

DIACTMOND is a multidisciplinary project.

Scientific areas involved include Blood Rheology (Hemorheology), Fluid and Biofluid Mechanics and BioMicrofluidics, Digital Signal Processing (DSP), Information and Communication Technologies (ICT) and Clinical Medicine.

Project Partners are experts in the above-mentioned scientific areas. Collaborators from the Cyprus League Against Rheumatism (CYPLAR), ensure an effective representation of the patients and the social partners of interest in the project

CONTACT

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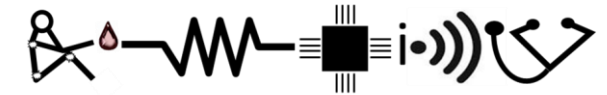


European Union
European Regional
Development Fund



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DIACTMOND



**COLLABORATION FOR THE DEVELOPMENT OF
A DISEASE ACTIVITY MONITORING DEVICE**



Cyprus
University of
Technology



Nicosia General
Hospital



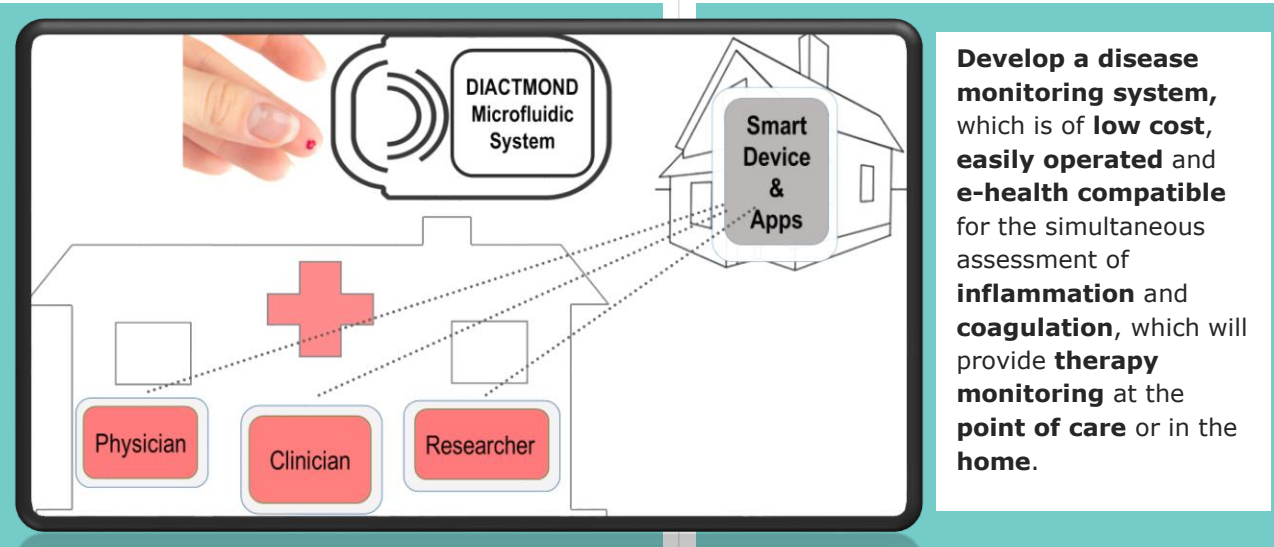
OKYNY
Οργανισμός Κρατικών Υπηρεσιών Υγείας



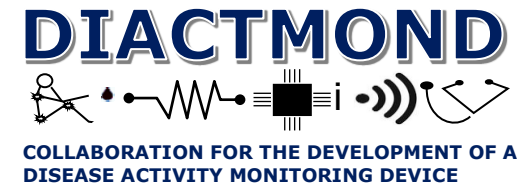
ΑΝΤΙΡΕΥΜΑΤΙΚΟΣ ΣΥΝΔΕΣΜΟΣ ΚΥΠΡΟΥ
CYPRUS LEAGUE AGAINST RHEUMATISM
Για μια Καλύτερη Ποότητα Ζωής



University of London



Develop a disease monitoring system, which is of **low cost,** **easily operated** and **e-health compatible** for the simultaneous assessment of **inflammation** and **coagulation,** which will provide **therapy monitoring** at the **point of care** or in the **home.**



The DIACTMOND Project

- Bio-Rheology, Bio-Fluid Mechanics, Bio-Microfluidics, advanced Data Processing methods, and e-Health software systems will be utilised, to develop a prototype point of care system, for the monitoring of inflammation and coagulation in blood.
- A single finger-prick blood drop will be used for the quantification of inflammation and blood coagulation. The information will be transferred to the treating physician through the network for assessment. The outcome of the project will be a point of care solution for instantaneous estimation of blood inflammation-coagulation, which can be used as a Disease Activity Monitoring Device.
- The Program is funded by the Cyprus Research and Innovation Foundation, RESTART Program - Pilar II, Sustainable Research, Technological Development and Innovation Systems - EXCELLENCE HUBS.

Collaborators

Cyprus University of Technology
State Health Services Organization,
Nicosia General Hospital - Cyprus
EMBIO Diagnostics - Cyprus
University College London - UK
King's College London - UK
Cyprus League Against Rheumatism
VIDAVO Mobile Health - Greece

Coordinator

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Faculty of Engineering and Technology,
Department of Mechanical Engineering and
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Biorheology Laboratory,
Research Coordinator: Dr. Efstathios Kaliviotis

Inflammation and coagulation

Acute or chronic systemic inflammation, and blood coagulation are associated with various major diseases, one of which is Rheumatoid Arthritis (RA).

Inflammation biomarkers and other measures are commonly used to monitor the disease activity.

The increased cardiovascular risk in RA is well established in the literature and therefore the possibility for estimating both inflammation and coagulation at the point of care, and the home, is of considerable significance.