

# COVID-19

## Impact on health care systems

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MASSACHUSETTS  
GENERAL HOSPITAL



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# Academic Medical Centers at their best

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- Working for a singular important purpose
  - Emotions running high: fear, pride, weariness
- Remarkable Pivot for Science Infrastructure
  - basic, translational and clinical researchers
    - 4 vaccine candidates from local collaboratives
    - Rapid dissemination of new knowledge
      - >60,000 hits from all over world to our clinical protocols
      - 65 new trials; >230 publications;
- And also the usual work:
  - despite 4x increase in intubated patients, 60% of inpatient work remained non-covid
    - Preventable mortality
  - Teaching challenges (risks and opportunities)
  - Community health (unequal illness burden)

# Impacts from COVID-19: accelerating existing trends

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## Digital Health

- Video visits, clinical apps, admin apps, analytics (clinical/operations/finance)
- Will healthcare finally start to see the productivity gains that digital has brought to other industries? State licensure as a major restraint on effective methods to improve access

## System capacity

- Regional level loading + equipment sharing = cooptation
- IDS: significant ability to match resources to capacity challenges on a daily basis
- Supply chain vulnerabilities

## Workforce

- Over 500 clinicians retrained and redeployed
- Increased sensitivity to equity issues surface during times of stress; increase acute mental health concerns

## Health Disparities

- Data/Funding/attention

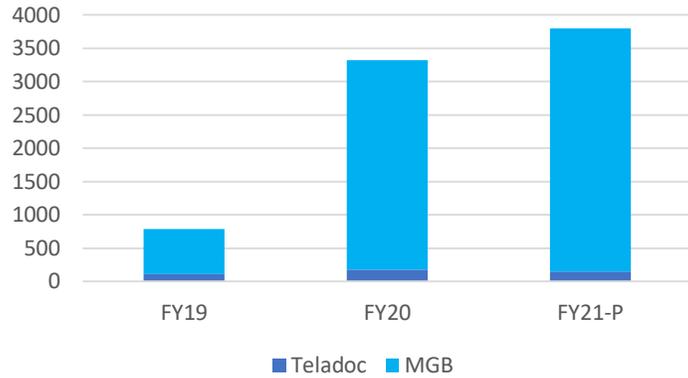
## Financial

- Ended year with small loss (revenue down 20%, federal relief funds made up 75% of deficit)
- Federal relief rationally designed, poorly implemented (appeared capricious or worse)

## Structural issues

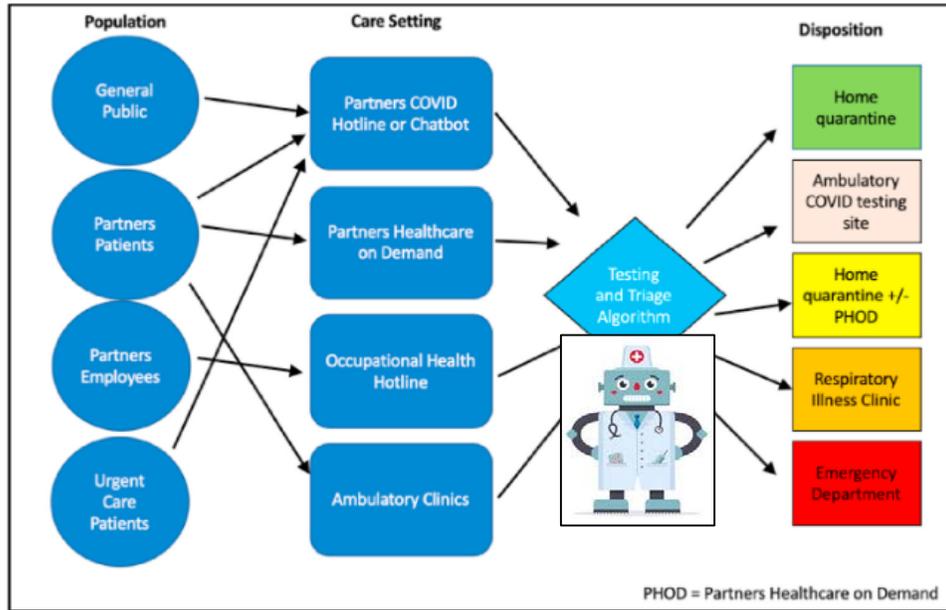
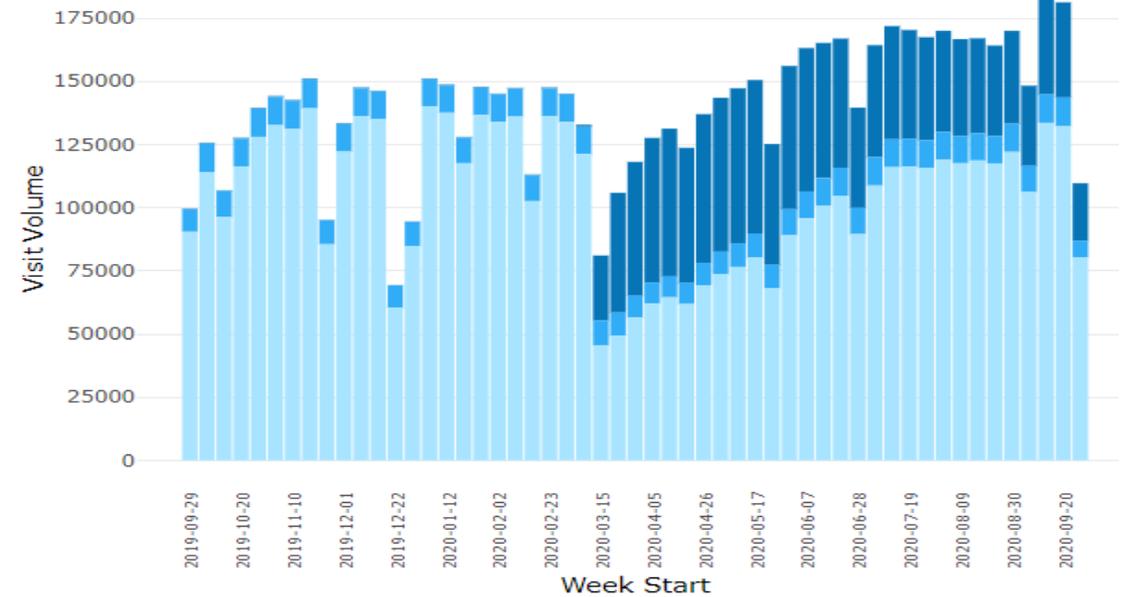
- Leaner management structure: more efficient decision making
- Large worked out better (balance clinical and financial loads)
- Port in the storm v. anti-trust

