VitalScan

Arterial Vascular Assessment - Segmental Analysis

Demo Patient
Gender:Male
Age:27 (DOB: Feb 25 1991)
Weight:125 lbs
BMI:18.5
Height:5 ft 9 in

Physician Only Report
Exam Date:Nov 3 2017 13:12

Resting - Right - Arm

EEI = 0.79 DDI = 0.68 DEI = 0.63

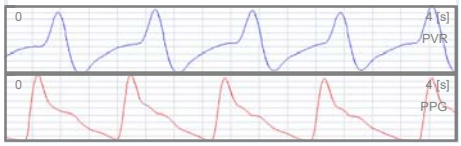
AI = -0.48 RI = 0.44 SI = 7.46

PTT = 201.45 ms DPTI/SPTI = 0.33

PWV = 3.98 m/s Systolic = 118 mmHg

SpO2 = 96 % Diastolic = 78 mmHg

CASP = 113 mmHg



Resting - Left - Arm

EEI = 0.67 DDI = 0.56 DEI = 0.54

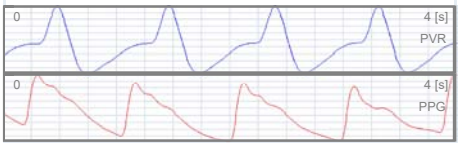
AI = -0.31 RI = 0.55 SI = 7.97

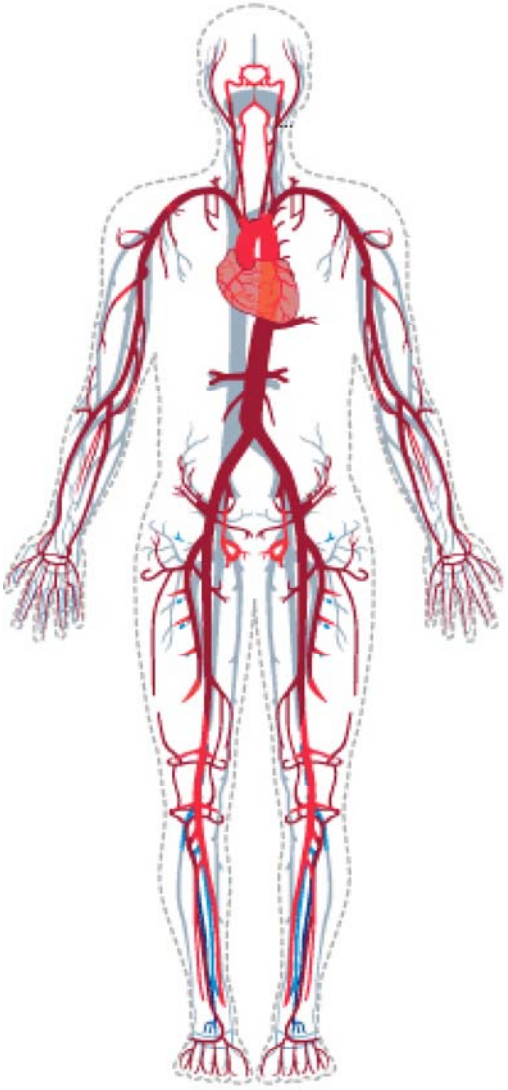
PTT = 205.82 ms DPTI/SPTI = 0.36

PWV = 3.9 m/s Systolic = 93 mmHg

SpO2 = 95.5 % Diastolic = 70 mmHg

CASP = 90 mmHg





Resting - Right - Ankle

EEI = 0.77 DDI = 0.79 DEI = 0.57

AI = -0.45 RI = 0.29 SI = 6.04

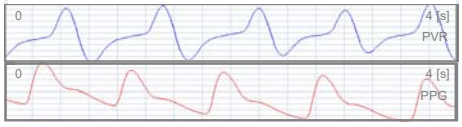
PTT = 243.38 ms DPTI/SPTI = 0.16

PWV = 5.62 m/s Systolic = 164 mmHg

SpO2 = 96.1 % Diastolic = 118 mmHg

Systolic 3 = 183 mmHg

Diastolic 3 = 87 mmHg



Resting - Left - Ankle

EEI = 0.83 DDI = 0.81 DEI = 0.63

AI = -0.54 RI = 0.28 SI = 5.94

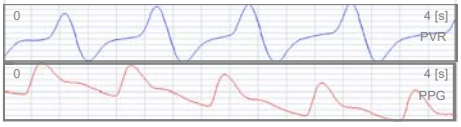
PTT = 242.98 ms DPTI/SPTI = 0.15

PWV = 5.6 m/s Systolic = 160 mmHg

SpO2 = 91.8 % Diastolic = 111 mmHg

Systolic 3 = 166 mmHg

Diastolic 3 = 91 mmHg



Resting - Right - Compare

dEEI = -0.02 dDDI = 0.11 dDEI = -0.05

dAI = 0.03 dRI = -0.15 dSI = -1.41

ftPTT = 45.5 ms dDPTI/dSPTI = -0.17

ftPWV = 15.3 m/s d Systolic = 46 mmHg

baPWV = 13 m/s d Diastolic = 40 mmHg

Ankle/Brachial Index (ABI) = 1.14

Toe/Brachial Index (TBI) = 1.24

Normal range

Resting - Left - Compare

dEEI = 0.16 dDDI = 0.25 dDEI = 0.09

dAI = -0.22 dRI = -0.27 dSI = -2.03

ftPTT = 37.0 ms dDPTI/dSPTI = -0.21

ftPWV = 20.7 m/s d Systolic = 67 mmHg

baPWV = 14 m/s d Diastolic = 41 mmHg

Ankle/Brachial Index (ABI) = 1.47

Toe/Brachial Index (TBI) = 1.25

Physician`s Notes:

VitalScan

Arterial Vascular Assessment - Segmental Analysis

Demo Patient
Gender: Male
Age: 52 (DOB: 1 Jan 1966 12:00)
Weight: 83 kg
BMI: 27
Height: 175 cm

