

Johnson, Bryan R

DOB: [REDACTED]

## Patient Report



Patient ID: [REDACTED]

Age: 47

Account Number: [REDACTED]

Specimen ID: [REDACTED]

Sex: Male

Ordering Physician: [REDACTED]

Date Collected: 04/01/2025

Date Received: 04/01/2025

Date Reported: 04/09/2025

Fasting: Yes

Ordered Items: Lipid Panel With LDL/HDL Ratio; Testosterone,Free and Total; Total Glutathione; IGF-1; Lipoprotein (a); Cystatin C; Oxidized LDL; Lp-PLA2 Activity; S-100B Protein, Serum; Tumor Necrosis Factor-Alpha; NT-proBNP; GGT; Apolipoprotein A-1; Sex Horm Binding Glob, Serum; Venipuncture

Date Collected: 04/01/2025

## Lipid Panel With LDL/HDL Ratio

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Cholesterol, Total <sup>01</sup>	109		mg/dL	100-199
Triglycerides <sup>01</sup>	44		mg/dL	0-149
HDL Cholesterol <sup>01</sup>	53		mg/dL	>39
VLDL Cholesterol Cal	11		mg/dL	5-40
LDL Chol Calc (NIH)	45		mg/dL	0-99
LDL/HDL Ratio	0.8		ratio	0.0-3.6

Please Note:<sup>02</sup>

## LDL/HDL Ratio

Men   Women

1/2 Avg.Risk	1.8	1.5
Avg.Risk	3.6	3.2
2X Avg.Risk	6.2	5.0
3X Avg.Risk	8.8	6.1

## Testosterone,Free and Total

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Testosterone <sup>03</sup>	764		ng/dL	264-916

Adult male reference interval is based on a population of healthy nonobese males (BMI <30) between 19 and 39 years old. Travison, et.al. JCEM 2017;102;1161-1173. PMID: 28324103.

Free Testosterone(Direct)<sup>02</sup>

10.9

pg/mL

6.8-21.5

## Total Glutathione

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
▼ Total Glutathione <sup>02</sup>	105      Low		ug/mL	176-323

Results of this test are for Investigational Purposes Only. The performance characteristics of this assay have been determined by LabCorp. The result should not be used as a diagnostic procedure without confirmation of the diagnosis by another medically established diagnostic product or procedure.

## IGF-1

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Insulin-Like Growth Factor I <sup>03</sup>	107		ng/mL	81-263

## Lipoprotein (a)

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Lipoprotein (a) <sup>02</sup>	19.0		nmol/L	<75.0

Note: Values greater than or equal to 75.0 nmol/L may

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**Lipoprotein (a) (Cont.)**

indicate an independent risk factor for CHD, but must be evaluated with caution when applied to non-Caucasian populations due to the influence of genetic factors on Lp(a) across ethnicities.

**Cystatin C**

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Cystatin C <sup>02</sup>	0.82		mg/L	0.60-1.00

**Oxidized LDL**

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Oxidized LDL <sup>02</sup>	92		ng/mL	10-170

**Lp-PLA2 Activity**

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Lp-PLA2 Activity <sup>02</sup>	105		nmol/min/mL	0-224

Reduced Risk <225  
Increased Risk >224

**S-100B Protein, Serum**

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
S-100B Protein, Serum <sup>A,02</sup>	60.8		ng/L	20.6-103.7

Testing performed by Fujirebio Diagnostics CanAg Enzyme Linked Immunoassay (ELISA) method. Values obtained with different assay methods or kits cannot be used interchangeably. S100B can be found in abnormal levels in many pathological conditions, including liver, brain and renal injury, inflammatory and infectious processes. The use of S100B is limited by its lack of specificity as extracerebral sources produce increases in levels of S100B in the setting of hemorrhagic shock, circulatory arrest or during cardiopulmonary bypass. Anti-reagent antibodies (human anti-mouse antibody (HAMA) or heterophilic antibodies) in the sample may occasionally interfere with the assay, even though specific blocking agents are included in the buffer. This test may exhibit interference when sample is collected from a person who is consuming a supplement with a high dose of biotin (also termed as vitamin B7 or B8, vitamin H, or coenzyme R). It is recommended to ask all patients who may be indicated for this test about biotin supplementation.

\*\*Please note reference interval change\*\*

**Tumor Necrosis Factor-Alpha**

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Tumor Necrosis Factor-Alpha <sup>A,02</sup>	0.7		pg/mL	0.0-2.2

## NT-proBNP

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
NT-proBNP <sup>01</sup>	<36		pg/mL	0-121

Please Note:<sup>02</sup>

The following cut-points have been suggested for the use of proBNP for the diagnostic evaluation of heart failure (HF) in patients with acute dyspnea:

Modality	Age (years)	Optimal Cut Point
Diagnosis (rule in HF)	<58	458 pg/mL
	50 - 75	988 pg/mL
	>75	1888 pg/mL
Exclusion (rule out HF)	Age independent	388 pg/mL

## GGT

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
GGT <sup>03</sup>	8		IU/L	0-65

## Apolipoprotein A-1

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Apolipoprotein A-1 <sup>01</sup>	141		mg/dL	101-178

## Sex Horm Binding Glob, Serum

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Sex Horm Binding Glob, Serum <sup>01</sup>	68.9	High	nmol/L	16.5-55.9

## Disclaimer

The Previous Result is listed for the most recent test performed by Labcorp in the past 5 years where there is sufficient patient demographic data to match the result to the patient. Results from certain tests are excluded from the Previous Result display.

## Icon Legend

▲ Out of Reference Range   ■ Critical or Alert

## Comments

A: This test was developed and its performance characteristics determined by Labcorp. It has not been cleared or approved by the Food and Drug Administration.

