

## Ahead of the game

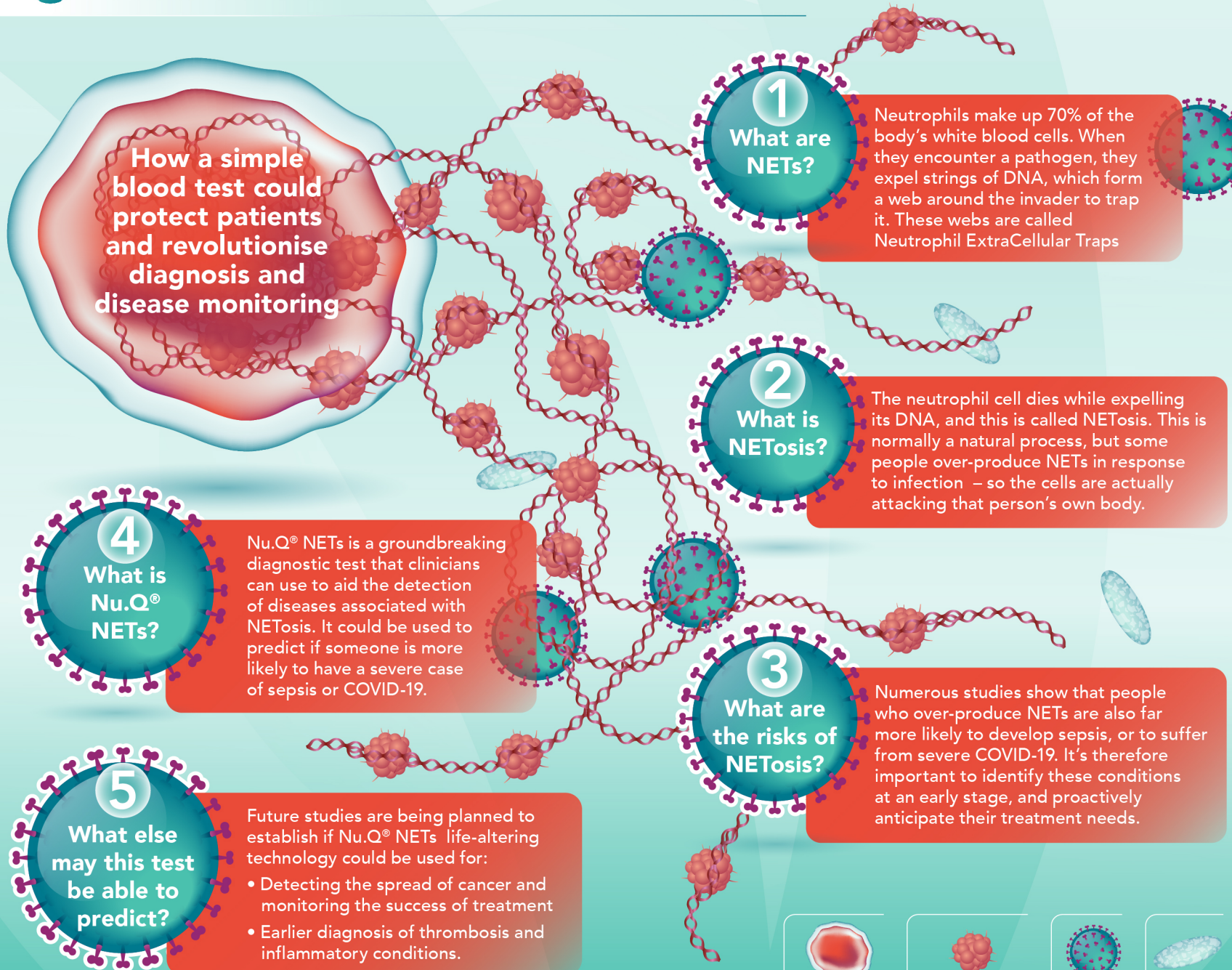
At Volition, we are dedicated to revolutionising the diagnosis and monitoring of life-altering diseases by advancing the science of epigenetics.



Our patented Nucleosomics™ technology isolates any abnormal circulating nucleosomes from the blood for quantification and analysis. It has a wide range of applications including Nu.Q<sup>®</sup> NETs – a simple blood test that has been CE marked to aid the detection and evaluation of diseases associated with NETosis.

**“The Nu.Q<sup>®</sup> NETs assay is a simple, low cost and effective measure of NETs that may be used to identify patients with clinically relevant elevated circulating levels of NETs and enable physicians to rapidly treat these patients.”**

Dr Andrew Aswani, Consultant in Critical Care & Anaesthesia at Guys and St Thomas' NHS Foundation Trust, London



How a simple blood test could protect patients and revolutionise diagnosis and disease monitoring

### 1 What are NETs?

Neutrophils make up 70% of the body's white blood cells. When they encounter a pathogen, they expel strings of DNA, which form a web around the invader to trap it. These webs are called Neutrophil ExtraCellular Traps

### 2 What is NETosis?

The neutrophil cell dies while expelling its DNA, and this is called NETosis. This is normally a natural process, but some people over-produce NETs in response to infection – so the cells are actually attacking that person's own body.

### 3 What are the risks of NETosis?

Numerous studies show that people who over-produce NETs are also far more likely to develop sepsis, or to suffer from severe COVID-19. It's therefore important to identify these conditions at an early stage, and proactively anticipate their treatment needs.

### 4 What is Nu.Q<sup>®</sup> NETs?

Nu.Q<sup>®</sup> NETs is a groundbreaking diagnostic test that clinicians can use to aid the detection of diseases associated with NETosis. It could be used to predict if someone is more likely to have a severe case of sepsis or COVID-19.

### 5 What else may this test be able to predict?

Future studies are being planned to establish if Nu.Q<sup>®</sup> NETs life-altering technology could be used for:

- Detecting the spread of cancer and monitoring the success of treatment
- Earlier diagnosis of thrombosis and inflammatory conditions.

