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## GLOBAL E-HEALTH FOR COLLABORATIONS IN BIOINFORMATICS: NEW MODELS FOR ELECTRONIC HEALTHCARE DELIVERY AND NEW COLLABORATION PLATFORMS FOR GLOBAL BIOMEDICAL RESEARCH

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Changes in global disease trends and demographics are creating unprecedented challenges to the delivery of health care and biomedical research worldwide. New technologies have allowed us to collect large amounts of data, but making that information useful for clinical care and global research remains a challenge. This talk will present some innovations in big-data translational platforms for biomedical research. Opportunities for the use of mobile health apps, wearable technologies, and big data applications will be discussed. New e-health systems will be discussed for connecting patients, families and professionals in the areas of maternal health care, senior care, and oncology. Challenges in establishing e-health networks in developed and developing countries will be examined.

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## ECARE: NEW MODELS FOR HEALTH SERVICES AND COLLABORATION AMONG PATIENTS, FAMILIES AND PROFESSIONALS

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People-centered health care focuses on seeking an active role for the patient and also to strengthen all other members of the health team, including families. By promoting greater opportunity for patients, it is possible to have better health outcomes, quality of life, and optimal return on investment in the health system. To carry out this new model, we need not only new technologies but also a change in the way the way we communicate and collaborate with patients and families. This talk will present some innovations and electronic health systems to connect patients, families and professionals. The talk will describe an e-health system for maternal health and pediatrics. A description will be provided by a system called InfoSAGE that provides education and communication for coordinated care for the elderly in assisted living homes. Opportunities for the use of mobile health applications, portable diagnostic technologies, and big data applications will be discussed. The challenges to establishing people-centered e-health systems will be discussed.

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