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To: Alpesh Amin
From: Tom Andriola
Sent: June 14, 2023 10:41 AM

Residents, policy makers, and health systems -- what has been termed “precision public health.”

1. Increasing emphasis on the ability of precision medicine to impact not only individuals but also populations.
2. Incorporation of precision medicine into health policy.
3. Increasing translation of critical data into clinical care.
4. Evaluation of medications and devices after they come to market to confirm their effectiveness.

There is a need for:

Future Focus on Implementation

1. Assess the bandwidth at your institution for supporting an IT infrastructure, data standards, and electronic health records to support precision medicine.
2. Identify the key stakeholders and the institution’s role in the development of a precision medicine program.
3. Identify the necessary resources and the institution’s role in guiding the process of clinical care, research, and policy development.
4. Evaluate the potential impact of precision medicine on health outcomes and the role of health systems in implementing precision medicine.

The Application and Implementation of Precision Medicine in Clinical Care and Health Policy

1. Assess the readiness of your institution for supporting IT infrastructure, data standards, and electronic health records to support precision medicine.
2. Identify the necessary resources and the institution’s role in guiding the process of clinical care, research, and policy development.
3. Evaluate the potential impact of precision medicine on health outcomes and the role of health systems in implementing precision medicine.

Resources

- Precision Medicine World Congress (January 25-27, 2023, in Silicon Valley, California), for example, is co-hosted by Northwestern University, Stanford University, Vanderbilt University, and the University of Michigan.
- Advances in information technology are driving systemic change in this arena. One example is the Precision Medicine Initiative (PMI) launched in February 2015 by the National Institutes of Health and the U.S. Food and Drug Administration. The PMI aims to apply the principles of precision medicine to the study of human health and disease.
- Many academic medical centers support precision medicine. The University of California, Irvine, Academic Consortium member and a participant in a nationwide network of regional medical centers and other healthcare providers are participating in patient-powered research to accelerate biomedical discoveries and provide clinicians with new tools, knowledge, and therapies that will work best for each patient’s individual needs.
- Innovative research aimed at understanding and implementing precision medicine is supported by national initiatives such as the PMI and the National Cancer Institute’s Cancer Genome Atlas.
- Complementary research is ongoing, including NIH’s Project E4, which focuses on the role of the built environment in precision public health.

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