

# ThromboNIM<sup>®</sup>

**Genetic Innovation** for thrombophilia studies



# Why ThromboNIM®?

## The state of the art genetic test for thrombophilia

- Analyzes 24 genetic variants
- Studies the genes involved in the conventional and alternative genetic pathways for thrombophilia



## clinical report geared to gynecologist and hematologists:

- **Optimized thrombophilia risk assesment**
  - **Studies a noticeable number of genetic variants** for an adjusted estimate.
  - **Clinical interpretation of results.** Stablish a Genetic Risk Scoring, GRS, based on criteria observed in the genomic positions studied.
  - **Risk assesment adjusted** to nature and frequence of the identified genetic variants.
  - **Explains the estimated impact** based on the current knowledge of the identified variants.
- **Revised nomenclature considering guidelines criteria**

## *The best Strategy for thrombosis prevention*

**Hand in hand with NIMGenetics**, the leading company in genetic diagnosis with professionals accredited by Spanihs Association for Human Genetics, AEGH

# Thrombophilia

Analyzes 24 genetic variants in 18 genes associated to an increased risk of thrombophilia

## What is it?

Clinical condition characterized by a predisposition to thrombosis or the presence of alterations in genes involved in the hemostasis process

## Thrombophilia is associated with an increased risk of <sup>(1-2)</sup>:

- Deep vein thrombosis
- Pulmonary embolism
- Stroke
- Acute myocardial infarction
- Miscarriages and other obstetric complications

Hereditary thrombophilia is involved in more than a half of the thrombosis cases<sup>(6)</sup>.

**Prophylaxis based on mitigating environmental risk factors is essential for these patients<sup>(7)</sup>.**

## Genetic factors<sup>(3-4)</sup>

### Alterations observed in genes that code for:

- Coagulation factors
- Proteins involved in fibrinolysis
- Platelet proteins
- Plasma proteins, lipoproteins, etc.

## RISK CONDITIONS

### Personal factors

- Pregnancy
- Obesity
- Advanced age
- Smoking

### Associated pathologies

- chronic inflammatory disease
- Cancer
- Diabetes

### External factors

- Long-term bedridden

### Treatments

- Oral contraceptives
- IVF cycles
- Hormone replacement therapy

(1) Mälarstig A and Hamsten A (2010). Curr Atheroscler Rep 12:159–166

(2) Simcox LE et al (2015). Int. J. Mol. Sci 16: 28418–28428.

(3) Hotoleanu C (2017). Adv Exp Med Biol 906:253-272.

(4) Morange PE et al. (2015). Thromb Haemost 14(5):910-9.

(5) Martinelli I, et al. (2014). Nat Rev Cardiol 11(3):140-56.

(6) Kreidy R (2014). Int J Vasc Med 2014:859726.

(7) Stevens SM et al. (2016). J Thromb Thrombolysis 41(1):154-64.

# ThromboNIM<sup>®</sup>

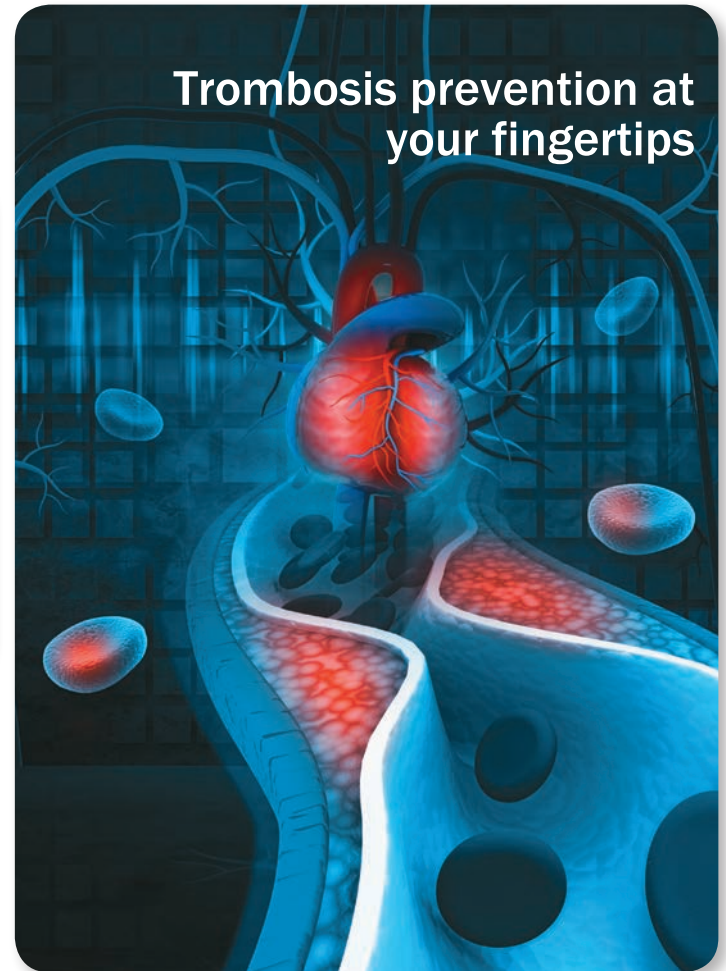
Hereditary thrombophilia genetic test

Factor V  
Factor XI  
Factor XII  
Factor XIII  
Antithrombin  
Gamma fibrinogen  
Prothrombin

ABO  
CYP4V2  
PROCR  
KNG1  
SERPINE1 (PAI-1)  
SERPINC1  
ADRB2  
GP6  
MTHFR  
LPL  
SERPINA10  
SLC44A2

## Sample shipping conditions

- **Sample:** 3-5 ml Peripheral blood with EDTA or stabilized saliva
- **Document requirements:** Informed consent & order form
  
- **Turn Around Time:** 15 working days



# When is a thrombophilia genetic test indicated?



**Vein thrombosis background.**

**Other increased risk conditions:** Pregnancy, obesity, smoking, , advanced age, thrombophilia linked pathologies, long term bedridden

**Thromboembolism personal background:**

- Deep vein thrombosis or recurrent thrombophlebitis
- Pulmonary embolism
- Recurrent miscarriage

**Oral contraceptives, hormone replacement therapy and IVF cycles.**



# NIMGenetics

New Integrated Medical Genetics

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Comunidad de Madrid

NIMGenetics is a Genetic Diagnosis centre authorised by the Department of Health and Consumption of the Community of Madrid, registered in the corresponding Register under number CS 10673

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