## Performing Labs

01: SO - Labcorp San Diego, 13112 Evening Creek Dr So Ste 200, San Diego, CA 92128-4108 Dir: Earle Collum, Jr, MD

02: BN - Labcorp Burlington, 1447 York Court, Burlington, NC 27215-3361 Dir: Sanjai Nagendra, MD

03: CETWE - Labcorp Phoenix, 5005 S 40th Street Ste 1200, Phoenix, AZ 85040-2969 Dir: Earle Collum, MD

For inquiries, the physician may contact Branch: 859-277-5341 Lab: 858-668-3700

**Johnson, Bryan R**

Patient ID:

Specimen ID

DOB:

Age: 47

Sex: Male

**Patient Report**

Account Number:

Ordering Physician:



Patient Details

**Johnson, Bryan R**

Physician Details

Specimen Details

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

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Johnson, Bryan

Patient ID: [REDACTED]  
Specimen ID: [REDACTED]

DOB: [REDACTED]

Age: 47  
Sex: Male

## Patient Report

Account Number: [REDACTED]  
Ordering Physician: [REDACTED]

Date Collected: 04/01/2025

Date Received: 04/02/2025

Date Reported: 04/07/2025

Fasting: Yes

Ordered Items: **NMR LipoProfile+Lipids+IR; CBC With Differential/Platelet; Comp. Metabolic Panel (14); Urinalysis, Complete; OmegaCheck(TM) (EPA+DPA+DHA); Iron and TIBC; Testosterone Free, Profile I; Albumin/Creatinine Ratio, Urine; ABO Grouping and Rho(D) Typing; PSA Total (Reflex To Free); Hemoglobin A1c; Thyroxine (T4) Free, Direct; Folate (Folic Acid), Serum; DHEA-Sulfate; Cortisol; TSH; Luteinizing Hormone(LH); FSH; Prolactin; Estradiol; Rheumatoid Factor (RF); Lead, Blood (Adult); IGF-1; Vitamin D, 25-Hydroxy; Lipoprotein (a); C-Reactive Protein, Cardiac; Leptin, Serum; Homocyst(e)ine; Uric Acid; GGT; Amylase; Lipase; Vitamin B12; Magnesium; Zinc, Plasma or Serum; Insulin; Ferritin; Triiodothyronine (T3), Free; ANA by IFA Rfx Titer/Pattern; Apolipoprotein B**

Date Collected: 04/01/2025

**NMR LipoProfile+Lipids+IR**

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
LDL Particle Number <sup>01</sup>				
LDL-P <sup>A,01</sup>	<300		nmol/L	<1000
		Low	< 1000	
		Moderate	1000 - 1299	
		Borderline-High	1300 - 1599	
		High	1600 - 2000	
		Very High	> 2000	
Lipids <sup>01</sup>				
LDL-C (NIH Calc) <sup>01</sup>	24		mg/dL	0-99
		Optimal	< 100	
		Above optimal	100 - 129	
		Borderline	130 - 159	
		High	160 - 189	
		Very high	> 189	
HDL-C <sup>A,01</sup>	57		mg/dL	>39
Triglycerides <sup>A,02</sup>	40		mg/dL	0-149
▼ Cholesterol, Total <sup>A,01</sup>	92	Low	mg/dL	100-199
LDL and HDL Particles <sup>01</sup>				
▼ HDL-P (Total) <sup>A,01</sup>	30.2	Low	umol/L	>=30.5
Small LDL-P <sup>A,01</sup>	<90		nmol/L	<=527
LDL Size <sup>A,01</sup>				

Test not performed. LDL levels not sufficient for LDL size determination.

## \*\* INTERPRETATIVE INFORMATION\*\*

## PARTICLE CONCENTRATION AND SIZE

&lt;--Lower CVD Risk Higher CVD Risk--&gt;

LDL AND HDL PARTICLES	Percentile in Reference Population
HDL-P (total)	High 75th 50th 25th Low >34.9 34.9 30.5 26.7 <26.7
Small LDL-P	Low 25th 50th 75th High <117 117 527 839 >839
LDL Size	<-Large (Pattern A)-> <-Small (Pattern B)-> 23.0 28.6 28.5 19.0

Comment:<sup>01</sup>

Small LDL-P and LDL Size are associated with CVD risk, but not after LDL-P is taken into account.

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Johnson, Bryan

DOB-1

## Patient Report

Patient ID:

Age: 47

Specimen ID:

Sex: Male

Account Number:

**Ordering Physician**



Date Collected: 04/01/2025

### NMR LipoProfile+Lipids+IR (Cont.)

Insulin Resistance/Diab. Risk <sup>11</sup>			
Large VLDL-P <sup>A,01</sup>	<0.8	nmol/L	<=2.7
Small LDL-P <sup>A,01</sup>	<90	nmol/L	<=527
Large HDL-P <sup>A,02</sup>	9.4	umol/L	>=4.8
VLDL Size <sup>A,02</sup>	40.7	nm	<=46.6
LDL Size <sup>A,02</sup>			

Test not performed. LDL levels not sufficient for LDL size determination.

HDL Size <sup>A,01</sup>	10.1	nm	>=9.2
Insulin Resistance Score <sup>01</sup>			
LP-IR Score <sup>A,03</sup>	<25		<=45

INSULIN RESISTANCE / DIABETES RISK MARKERS					
<--Insulin Sensitive			Insulin Resistant-->		
	Percentile in Reference Population				
Large VLDL-P	Low	25th	50th	75th	High
	<8.9	8.9	2.7	6.9	>6.9
Small LDL-P	Low	25th	50th	75th	High
	<117	117	527	839	>839
Large HDL-P	High	75th	50th	25th	Low
	>7.3	7.3	4.8	3.1	<3.1
VLDL Size	Small	25th	50th	75th	Large
	<42.4	42.4	46.6	52.5	>52.5
LDL Size	Large	75th	50th	25th	Small
	>21.2	21.2	28.8	28.4	<28.4
HDL Size	Large	75th	50th	25th	Small
	>9.6	9.6	9.2	8.9	<8.9
Insulin Resistance Score					
LP-IR SCORE	Low	25th	50th	75th	High
	<27	27	45	63	>63

### Comment.<sup>61</sup>

LP-IR Score is inaccurate if patient is non-fasting.  
The LP-IR score is a laboratory developed index that has been associated with insulin resistance and diabetes risk and should be used as one component of a physician's clinical assessment.

### **CBC With Differential/Platelet**

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
WBC <sup>02</sup>	3.6		x10E3/uL	3.4-10.8
RBC <sup>02</sup>	4.51		x10E6/uL	4.14-5.80
Hemoglobin <sup>02</sup>	15.4		g/dL	13.0-17.7
Hematocrit <sup>02</sup>	45.4		%	37.5-51.0
▲ MCV <sup>02</sup>	<b>101</b>	<b>High</b>	fL	79-97
▲ MCH <sup>02</sup>	<b>34.1</b>	<b>High</b>	pg	26.6-33.0
MCHC <sup>02</sup>	33.9		g/dL	31.5-35.7
▼ RDW <sup>02</sup>	<b>11.1</b>	<b>Low</b>	%	11.6-15.4
Platelets <sup>02</sup>	165		x10E3/uL	150-450
Neutrophils <sup>02</sup>	57		%	Not Estab.

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Johnson, Bryan

Patient ID: [REDACTED]

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DOB: [REDACTED]

Age: 47

Sex: Male

## Patient Report

Account Number: [REDACTED]

Ordering Physician: [REDACTED]



Date Collected: 04/01/2025

## CBC With Differential/Platelet (Cont.)

Lymphs <sup>02</sup>	32	%	Not Estab.
Monocytes <sup>02</sup>	7	%	Not Estab.
Eos <sup>02</sup>	3	%	Not Estab.
Basos <sup>02</sup>	1	%	Not Estab.
Neutrophils (Absolute) <sup>02</sup>	2.0	x10E3/uL	1.4-7.0
Lymphs (Absolute) <sup>02</sup>	1.2	x10E3/uL	0.7-3.1
Monocytes(Absolute) <sup>02</sup>	0.3	x10E3/uL	0.1-0.9
Eos (Absolute) <sup>02</sup>	0.1	x10E3/uL	0.0-0.4
Baso (Absolute) <sup>02</sup>	0.0	x10E3/uL	0.0-0.2
Immature Granulocytes <sup>02</sup>	0	%	Not Estab.
Immature Grans (Abs) <sup>02</sup>	0.0	x10E3/uL	0.0-0.1

## Comp. Metabolic Panel (14)

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
▲ Glucose <sup>02</sup>	103	High	mg/dL	70-99
BUN <sup>02</sup>	20		mg/dL	6-24
Creatinine <sup>02</sup>	1.13		mg/dL	0.76-1.27
eGFR	81		mL/min/1.73	>59
BUN/Creatinine Ratio	18			9-20
Sodium <sup>02</sup>	142		mmol/L	134-144
Potassium <sup>02</sup>	4.5		mmol/L	3.5-5.2
Chloride <sup>02</sup>	102		mmol/L	96-106
Carbon Dioxide, Total <sup>02</sup>	23		mmol/L	20-29
Calcium <sup>02</sup>	9.4		mg/dL	8.7-10.2
Protein, Total <sup>02</sup>	6.5		g/dL	6.0-8.5
Albumin <sup>02</sup>	4.8		g/dL	4.1-5.1
Globulin, Total	1.7		g/dL	1.5-4.5
Bilirubin, Total <sup>02</sup>	0.4		mg/dL	0.0-1.2
Alkaline Phosphatase <sup>02</sup>	73		IU/L	44-121
AST (SGOT) <sup>02</sup>	29		IU/L	0-40
ALT (SGPT) <sup>02</sup>	19		IU/L	0-44

## Urinalysis, Complete

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Urinalysis Gross Exam <sup>02</sup>				
▼ Specific Gravity <sup>02</sup>	<1.005	Low		1.005-1.030
pH <sup>02</sup>	7.5			5.0-7.5
Urine-Color <sup>02</sup>	Yellow			Yellow
Appearance <sup>02</sup>	Clear			Clear
WBC Esterase <sup>02</sup>	Negative			Negative
Protein <sup>02</sup>	Negative			Negative/Trace
► Glucose <sup>02</sup>	1+	Abnormal		Negative
Ketones <sup>02</sup>	Negative			Negative
Occult Blood <sup>02</sup>	Negative			Negative

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Johnson, Bryan

Patient ID: [REDACTED]

Specimen ID: [REDACTED]

DOB: [REDACTED]

Age: 47

Sex: Male

## Patient Report

Account Number: [REDACTED]

Ordering Physician: [REDACTED]



Date Collected: 04/01/2025

## Urinalysis, Complete (Cont.)

Bilirubin <sup>02</sup>	Negative		Negative
Urobilinogen, Semi-Qn <sup>02</sup>	0.2	mg/dL	0.2-1.0
Nitrite, Urine <sup>02</sup>	Negative		Negative
Microscopic Examination <sup>02</sup>	Microscopic follows if indicated.		
Microscopic Examination <sup>02</sup>	See below:		
WBC <sup>02</sup>	None seen	/hpf	0-5
RBC <sup>02</sup>	None seen	/hpf	0-2
Epithelial Cells (non renal) <sup>02</sup>	None seen	/hpf	0-10
Casts <sup>02</sup>	None seen	/lpf	None seen
Bacteria <sup>02</sup>	None seen		None seen/Few

## OmegaCheck(TM) (EPA+DPA+DHA)

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
OmegaCheck(TM) <sup>03</sup>			% by wt	
	We have received your specimen and it has been forwarded to another laboratory for testing. Results will be forwarded to you as soon as possible.			
	**Effective April 25, 2025, 823430 OmegaCheck(TM) (EPA+DPA+DHA) will be**			
	made non-orderable. No replacement number is available. For further information, please contact your local Labcorp Representative.			
Arachidonic Acid/EPA Ratio <sup>03</sup>	Will Follow			
Omega-6/Omega-3 Ratio <sup>03</sup>	Will Follow			
Omega-3 total <sup>03</sup>	Will Follow			
EPA <sup>03</sup>	Will Follow			
DPA <sup>03</sup>	Will Follow			
DHA <sup>03</sup>	Will Follow			
Omega-6 total <sup>03</sup>	Will Follow			
Arachidonic Acid <sup>03</sup>	Will Follow			
Linoleic Acid <sup>03</sup>	Will Follow			
PDF <sup>03</sup>	Will Follow			

## Iron and TIBC

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Iron Bind.Cap.(TIBC)	397		ug/dL	250-450
UIBC <sup>02</sup>	322		ug/dL	111-343
Iron <sup>02</sup>	75		ug/dL	38-169
Iron Saturation	19		%	15-55

## Testosterone Free, Profile I

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Testosterone <sup>02</sup>	731		ng/dL	264-916
	Adult male reference interval is based on a population of healthy nonobese males (BMI <30) between 19 and 39 years old. Travison, et.al. JCEM 2017;102;1161-1173. PMID: 28324183.			

