COVID-19 RESPONSE PROJECTS

TH OBSERVATORY EPIWRIST AND HEPITRACKER TO TRACK COVID-19.
COVID-19 RESPONSE WITH A SMART R&D PROJECT

Concept.

There are two main institutions supporting this R&D Project: on one hand, the Teófilo Hernando Foundation which has over two decades of expertise and established credibility in developing guidance for Statistical Programming, Clinical Data Management, Biostatistics, Medical Writing, and Pharmacovigilance – among other clinical and epidemiological services. On the other hand, the Research Institute Teófilo Hernando – Instituto de Investigación Teófilo Hernando– in close partnership with the Universidad Autónoma de Madrid (UAM) – one of the top universities in Europe in clinical trial and healthcare– hosting some of the most prestigious corporations for digital services, Internet of Things (IoT) connections, and I&D across international hospitals and medical services.

There are numerous lessons to be drawn from ‘February-March 2020 first wave of COVID-19’, within the scenario of statistical challenges in preserving integrity of ongoing clinical trials during COVID-19. The innovative Teófilo Hernando Observatory (R&D&i) Program is designing an out-of-the-box scientific hub and medical research framework where challenges and obstacles are addressed: to be transformed into potential solutions to maintain scientific excellence with full regulatory compliance by developing data management and statistical analysis/consultancy with innovative mechanisms and the highest quality standards.

Objectives and Outcomes.

The combined Epiwrist activity smart device and the HEpiTracker app are aimed to collect in nearly real-time, and in a daily basis data to thoroughly assess any COVID-19 health risks, depending on the user’s health profile by using intuitive clinical questionnaires -respiratory and non-respiratory symptoms, hand-washing / hygiene techniques, cough frequency, etc.- and several other external tools and actions – thermometer for body temperature, physical activity, sleep, heart rate, respiratory rate, physical activity, etc.– to identify the spread of COVID-19 and better design effective health interventions tailored to suit the needs of the user and/or patient to be reviewed.

In a first stage, our beneficiaries should be the hospital workforce and health centers’ professionals. In further stages, the beneficiaries might include law enforcement officers as well as all specific personnel providing public services (primary care, educational centres) and vulnerable populations (children, refugees, persons living with HIV, etc.).

The ultimate aim of this innovative initiative is to assist those in critical need to control COVID-19 pandemic to address challenges in nearly real-time as well as to find effective solutions for tackling this growing global health threat.
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