Exam Date: 11 Sep 2017 14:45

Resting - Right - Arm

EEI = 0.64 DDI = 0.63 DEI = 0.5

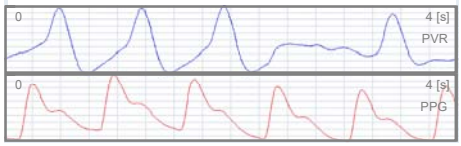
AI = -0.27 RI = 0.45 SI = 8.55

PTT = 155.41 ms DPTI/SPTI = 0.28

PWV = 5.18 m/s Systolic = 128 mmHg

SpO2 = 96.4 % Diastolic = 71 mmHg

CASP = 122 mmHg



Standing - Arm

EEI = 0.95 DDI = 0.87 DEI = 0.93

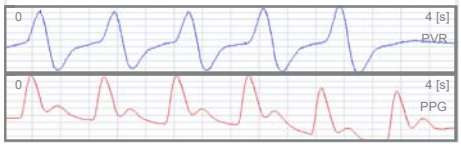
AI = -0.71 RI = 0.32 SI = 7.79

PTT = 141.96 ms DPTI/SPTI = 0.18

PWV = 5.88 m/s Systolic = 128 mmHg

SpO2 = 94 % Diastolic = 92 mmHg

CASP = 122 mmHg



Compare - Arm

dEEI = 0.31 dDDI = 0.24 dDEI = 0.44

dAI = -0.43 dRI = -0.14 dSI = -0.76

dPTT = -13.45 ms dDPTI/dSPTI = -0.1

dPWV = 0.7 m/s d Systolic = 0 mmHg

dSpO2 = -2.4 % d Diastolic = 21 mmHg

Resting - Right - Ankle

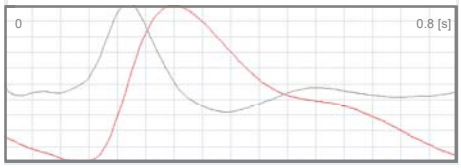
EEI = 0.55 DDI = 0.63 DEI = 0.36

AI = -0.14 RI = 0.41 SI = 6.87

PTT = 214.64 ms DPTI/SPTI = 0.25

PWV = 6.35 m/s Systolic = 160 mmHg

SpO2 = 96.2 % Diastolic = 74 mmHg



Standing - Ankle

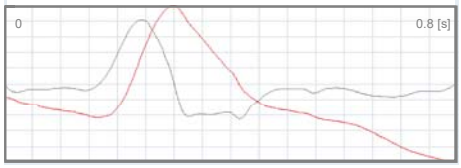
EEI = 0.7 DDI = 0.91 DEI = 0.7

AI = -0.36 RI = 0.19 SI = 7.97

PTT = 210 ms DPTI/SPTI = 0.1

PWV = 3.62 m/s Systolic = 142 mmHg

SpO2 = 91.8 % Diastolic = 110 mmHg



Compare - Ankle

dEEI = 0.15 dDDI = 0.28 dDEI = 0.34

dAI = -0.21 dRI = -0.21 dSI = 1.09

dPTT = -4.64 ms dDPTI/dSPTI = -0.14

dPWV = -2.73 m/s d Systolic = -18 mmHg

dSpO2 = -4.4 % d Diastolic = 36 mmHg

Resting - Right - Compare

dEEI = -0.09 dDDI = 0 dDEI = -0.14

dAI = 0.13 dRI = -0.05 dSI = -1.68

ftPTT = 60.88 ms dDPTI/dSPTI = -0.03

ftPWV = 9.73 m/s d Systolic = 31 mmHg

dSpO2 = -0.2 % d Diastolic = 3 mmHg

Ankle/Brachial Index (ABI) = 0.99

Toe/Brachial Index (TBI) = 1.15

Acceptable, Borderline

Standing - Compare

dEEI = -0.25 dDDI = 0.03 dDEI = -0.23

dAI = 0.35 dRI = -0.12 dSI = 0.18

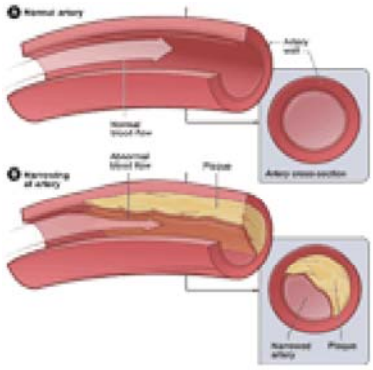
ftPTT = 71 ms dDPTI/dSPTI = -0.08

ftPWV = 7.05 m/s d Systolic = 5 mmHg

dSpO2 = -2.2 % d Diastolic = 11 mmHg

Ankle/Brachial Index (ABI) = 1.03

Toe/Brachial Index (TBI) = 0.96



Physician`s Notes:

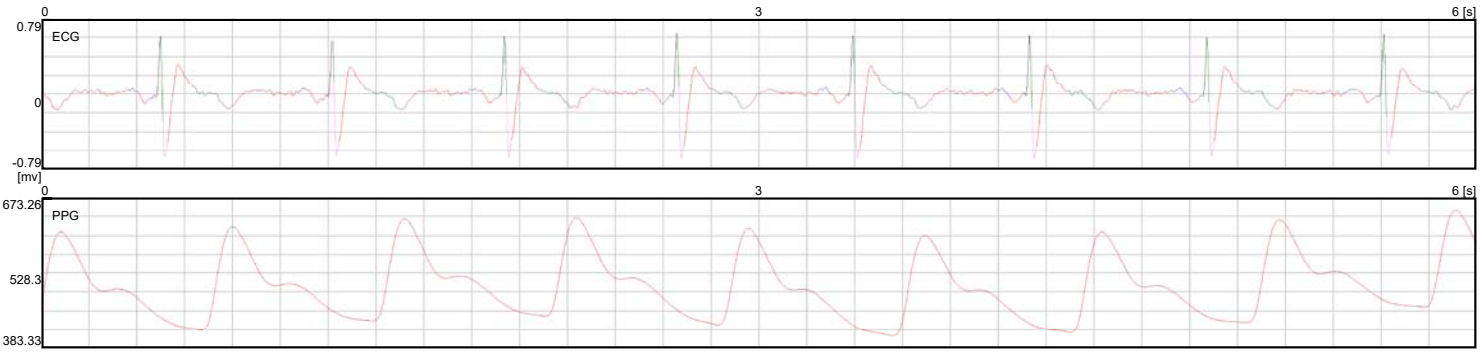
VitalScan

SUMMARY REPORT

Demo Patient
Gender: Male
Age: 51 (DOB: Jan 1 1966 12:00)
Weight: 183 lbs
BMI: 27
Height: 5 ft 9 in

