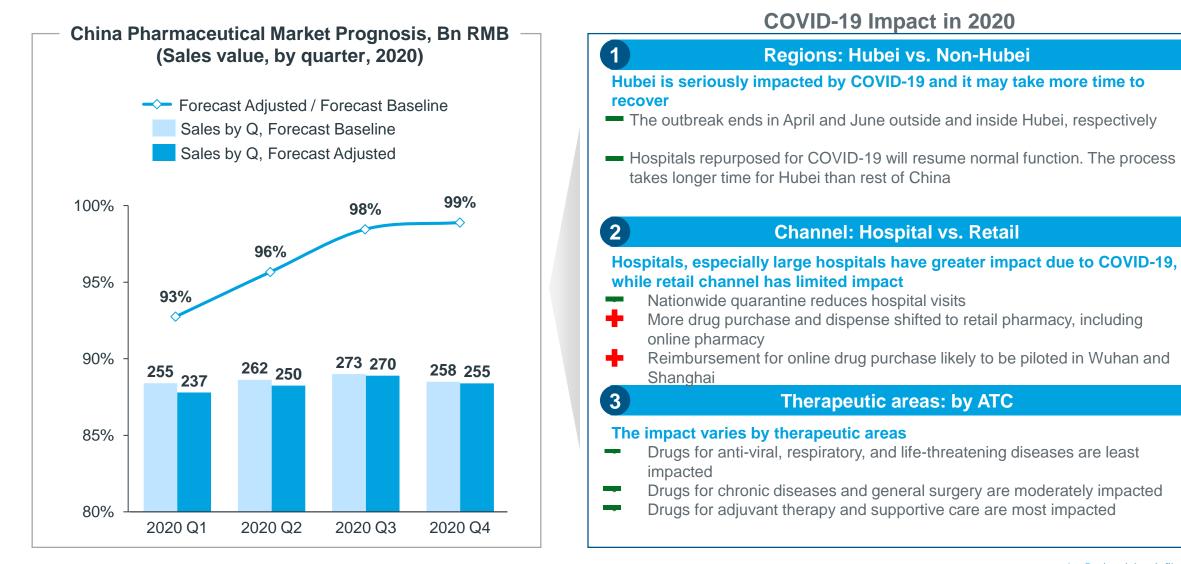
 By June, ~70% of hospitals in Hubei (excluding Wuhan), will resume services with patient access. Recovery in Wuhan may need additional 1-2 months

Note: Hospitals/Sites in Wuhan (90% of those in Hubei province), recovery progress is generally one month later compared to the rest of hospitals in Hubei province Source: IQVIA analysis



4

Pharma market is affected in Q1 and Q2, but will gradually recover in Q3

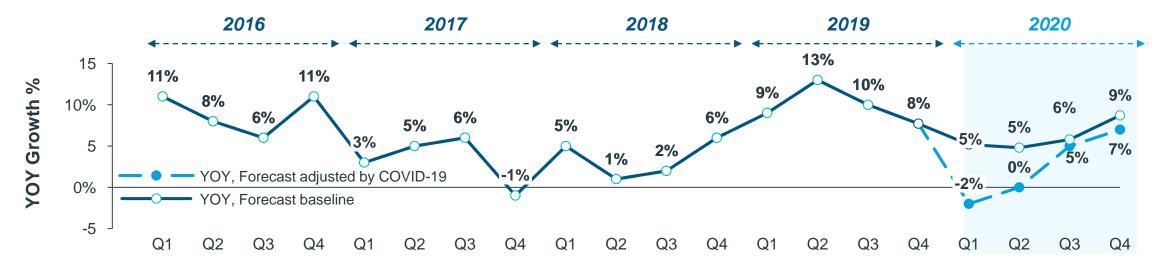






Based on our best understanding, we project that growth rate will drop to - 2% and 0% in Q1 and Q2, respectively, then recover to 5-7% in Q3 and Q4





	2016	2017	2018	2019	2020
Key Impact	 ✓ Ensure drug quality and effectiveness. ✓ Tendering & central purchase, and reform pilot of reimbursement price. Integration of distributors. ✓ Clinical medicine use standardization and drug fee control 	 ✓ Comprehensive reform on public hospitals, including medical expenses control, the percentage of drug expenditure control ✓ Separation between medical and pharmaceutical services. ✓ Promotion of hierarchical medical system. 	 ✓ Continue to implement a strict drug control policy. ✓ Implementation of Generic Quality Consistency Evaluation. ✓ 17 oncology products were included in NRDL list . ✓ Announced the result of volume-based procurement in 4+7 cities . 	 ✓ VBP in 4+7 cities has been execution in March 2019. ✓ Announced piloting DRGs payment system in 30 cities. ✓ 2019 NRDL update. ✓ Announced the result of volume-based procurement in alliance regions. 	 ✓ Local lockdown and stay- home quarantine ✓ Stringent cost containment of medical insurance ✓ Decrease in out-of- pocket expenditure ✓ Disruption in commercial activities



We anticipate market rebound will continue throughout 2021 and recover growth momentum by 2022

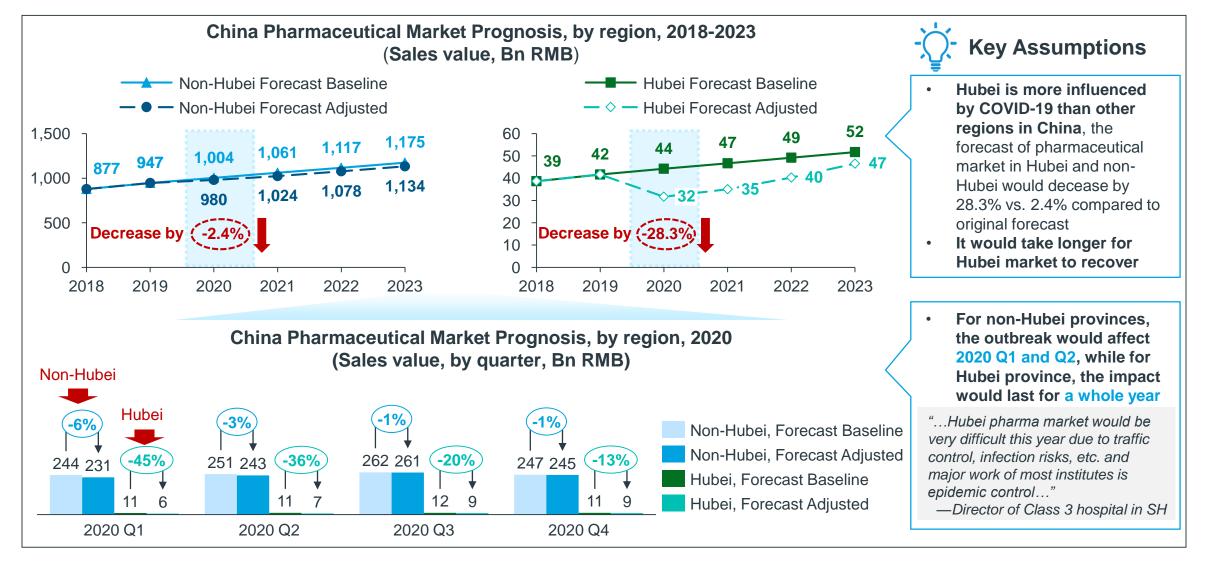






Thank You

Appendix: Pharma market in Hubei took the biggest hit, hence takes longer time to recover



Note: All projections are based on the constant inflation rate Source: IQVIA analysis