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Johnson, Bryan

Patient ID: [REDACTED]

Specimen ID: [REDACTED]

DOB: [REDACTED]

Age: 47

Sex: Male

## Patient Report

Account Number: [REDACTED]

Ordering Physician: [REDACTED]



Date Collected: 04/01/2025

## Testosterone Free, Profile I (Cont.)

Sex Horm Binding Glob, ▲ Serum <sup>92</sup>	67.1	High	nmol/L	16.5-55.9
Testost., Free, Calc	95.6		pg/mL	30.3-183.2

## Albumin/Creatinine Ratio, Urine

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Creatinine, Urine <sup>92</sup>	12.7		mg/dL	Not Estab.
Albumin, Urine <sup>92</sup>	<3.0		ug/mL	Not Estab.
Alb/Creat Ratio	<24		mg/g creat	0-29
		Normal:	8 - 29	
		Moderately increased:	30 - 300	
		Severely increased:	>300	

## ABO Grouping and Rho(D) Typing

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
ABO Grouping <sup>92</sup>	A			
Rh Factor <sup>92</sup>	Positive			

Please note: Prior records for this patient's ABO / Rh type are not available for additional verification.

## PSA Total (Reflex To Free)

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Prostate Specific Ag <sup>92</sup>	0.3 Roche ECLIA methodology. According to the American Urological Association, Serum PSA should decrease and remain at undetectable levels after radical prostatectomy. The AUA defines biochemical recurrence as an initial PSA value 0.2 ng/mL or greater followed by a subsequent confirmatory PSA value 0.2 ng/mL or greater. Values obtained with different assay methods or kits cannot be used interchangeably. Results cannot be interpreted as absolute evidence of the presence or absence of malignant disease.		ng/mL	0.0-4.0

Reflex Criteria<sup>92</sup>

The percent free PSA is performed on a reflex basis only when the total PSA is between 4.0 and 10.0 ng/mL.

## Hemoglobin A1c

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Hemoglobin A1c <sup>92</sup>	5.0		%	4.8-5.6

Please Note:<sup>92</sup>

Prediabetes: 5.7 - 6.4  
Diabetes: >6.4  
Glycemic control for adults with diabetes: <7.0

## Thyroxine (T4) Free, Direct

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
T4,Free(Direct) <sup>92</sup>	1.70		ng/dL	0.82-1.77

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Date Created and Stored: 04/09/25 1740 ET Preliminary Report Page 5 of 10

Johnson, Bryan

Patient ID: [REDACTED]

Specimen ID: [REDACTED]

DOB: [REDACTED]

Age: 47

Sex: Male

**Patient Report**

Account Number: [REDACTED]

Ordering Physician: [REDACTED]



Date Collected: 04/01/2025

**Folate (Folic Acid), Serum**

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Folate (Folic Acid), Serum <sup>02</sup>	19.6		ng/mL	>3.0
Note: <sup>02</sup>	A serum folate concentration of less than 3.1 ng/mL is considered to represent clinical deficiency.			

**DHEA-Sulfate**

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
DHEA-Sulfate <sup>02</sup>	209.0		ug/dL	71.6-375.4

**Cortisol**

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Cortisol <sup>02</sup>	11.9		ug/dL	6.2-19.4

Please Note: The reference interval and flagging for this test is for an AM collection. If this is a PM collection please use: Cortisol PM: 2.3-11.9

**TSH**

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
TSH <sup>02</sup>	0.760		uIU/mL	0.450-4.500

**Luteinizing Hormone(LH)**

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
▲ LH <sup>02</sup>	9.1	High	mIU/mL	1.7-8.6

**FSH**

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
FSH <sup>02</sup>	7.6		mIU/mL	1.5-12.4

**Prolactin**

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Prolactin <sup>02</sup>	4.6		ng/mL	3.9-22.7

**Estradiol**

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Estradiol <sup>02</sup>	24.5 Roche ECLIA methodology		pg/mL	7.6-42.6

**Rheumatoid Factor (RF)**

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Rheumatoid Factor (RF) <sup>02</sup>	<10.0		IU/mL	<14.0

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**Lead, Blood (Adult)**

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Lead, Blood (Adult) <sup>A,04</sup>	1.1		ug/dL	0.0-3.4

Blood Lead Collection Method: Venous  
Testing performed by Inductively coupled plasma/Mass Spectrometry.  
Analysis by inductively coupled plasma/mass spectrometry (ICP/MS)

Environmental Exposure:  
WHO Recommendation <5.0  
Occupational Exposure:  
OSHA Lead Std 40.0  
BEI 30.0  
Detection Limit = 1.0

**IGF-1**

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Insulin-Like Growth Factor I <sup>05</sup>	104		ng/mL	81-263

**Vitamin D, 25-Hydroxy**

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
▲ Vitamin D, 25-Hydroxy <sup>02</sup>	134.0 <b>High</b>		ng/mL	30.0-100.0

Vitamin D deficiency has been defined by the Institute of Medicine and an Endocrine Society practice guideline as a level of serum 25-OH vitamin D less than 20 ng/mL (1,2). The Endocrine Society went on to further define vitamin D insufficiency as a level between 21 and 29 ng/mL (2).

1. IOM (Institute of Medicine). 2010. Dietary reference intakes for calcium and D. Washington DC: The National Academies Press.
2. Holick MF, Binkley NC, Bischoff-Ferrari HA, et al. Evaluation, treatment, and prevention of vitamin D deficiency: an Endocrine Society clinical practice guideline. JCEM. 2011 Jul; 96(7):1911-30.

**Lipoprotein (a)**

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Lipoprotein (a) <sup>01</sup>	18.6		nmol/L	<75.0

Note: Values greater than or equal to 75.0 nmol/L may indicate an independent risk factor for CHD, but must be evaluated with caution when applied to non-Caucasian populations due to the influence of genetic factors on Lp(a) across ethnicities.

**C-Reactive Protein, Cardiac**

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
C-Reactive Protein, Cardiac <sup>02</sup>	<0.15		mg/L	0.00-3.00

Relative Risk for Future Cardiovascular Event

Low	<1.00
Average	1.00 - 3.00
High	>3.00

Johnson, Bryan

DOB [REDACTED]

## Patient Report



Patient ID [REDACTED]

Age: 47

Account Number: [REDACTED]

Specimen ID [REDACTED]

Sex: Male

Ordering Physician: [REDACTED]

Date Collected: 04/01/2025

## Leptin, Serum

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Leptin, Serum <sup>01</sup>	<0.5		ng/mL	
Male Ranges by Body Mass Index (BMI)				
	BMI	Range	BMI	Range
	11	0.1 - 0.4	25	1.1 - 9.6
	12	0.1 - 0.6	26	1.3 - 12.8
	13	0.1 - 0.7	27	1.6 - 14.9
	14	0.1 - 0.9	28	2.0 - 18.6
	15	0.1 - 1.1	29	2.5 - 23.2
	16	0.2 - 1.3	30	3.2 - 28.9
	17	0.2 - 1.7	31	3.9 - 36.8
	18	0.2 - 2.1	32	4.9 - 44.9
	19	0.3 - 2.6	33	6.1 - 55.8
	20	0.4 - 3.2	34	7.6 - 69.6
	21	0.4 - 4.0	35	9.5 - 86.7
	22	0.5 - 5.0	36	11.8 - 108.0
	23	0.8 - 6.2	37	14.8 - 135.0
	24	0.9 - 7.7		
Blum WF, Juul A, "Reference Ranges of Leptin Levels According to Body Mass Index, Gender and Development Stage" in Leptin: The Voice of Adipose Tissue, Blum WF, Kiess WF, and Rascher W, eds, 1997, 319-326.				

## Homocyst(e)ine

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Homocyst(e)ine <sup>02</sup>	10.4		umol/L	0.0-14.5

## Uric Acid

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
▼ Uric Acid <sup>02</sup>	3.1	Low	mg/dL	3.8-8.4

Therapeutic target for gout patients: <6.0

## GGT

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
GGT <sup>02</sup>	7		IU/L	0-65

## Amylase

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Amylase <sup>02</sup>	42		U/L	31-110

## Lipase

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Lipase <sup>02</sup>	37		U/L	13-78

## Vitamin B12

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
▲ Vitamin B12 <sup>02</sup>	1815	High	pg/mL	232-1245

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Date Created and Stored: 04/09/25 1740 ET Preliminary Report Page 8 of 10

Johnson, Bryan

Patient ID: [REDACTED]

Specimen ID: [REDACTED]

DOB: [REDACTED]

Age: 47

Sex: Male

## Patient Report

Account Number: [REDACTED]

Ordering Physician: [REDACTED]



Date Collected: 04/01/2025

## Magnesium

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
▲ Magnesium <sup>02</sup>	2.4 High		mg/dL	1.6-2.3

## Zinc, Plasma or Serum

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Zinc, Plasma or Serum <sup>04</sup>	74		ug/dL	44-115

Detection Limit = 5

## Insulin

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Insulin <sup>02</sup>	2.8		uIU/mL	2.6-24.9

## Ferritin

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
▼ Ferritin <sup>02</sup>	20 Low		ng/mL	30-400

## Triiodothyronine (T3), Free

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Triiodothyronine (T3), Free <sup>02</sup>	2.9		pg/mL	2.0-4.4

## ANA by IFA Rfx Titer/Pattern

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
ANA by IFA Rfx Titer/Pattern <sup>06</sup>	Negative			Negative <1:80 Borderline 1:80 Positive >1:80

ICAP nomenclature: AC-8

For more information about Hep-2 cell patterns use  
[ANApatterns.org](http://ANApatterns.org), the official website for the International  
 Consensus on Antinuclear Antibody (ANA) Patterns (ICAP).

## Apolipoprotein B

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Apolipoprotein B <sup>02</sup>	52		mg/dL	<90

Desirable < 90  
 Borderline High 98 - 99  
 High 100 - 130  
 Very High >130

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ASCVD RISK CATEGORY	THERAPEUTIC TARGET APO B (mg/dL)
Very High Risk	<80 (if extreme risk <70)
High Risk	<90
Moderate Risk	<90

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Date Created and Stored 04/09/25 1740 ET Preliminary Report Page 9 of 10

**Johnson, Bryan**

Patient ID: [REDACTED]

Specimen ID: [REDACTED]

DOB: [REDACTED]

Age: 47

Sex: Male

**Patient Report**

Account Number: [REDACTED]

Ordering Physician: [REDACTED]

**Disclaimer**

The Previous Result is listed for the most recent test performed by Labcorp in the past 5 years where there is sufficient patient demographic data to match the result to the patient. Results from certain tests are excluded from the Previous Result display.

**Icon Legend**

▲ Out of Reference Range ■ Critical or Alert

**Comments**

A: This test was developed and its performance characteristics determined by Labcorp. It has not been cleared or approved by the Food and Drug Administration.

B: This test was developed and its performance characteristics determined by Labcorp. It has not been cleared or approved by the Food and Drug Administration.

**Performing Labs**

01: BN - Labcorp Burlington, 1447 York Court, Burlington, NC 27215-3361 Dir: Sanjai Nagendra, MD

02: SO - Labcorp San Diego, 13112 Evening Creek Dr So Ste 200, San Diego, CA 92128-4108 Dir: Earle Collum, Jr, MD

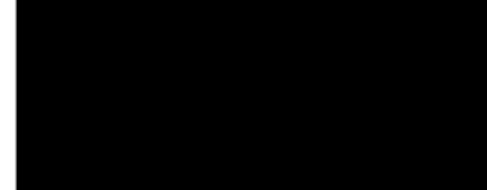
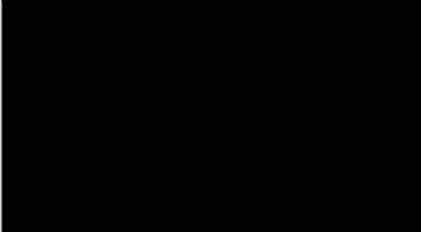
03: CLHRT - Cleveland Heartlab Inc, 6701 Carnegie Avenue Ste 500, Cleveland, OH 44103-4623 Dir: Bill Richendollar, MD

04: SPOWA - Labcorp Spokane, 110 W Cliff Dr. Ste 100-200, Spokane, WA 99204-3614 Dir: Shefali Goyal, MD

05: CETWE - Labcorp Phoenix, 5005 S 40th Street Ste 1200, Phoenix, AZ 85040-2969 Dir: Earle Collum, MD

06: PDLCA - Labcorp Phoenix, 5005 S 40th Street Ste 1200, Phoenix, AZ 85040-2969 Dir: Earle Collum, MD

For inquiries, the physician may contact Branch: 800-597-8026 Lab: 858-668-3700

**Patient Details****Johnson, Bryan****Physician Details****Specimen Details**

A small, light blue circular icon with a white arrow pointing upwards and to the right, indicating a sharing or linking function.

**You are screen sharing**Date Created and Stored: 04/09/25 1740 ET **Preliminary Report** Page 10 of 10

# Longevity Biomarkers:

## Bryan Johnson's Most Recent & Average

These 60+ biomarkers are among the most predictive for longevity.

Page 1 of 4

### Biological Aging

Biomarker	Most Recent Result		12 Month Average		Clinical Notes	Importance of Marker
	Result	Date	Result	# of Tests		
<b>Speed of aging</b>	0.54	2/25	0.67	22	World's slowest measured aging rate (dataset of 5,877 people).	DNA methylation measures biological age by capturing cumulative molecular changes.
<b>Telomere length</b>	11.4 kb	2/25	12.07 kb	2	Comparable to a 10-15 year old based upon SpectraCell dataset of 15,000 samples.	Telomeres shorten with age, and their length reflects cellular aging and risk for chronic disease.
<b>Relative Telomerase Activity (RTA)</b>	7.70%	1/25	7.70%	1	Comparable to a 12 year old.	RTA measures the activity of telomerase, the enzyme that helps maintain telomere length and genome stability.
<b>Glutathione</b>	105 ug/mL	4/25	210.3 ug/mL	4	Slightly low due to NAC cycling experiment. 12 month average result is ideal.	Glutathione is a cellular antioxidant that supports detoxification, immune defense, and oxidative stress balance.
<b>Basal Temperature</b>	94.9°F/34.9°C	4/25	95.6°F/35.3°C	84	To achieve this body temperature, one would need to swim a mile in ice. This is the equivalent of metabolically cold plunging 24/7.	Lower resting body temperature is associated with a slower metabolic rate and, in multiple mammalian studies, has been linked to extended lifespan and delayed aging processes.
<b>RDW-CV</b>	11.1 %	4/25	11.4 %	4	Ideal. Top 95% percentile of the population for RBC uniformity.	RDW measures variation in red blood cell size; lower values are linked to reduced inflammation and improved metabolic health.
<b>Homocysteine</b>	10.4 umol/L	4/25	8.5 umol/L	3	Ideal	Homocysteine is linked to cardiovascular risk and a marker of B-vitamin and methylation status.
<b>Omega 3 Index</b>	9.98% (RBC)	1/25	7.4% (RBC)	2	Excellent	Measures EPA and DHA in red blood cells; higher levels support heart, brain, and anti-inflammatory health.

### Body Composition and Bone Health

Biomarker	Most Recent Result		12 Month Average		Clinical Notes	Importance of Marker
	Result	Date	Result	# of Tests		
<b>Muscle Volume (via MRI)</b>	17.89 Liter	1/25	17.96	2	Top 99th percentile.	Muscle volume is a leading indicator of metabolic health and resilience, and strongly linked to improved longevity.
<b>Fat</b>	0.28 L visceral 1.13% Liver	1/25	0.56 L visceral 1.67% Liver	3	Lowest 1st percentile.	Visceral and liver fat are key indicators of metabolic health, with lower levels strongly associated with reduced inflammation, decreased risk of chronic diseases, and improved longevity.
<b>Bone Mineral Density</b>	2.7 T & Z score	3/25	2.8 T & Z score	2	Top 99th percentile.	Bone Mineral Density (BMD) is a critical marker of skeletal health and frailty, with higher values strongly linked to reduced fracture risk, improved mobility, and enhanced longevity.

### Metabolic & Inflammation

Biomarker	Most Recent Result		12 Month Average		Clinical Notes	Importance of Marker
	Result	Date	Result	# of Tests		
<b>HbA1c</b>	5 %	4/25	5 %	4	Ideal	HbA1c measures long-term blood sugar control, a key predictor of metabolic health, aging, and chronic disease risk.
<b>Blood Glucose</b> 3 day ave with CGM	94 mg/dL	7/25	94 mg/dL	2	Ideal	Continuous glucose monitors show real-time sugar trends and variability.
<b>Insulin</b>	2.8 uIU/mL	4/25	3.9 uIU/mL	3	Ideal	Fasting insulin reflects metabolic efficiency and risk for insulin resistance.
<b>LP-IR Score</b>	<25	4/25	16.6	4	Excellent, insulin sensitive	Determines insulin resistance based on NMR lipid profiles.
<b>Uric Acid</b>	3.1 mg/dL	4/25	2.9 mg/dL	6	Ideal	Uric acid reflects both antioxidant activity and risk for inflammation, metabolic dysfunction, and cardiovascular disease.
<b>hsCRP</b>	undetectable	4/25	.3 mg/L	5	Most recent measurement showed undetectable levels of systemic inflammation. There were two high reading in mid 2024 from an ankle injury which raised the average otherwise the average would be 0.15 mg/L.	hsCRP is the gold-standard clinical marker of chronic systemic inflammation (a major driver of aging), and a long-term disease risk indicator with lower levels correlating to longevity.
<b>TNF</b>	0.7 pg/mL	4/25	0.6 pg/mL	4	Ideal	Tumor Necrosis Factor (TNF) is a key inflammatory cytokine involved in immune signaling and chronic inflammation (inflammaging).

# Longevity Biomarkers:

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### Strength and Physical Performance

Biomarker	Most Recent Result		Average		Clinical Notes	Importance of Marker
	Result	Date	Result	# of Tests		
<b>Bench press</b>	240 lbs	3/24	240 lbs	1	Ideal	This metric is a strong indicator of upper body muscular power and overall physical fitness. Both critical aspects of longevity.
<b>Leg press</b>	850 lbs	1/25	850 lbs	1	Ideal	Lower body muscular power is a critical marker of physical resilience, mobility, and overall longevity.
<b>Grip Strength</b>	134 lbs	1/25	132 lbs	12	Top 95% (age/height)  95th percentile (age/sex).	Grip strength is a simple and powerful predictor of overall health and longevity, strongly associated with reduced risk of chronic disease, disability, and mortality.
<b>VO2 max</b>	51.3 mL/(kg·min)	3/25	55.03 mL/(kg·min)	3	These results are from lab grade systems. Recent result of 51.3 mL/(kg·min) is lower than suspected as test was aborted early due to a recent ankle sprain & fracture. The averaged results are from three measurements across two years.  Most recent result (64.29 mL/(kg·min)) not included in average as device reliability is still being evaluated by team.	VO <sub>2</sub> max is a power law marker of aerobic fitness and cardiovascular health, with higher levels strongly associated with increased longevity and a reduced risk of chronic diseases.
<b>SmO2 % time&lt;10%</b>	44.80%	10/24	44.80%	1	Muscle oxygenation of an athlete.	SmO <sub>2</sub> is a marker of muscular efficiency, measuring oxygen delivery and utilization, crucial for optimizing performance and recovery.
<b>Lung Strength</b>	750 L/m	6/24	772 L/m	2	Lung strength of an athlete.	Peak expiratory flow reflects respiratory efficiency and overall health and increased longevity.

### Renal and Liver

Biomarker	Most Recent Result		12 Month Average		Clinical Notes	Importance of Marker
	Result	Date	Result	# of Tests		
<b>Creatinine (Serum)</b>	1.13 mg/dL	4/25	1.13 mg/dL	6	Ideal	Serum creatinine is a waste product from muscle metabolism that is filtered by the kidneys, and its levels in the blood are used as a marker of kidney function. Creatine supplementation can increase Creatinine.
<b>Cystatin-C</b>	0.82 mg/L	4/25	.82 mg/L	4	Ideal	Cystatin-C is a protein produced by all nucleated cells and filtered by the kidneys, making it a reliable marker of kidney function that is less affected by muscle mass than creatinine.
<b>GFR</b>	81 mL/min/1.73	4/25	82 mL/min/1.73	6	Ideal	Glomerular Filtration Rate (GFR) measures kidney function, with low levels indicating impaired filtration and potential kidney disease.
<b>Albumin/Creatinine Ratio (urine)</b>	12 mg/g	4/25	14 mg/g	3	Ideal	The Albumin/Creatinine Ratio (ACR) in urine is a key marker for kidney function and a powerful predictor of cardiovascular risk, even in early disease stages.
<b>GGT</b>	7.5 U/L	4/25	7.8 U/L	4	Ideal	Gamma-glutamyl transferase (GGT) is a key enzyme indicative of liver health, elevated levels associated with chronic or acute liver damage.
<b>AST</b>	29 U/L	4/25	28.5 U/L	6	Ideal	Aspartate aminotransferase (AST) is a liver enzyme that serves as a marker of liver and muscle health, with elevated levels indicating damage.
<b>ALT</b>	19 U/L	4/25	17.5 U/L	6	Ideal	Alanine aminotransferase (ALT) is a liver enzyme that serves as a marker of liver and muscle health, with elevated levels indicating damage.

### Cognitive and Neurological Health

Biomarker	Most Recent Result		12 Month Average		Clinical Notes	Importance of Marker
	Result	Date	Result	# of Tests		
<b>Sleep</b> - Time in bed - Performance - Restorative sleep - Recovery - HRV	See 12 month average	-	8 hr 35 min 94% 3 hr 56 min 69% 48	365	Sleep is in top quartile for 18-29 year olds. HRV is average for age.	Sleep quality and HRV reflect recovery, autonomic balance, and brain health resilience.
<b>S-100B</b>	60.8 ng/L	4/25	63.6 ng/L	4	Ideal.	S-100B is a marker of brain cell stress or injury, often elevated in neuroinflammation and cognitive dysfunction.

# Longevity Biomarkers: Bryan Johnson's Most Recent & Average

These 60+ biomarkers are among the most predictive for longevity.

