

# COMMERCIAL PRESENTATION

*Expertise - Innovation - Prevention*





# OVERVIEW

## CARDIOVASCULAR RISK

- **Cardiovascular Disease**  
Is the leading cause of death in the world
- **Cardiovascular Device Market**  
Represents over \$60B.
- **The Increase Of Scientific Publications**  
Show the growing interest for arterial stiffness.





**PREVENT CARDIOVASCULAR DISEASE**  
**IS AN EMERGENCY**

Cardiovascular disease is a growing public health issue, however it does not vary much in its assessment.



# ARTERIAL STIFFNESS

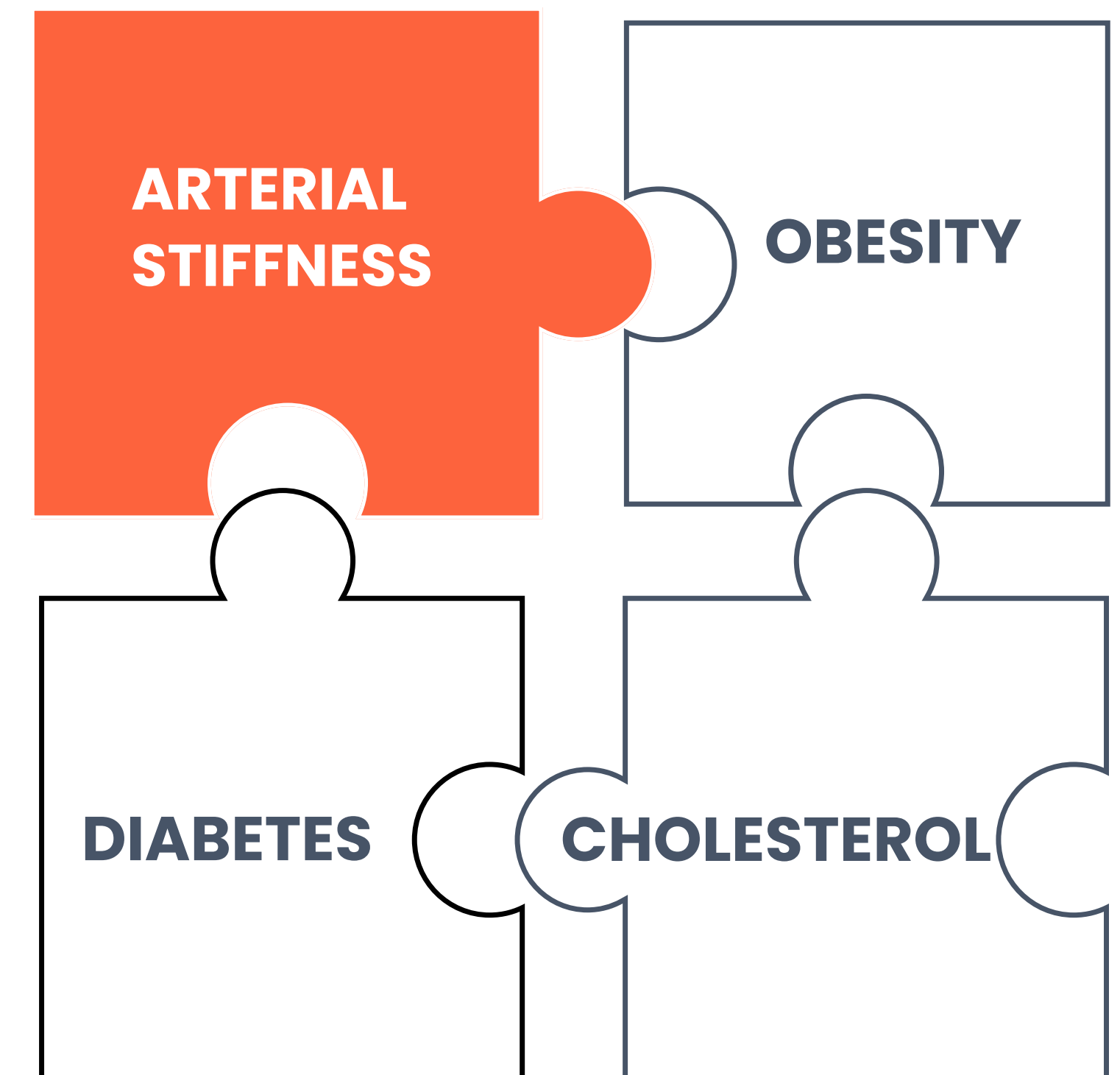
IS THE MISSING PIECE OF CARDIVASCULAR ASSESSMENT

## WHAT IS ARTERIAL STIFFNESS ?

Arterial Stiffness is an independent risk factor which predicts cardiovascular morbidity and mortality and all-cause mortality better than conventional risk factors combined.\*

## WHY IS VASCULAR AGE SO IMPORTANT ?

As an indicator of the elasticity and functionality of blood vessels, vascular age serves as an optimal benchmark for the health of the entire cardiovascular system. Pulse-Wave-Velocity as a marker for aortic arterial stiffness is considered the best independent risk predictor for cardiovascular events.



Kim, Jeong Mi, et al.

"Arterial stiffness is an independent predictor for risk of mortality in patients with type 2 diabetes mellitus: the REBOUND study."

Cardiovascular Diabetology 19 (2020): 1-9.

# A GAME CHANGER

## THINK BACKWARDS

By assessing Arterial Stiffness with the pOpmètre®, Axelife offers an innovative, accessible solution to prevent cardiovascular diseases.

Stiff or narrowed arteries can lead to high blood pressure, arteriosclerosis and other cardiovascular diseases. Potential risks can be detected early by measuring the PWV and thus preventively.

### 1 RISK FACTORS

ARTERIAL STIFFNESS

HYPERTENSION

TOBACCO

DIABETES

CHOLESTEROL

### 2 RISKS

ATHEROSCLEROSIS

HEART FAILURE

PAOD

### 3 CONSEQUENCES

STROKE

HEART ATTACK

AMPUTATIONS



## **A NEW APPROACH TOWARDS**

### **CARDIOVASCULAR PREVENTION**

The pOpmètre® is an excellent empowerment tool for patients. Vascular age provides patients with meaningful information, so that they can become fully involved in their pathcare.

# “ pOpmètre®

OUR SOLUTION TO ASSESS  
ARTERIAL STIFFNESS



## CLASS IIa MEDICAL DEVICE

Clinically validated and non-invasive pOpmètre® measures pulse wave velocity in less than two minutes.

- Pulse Wave Velocity
- Central Blood Pressure
- ABI
- Vascular Age

## A SOLUTION FOR HCPS

The pOpmètre® responds to a variety of medical issues in assessing cardiovascular risk.

- Lack of time & resources
- Need to identify patient most at risk & their adherence to treatment

# MEASURE VASCULAR HEALTH

IN AN NON-OPERATOR  
DEPENDANT WAY AND  
ACCURATELY

## SCREENING

Arterial stiffness is an independent factor in cardiovascular risk.

## PREVENT

Arterial age is an intuitive argument for encouraging patients to change their behavior.

## ASSESS

Identifying the people most at risk is a major issue for more appropriate care.



Direct measurement of transit time and distance from finger to toe. Simultaneous recording of pulse waves at two vessel sites.

Quick and comprehensive assessment of arterial stiffness.

Requires no technical expertise.

Easy to use and delegate.



# ASSESS ARTERIAL STIFFNESS

QUICKLY BY MEASURING THE  
PULSE WAVE VELOCITY WITH  
THE POPMÈTRE®\*



## Step 1

Take the patient's tension and fill his information on the software : ID, Age, Height.

## Step 2

Put the sensor on the index finger.

## Step 3

Put the sensor on the toe.

## Step 4

Wait 14 seconds  
Get the following results : Pulse wave velocity, Ankle Brachial Index, Central Blood Pressure, Arterial age

# BOX CONTENT

## pOpmètre®

And its embedded software



## 2 PPG SENSORS

For the finger and the toe



## 1 USB CABLE

To connect the pOpmètre® to the computer



# “ FRENCH MEDTECH

Axelife is specialized in the field of cardiovascular risk assessment and prevention.

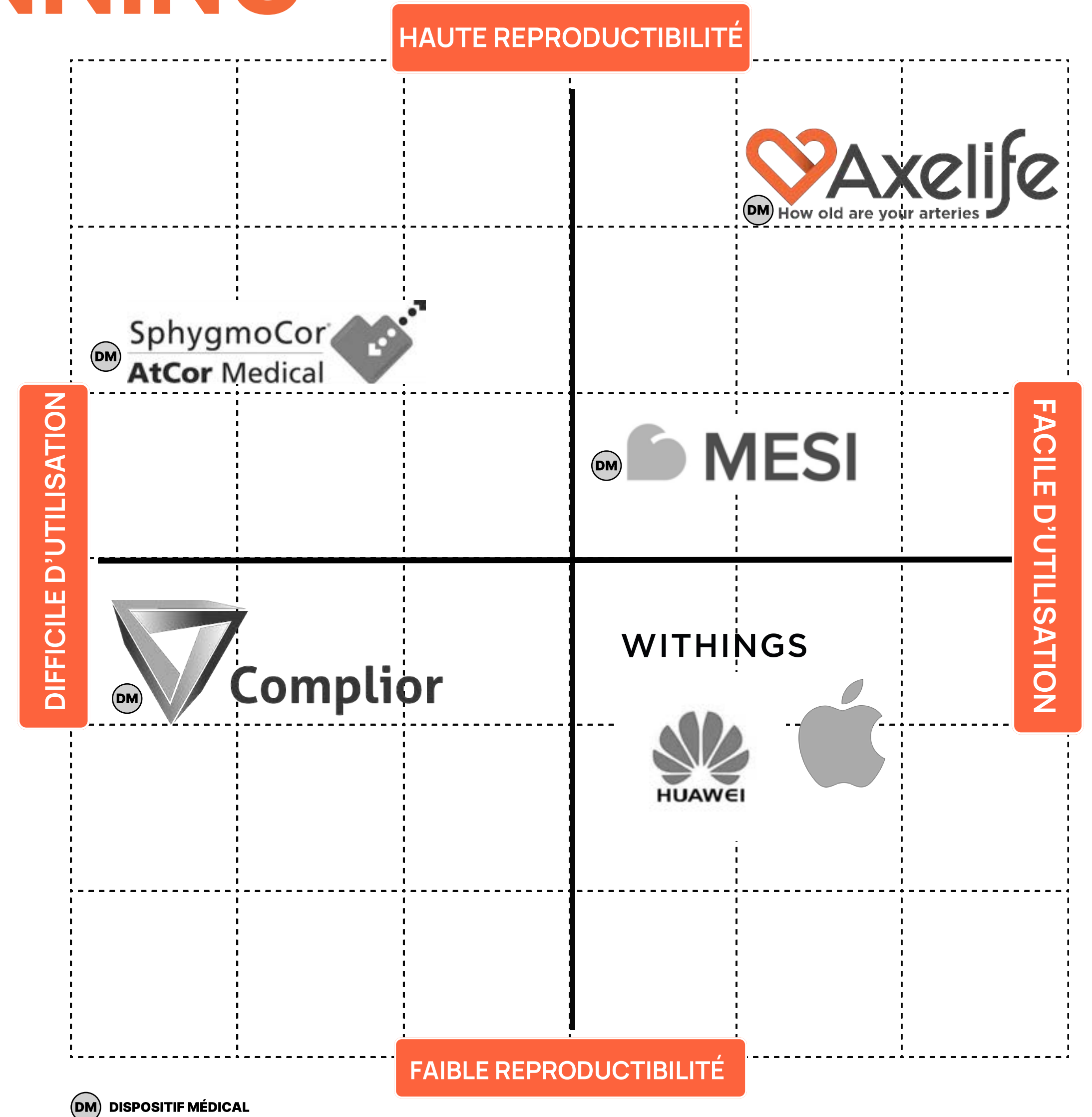


# COMPETITIVE POSITIONNING

## pOpmètre®

THE ONLY ACCESSIBLE MEDICAL DEVICE ALLOWING ARTERIAL STIFFNESS ASSESSMENT IN LESS THAN 2 MINUTES, IN A NON-OPERATOR-DEPENDENT MANNER.

- Measurement of Pulse Wave Velocity
- Analysis of the Pulse Wave
- Calculation of Systolic Pressure Index
- Calculation Central Aortic Pressures
- Calculation Arterial Age



# VASCULAR AGE

It is data that is universally understood by patients.<sup>(5)</sup>

<sup>(5)</sup><https://pubmed.ncbi.nlm.nih.gov/24491403/>



## GROUPE A

Have received dietary advice.



Deterioration of vascular age.

**+4,5 years**



## GROUPE B

Have received dietary advice and their cardiovascular risk in the form of arterial age.



Improvement in vascular age.

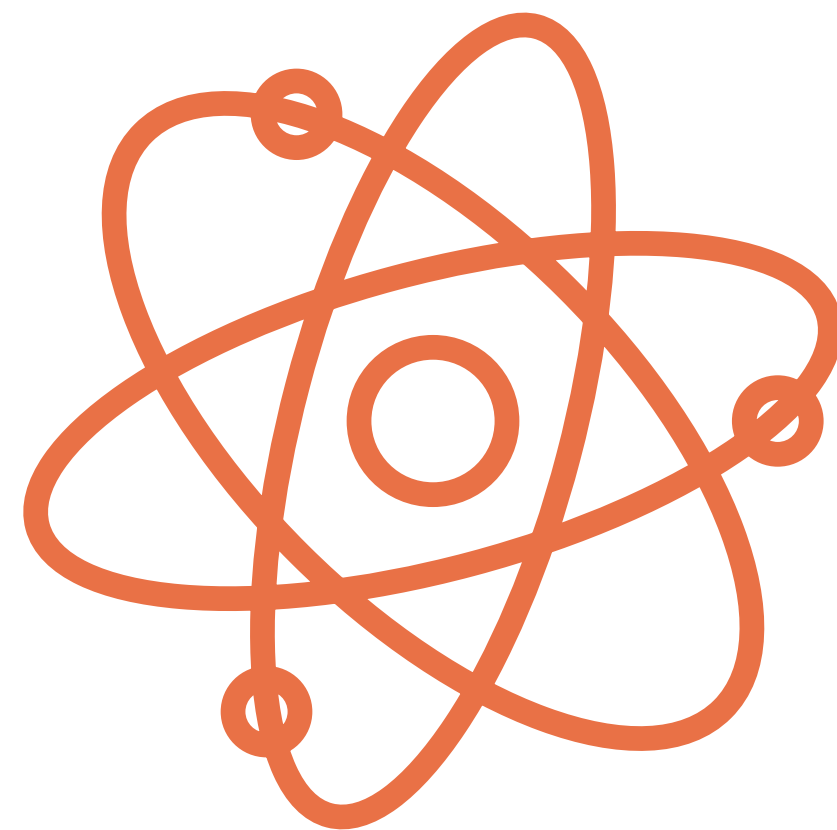
**-1,5 years**

Four times more people quit smoking in this group.



# SCIENTIFIC EXPERTISE

Daily scientific support provided by  
healthcare professionals  
recognized in France and  
internationally for their expertise.



**Pr Pierre Boutouyrie**  
Head of the Clinical Pharmacology  
Department

Georges Pompidou Hospital - Paris



**Dr François Sarkozy**  
President of FSNB  
Health & Care

Pediatrician and former resident of the Hospitals of Paris



**Pr Roland Asmar**  
Cardiologist

Former President of the International Society of  
Vascular Health



**Pr Faouzi Addad**  
Cardiologist

Former President of the Tunisian Society of  
Cardiology



**Pr Stéphane Laurent**  
Head of the Clinical Pharmacology  
Department

Georges Pompidou Hospital - Paris



**Dr Yannick Guillodot**  
Sports physician

Former Scientific Secretary of the French Society  
of Sports Traumatology



**Pr Atul Pathak**  
Chief of Cardiology, Head of Department

Princesse Grace Hospital - President of the French  
Society of Arterial Hypertension



**Dr Imad Abi Nasr**  
Cardiologist MD, FESC Department of  
Medical Cardiology

Bizet Clinic - Paris Scientific Director Axelife



**Pr Michel Marre**  
Head of the Encrinology  
Diabetology Nutrition  
Department

Bichat Claude Bernard Hospital - Paris

# RECOMMENDATIONS

FROM HCPS USING THE POPMETRE®



Pr Asmar  
Cardiologist

“In my opinion, the main advantage of the pOpmètre® is that it is not operator- dependent. You put the pOpmètre® on and let it work, unlike other devices on the market.”



Pr Addad  
Cardiologist

“In one year, I took over 1,500 measurements and observed a significant improvement in the arterial age of the 100 patients treated, thanks to the adaptation of the treatment.”



Dr Guicheteau  
General Practitioner

“The pOpmètre® makes it possible to carry out an absolutely painless examination, which is therefore easily accepted by patients. It's a technical procedure that can be integrated into the patient's care and for which it's possible to delegate tasks.”





# PARTNERS

## THEY TRUST US





**Thank You**

[www.axelife.com](http://www.axelife.com)

[contact@axelife.com](mailto:contact@axelife.com)

