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Title: Developing more sensitive endpoints by leveraging novel statistical methods for Digital Health Technologies (DHTs) data

Abstract: Digital Health Technologies (DHT) are now used to continuously track physical activity and sleep in many clinical studies. This DHT data provides tremendous opportunities to develop novel more sensitive clinical trial endpoints. There is, however, a large gap between the complexity of DHT data and statistical methodology for fully leveraging the potential of DHT. This talk will discuss recent developments of novel DHT-centric statistical methods that can provide more sensitive endpoints by extracting and fusing together information from temporal, distributional, and time-series aspects of DHT data.