COVID-19 Employee 1A Vaccination Clinic: Data Analytics

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Background

- November/December 2020: major surge in COVID-19 cases in the U.S.
- December 11, 2020: First COVID-19 Vaccines approved in use under emergency use authorization
- To help protect our employees, patients, and the community from the surging pandemic, UCSF Health had to establish a vaccination response and delivery system to serve over 28K identified frontline healthcare workers.
- Anticipated rapid approval of 2 total manufactured vaccines in December
- UCSF treated COVID-19 vaccines as a Scheduled 2 controlled substance requiring chain of custody documentation
- Political unrest and uncertainty of the safety of both vaccine delivery and vaccination locations
- Unknown adverse effects required post administration observation interval
- No existing robust supply chain to deliver vaccine
**Goals:**
- Provide timely and accurate data to project leaders to support technical process
- Ensure data that was tracked manually could be automated for regular reporting
- Confirm data quality between systems
- Provide data transparency to UCSF community
Data sets were disparate and ability to pull overall view of vaccine clinic was difficult
Data was not integrated between various systems
Vaccine inventory tracking outside of system
Manually tracked datasets made integration difficult

Availability of Data
Data Transparency
Data Consistency
Data Automation
Enterprise Analytics Solutions
Project Plan & Interventions

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HR Umbrella
Vaccine inventory data
Extracts to UCOP/HHC/Student IS/Etc

People Analytics
Chronicles (APeX)
Clarity (APeX)

Operation Radar Dashboards
Tableau Dashboards
Trackit
Daily stats/Other crystal reports

* This diagram is subject to change and continues to evolve
Project Evaluation & Impact

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Collaboration between teams is critical.

Must be able to adapt to dynamic environments.

Develop data solutions that are scalable and sustainable.

Consistency between systems helps build trust in the data.

Link to live dashboard of COVID vaccination efforts to date