Physician Only Report
Exam Date: Sep 11 2017 14:45

Cardiovascular Function



	Score	Norms	Description	Comments
EEI	0.7	0.3 - 0.7	EEI is an indicator for left ventricle ejection power and elasticity of large arteries.	Borderline Normal Blood Circulation
DDI	0.64	0.3 - 0.7	DDI indicates the contractility, tension and stiffness in the small arteries.	Borderline Normal Blood Circulation
DEI	0.52	0.3 - 0.7	DEI represents the reflection of arterial elasticity and blood flow in the venous system.	Normal Blood Circulation
AI	-0.28	<-0.7	Augmentation Index (AI) is a useful marker for cardiac risk. AI increases with age and a sedentary lifestyle.	AI is a measure of arterial stiffness and it provides general information about the arteries. AI is positively correlated with pulsewave velocity, blood pressure and hypertension.
ABI	1.04	1 - 1.4	Ankle/Brachial Index	Normal range
TBI	1.15	> 0.75	Toe/Brachial Index	Normal range
ABIS	1.03	1 - 1.4	Standing Ankle/Brachial Index	Normal range
TBIS	0.96	> 0.75	Standing Toe/Brachial Index	Normal range
CRR	12.6	> 14	Coronary Respiratory Response	Acceptable, Borderline

	Score	Units	Norms		Score	Units	Norms
Reflection Index	0.5		.65-.85	Stiffness Index	8.55	m/s	< 8.0
Stroke Volume	64.6	ml	55-100	Cardiac Output	5.29	l/min	4.0-8.0
Mean Arterial Pressure	88	mmHg	70-110	Blood Volume	5.25	l	3-5
C1	12.8	ml/mmHg	> 10.0	C2	4.73	ml/mmHg	> 6.0
DPTI/SPTI	0.26	ratio		Pulse Oximetry	96.44		>95
Systemic Vascular Resistance	1307		700-1800	Blood Pressure	128/71	mmHg	<120
Ventricular Extrasystole	0		< 1	Atrial Extrasystole	0		< 1
Artifacts	1		< 1	QRS	53	ms	60-120
QTc	354	ms	350-460	ST seg	115	ms	80-120
PR int	108	ms	120-200	QT	301	ms	350-460
PR seg	63	ms		Body Mass Index	27		19-25

Sudomotor Function

	Score	Norms	Description	Comments
Sudomotor Neuropathy	11	< 50	Risk for sudomotor autonomic neuropathy. Sweat Gland C-Fiber density and function	No clear sign of Sudomotor dysfunction.

Physician`s Notes:

VitalScan

PERIPHERAL ARTERY DISEASE ASSESSMENT

Demo Patient
Gender: Male
Age: 51 (DOB: Jan 1 1966 12:00)
Weight: 183 lbs
BMI: 27
Height: 5 ft 9 in

Physician Only Report
Exam Date: Sep 11 2017 14:45

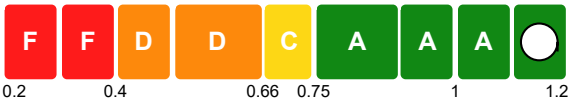
ANKLE/BRACHIAL INDEX (ABI) = 1.04

ABI test is a quick, noninvasive way to check your risk of peripheral artery disease (PAD). Peripheral artery disease is a condition in which the arteries in your legs or arms are narrowed or blocked.

Normal range

TOE/BRACHIAL INDEX (TBI) = 1.15

Determine the severity of peripheral arterial disease present in a lower extremity.



Normal range

Ejection Elasticity Index (EEI): 0.6

EEI is an indicator for left ventricle ejection power and elasticity of large arteries.

Borderline Normal Blood Circulation

Dicrotic Dilation Index (DDI): 0.63

DDI indicates the contractility, tension and stiffness in the small arteries.

Borderline Normal Blood Circulation

Dicrotic Elasticity Index (DEI): 0.5

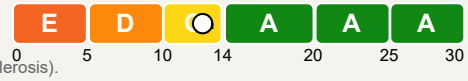
DEI represents the reflection of arterial elasticity and blood flow in the venous system.

Normal Blood Circulation

Coronary Respiratory Response: 12.6

CAD occurs when the blood vessels that transport blood to the heart are narrowed and hardened due to plaque buildup (atherosclerosis).

Acceptable, Borderline



	Score	Units	Norms		Score	Units	Norms
Augmentation Index	-0.27		<-0.7	Reflection Index	0.5		.65-.85
Stiffness Index	8.55	m/s	< 8.0	Stroke Volume	64.6	ml	55-100
Cardiac Output	5.29	l/min	4.0-8.0	Mean Arterial Pressure	88	mmHg	70-110
Blood Volume	5.25	l	3-5	C1	12.72	ml/mmHg	> 10.0
C2	4.73	ml/mmHg	> 6.0	DPTI/SPTI	0.28	ratio	
Pulse Oximetry	96.44		>95	Systemic Vascular Resistance	1307		700-1800
Blood Pressure	128/71	mmHg	<120				

A - Normal **B** - Borderline Normal **C** - Moderate **D** - Borderline Abnormal **E** - Abnormal **F** - Severe

Physician`s Notes:

All results and analysis should be considered in the context of persons/candidate's case history, symptoms, diagnosis, current medications, treatment plans and therapies.
Final diagnosis is the sole responsibility of the licensed medical practitioner after persons examination, lab tests and/or other clinical findings as necessary.

Printed: Sep 16 2017 18:04

VitalScan

Arterial Stiffness Assessment - Pulse Wave Velocity

Demo Patient
Gender:Male
Age:51 (DOB: Jan 1 1966 12:00)
Weight:183 lbs
BMI:27
Height:5 ft 9 in

Physician Only Report
Exam Date:Sep 11 2017 14:45

Ejection Elasticity Index (EEI) = 0.65

EEI is an indicator for left ventricle ejection power and elasticity of large arteries.

Borderline Normal Blood Circulation

Dicrotic Dilation Index (DDI) = 0.64

DDI indicates the contractility, tension and stiffness in the small arteries.

Borderline Normal Blood Circulation

Dicrotic Elasticity Index (DEI) = 0.52

DEI represents the reflection of arterial elasticity and blood flow in the venous system.

Normal Blood Circulation

Augmentation Index (AI) = -0.28

Augmentation Index (AI) is a useful marker for cardiac risk. AI increases with age and a sedentary lifestyle.

AI is a measure of arterial stiffness and it provides general information about the arteries. AI is positively correlated with pulsewave velocity, blood pressure and hypertension.

A = Excellent
B = Borderline Normal
C = Mild - Moderate
D = Borderline Abnormal
E = Abnormal - Severe
F = Severe

Reflection Index (RI) = 0.45

RI is an indicator of the vascular tone of the small arteries. Both vasodilation and vasoconstriction play important roles in determining vascular tone.