### Healthcare on Demand Volume Trend



### From 0.6% to 62% of Ambulatory Care in 6 Weeks

MGB Weekly Provider Outpatient Visits  
Data ranges from 2019-10-01 to 2020-09-30

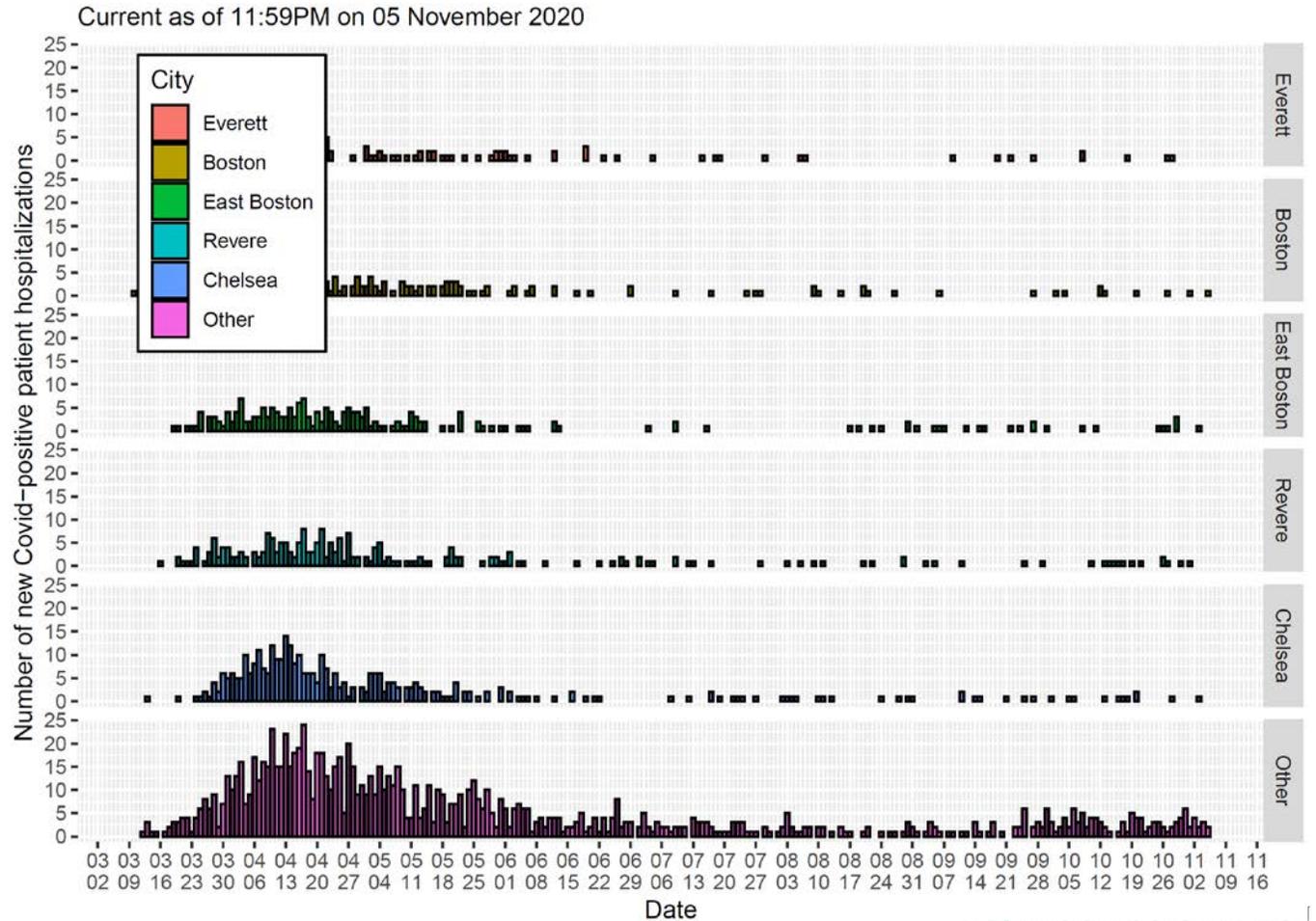
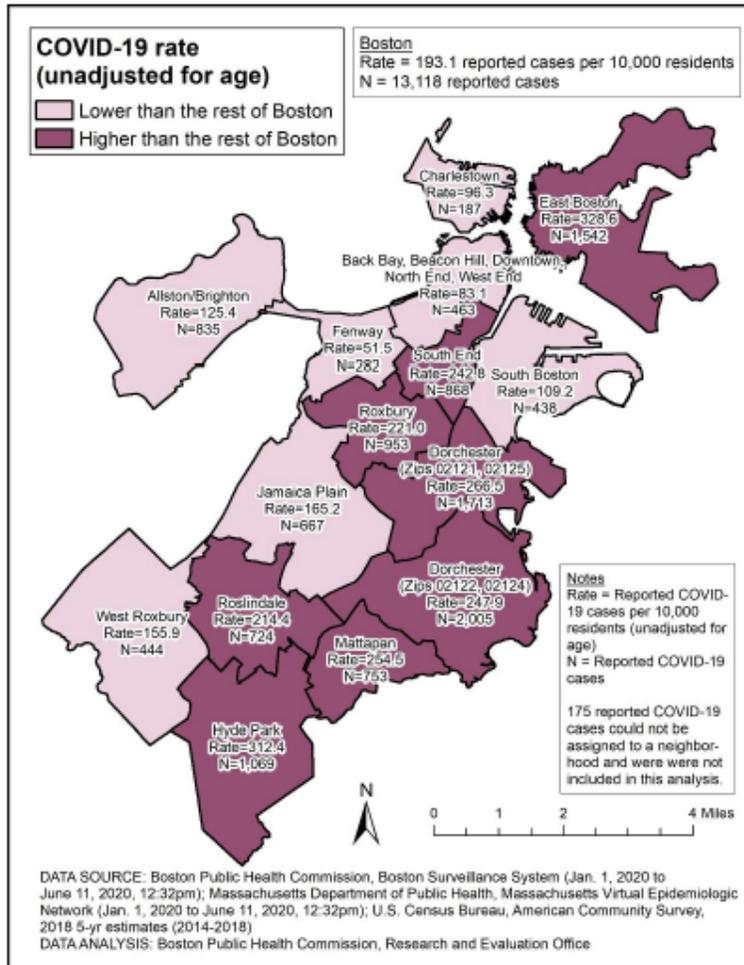


Finally, tech delivers increased productivity to healthcare delivery



# Highlighted social inequities

## Vulnerable populations hit disproportionately



# Comparing NHS to US

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- NHS
  - Very inexpensive
    - 40% of nursing jobs vacant
    - Lowest beds/pop in OECD
    - “Age of plant” = Victorian era
  - Command and control
    - Spend your budget (or more)
    - Limited initiative – wait until you are told
    - Follow the letter of the instruction from on high
  - COVID-19
    - Problem solving at national level (pros and cons)
    - Minimal waste in re-budgeting
    - Re-opening: very slow (never recovered)