**Patients with Coronary Artery Disease**

Percutaneous Coronary Intervention  
Coronary Artery Bypass Grafting

**Therapies based on Current Secondary Prevention Guidelines**

- Smoking cessation  
- Antiplatelet agents  
- Blood pressure control  
- RAAS blockers  
- Lipid management  
- β-blockers  
- Physical activity  
- Depression management  
- Weight management  
- Cardiac rehabilitation  
- Type 2 DM management

**Non-invasive Peripheral Endothelial Function Assessment (VENDYS Test)**

- Normal Endothelial Function  
  - Continue Therapies  
  - Periodic Endothelial Function Assessment

- *Abnormal Endothelial Function*  
  - Intensive Therapies
    - Maximize statin dose to LDL near 75 or Non-HDL < 100  
    - Add EPA Supplements (e.g. fish oil)  
    - Maximize BP Lowering Drugs to BP <130/85  
    - More Aggressive Weight Loss  
    - Increase Cardio Exercise to 30-45min per Day  
      Every Day @60-70% Maximum Heart Rate  
    - Mediterranean Diet  
    - Stress Reduction Tools (e.g. Yoga)  
    - Treat Underlying Inflammatory Disease  
    - Improve Oral Hygiene  
    - Add Nitrates/Nitrites Supplements (e.g. Beetroot), etc.
  - Periodic Endothelial Function Assessment

*Abnormal endothelial function is defined as VRI less than 1.5 in 2 out of 3 visits /measurements, 1-3 months interval between visits /measurements.*
Imaging Studies (e.g. CACS**) to Try to Identify Elevated CVD Risk

Standard Therapies based on Current Published Guidelines
- Smoking cessation
- Type 2 DM management
- Physical activity
- Depression management
- Weight management
- Lipid management
- Blood pressure control

Non-invasive Peripheral Endothelial Function Assessment (VENDYS Test)

Normal Endothelial Function
- Continue Therapies
- Periodic Endothelial Function Assessment

*Abnormal Endothelial Function
- Imaging Studies (e.g. CACS**) to Try to Identify Elevated CVD Risk
- Normal CVD Risk Category
- Elevated CVD Risk Category

Intensive Therapies
- Maximize statin dose to LDL <75 or Non-HDL <100
- Add EPA Supplements (e.g. fish oil)
- Maximize BP Lowering Drugs to BP <130/85
- More Aggressive Weight Loss
- Increase Cardio Exercise to 30-45min per Day Every Day @60-70% Maximum Heart Rate
- Mediterranean Diet
- Stress Reduction Tools (e.g. Yoga)
- Treat Underlying Inflammatory Disease
- Improve Oral Hygiene
- Add Nitrates/Nitrites Supplements (e.g. Beetroot), etc.

*Abnormal endothelial function is defined as VRI less than 1.5 in 2 out of 3 visits /measurements, 1-3 months interval between visits /measurements.
**CACS is defined as coronary artery calcium score.
Go Beyond Blood Pressure
Detect & Treat
Endothelial Dysfunction

Non-invasive, Inexpensive, Easy to Do

VENDYS II
Vascular Function Measurement Made Easy
VENDYS-II® Sample Report (Good VRI)

VENDYS® Vascular Function Test

- Adjusted Temp Rebound (eTR)
- Vascular Reactivity Index (VRI)
- Room Temperature (Avg 28.5°C)
- Blood Pressure: 100/68 mmHg

Quality Check:
- Cold Finger
- Cold Room
- Baseline Stabilization
- Sympathetic Response
- Vasomotor Instability
- Right vs. Left Delta
- Fluctuating Room Temperature

Neurovascular Reactivity Index (NVR)
- Ischemia: Cuff Inflation Avg. -0.1, SD +0.27
- Reperfusion: Cuff Deflation Avg. 0.03, SD +0.759

Name: [Redacted]
DOB: 1956-03-26
Test Date: 2017-03-15 04:37:21
VENDYS-II® Sample Report (Borderline VRI)

**VENDYS® Vascular Function Test**

- **Right Finger**
- **Left Finger**
- **Zero Reactivity Curve**

**Graphs:**
- Temperature vs. Time
- Adjusted Temp Rebound (aTR)
- Room Temperature (Avg. 23.72°C)

**Quality Check:**
- Cold Finger
- Vasomotor Instability
- Right vs. Left Delta
- Baseline Stabilization
- Fluctuating Room Temperature

**Neurovascular Reactivity Index (NVRI):**
- Ischemia: Cuff Inflation
  - Avg: -0.02
  - SD: ±0.479
- Reperfusion: Cuff Deflation
  - Avg: -0.02
  - SD: ±0.379

**Vascular Reactivity Index (VRI):**
- Your VRI: 1.48

**Blood Pressure:**
- 148/66 mmHg

**Blood Parameters:**
- SYS: 110
- DIA: 66
- MEAN: 69

**Name:** Not provided

**DOB:** 1947-06-05

**Test Date:** 2017-03-26 22:50:00
VENDYS-II® Sample Report (Poor VRI)

**VENDYS® Vascular Function Test**

- **Right Finger**
- **Left Finger**
- **Zero Reactivity Curve**

**Adjusted Temp Rebound (aTR)**

**Vascular Reactivity Index (VRI)**
- **Your VRI: 0.74**
- Poor VRI < 1
- Intermediate 1 < VRI < 2
- Good VRI > 2

**Room Temperature (Avg 23.9 °C)**

**Blood Pressure: 196/88 mmHg**
- **SYS**
- **DIA**
- **MEAN**
- **PULSE**

**Quality Check**
- Sympathetic Response
- Vasomotor Instability
- Right vs. Left Delta
- Fluctuating Room Temperature

**Neurovascular Reactivity Index (NVRI)**
- Ischemia: -0.34
- Reperfusion: 0.17

**Name:**
- **DOB: 1927-03-03**
- **Test Date: 2017-05-17 03:53:12**