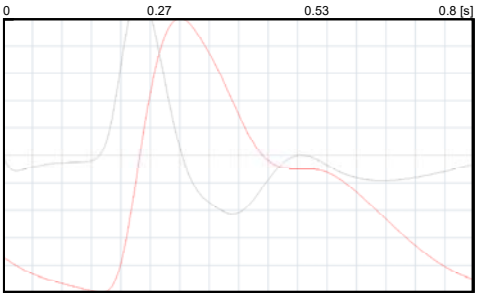
Stiffness Index (SI) = 8.5 m/s

SI is a measure of large artery stiffness determined by time. SI calculation gives a value similar to aortic pulse wave velocity.

APG Pattern

An indication of the biological, (rather than chronological) age of arteries

APG Type = C



Heart Rate = 82 (bpm) SpO2 = 96.5 (%)

C1 - Capacitive Arterial Compliance = 12.8 ml/mmHg

C2 - Oscillatory or Reflective Arterial Compliance = 4.73 ml/mmHg

Diastolic/Systolic Pressure Time Index(DPTI/SPTI) = 0.26

Systemic Vascular Resistance (SVR): 1307 (700-1800)

Blood Volume (BV): 5.25 l (3-5)

Cardiac Output (Q): 5.29 l/min (4.0-8.0)

Pulse Pressure (PP): 32.28 mmHg (25-100)

Physician`s Notes:

VitalScan

Arterial Vascular Assessment - Segmental Analysis

Demo Patient
Gender:Male
Age:51 (DOB: Jan 1 1966 12:00)
Weight:183 lbs
BMI:27
Height:5 ft 9 in

Physician Only Report
Exam Date:Sep 11 2017 14:45

Resting - Right - Finger

EEI = 0.644
DDI = 0.63
DEI = 0.497

AI = -0.27	DPTI/SPTI = 0.28
RI = 0.45	Systolic = 128 mmHg
SI = 8.55	Diastolic = 71 mmHg
PTT = 155.41 ms	SpO2 = 96.44 %
PWV = 5.18 m/s	

Standing - Finger

EEI = 0.955
DDI = 0.874
DEI = 0.932

AI = -0.71	DPTI/SPTI = 0.18
RI = 0.32	Systolic = 128 mmHg
SI = 7.79	Diastolic = 92 mmHg
PTT = 141.96 ms	SpO2 = 94.02 %
PWV = 5.88 m/s	

Compare - Finger

xEEI = 0.31
xDDI = 0.244
xDEI = 0.435

xAI = -0.43	xDPTI/xSPTI= -0.1
xRI = -0.14	xSystolic = 0 mmHg
xSI = -0.76	xDiastolic = 21 mmHg
xPTT = -13.45 ms	xSpO2 = -2.41 %
xPWV = 0.7 m/s	

Resting - Right - Toe

EEI = 0.55
DDI = 0.63
DEI = 0.362

AI = -0.14	DPTI/SPTI = 0.25
RI = 0.41	Systolic = 160 mmHg
SI = 6.87	Diastolic = 74 mmHg
PTT = 214.64 ms	SpO2 = 96.22 %
PWV = 6.35 m/s	

Standing - Toe

EEI = 0.704
DDI = 0.908
DEI = 0.699

AI = -0.36	DPTI/SPTI = 0.1
RI = 0.19	Systolic = 142 mmHg
SI = 7.97	Diastolic = 110 mmHg
PTT = 210 ms	SpO2 = 91.8 %
PWV = 3.62 m/s	

Compare - Toe

xEEI = 0.153
xDDI = 0.278
xDEI = 0.337

xAI = -0.21	xDPTI/xSPTI= -0.14
xRI = -0.21	xSystolic = -18 mmHg
xSI = 1.09	xDiastolic = 36 mmHg
xPTT = -4.64 ms	xSpO2 = -4.42 %
xPWV = -2.73 m/s	

Resting - Right - Compare

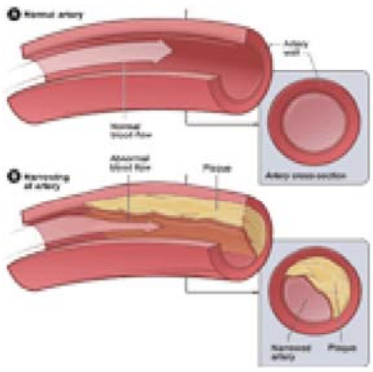
xEEI = -0.094	ABI = 1.04
xDDI = 0	TBI = 1.15
xDEI = -0.135	

xAI = 0.13	xDPTI/xSPTI = -0.03
xRI = -0.05	xSystolic = 31 mmHg
xSI = -1.68	xDiastolic = 3 mmHg
ftPTT = 60.88 ms	xSpO2 = -0.21 %
ftPWV = 9.73 m/s	

Standing - Compare

xEEI = -0.251	ABI = 0.83
xDDI = 0.034	TBI = 0.96
xDEI = -0.233	

xAI = 0.35	xDPTI/xSPTI = -0.08
xRI = -0.12	xSystolic = 5 mmHg
xSI = 0.18	xDiastolic = 11 mmHg
ftPTT = 71 ms	xSpO2 = -2.22 %
ftPWV = 7.05 m/s	



Physician`s Notes:

VitalScan

Arterial Vascular Assessment - Resting - Right

Demo Patient
Gender:Male
Age:51 (DOB: Jan 1 1966 12:00)
Weight:183 lbs
BMI:27
Height:5 ft 9 in

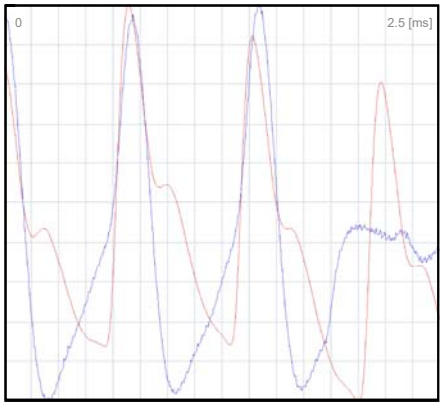
Physician Only Report
Exam Date:Sep 11 2017 14:45

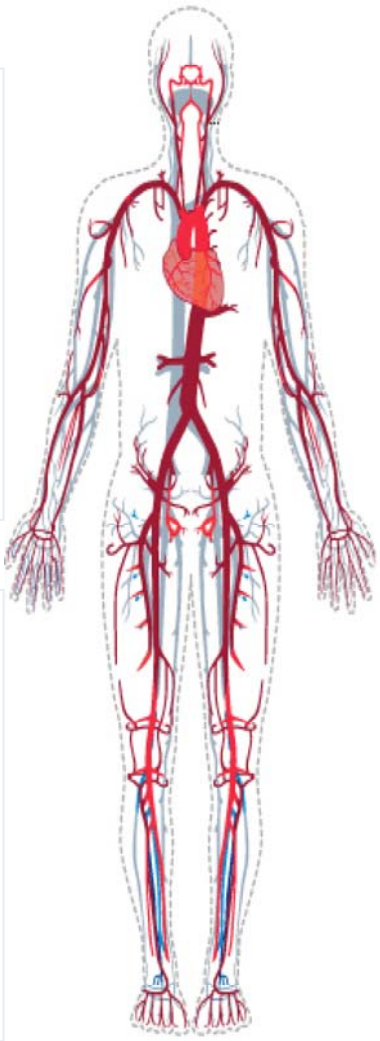
RESTING - RIGHT - FINGER

Ejection Elasticity Index (EEI) = 0.644
Dicrotic Dilation Index (DDI) = 0.63
Dicrotic Elasticity Index (DEI) = 0.497

AI = -0.27
RI = 0.45
SI = 8.55
PTT = 155.41 ms
PWV = 5.18 m/s

DPTI/SPTI = 0.28
Systolic = 128 mmHg
Diastolic = 71 mmHg
SpO2 = 96.44 %



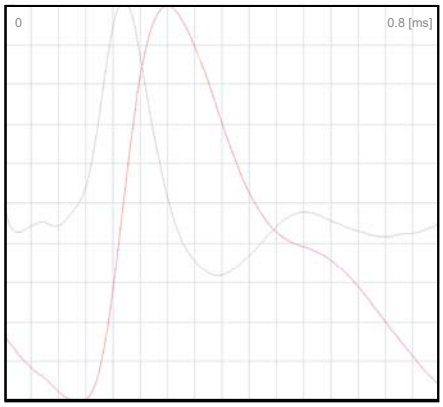


RESTING - RIGHT - TOE

Ejection Elasticity Index (EEI) = 0.55
Dicrotic Dilation Index (DDI) = 0.63
Dicrotic Elasticity Index (DEI) = 0.362

AI = -0.14
RI = 0.41
SI = 6.87
PTT = 214.64 ms
PWV = 6.35 m/s

DPTI/SPTI = 0.25
Systolic = 159.56 mmHg
Diastolic = 73.95 mmHg
SpO2 = 96.22 %



RESTING - RIGHT - COMPARE

x Ejection Elasticity Index (xEEI) = -0.094
x Dicrotic Dilation Index (xDDI) = 0
x Dicrotic Elasticity Index (xDEI) = -0.135

xAI = 0.13
xRI = -0.05
xSI = -1.68
ftPTT = 60.88 ms
ftPWV = 9.73 m/s

xDPTI/xSPTI = -0.03
x Systolic = 30.83 mmHg
x Diastolic = 2.62 mmHg
xSpO2 = -0.21 %

Ankle/Brachial Index (ABI) = 1.04
Toe/Brachial Index (TBI) = 1.15
Normal range

ABI < 0.4: Severe arterial disease, severe obstruction
0.4 - 0.7: Moderate arterial disease, moderate obstruction
0.7 - 0.9: Some arterial disease, mild obstruction
0.9 - 1.0: Acceptable, Borderline
1.0 - 1.4: Normal range
ABI > 1.4: Abnormal Vessel hardening from PVD

TBI < 0.66: Abnormal range
0.66 - 0.75: Acceptable, Borderline
TBI > 0.75: Normal range

Physician`s Notes:

VitalScan

ARTERIAL VASCULAR ASSESSMENT - STANDING

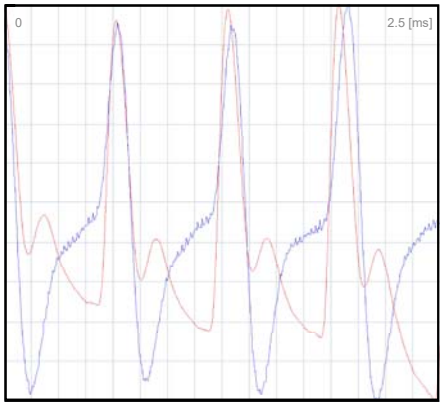
Demo Patient
Gender:Male
Age:51 (DOB: Jan 1 1966 12:00)
Weight:183 lbs
BMI:27
Height:5 ft 9 in

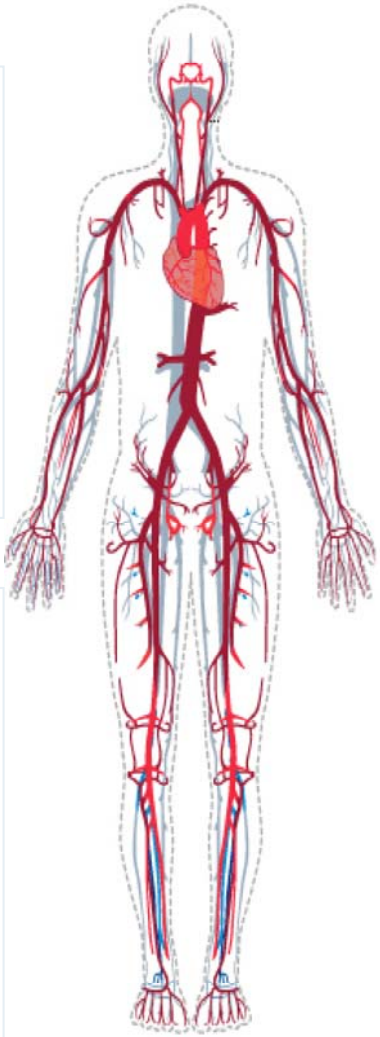
Physician Only Report
Exam Date:Sep 11 2017 14:45

STANDING - FINGER

Ejection Elasticity Index (EEI) = 0.955
Dicrotic Dilation Index (DDI) = 0.874
Dicrotic Elasticity Index (DEI) = 0.932

AI = -0.71	DPTI/SPTI = 0.18
RI = 0.32	Systolic = 128.12 mmHg
SI = 7.79	Diastolic = 91.79 mmHg
PTT = 141.96 ms	SpO2 = 94.02 %
PWV = 5.88 m/s	

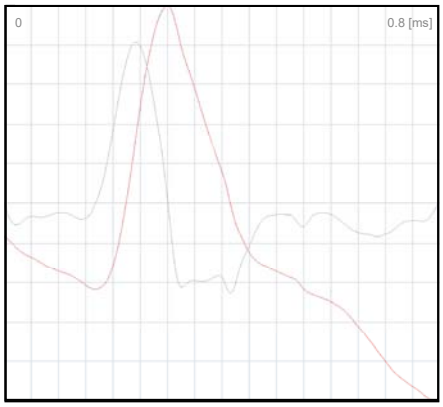




STANDING - TOE

Ejection Elasticity Index (EEI) = 0.704
Dicrotic Dilation Index (DDI) = 0.908
Dicrotic Elasticity Index (DEI) = 0.699

