Lessons Learned & Moving Forward

A case study in Oregon shows how the personal experience of the healthcare provider is impacted by the level of deprivation across the population and socioeconomic challenges. This situation highlights the necessity to circumvent barriers and support the most vulnerable populations. As a result, the integration of digital data to adapt the healthcare delivery system is crucial.

Utilizing available data sources, including electronic health records and health insurance claims, the CPHIT Center for Population Health IT (CPHIT) has undertaken various projects and initiatives. These efforts include:

1. **Pandemic Shield**: An initiative that leveraged technology to develop a personalized risk assessment tool and virtual care solutions to protect and promote the health of individuals.
   - **Objective**: To assess the impact of neighborhood socioeconomic characteristics on COVID-19
   - **Methodology**: Used predictive models to assess population-level disparities in COVID-19 outcomes.
   - **Findings**: Identified that neighborhoods with higher levels of socioeconomic disadvantage had higher COVID-19 prevalence rates.

2. **Virtual Care Expansion**: Supported the adoption of virtual care to address the need for telehealth services during the pandemic.
   - **Objective**: To quantify the differential impact of the COVID-19 pandemic on different populations
   - **Methodology**: Analyzed large datasets to assess changes in patient behaviors.
   - **Findings**: Revealed that vulnerable populations faced increased challenges in accessing healthcare.

3. **Remote Workforce**: In response to the urgent need for healthcare delivery during the pandemic, the CPHIT team collaborated with colleagues from Blue Health Intelligence (BHI) to develop a telehealth platform.
   - **Objective**: To assess the impact of neighborhood socioeconomic characteristics on COVID-19
   - **Methodology**: Used predictive analytics to identify high-risk neighborhoods.
   - **Findings**: Demonstrated that remote care initiatives could significantly reduce geographic disparities in health outcomes.

Lessons from these projects underscore the importance of leveraging population health analytics to address the challenges posed by the COVID-19 pandemic. The continued emphasis on digital health strategies is essential for ensuring equitable access to care and improving health outcomes across the population.