Diagnostic errors cause patient harm and should be addressed as a public health priority. Ensuring that health information technologies support patients and healthcare professionals in the diagnostic process were one of the 8 goals identified in the 2015 IOM report to improve diagnosis in health care. Smartphone mobile applications may reduce diagnostic errors by providing information for clinicians at the time of need to assist them with clinical decision making. Patients with bleeding and clotting problems require complicated coagulation testing for diagnosis including quick follow-up action in emergent situations. The Centers for Disease Control and Prevention’s Clinical Laboratory Integration into Healthcare Collaborative (CLIHC TM) program developed a Smartphone mobile application, The PTT Advisor is to provide clinical decision support to assist in the diagnosis of patients with coagulation disorders. The PTT Advisor offers guidance on managing patients with bleeding and clotting problems which may be useful for assuring the selection of the correct coagulation test and application of test results in a timely manner. This clinical decision support intervention integrates diagnostic algorithms created and reviewed by coagulation subject matter experts. The mobile technology is based on the iOS platform and is available at no charge on the iTunes store. Our use of a Smartphone mobile application to aid in the coagulation testing process could be a model for others to use to improve diagnosis.

Biography

Julie R Taylor has completed her training in Microbiology with a BS from the University of Alabama, MS and PhD from Auburn University and Postdoctoral training at Emory University School of Medicine. Her accomplishments include patents, FDA or USDA licensed medical devices, Vaccines, Diagnostics, Journal publications, International Healthcare standards and training programs. She is currently the Project Lead for the Clinical Laboratory Integration into Healthcare Collaborative (CLIHC TM) from the Division of Laboratory Systems at the Centers for Disease Control and Prevention (CDC).

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