AI = -0.36	DPTI/SPTI = 0.1
RI = 0.19	Systolic = 141.54 mmHg
SI = 7.97	Diastolic = 109.81 mmHg
PTT = 210 ms	SpO2 = 91.8 %
PWV = 3.62 m/s	



STANDING - COMPARE

x Ejection Elasticity Index (xEEI) = -0.251
x Dicrotic Dilation Index (xDDI) = 0.034
x Dicrotic Elasticity Index (xDEI) = -0.233

xAI = 0.35	xDPTI/xSPTI = -0.08
xRI = -0.12	x Systolic = 4.71 mmHg
xSI = 0.18	x Diastolic = 10.57 mmHg
ftPTT = 71 ms	xSpO2 = -2.22 %
ftPWV = 7.05 m/s	

Ankle/Brachial Index (ABI) = 0.83
Toe/Brachial Index (TBI) = 0.96
Possible: Some arterial disease, mild obstruction

ABI < 0.4: Severe arterial disease, severe obstruction
0.4 - 0.7: Moderate arterial disease, moderate obstruction
0.7 - 0.9: Some arterial disease, mild obstruction
0.9 - 1.0: Acceptable, Borderline
1.0 - 1.4: Normal range
ABI > 1.4: Abnormal Vessel hardening from PVD

TBI < 0.66: Abnormal range
0.66 - 0.75: Acceptable, Borderline
TBI > 0.75: Normal range

Physician`s Notes:

VitalScan

Arterial Vascular Assessment - Deep Breathing

Demo Patient
Gender:Male
Age:51 (DOB: Jan 1 1966 12:00)
Weight:183 lbs
BMI:27
Height:5 ft 9 in

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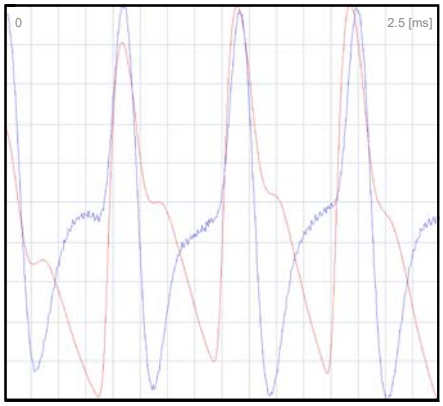
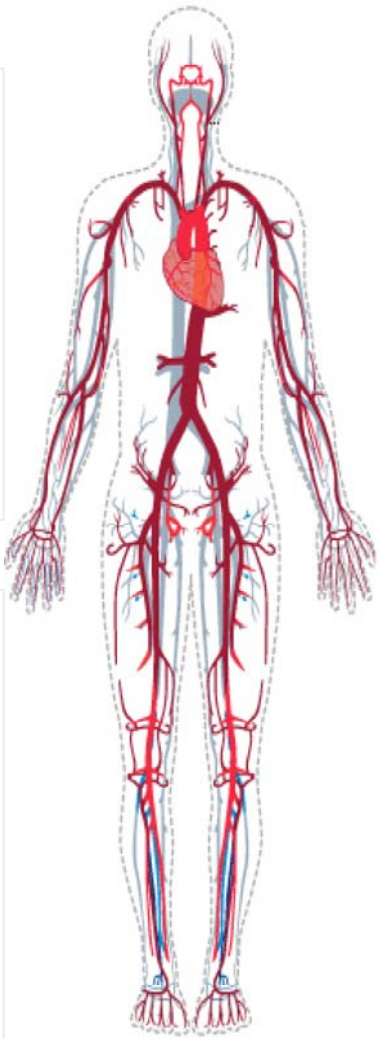
DEEP BREATHING - FINGER

Ejection Elasticity Index (EEI) = 0.605
Dicrotic Dilation Index (DDI) = 0.635
Dicrotic Elasticity Index (DEI) = 0.462

AI = -0.22
RI = 0.44
SI = 8.35
PTT = 151.93 ms
PWV = 5.28 m/s

DPTI/SPTI = 0.26
Systolic = 129 mmHg
Diastolic = 72 mmHg
SpO2 = 97.16 %



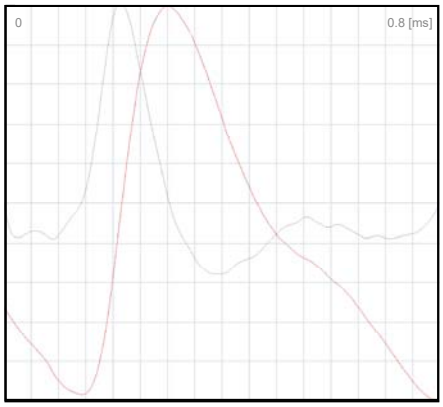


DEEP BREATHING - TOE

Ejection Elasticity Index (EEI) = 0.491
Dicrotic Dilation Index (DDI) = 0.576
Dicrotic Elasticity Index (DEI) = 0.202

AI = -0.06
RI = 0.41
SI = 7.3
PTT = 220.16 ms
PWV = 6.17 m/s

DPTI/SPTI = 0.25
Systolic = 155.49 mmHg
Diastolic = 76.26 mmHg
SpO2 = 89.52 %



DEEP BREATHING - COMPARE

x Ejection Elasticity Index (xEEI) = -0.115
x Dicrotic Dilation Index (xDDI) = -0.059
x Dicrotic Elasticity Index (xDEI) = -0.26

xAI = 0.16
xRI = -0.02
xSI = -1.04
ftPTT = 65.94 ms
ftPWV = 8.63 m/s

xDPTI/xSPTI = -0.01
x Systolic = 25.41 mmHg
x Diastolic = 4.19 mmHg
xSpO2 = -7.64 %

Ankle/Brachial Index (ABI) = 1
Toe/Brachial Index (TBI) = 1.11
Acceptable, Borderline

ABI < 0.4: Severe arterial disease, severe obstruction
0.4 - 0.7: Moderate arterial disease, moderate obstruction
0.7 - 0.9: Some arterial disease, mild obstruction
0.9 - 1.0: Acceptable, Borderline
1.0 - 1.4: Normal range
ABI > 1.4: Abnormal Vessel hardening from PVD

TBI < 0.66: Abnormal range
0.66 - 0.75: Acceptable, Borderline
TBI > 0.75: Normal range

Physician`s Notes:

VitalScan

Arterial Stiffness Assessment - Pulse Wave Velocity

Demo Patient
Gender: Male
Age: 51 (DOB: Jan 1 1966 12:00)
Weight: 183 lbs
BMI: 27
Height: 5 ft 9 in

