

# PRECISE4Q



## PREDICTIVE MODELLING IN STROKE

PRECISE4Q sets out to minimise the burden of stroke for the individual and society through precision medicine.

### CONCEPT



Personalised stroke treatment enabled by multi-dimensional data-driven predictive simulation computer models.



Heterogeneous data integration from multidisciplinary sources: genomics, microbiomics, biochemical imaging including, as well as lifestyle, gender, economic and workstyle factors.



### DIGITAL STROKE PATIENT PLATFORM

INTEROPERABLE DATA MANAGEMENT AND HARMONISATION MODULE

#### PREVENTION

STROKE RISK  
CDSS

#### TREATMENT

OUTCOME /  
RE-STROKE  
RISK CDSS

#### REHABILITATION

PRECISE4Q REHAB  
PROGRAMME CDSS

#### REINTEGRATION

SOCIO-ECONOMIC  
PLANNING TOOL

### EUROPE-STROKE

MODELLING  
PLATFORM FOR  
EUROPEAN OPEN  
STROKE RESEARCH

### CLINICAL PRACTICE

PRECISE4Q will develop clinical decision support systems (CDSSs) for stroke, based on validated predictive models. The CDSSs will address stroke patients' needs at four stages: prevention, acute treatment, rehabilitation and reintegration. They will be available "stand-alone" as well as part of a comprehensive Digital Stroke Patient Platform.

### STROKE RESEARCH

The models and data ecosystem of the Digital Stroke Patient Platform will double as a European Modelling Platform for Open Stroke Research (EUROPE-STROKE). This service will enable the collection and integration of large scale data support for both hospitals and the research community to advance precision medicine in stroke.

IN A NUTSHELL...

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[WWW.PRECISE4Q.EU](http://WWW.PRECISE4Q.EU)

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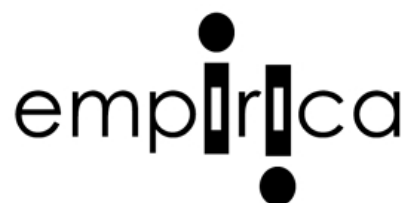
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**Duration** May 2018 - April 2022 (48 months)

**Budget** €5.9 Million

**Coordinator** Charité - Universitätsmedizin Berlin

**Consortium** 11 partners, 8 countries



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