Precision Health Optional Function for the UF Clinical and Translational Science Award Program

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The Precision Health Optional Function creates synergy between successful and ongoing UF CTSA Programs in Personalized Medicine, the OneFlorida Data Trust, and Community Engagement. The overall goal of the Precision Health Optional Function is the novel integration of risk assessments at the individual and community levels to better quantify and explain risk burdens of individuals and populations. To attain this goal, the Precision Health Optional Function has three specific aims.

1. To evolve the successful Personalized Medicine Program into a Precision Medicine Program which advances care of patients through the use of individual-level data which guides risk estimation for diagnosis, prognosis and treatment. Three foci of the Personalized Medicine Program, Pharmacogenomics, Cancer Genomics, and Medical Genetics/Genomics, will expand to include the science of their implementation into Learning Health Systems.
2. To establish a Precision Public Health Program which contributes uses geospatial methods to identify communities at high risk for health outcomes, and to characterize of the community contributors to that risk. This aim takes advantage of the OneFlorida Data Trust in which has 69% or more of its 15.4 million Florida residents have geospatial data at the neighborhood level.
3. To integrate Precision Medicine and Precision Public Health Programs into a Precision Health Program which incorporates both individual and community data to provide the most robust identification of subpopulations at risk, provide high value targets for community engagement, integrate individual and community risk assessments, as well as develop and implement appropriate and effective strategies to reduce risk at the individual and population levels.