

Enabling Individualized Patient Oncology Care at Community Hospitals

As an oncologist at a community hospital, you understand the need for an in-patient clinical support tool that is quick enough to allow you to keep up with your caseload, provides an up-to-date, valuable patient report for decision making while integrating with the tools you already have today.

Introducing the Precision Health Cloud, the first platform that seamlessly integrates genomic, EHR, imaging, demographic and any other data set. It indexes all of this data so you can effortlessly combine and visualize it either as part of ad hoc exploration or within applications such as clinical decision support.

Holistic Patient View

With the ability to integrate patient data from all sources including EHR, genomic sequencing, medical devices, imaging and wearables into the Precision Health Cloud, clinicians can easily break down data silos to see a holistic view of patients over time. It goes beyond office visits with remote patient monitoring by integrating wearables and surveys as well as the ability to reach patients via secure video calls with our SkillSpring tool. Clinicians can even add paper and fax documents to the patient's file and make these documents searchable with our Optical Character Recognition machine learning module. This ability to assess the whole patient allows for real-time clinical decision making support based on individualized needs.

Usability & Scalability

Our easy-to-use, graphical interface provides clear data visuals. It allows anyone, even those without a bioinformatics background, to navigate and gain benefits. Analyze more patients in a given time than before by scaling genomic interpretation of patients' cancer using the Knowledge Base. Our cloud-based infrastructure allows for the highest security measures all while being infinitely scalable.

Genomics

The PHC provides a fully integrated Knowledge Base to streamline the analysis and annotation of your patient data. Easily query and annotate your data using a vast repository of biomedical and genomic information available from public, commercial and private sources so you only need one tool. Information is transformed, harmonized and linked to allow for unified access in an easily understandable and highly visual format.



The Opportunity

Community hospitals with oncology programs see a large number of patients each day each bringing a unique profile. In most cases, molecular tumor boards are restricted by their bandwidth and turnaround time as well as the ability to overlay other relevant patient data to genome data using high-performance computing. This process limits their ability to scale and provide high-quality individualized patient treatment.

The Solution

LifeOmic's Precision Health Cloud specializes in oncology by bringing all relevant patient information from clinical records to genetic sequencing into one platform for quick interpretation. The Precision Health Cloud's subject viewer capabilities provides physicians with a configurable view of patients' or subjects' longitudinal history, combining clinical and genomic data to better facilitate care. Our Omics Explorer contains an updated knowledge base with oncological variant data and clinical relevant drug information to allow oncologists to query for known details around variants, genes or genomic regions of interest. With all of this information at your grasp, community oncologists can easily view and analyze the whole patient for trends through the individual subject view and aggregate patient data allowing for the identification of optimal treatment options and the ability to care for patients as individuals.

The Outcome

With the Precision Health Cloud, Dr. Radovich rapidly reduced his time spent on interpreting each patient from 15-30 minutes to 5 minutes. This allowed the precision genomics team and his oncologist to identify a drug treatment specific to the rare genomic alteration. The patient has a dramatic response therapy that has been sustained. Having a tool to lean on for physicians is vital to better provide the right drug to the right patient at the right time.



Dr. Milan Radovich
Indiana University School of
Medicine

Dr. Milan Radovich, Associate Professor of Surgery and Medical and Molecular Genetics, at Indiana University (IU) School of Medicine, focused on triple-negative breast cancer, uses the Precision Health Cloud to reduce his time interpreting each patient's genetic data by over 60%. This allows him to focus on delivering care to more patients than ever before.

The Precision Health Cloud was crucial because “there is so much information out there that an informatics platform [like the Precision Health Cloud] makes sure you don't miss anything and gives you peace of mind.”

About LifeOmic

LifeOmic is the software company that leverages the cloud, machine learning and mobile devices to offer disruptive solutions to healthcare providers, researchers, employers, health coaches, health IT companies and individuals.