Arterial Elasticity Guidelines

Instructions: (1) Circle the gender and age range of the individual tested.
(2) Write the C1 and C2 arterial elasticity index values printed on the CVProfile™ Report in the brackets at the top of the guideline table which matches individual's gender.
(3) In the same row as the individual's range, circle the C1 and C2 table values which match those written in the brackets in order to interpret the individual's vascular health.

MALE	C1 – Large Artery [9.8] Elasticity Index Range			C2 – Small Artery [5.9] Elasticity Index Range		
Age Range	Abnormal	Borderline	Normal	Abnormal	Borderline	Normal
15 - 19	< 10	10 – 17	> 17	< 6	6 – 9	> 9
20 - 29	< 9	9 – 16	> 16	< 6	6 – 8	> 8
30 - 39	< 8	8 – 14	> 14	< 6	6 – 8	> 8
40 - 49	< 7	7– 12	> 12	< 5	5 – 7	> 7
50 - 59	< 6	6 – 11	> 11	< 5	5 – 7	> 7
60 - 69	< 5	5 – 10	> 10	< 4	4 – 6	> 6
> 70	< 5	5 – 9	> 9	< 4	4 – 5	> 5

FEMALE	C1 – Large Artery [ ] Elasticity Index Range			C2 – Small Artery [ ] Elasticity Index Range		
Age Range	Abnormal	Borderline	Normal	Abnormal	Borderline	Normal
15 - 19	< 9	9 – 15	> 15	< 6	6 – 8	> 8
20 - 29	< 8	8 – 14	> 14	< 5	5 – 7	> 7
30 - 39	< 7	7 – 12	> 12	< 4	4 – 6	> 6
40 - 49	< 6	6 – 10	> 10	< 4	4 – 6	> 6
50 - 59	< 5	5 – 10	> 10	< 3	3 – 5	> 5
60 - 69	< 4	4 – 9	> 9	< 3	3 – 5	> 5
> 70	< 4	4 – 8	> 8	< 2	2 – 4	> 4

Comments: From birth until old age, there occurs a gradual loss of arterial elasticity – thus, there are no specific values for normal or abnormal, but rather a continuum of decreasing C1 and C2 values. The lower the C1 and C2 values, the less arterial elasticity is present, and, in general, the higher the cardiovascular risk (based on an individual's age and gender). Premature loss of arterial elasticity (also called "hardening of the arteries") predicts risk of developing cardiovascular disease. Reduced C1 and/or C2 values indicate that individuals may have a potential for underlying vascular disease (for example, atherosclerosis) that might require more specific diagnostic evaluation by a physician or other health care provider. If the C1 and C2 values present different results, then the one with the greatest risk should be considered. In general, the C2 value is the more significant of the two and often shows a loss of arterial elasticity before, and to a somewhat greater degree, than the C1 value. The CVProfile™ Report should be interpreted by a licensed physician or other health care provider in light of physical examination, lab tests and/or other clinical findings.

Note: These guideline tables were compiled from some 30,000 CVProfile™ Tests as well as from clinical research presented in more than 200 published abstracts and articles using the pulse contour or blood pressure waveform analysis technology. Such articles include the following:

E. Grey *et al.* **"Reduced Small Artery But Not Large Artery Elasticity is an Independent Risk Marker for Cardiovascular Events"** American Journal of Hypertension 16:265-269, 2003.

B. Syeda *et al.* **"Arterial Compliance: A Diagnostic Marker for Atherosclerotic Plaque Burden?"** American Journal of Hypertension 16:356-362, 2003.

J.N. Cohn *et al.* **"Screening for Early Detection of Cardiovascular Disease in Asymptomatic Individuals"** American Heart Journal 146:679-685, 2003.

L.M. Prisant *et al.* **"Arterial Elasticity Among Normotensive Subjects and Treated and Untreated Hypertensive Subjects"** Blood Pressure Monitoring 6:233-237, 2001.

D.L. Cohen *et al.* **"Gender Differences in Pulse Contour Analysis"** American Journal of Hypertension 16:137-138, 2003.