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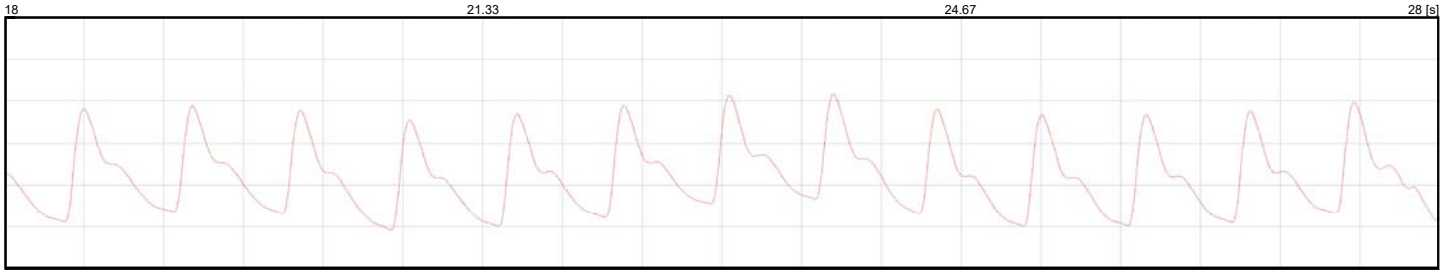
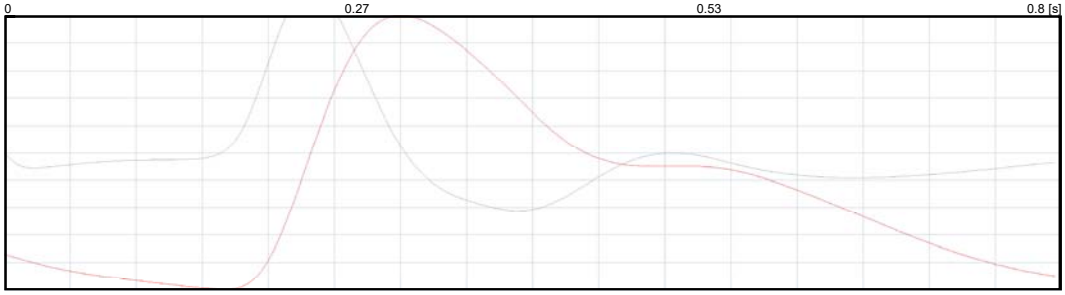
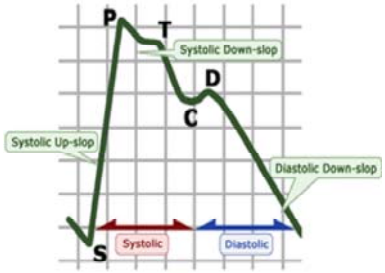






HeartRate = 82 (bpm)

Pulse Height (PH) = 47

a-b: 135 ms

a-c: 160 ms

a-d: 195 ms

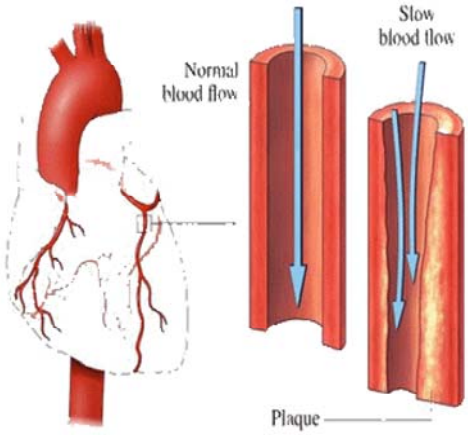
a-e: 275 ms

b/a: -0.34

c/a: -0.29

d/a: -0.24

e/a: 0



Thank you for taking the Pulse Wave Velocity (PWV) Analysis. This report gives you a quick and objective answer to how your vascular system is currently doing. The aim of these results are not to state a medical diagnosis, but to support a diagnosis by a medical professional. The result should therefore be interpreted accordingly.

PWV is an excellent analysis to evaluate vascular endothelial dysfunction. This represent the elasticity of the artery. Arteries that are atherosc lerotic, arteriosclerotic, or hardened (having reduced elasticity and increased narrowing) place an extra strain on the heart, valves, and arteries which can lead to stroke, heart attack, kidney failure and/or sudden death.

The pulse wave is a physiological phenomenon, observable and measurable in the arterial system during blood circulation. During one heart systole a certain blood volume is expelled. This propagates through the arteries due to the reciprocal transformation between kinetic energy of a segment of the expelled blood volume and the potential energy of a stretched segment of the resilient vascular wall. We can observe the changes in pressure, blood flow, velocity and profile throughout the whole pulse wave. It can be used for classification of the artery elasticity.

How is Pulse Wave Velocity measured by a finger probe?
The heart contracts and creates a direct wave which travels down the arm (red curve).
The direct wave is reflected in the lower body, and travels back towards the arm (pink curve).
The direct wave and the reflected wave combine to form the finger probe (blue curve).

Stroke Volume (SV): 64.57 ml (55-100)

Stroke Volume Index (SVI): 32.12 ml/m2

Cardiac Output (Q): 5.29 l/min (4.0-8.0)

Cardiac Index (CI): 2.63 l/min/m2 (2.6-4.2)

Systemic Vascular Resistance (SVR): 1307 (700-1800)

Mean Arterial Pressure (MAP): 87.53 mmHg (70-110)

Pulse Pressure (PP): 32.28 mmHg (25-100)

Estimated PPG Ejection Fraction (EF): 74.55 % (55-70)

Blood Volume (BV): 5.25 l (3-5)

Estimated PPG Cardiac Ejection Time (Etc): 320 ms (260-380)

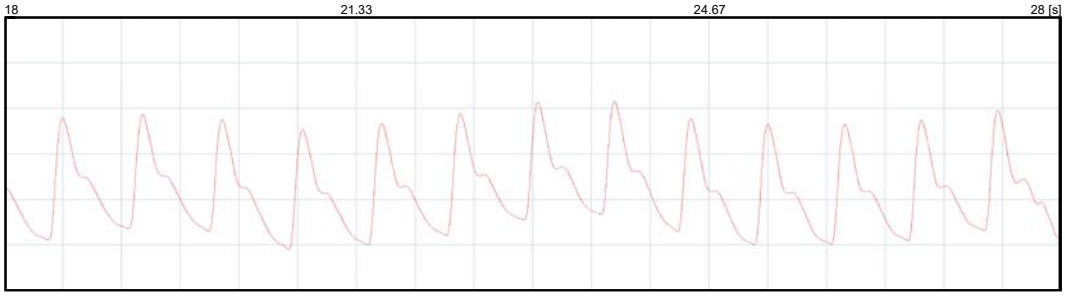
Physician`s Notes:

