HEALTH TAMPERE

Tampere Health

Who we are:

Tampere Health is a tight network consisting of the City of Tampere, Tampere University, Tampere university hospital, wellbeing services county of Tampere region and health sector companies and startups located in the region. The network has a joint steering group, which is organizing different types of activities helping researchers, clinicians and companies to succeed. Part of the activities is providing networking possibilities in order to ensure that the network parties - researchers, clinicians and companies – and the public side decision makers have a common understanding of the needs and possibilities of the local health ecosystem. Wellbeing services county of Tampere region is the largest one in Finland.

What are our focus areas?

Tampere Health and Tampere in general is interested in international cooperation including joint research, clinical activities and working with individual companies.

The social welfare and health care sector in Finland is undergoing a momentous shift. Healthcare reform and the changes increase the need for RDI activities. The pool of different healthcare actors in the Tampere Region is abundant and varied. The concentration of institutes of higher education, university hospital operations, varied businesses and active citizens in the Tampere Region ensures an exceptionally broad scope of competence. There are a number of potential and promising areas for creating new opportunities.

What sort of support can we provide to selected Israeli companies?

The service offered by Tampere Health Testbed consists of three service packages for physical measurement testing, preclinical testing and clinical testing. These service package prices are negotiated case by case depending on the content of the package.

Tampere PhysTest Network provides versatile and adaptable environments and services for testing, measuring and evaluating health technology products and services in multiprofessional collaboration. It provides expert research services, including pre-clinical technology evaluations and co-design, clinical investigations with healthy subjects and patients and usability evaluations with healthcare professionals and patients.

Pre-clinical technology evaluations include e.g. electronics design services, review of the ready design and testing with simulator devices. Usability evaluations include design phase formative evaluations and final summative evaluations, with both healthcare professionals and untrained subjects and in lab, simulation, and authentic environments. Physiological measurements includes collection of data with developed test devices and gold standard reference devices, e.g. blood pressure, blood oxygen saturation, respiration volume and rate, ECG and heart rate, EMG, EEG, electro dermal response, polysomnography, interventions with treadmill, ergometer, orthostatic tilt, oxygen partial pressure, studies with patients and healthy control subjects, efficient patient recruitment through biobank registry, design of the test protocol, assisting with the documentations for the ethical review process & evaluation of the data.

FHAIVE is an official GLP facility for in vitro testing aimed for regulatory purposes and for validation of test methods. In vitro testing offers testing of safety and efficacy of chemicals and establishing procedures for the safe handling, packing and transport of chemicals (GHS). In vitro testing portfolio includes acute cytotoxicity tests, EpiDerm™ skin corrosion test, EpiDerm™ skin irritation test and in vitro cytotoxicity test for medical devices. Test method

validation for industry includes validation of the protocol of the method, for methods developed by customers and guidance for customers in test method validation. In silico methods we offer Virtual Screening, QSAR - development of machine learning predictive models of chemical compounds properties, activities and toxicity based on large scale datasets and Read-across services. Read more: https://research.tuni.fi/fhaive/testing-services/

Tays Research Services

Before a medical device can be launched in the European Economic Area, it must receive a CE mark. In the EU, the technical documentation and clinical evaluation form the central part of medical device conformity assessments. The main goal of any clinical evaluation is to demonstrate the safety and performance of the medical device in clinical use. Tampere University Hospital Research Services offers clinical evaluation of medical devices for companies.

Tays services include:

- Contract and budget negotiations
- Managing subcontracting internally and other necessary permits
- Management and follow up during the clinical trial, including budget management, patient monitoring and billing
- Cooperation with the investigating healthcare professionals and other trial personnel in planning and executing the trial'

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