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Personalized medicine - Is this the future of clinical medicine?

Personalized medicine or PM is a medical model that proposes the customization of healthcare - with medical decisions practices and/or products being to the decisions to the decision of healthcare - with medical decisions are the decision of healthcare decisions, practices, and/or products being tailored to the individual patient. The use of genetic information has played a major role in certain aspects of personalized medicine, and the term was first coined in the context of genetics (though it has since broadened to encompass all sorts of personalization measures). To distinguish from the sense in which medicine has always been inherently "personal" to each patient, PM commonly denotes the use of some kind of technology or discovery enabling a level of personalization not previously feasible or practical. Advances in medical and human genetics have enabled a more detailed understanding of the impact of genetics in disease. Large collaborative research projects (for example, the Human genome project) have laid the groundwork for understanding the role of genes in normal human development and physiology, revealingsingle nucleotide polymorphisms (SNPs) account for some of the genetic variability between individuals). This information made possible the use of genome-wide association studies (GWAS) to examine genetic variation and thus understand the risk for many common diseases. A number of areas have emerged that have targeted personalized medicine. Such areas are: pharmacogenomics, proteomics and metabolomics. Cancer management identification for the presence of genes associated with the induction of a number of human cancers has grown in significance amplified recently with the actions taken in personal health by the actress Angelina Jolie. Personalized medicine has identified a number of notable concerns and opportunities. One such concern is the individual cost of personalized medicine to those individuals who do not have health care insurance. Legislation in the form of the Genomics and Personalized Medicine Act has been introduced in the Congress of the United States to address issues involving scientific barriers, adverse market pressures and regulatory obstacles. Finally, in order to educate future physicians the advent of personalized medicine is influencing medical education through the development of sub-specialties in personalized medicine at a growing number of medical schools in the United States.

Biography

Vincent S. Gallicchio has 42 years experience in academic medicine and research covering experimental hematology, immunology, and developmental therapeutics for human diseases such as AIDS and cancer. He has earned national and international respect and recognition for his efforts. In a first time study reporting on academic scholarly productivity in the Journal of Clinical Laboratory Science, He was rated the number one academic biomedical laboratory science researcher in the United States. His rating of 551 was nearly twice that of the next closest professor's score of 285. Additionally, during his leadership, the academic program in Clinical Laboratory Science at the University of Kentucky Medical Center was rated the number one program of its kind among 127 in the nation. His passion for research, a high value placed one xcellence, a strong reputation as an esteemed collaborator, and a tenacious desire to see a better therapies for human diseases brought to market speak to his overall character.

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