

NEUROVASCULAR DYSFUNCTION BIOCHIP

EARLY DIAGNOSIS CAN MAKE A DIFFERENCE



Powered by Biochip Array Technology

Biochip enables rapid and precise multianalyte detection from a single patient sample, utilising a biomarker algorithm to offer a highly sensitive screen to stratify neurovascular dysfunction.



Biochip enables clinicians to **accurately identify stroke, classify stroke subtypes,** triage, and intervene immediately.



Biochip **monitors patient response to treatment** in real-time, enabling faster tailored clinical intervention.



Biochip **improves patient outcomes** through rapid targeted treatment plans and trials.



Biochip could **save UK hospitals over £500 million/year** through shorter ICU stays, efficient resource use, and fewer complications and readmissions.

Data-Driven Risk Stratification

The Neurovascular Dysfunction Biochip provides clinicians with rapid quantitative results of 8 key biomarkers, facilitating fast and accurate classification of neurovascular dysfunction in an ICU setting.

APPLICATIONS



Epilepsy



Alzheimer's Disease



Brain Inflammation



Parkinson's Disease



Stroke Research



Down Syndrome



Brain Injury



Delirium

Studies have shown that Biochip can stratify patients into stroke and non-stroke categories, and ischaemic or haemorrhagic phenotypes.

CT scans provide good sensitivity for identifying haemorrhagic strokes (~90%), but poor sensitivity for identifying ischaemic strokes (~20%). The Neurovascular Dysfunction Biochip can be used in conjunction with MRI and CT scans to enhance the phenotype identification accuracy of stroke patients.

Biomarkers

Glutathione S-transferase Pi (GSTPi)	Glial Fibrillary Acidic Protein (GFAP)	Soluble Tumour Necrosis Factor Receptor 1 (sTNFR1)
Parkinson Disease Protein 7 (PARK7)	Fatty Acid Binding Protein 3 (FABP3)	D-Dimer
Nucleoside Diphosphate Kinase A (NDKA)	Interleukin-6 (IL-6)	-

Product Information



Sample Type
Plasma



Samples Per Cartridge
2



Sample Volume
400µl



Result Type
Quantitative



Time to Result
39 Minutes

Neurovascular Dysfunction Biochip – For use on the Evidence MultiSTAT analyser

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