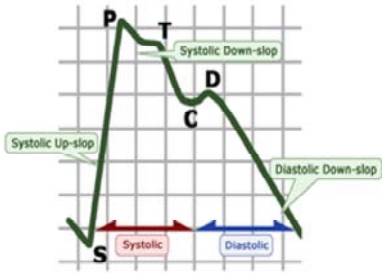
VitalScan

Arterial Stiffness Assessment - Pulse Wave Velocity

Demo Patient
Gender: Male
Age: 51 (DOB: Jan 1 1966 12:00)
Weight: 183 lbs
BMI: 27
Height: 5 ft 9 in

Physician Only Report
Exam Date: Sep 11 2017 14:45





Ejection Elasticity Index (EEI) = 0.65

EEI is an indicator for left ventricle ejection power and elasticity of large arteries.

Borderline Normal Blood Circulation

Dicrotic Dilation Index (DDI) = 0.636

DDI indicates the contractility, tension and stiffness in the small arteries.

Borderline Normal Blood Circulation

Dicrotic Elasticity Index (DEI) = 0.518

DEI represents the reflection of arterial elasticity and blood flow in the venous system.

Normal Blood Circulation

Augmentation Index (AI) = -0.28

Augmentation Index (AI) is a useful marker for cardiac risk. AI increases with age and a sedentary lifestyle.

AI is a measure of arterial stiffness and it provides general information about the arteries. AI is positively correlated with pulsewave velocity, blood pressure and hypertension.

Reflection Index (RI) = 0.45

RI is an indicator of the vascular tone of the small arteries. Both vasodilation and vasoconstriction play important roles in determining vascular tone.

Stiffness Index (SI) = 8.55 m/s

SI is a measure of large artery stiffness determined by time. SI calculation gives a value similar to aortic pulse wave velocity.

APG Pattern

An indication of the biological, (rather than chronological) age of arteries

APG Type = C

Heart Rate = 82 (bpm)

C1 - Capacitive Arterial Compliance = 12.8 ml/mmHg

C2 - Oscillatory or Reflective Arterial Compliance = 4.73 ml/mmHg

Diastolic/Systolic Pressure Time Index (DPTI/SPTI) = 0.26

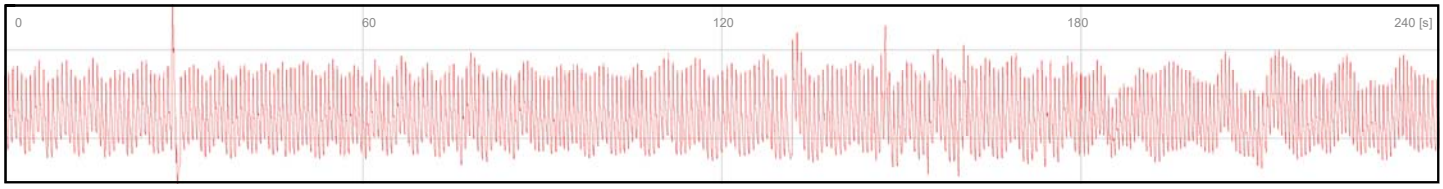
Physician`s Notes:

VitalScan

Arterial Vascular Assessment - Coronary Respiratory Response

Demo Patient
Gender: Male
Age: 51 (DOB: Jan 1 1966 12:00)
Weight: 183 lbs
BMI: 27
Height: 5 ft 9 in

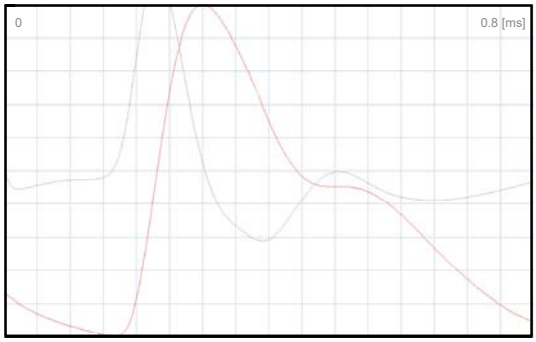
Physician Only Report
Exam Date: Sep 11 2017 14:45



CORONARY RESPIRATORY RESPONSE - BASELINE

Ejection Elasticity Index (EEI) = 0.644
Dicrotic Dilation Index (DDI) = 0.63
Dicrotic Elasticity Index (DEI) = 0.497

AI = -0.27	DPTI/SPTI = 0.28
RI = 0.45	Systolic = 128.73 mmHg
SI = 8.55	Diastolic = 71.34 mmHg
PTT = 155.41 ms	SpO2 = 96.44 %
PWV = 5.18 m/s	



CORONARY RESPIRATORY RESPONSE - REACTION

Ejection Elasticity Index (EEI) = 0.605
Dicrotic Dilation Index (DDI) = 0.635
Dicrotic Elasticity Index (DEI) = 0.462

AI = -0.22	DPTI/SPTI = 0.26
RI = 0.44	Systolic = 130.08 mmHg
SI = 8.35	Diastolic = 72.07 mmHg
PTT = 151.93 ms	SpO2 = 95.88 %
PWV = 5.28 m/s	

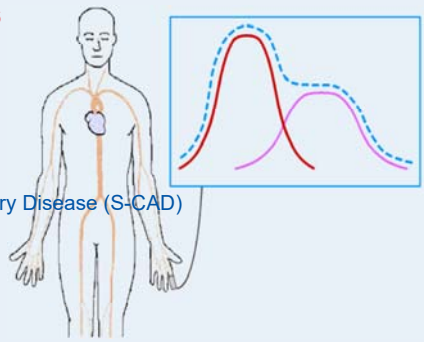
CORONARY RESPIRATORY RESPONSE - COMPARE

x Ejection Elasticity Index (xEEI) = -0.039
x Dicrotic Dilation Index (xDDI) = 0.005
x Dicrotic Elasticity Index (xDEI) = -0.036

xAI = 0.05	xDPTI/xSPTI = -0.02
xRI = -0.02	x Systolic = 1.35 mmHg
xSI = -0.2	x Diastolic = 0.74 mmHg
xPTT = -3.48 ms	xSpO2 = 0.72 %
xPWV = 0.1 m/s	

Coronary Respiratory Response (CRR) = 12.6

CRR < 10: Possible: Significant Coronary Artery Disease (S-CAD)
10 - 14: Acceptable, Borderline
CRR > 14: Normal range



Physician`s Notes: