



# TromboNIM<sup>®</sup>

**Genetic innovation  
in the hereditary thrombophilia study**

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*For a safe pregnancy*

 **NIM**Genetics  
New Integrated Medical Genetics

# Hereditary thrombophilia genetic study

**Thrombophilia** is a predisposition to the formation of blood clots (thrombosis), which can have a genetic origin (hereditary thrombophilia).

## Why is it important in pregnancy?

Pregnancy itself is a predisposing factor to thrombosis <sup>(1,2)</sup>.

The association between hereditary thrombophilia and reproductive problems has been established in international scientific publications. <sup>(3)</sup>

Hereditary thrombophilia has been associated with recurrent pregnancy loss, probably secondary to thromboembolic events <sup>(4)</sup>.

## How is it study?

### Conventional studies

FACTOR II  
FACTOR V



High risk patients.  
Carriers of low variants  
in the general population.

### Advanced genetics

FACTOR II + FACTOR V +  
other genes associated  
with thrombophilia



High and moderate risk patients.  
Carriers of low frequency (high risk) and common  
(moderate risk) variants in the general population.

(1): Heit J et al. Ann Intern Med 2005  
(2): Blanco Molina A et al. Thromb Haemost 2007

(3): Gerhardt A et al. N Engl J Med. 2000  
(4): Guideline of the European Society of Human Reproduction and Embryology 2017.



# TromboNIM® is the most complete and extended genetic study of hereditary thrombophilia

Allows to identify patients at risk of reproductive complications, through the most advanced technology and analysis algorithms not available on other platforms. This way, the specialist will be able to assess the use of an antithrombotic treatment.

## Analysis of 24 variants in 18 genes associated with thrombotic risk

### High risk contribution

- FACTOR II (Prothrombin)
- FACTOR V

### Moderate risk contribution

- |                    |           |
|--------------------|-----------|
| • FACTOR XI        | • GP6     |
| • FACTOR XII       | • CYO4V2  |
| • FACTOR XIII      | • PROC9   |
| • Antithrombin     | • KNG1    |
| • Gamma fibrinogen | • SLC44A2 |
| • ABO              | • LPL     |
| • PAI-1            | • MTHFR   |

*Know, prevent, solve*

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Comunidad de Madrid

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CAT-19; Rev 01; 18/01/2019

