

Public-Private Partnerships for Data Informed Decision Making in Disasters

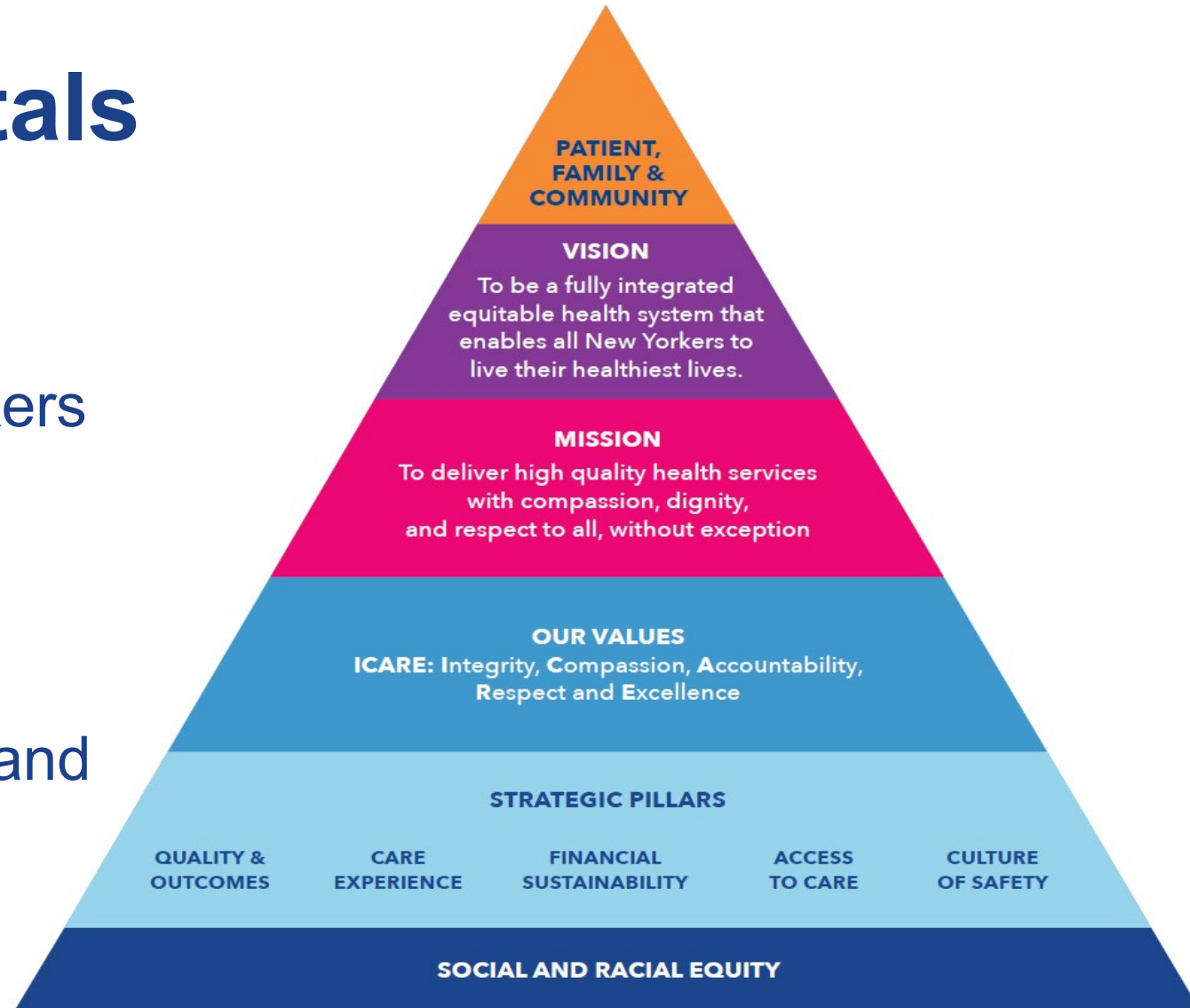
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Disclosure

No relevant financial or nonfinancial relationships to disclose.

NYC Health + Hospitals

- Largest municipal safety-net healthcare system in the United States
- Serve over 1.3 million New Yorkers annually
- 11 acute care hospitals
- 5 skilled nursing facilities
- 60+ FQHC ambulatory sites
- Community Care (health home and home health)
- Correctional Health Services
- MetroPlus Health Plan



COVID-19

■ Examples

- Partnerships with Snowflake, Tableau, EPIC, and IT consultants to develop COVID Intelligence – hospital operations, testing, infection rates, fatality management, resource management, transmission, vaccine management
- Partnered with Ideas42 (behavioral science organization) to develop strategies to address vaccine hesitancy in NYC
- Partnered with CityMD to create dashboard to understand testing demand by zip code
- Partnered with Alto Pharmacy to deliver COVID-19 antivirals and track areas with increased uptick

COVID-19

■ Wish List

- Partner with private sector companies to do rapid clinical trials/research within hospitals to assess effectiveness of treatments (e.g. steroids, proning)
- Partner with private sector to track and understand medical misinformation to be able to effectively combat it
- Real-time retail pharmacy data to look for early signals in prescribing antivirals and purchasing of at-home test kits
- Partner with companies that manage international and national supply chain to have predictive modeling around supply chain (e.g. ventilators, PPE, medications, vaccine) for just-in-time delivery
- Generative AI for health system and public to have questions answered and query data (e.g. data chatbots)

Mpox

- Examples

- Worked with commercial sex venues in NYC to understand community needs and offer vaccinations to those at high-risk

- Wish List

- Partner with private sector companies that have strong community outreach (e.g. local businesses or NGOs) to understand community needs and gather feedback
- Search engine data to understand and predict geographic spikes in demand for testing, treatment, and vaccine
- Retail reservation companies tools and existing data analytics to facilitate treatment (e.g. monoclonal antibody infusions), predictive modeling around demand

Asylum Seeker Support

- Examples:
 - Some partnerships in early stages of development
- Wish List:
 - Satellite/GPS tracking to understand and predict flow of migrants into city
 - Predictive AI to understand the needs of asylum seekers once in the system

Additional Thoughts

- Data intelligence needs vary by disaster so thinking about resilience that is threat agnostic we need a framework that can be flexible and nimble enough to respond to whatever is next
- Need emergency management plans to address barriers including staff resources within Data and Analytics departments, legal issues (data sharing agreements), regulatory considerations (patient consent), and IT barriers (how to link systems, share data)
- Every plan and partnership must have an equity lens
- These innovations exist all around us – we can and must leverage for saving lives in disasters!

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