CVProfile™ Report

CVProfilor®
Profile for life.

ID#: 12345

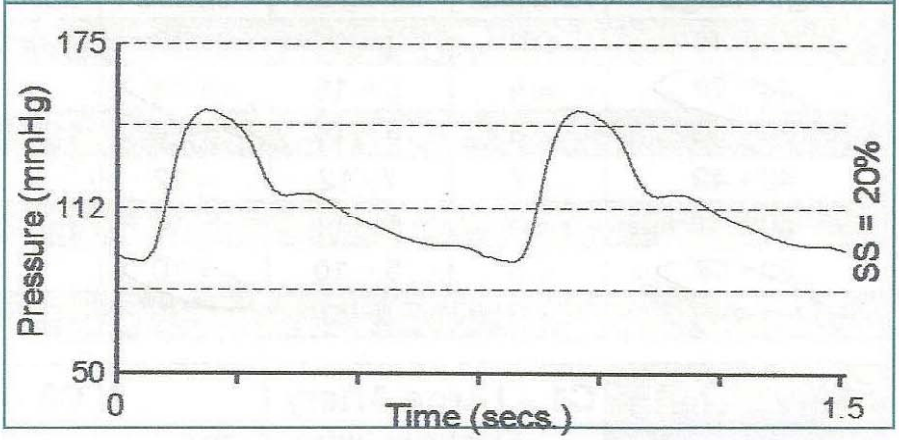
Name: PARIS, DAVID D

SSN:

Date: Mar 28, 2016
Time: 07:50
Age: 65 years
Gender: Male
Height: 6 ft 0 in
Weight: 161 lbs
BSArea: 1.94 meters²
Body Mass Index: 21.9

Profile by: DR DANIEL JOHNSON
DESERT LONGEVITY INSTITUTE
760-773-5994

Average Blood Pressure Waveform



PARAMETER	VALUE
Systolic Blood Pressure (mmHg)	150
Diastolic Blood Pressure (mmHg)	93
Mean Arterial Blood Pressure (mmHg)	112
Pulse Pressure (mmHg)	57
Pulse Rate (beats/min)	78
C1 – Large Artery Elasticity Index (ml/mmHg x 10) (Capacitive Arterial Compliance)	9.8
C2 – Small Artery Elasticity Index (ml/mmHg x 100) (Oscillatory or Reflective Arterial Compliance)	2.0

MEDICAL HISTORY

CV Disease:	Y
CV Medications:	Y
Diabetes:	N
Relatives CV Disease:	Y
Tobacco:	N
Race:	Caucasian

CLINICAL COMMENTS:

Arterial Elasticity Guidelines

Instructions: (1) Circle the gender and age range of the individual tested.
(2) Write the C1 and C2 arterial elasticity index values printed on the CVProfile™ Report in the brackets at the top of the guideline table which matches individual's gender.
(3) In the same row as the individual's range, circle the C1 and C2 table values which match those written in the brackets in order to interpret the individual's vascular health.

MALE	C1 – Large Artery [22.0] Elasticity Index Range			C2 – Small Artery [4.0] Elasticity Index Range		
Age Range	Abnormal	Borderline	Normal	Abnormal	Borderline	Normal
15 - 19	< 10	10 – 17	> 17	< 6	6 – 9	> 9
20 - 29	< 9	9 – 16	> 16	< 6	6 – 8	> 8
30 - 39	< 8	8 – 14	> 14	< 6	6 – 8	> 8
40 - 49	< 7	7– 12	> 12	< 5	5 – 7	> 7
50 - 59	< 6	6 – 11	> 11	< 5	5 – 7	> 7
60 - 69	< 5	5 – 10	> 10	< 4	4 – 6	> 6
> 70	< 5	5 – 9	> 9	< 4	4 – 5	> 5

FEMALE	C1 – Large Artery [ ] Elasticity Index Range			C2 – Small Artery [ ] Elasticity Index Range		
Age Range	Abnormal	Borderline	Normal	Abnormal	Borderline	Normal
15 - 19	< 9	9 – 15	> 15	< 6	6 – 8	> 8
20 - 29	< 8	8 – 14	> 14	< 5	5 – 7	> 7
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60 - 69	< 4	4 – 9	> 9	< 3	3 – 5	> 5
> 70	< 4	4 – 8	> 8	< 2	2 – 4	> 4

Comments: From birth until old age, there occurs a gradual loss of arterial elasticity – thus, there are no specific values for normal or abnormal, but rather a continuum of decreasing C1 and C2 values. The lower the C1 and C2 values, the less arterial elasticity is present, and, in general, the higher the cardiovascular risk (based on an individual's age and gender). Premature loss of arterial elasticity (also called "hardening of the arteries") predicts risk of developing cardiovascular disease. Reduced C1 and/or C2 values indicate that individuals may have a potential for underlying vascular disease (for example, atherosclerosis) that might require more specific diagnostic evaluation by a physician or other health care provider. If the C1 and C2 values present different results, then the one with the greatest risk should be considered. In general, the C2 value is the more significant of the two and often shows a loss of arterial elasticity before, and to a somewhat greater degree, than the C1 value. The CVProfile™ Report should be interpreted by a licensed physician or other health care provider in light of physical examination, lab tests and/or other clinical findings.

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D.L. Cohen *et al.* **"Gender Differences in Pulse Contour Analysis"** American Journal of Hypertension 16:137-138, 2003.

CVProfile™ Report

CVProfilor®
Profile for life.

ID#: 12345

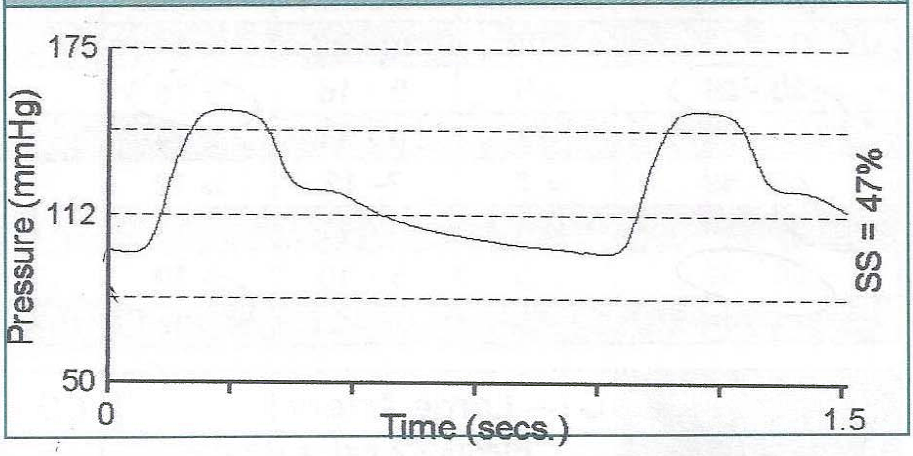
Name: PARIS, DAVID D

SSN:

Date:	Mar 22, 2017
Time:	07:38
Age:	66 years
Gender:	Male
Height:	6 ft 0 in
Weight:	175 lbs
BSArea:	2.01 meters²
Body Mass Index:	23.8

Profile by: DR DANIEL JOHNSON
DESERT LONGEVITY INSTITUTE
760-773-5994

Average Blood Pressure Waveform



PARAMETER	VALUE
Systolic Blood Pressure (mmHg)	152
Diastolic Blood Pressure (mmHg)	99
Mean Arterial Blood Pressure (mmHg)	120
Pulse Pressure (mmHg)	53
Pulse Rate (beats/min)	62
C1 – Large Artery Elasticity Index (ml/mmHg x 10) (Capacitive Arterial Compliance)	22.0
C2 – Small Artery Elasticity Index (ml/mmHg x 100) (Oscillatory or Reflective Arterial Compliance)	4.0

MEDICAL HISTORY

CV Disease:	Y
CV Medications:	Y
Diabetes:	N
Relatives CV Disease:	Y
Tobacco:	N
Race:	Caucasian

CLINICAL COMMENTS: