ARTERIAL STIFFNESS ASSESSMENT

High Blood Pressure & Arterial Stiffness

10%

CASP (Unit of measure: mmHg)
Central Aortic Systolic Pressure is an important marker of hypertension treatment management.

Peripheral Alx (Unit of measure: %)
Peripheral Augmentation Index is commonly accepted as a measure of aortic arterial stiffness and central aortic.

LEFT baPWV (Unit of measure: cm/s)
Left Brachial Ankle Pulse Wave Velocity (PWV) is used clinically as a measure of lower extremity arterial stiffness.

RIGHT baPWV (Unit of measure: cm/s)
Right Brachial Ankle Pulse Wave Velocity (PWV) is used clinically as a measure of lower extremity arterial stiffness.

COMMENTS:
- Low small artery stiffness risk. However, we detect mild vasoconstriction in small artery.
- No large arterial stiffness has been detected.

BLOOD PRESSURE PULSE VOLUME ANALYSIS

<table>
<thead>
<tr>
<th>Measure</th>
<th>Value</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>CASP</td>
<td>93 mmHg</td>
<td>NORMAL 123</td>
</tr>
<tr>
<td>Peripheral Alx</td>
<td>48%</td>
<td>NORMAL 75</td>
</tr>
<tr>
<td>LEFT baPWV</td>
<td>104 cm/s</td>
<td>NORMAL 1550</td>
</tr>
<tr>
<td>RIGHT baPWV</td>
<td>118 cm/s</td>
<td>NORMAL 1550</td>
</tr>
</tbody>
</table>

PHYSICIAN NOTES:
Peripheral Artery Disease Assessment

Comments:
- Ankle Brachial Indices are in normal range.

Ankle Brachial Index

**LEFT ABI (Unit of measure: ratio)**
Left Ankle Brachial Index (ABI) is used clinically as a marker of peripheral artery disease (PAD).

- ABNORMAL 0.9
- BORDERLINE 1.0
- NORMAL 1.4

**RIGHT ABI (Unit of measure: ratio)**
Right Ankle Brachial Index (ABI) is used clinically as a marker of peripheral artery disease (PAD).

- ABNORMAL 0.9
- BORDERLINE 1.0
- NORMAL 1.4

**LEFT PVV (Unit of measure: mL/min)**
Left Ankle Pulse Volume Velocity represents the return of the blood volume over time after occlusion.

- ABNORMAL 82 mL/min
- BORDERLINE 120
- NORMAL

**RIGHT PVV (Unit of measure: mL/min)**
Right Ankle Pulse Volume Velocity represents the return of the blood volume over time after occlusion.

- ABNORMAL 94 mL/min
- BORDERLINE 120
- NORMAL

Physician Notes:

Patient Name Here
Gender: Male
Age: 60 (DOB: 02/19/1956)
Height: 5' 7" Weight: 236 lbs
BMI: 37.0
HR: 85
### Patient Information
- **Patient Name Here**
- **Gender:** Male  
- **Age:** 60 (DOB: 02/19/1956)  
- **Height:** 5’7”  
- **Weight:** 236 lbs  
- **BMI:** 37.0  
- **HR:** 85

### PHYSICIAN’S REPORT

#### SUDOMOTOR FUNCTION ASSESSMENT

**Small Fiber Neuropathy**
- **85%**

**Skin Microcirculatory Disorder**
- **10%**

#### GALVANIC SKIN RESPONSE & METABOREFLEX

<table>
<thead>
<tr>
<th>Test</th>
<th>Unit</th>
<th>Value</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>LF PEAK CF</td>
<td>mV</td>
<td>640</td>
<td>ABNORMAL 768</td>
</tr>
<tr>
<td>RF PEAK CF</td>
<td>mV</td>
<td>666</td>
<td>ABNORMAL 768</td>
</tr>
<tr>
<td>LF PEAK M</td>
<td>mV</td>
<td>558</td>
<td>ABNORMAL 576</td>
</tr>
<tr>
<td>RF PEAK M</td>
<td>mV</td>
<td>580</td>
<td>ABNORMAL 576</td>
</tr>
</tbody>
</table>

#### COMMENTS:
- Moderate microcirculation disorder in left foot.
- Treating the underlying condition or lifestyle change as well as lab tests (Vitamin B12, Folate test) are suggested.
- Low sudomotor response in both feet. Moderate decrease in C-Fiber density.
- In case of symptom, the patient should be referred to a Neurologist for further examination and treatment options.