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## Cardiovascular

Biomarker	Most Recent Result		12 Month Average		Clinical Notes	Importance of Marker
	Result	Date	Result	# of Tests		
<b>CAC Score</b>	0	8/24	0	1	CAC of 0 is ideal and suggests near zero cardiovascular risk.	CAC measures calcified plaque in coronary arteries and is a strong predictor of heart disease risk.
<b>Blood pressure</b>	109/74	1/25	107/71	15	Ideal	Blood pressure measures arterial pressure; elevated levels increase risk for stroke, heart and kidney disease.
<b>Resting Heart Rate</b>	46 bpm	3/25	51	365	At level of athlete.	Resting heart rate is a proxy for cardiovascular fitness and autonomic function.
<b>Heart Rate Recovery</b>	37 bpm	10/24	35 bpm	3	At level of athlete.	Measures how quickly your heart rate drops after exercise; faster recovery reflects better cardiovascular fitness and autonomic nervous system health.
<b>Cholesterol (total)</b>	100 mg/dL	4/25	118.8 mg/dL	6	Ideal	Sum of all cholesterol types in the blood, a general measure of lipid status.
<b>HDL-C</b>	55 mg/dL	4/25	55.8 mg/dL	5	Ideal	HDL-C measures "good" cholesterol which aids in removing excess cholesterol from the bloodstream.
<b>Apo-A1</b>	141 mg/dL	4/25	146.7 mg/dL	3	Ideal	Apo-A1 is the main protein in HDL particles "good cholesterol"; a more accurate marker of protective HDL function.
<b>LDL-C</b>	35 mg/dL	4/25	43.6 mg/dL	5	Exceptional.	LDL-C measures "bad cholesterol," with elevated levels strongly linked to increased cardiovascular risk and arterial plaque buildup.
<b>ApoB</b>	52 mg/dL	4/25	75.8 mg/dL	4	Ideal	ApoB is the main protein in LDL particles "bad cholesterol" and is a superior marker of LDL-driven CVD risk.
<b>LDL-P</b>	150 nmol/L	4/25	537.8 nmol/L	4	Ideal	LDL-P measures LDL particle number, offering precision insight into cholesterol-related risk.
<b>Triglycerides</b>	42 mg/dL	4/25	48.3 mg/dL	6	Ideal	Triglycerides are blood fats linked to insulin sensitivity and liver function.
<b>oxLDL</b>	92 ng/mL	4/25	114.8 ng/mL	4	Ideal	Oxidized LDL is a marker of lipid peroxidation and endothelial damage.
<b>Lp(a)</b>	19 nmol/L	4/25	21.9 nmol/L	5	Ideal	Lp(a) is a genetically influenced cholesterol particle linked to CVD and stroke.
<b>BNP</b>	18 pg/mL	4/25	18 pg/mL	2	Ideal	BNP is secreted by the heart in response to pressure; high levels predict heart failure.

## Microbiome

Biomarker	Most Recent Result		12 Month Average		Clinical Notes	Importance of Marker
	Result	Date	Result	# of Tests		
<b>Akkermansia muciniphila</b>	4.2E4 CFU/g	1/25	2.1E4 CFU/g	2	Ideal	A beneficial gut bacterium that strengthens the intestinal barrier, reduces inflammation, and is associated with improved metabolic health and healthy aging.
<b>Short-Chain Fatty Acids</b>	55.8 umol/g	1/25	39.2 umol/g	2	Ideal	SCFAs are gut-bacteria metabolism products that fuel intestinal cells and improve gut barrier function with effects on regulating inflammation, glucose metabolism, and immune function.
<b>n-Butyrate</b>	11.1 umol/g	1/25	7.45 umol/g	2	Ideal	A major SCFA that fuels colon cells, strengthens the gut lining, and reduces inflammation; linked to lower risk of metabolic disease and improved gut-brain communication.

## Longevity Biomarkers: Bryan Johnson's Most Recent & Average

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Reproductive and Hormone Health

Biomarker	Most Recent Result			12 Month Average		Clinical Notes	Importance of Marker
	Result	Date	Result	# of Tests			
<b>Testosterone</b>	748 ng/dL	4/25	702.7 ng/dL	7	Ideal (natural, no TRT).	Testosterone is crucial for both men and women, supporting muscle strength, bone density, energy levels, and mood.	
<b>Free Testosterone (Direct)</b> <b>Free Testosterone (Calc)</b>	10.9 pg/mL 95.6 pg/mL	4/25	10.9 pg/mL 94.2 pg/mL	1 4	Ideal (natural, no TRT).	Free Testosterone (direct) measures the testosterone that is unbound and biologically active in the body, direct uses a specific immunoassay for measurement, while Free Testosterone (calc) refers to an estimated value of free testosterone based on total testosterone, SHBG, and albumin levels.	
<b>DHEA</b>	209 mcg/dL	4/25	240.8 mcg/dL	4	Ideal	DHEA is a precursor to sex hormones and supports stress resilience, immune balance, and cellular repair—functions often tied to recovery and vitality.	
<b>LH</b>	9.1 IU/L	4/25	8.7 IU/L	3	Ideal	LH stimulates the production of sex hormones (testosterone and estrogen), which support muscle, bone, and reproductive health.	
<b>FSH</b>	7.6 mIU/mL	4/25	7.4 mIU/mL	3	Ideal	FSH regulates sperm production in men and egg maturation in women and plays a broader role in reproductive and hormonal balance.	
<b>TSH</b>	0.76 uIU/mL	4/25	0.9 uIU/mL	4	Ideal	TSH (Thyroid-Stimulating Hormone) is a critical biomarker for thyroid health, regulating metabolism, energy levels, and overall hormonal balance essential for longevity.	
<b>Vit D</b>	134 ng/mL	4/25	88 ng/mL	4	A bit high due to improved microbiome absorption from HBOT.	Vitamin D plays a central role in bone health, immune modulation, metabolic regulation, hormonal balance, and gene expression regulation—all of which are critical determinants of healthy longevity.	
<b>IGF-1</b>	106 ng/mL	4/25	100.8 ng/mL	6	Ideal, on the lower end due to caloric restriction.	IGF-1 regulates growth, repair, and metabolism. Acting as a key mediator of growth hormone, while essential, IGF-1 is a u-shaped marker, chronically elevated levels are linked to accelerated aging and increased cancer risk.	
<b>Nighttime erections</b>	2 hr 32 min	12/25	2 hr 57 min	4	Exceptional	Involuntary erections during sleep help maintain penile tissue health; their presence reflects normal vascular, heart, hormonal, and neurological function.	
<b>Sperm</b>	253 m 71 m 33% 3.58 mL 7% 83 m	304 m 142 m 42% 2.9 mL 8% 154 m	4/25	4	Sperm health of a 20 year old.	Sperm parameters are sensitive indicators of reproductive, hormonal, and metabolic health, and are associated with increased life expectancy in large cohorts.	
<b>PSA</b>	.3 mg/mL	4/25	0.4 ng/mL	2	Ideal	PSA (Prostate Specific Antigen) is a protein produced by the prostate that helps liquefy semen; elevated levels can indicate prostate enlargement, inflammation, or cancer risk.	