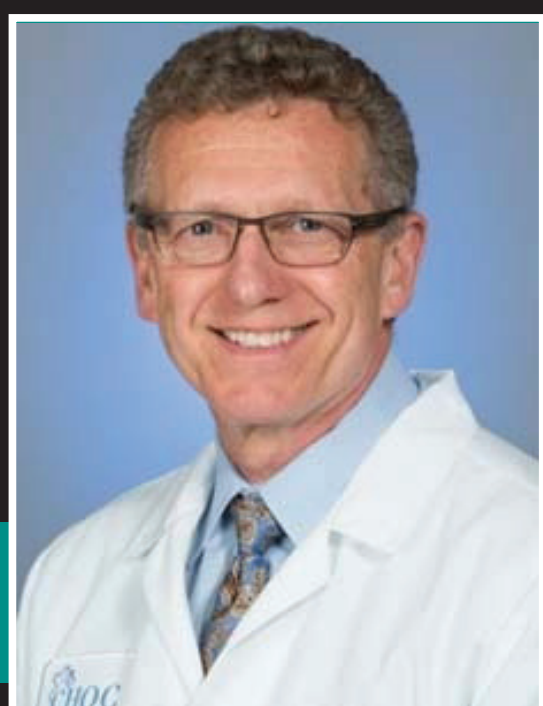Friday, April 5, 2019
11 a.m.–noon
1400 Wegmans Hall

Implementing a Cloud Computing Solution for Data Science and Advanced Analytics in Health Care

with William W. Feaster, MD, '76

Chief Health Information Officer
CHOC Children's in Orange, California

Today, more and more patients present the health care provider with an increasingly overwhelming volume of data from sources like genomics, wearables, monitors, images, notes, etc. Our challenge is to transform those data into valuable information, aiding— not overwhelming—the practitioner providing care. Meeting this challenge requires clinicians and data scientists skilled in analyzing the scope of available medical data, a database platform in which these disparate data are easily accessible, and a computational environment that can scale to meet the needs of available machine learning algorithms. Dr. Feaster will describe how CHOC Children's is meeting these challenges through a partnership with its electronic health records (EHR) vendor, Amazon Web Services, and its internal data science resources. In addition to describing published work and work currently in progress, Dr. Feaster will describe how predictive analytic tools, once developed, can be implemented back into the EHR to inform caregivers and improve care.

William W. (Bill) Feaster, MD, '76M (MD) is the chief health information officer at the Children's Hospital of Orange County, California (CHOC Children's). He received a medical degree from the University of Rochester School of Medicine and an MBA from Saint Mary's College of California.

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