### PHYSICIAN NOTES:

- Moderate microcirculation disorder in left foot.
- Treating the underlying condition or lifestyle change as well as lab tests (Vitamin B12, Folate test) are suggested.
- Low sudomotor response in both feet. Moderate decrease in C-Fiber density.
- In case of symptom, the patient should be referred to a Neurologist for further examination and treatment options.
Patient Name Here
Gender: Male
Age: 60 (DOB: 02/19/1956)
Height: 5’ 7”
Weight: 236 lbs
BMI: 37.0
HR: 85

PHYSICIAN’S REPORT
(PHYSICIAN ONLY)
Visit Date: 05/19/2016
Visit Time: 15:09

AUTONOMIC REGULATION ASSESSMENT

70%
Autonomic Dysregulation

TOTAL POWER (Unit of measure: ms²)
Total Power is maker of the overall ANS activity at rest.

HF (Unit of measure: ms²)
HF is a marker of the parasympathetic activity at rest.

LF/HF (Unit of measure: ratio)
LF/HF is a marker of mental stress.

SDANN (Unit of measure: ms)
SDANN is a marker of both sympathetic and parasympathetic.

HEART RATE VARIABILITY

COMMENTS:
• Total Power is reduced. Increased physical activity as well as 25-hydroxyvitamin D test are suggested.
• Mild reduction of VO2 Max. Possibility of mild exercise intolerance.
• Moderately reduced parasympathetic function at rest.
• Mild mental stress has been detected.

PHYSICIAN NOTES:
CARDIAC AUTONOMIC NEUROPATHY ASSESSMENT

65%

Cardiac Autonomic Neuropathy

COMMENTS:
• Mild cardiovagal failure has been detected.
• Mild impairment of cardiovagal regulation.
• Moderate impairment in cardiovagal innervation response.

CARDIAC AUTONOMIC REFLEX TESTS

VALSALVA RATIO (Unit of measure: ratio)
Marker of baroreceptor sensitivity response.

<table>
<thead>
<tr>
<th></th>
<th>ABNORMAL</th>
<th>BORDERLINE</th>
<th>NORMAL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1.15</td>
<td>1.18</td>
<td></td>
</tr>
</tbody>
</table>

E/I RATIO (Unit of measure: ratio)
Expiration/Inspiration Ratio is a marker of cardiovagal response.

<table>
<thead>
<tr>
<th></th>
<th>ABNORMAL</th>
<th>BORDERLINE</th>
<th>NORMAL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1.12</td>
<td>1.15</td>
<td></td>
</tr>
</tbody>
</table>

K3015 RATIO (Unit of measure: ratio)
Heart rate change during standing at 30 and 15 second.

<table>
<thead>
<tr>
<th></th>
<th>ABNORMAL</th>
<th>BORDERLINE</th>
<th>NORMAL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1.02</td>
<td>1.05</td>
<td></td>
</tr>
</tbody>
</table>

SPRS (Unit of measure: mmHg)
Systolic Pressure Response to Standing is a marker of sympathetic adrenergic function.

<table>
<thead>
<tr>
<th></th>
<th>NORMAL</th>
<th>BORDERLINE</th>
<th>ABNORMAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>-5</td>
<td></td>
<td>29</td>
<td></td>
</tr>
</tbody>
</table>

PHYSICIAN NOTES:
**Patient Name Here**
Gender: Male  
Age: 60 (DOB: 02/19/1956)  
Height: 5' 7"  
Weight: 236 lbs  
BMI: 37.0  
HR: 85

---

**DIABETES MARKERS**

<table>
<thead>
<tr>
<th>Marker</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Systolic Pressure</td>
<td>113 mmHg</td>
</tr>
<tr>
<td>Diastolic Pressure</td>
<td>64 mmHg</td>
</tr>
<tr>
<td>Reflection Index</td>
<td>15%</td>
</tr>
<tr>
<td>LF/HF</td>
<td>1.3</td>
</tr>
<tr>
<td>PTGTP</td>
<td>213 ms²</td>
</tr>
<tr>
<td>Stress Index</td>
<td>45%</td>
</tr>
<tr>
<td>Total Power</td>
<td>4792 ms²</td>
</tr>
<tr>
<td>Sweat Baseline</td>
<td>1036 mV</td>
</tr>
<tr>
<td>Fat Mass</td>
<td>15.9%</td>
</tr>
</tbody>
</table>

**HEART DISEASE MARKERS**

<table>
<thead>
<tr>
<th>Marker</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>PTGi</td>
<td>4 V/s</td>
</tr>
<tr>
<td>PTGVLFi</td>
<td>94.5 m²/μS</td>
</tr>
<tr>
<td>CASP</td>
<td>86 mmHg</td>
</tr>
<tr>
<td>Pulse Pressure</td>
<td>49 mmHg</td>
</tr>
<tr>
<td>baPVW</td>
<td>980 cm²/s</td>
</tr>
<tr>
<td>ABI</td>
<td>1.2</td>
</tr>
<tr>
<td>CAN Score</td>
<td>0</td>
</tr>
</tbody>
</table>

**COMMENTS:**
- Mild metabolic syndrome has been detected.

**COMMENTS:**
- No heart disease risk has been detected.