

## BAGER,ARWA

DOB: 03/31/1981  
Sex: F  
Phone: (305) 788-5319  
Patient ID: 10513

Age: 41  
Fasting: Y

Specimen: MZ618481C  
Requisition: 0001229  
Lab Reference ID: 37895  
Report Status: FINAL / SEE REPORT

Collected: 03/15/2023 08:36  
Received: 03/15/2023 08:40  
Reported: 03/23/2023 23:07

Client #: 73916914  
TOLENTINO,JACLYN  
PARSLEY HEALTH LA  
8550 SANTA MONICA BLVD FL 2  
WEST HOLLYWOOD, CA 90069-4496  
Phone: (833) 447-2775

FASTING: YES ; DIFFICULT DRAW. PATIENT ADVISED TO RETURN FOR COLLECTION.

### ▲ CHOLESTEROL, TOTAL

| Analyte              | Value                             |
|----------------------|-----------------------------------|
| ▲ CHOLESTEROL, TOTAL | 279 H Reference Range: <200 mg/dL |

### ▲ DIRECT LDL

| Analyte      | Value                             |
|--------------|-----------------------------------|
| ▲ DIRECT LDL | 193 H Reference Range: <100 mg/dL |

LDL-C levels > or = 190 mg/dL may indicate familial hypercholesterolemia (FH). Clinical assessment and measurement of blood lipid levels should be considered for all first degree relatives of patients with an FH diagnosis.

For questions about testing for familial hypercholesterolemia, please call Quest Genomics Client Services at 1.866.GENE.INFO.  
Jacobson T, et al. J National Lipid Association Recommendations for Patient-Centered Management of Dyslipidemia: Part 1 Journal of Clinical Lipidology 2015;9(2), 129-169.

Desirable range <100 mg/dL for primary prevention;  
<70 mg/dL for patients with CHD or diabetic patients with > or = 2 CHD risk factors.

### ▲ COMPREHENSIVE METABOLIC PANEL

| Analyte  | Value  |
|--|--|
| GLUCOSE<br>Fasting reference interval  | 92 Reference Range: 65-99 mg/dL              |
| UREA NITROGEN (BUN)  | 14 Reference Range: 7-25 mg/dL               |
| CREATININE   | 0.70 Reference Range: 0.50-0.99 mg/dL        |
| EGFR<br>The eGFR is based on the CKD-EPI 2021 equation. To calculate the new eGFR from a previous Creatinine or Cystatin C result, go to <a href="https://www.kidney.org/professionals/kdoqi/gfr%5Fcalculator">https://www.kidney.org/professionals/kdoqi/gfr%5Fcalculator</a> | 111 Reference Range: > OR = 60 mL/min/1.73m2 |
| BUN/CREATININE RATIO   | NOT APPLICABLE Reference Range: 6-22 (calc)  |
| SODIUM   | 140 Reference Range: 135-146 mmol/L          |
| POTASSIUM  | 4.6 Reference Range: 3.5-5.3 mmol/L          |
| CHLORIDE   | 103 Reference Range: 98-110 mmol/L           |
| CARBON DIOXIDE   | 23 Reference Range: 20-32 mmol/L             |
| ▲ CALCIUM  | 11.0 H Reference Range: 8.6-10.2 mg/dL       |
| PROTEIN, TOTAL   | 8.1 Reference Range: 6.1-8.1 g/dL            |

|                        |              |                                      |
|------------------------|--------------|--------------------------------------|
| <b>▲ ALBUMIN</b>       | <b>5.3 H</b> | Reference Range: 3.6-5.1 g/dL        |
| GLOBULIN               | <b>2.8</b>   | Reference Range: 1.9-3.7 g/dL (calc) |
| ALBUMIN/GLOBULIN RATIO | <b>1.9</b>   | Reference Range: 1.0-2.5 (calc)      |
| BILIRUBIN, TOTAL       | <b>0.3</b>   | Reference Range: 0.2-1.2 mg/dL       |
| ALKALINE PHOSPHATASE   | <b>48</b>    | Reference Range: 31-125 U/L          |
| AST                    | <b>14</b>    | Reference Range: 10-30 U/L           |
| ALT                    | <b>13</b>    | Reference Range: 6-29 U/L            |

#### ▲ T4 (THYROXINE), TOTAL

| Analyte                        | Value         |                                  |
|--------------------------------|---------------|----------------------------------|
| <b>▲ T4 (THYROXINE), TOTAL</b> | <b>15.0 H</b> | Reference Range: 5.1-11.9 mcg/dL |

#### ▲ CBC (INCLUDES DIFF/PLT)

| Analyte                 | Value        |                                       |
|-------------------------|--------------|---------------------------------------|
| WHITE BLOOD CELL COUNT  | <b>9.8</b>   | Reference Range: 3.8-10.8 Thousand/uL |
| RED BLOOD CELL COUNT    | <b>5.01</b>  | Reference Range: 3.80-5.10 Million/uL |
| HEMOGLOBIN              | <b>13.6</b>  | Reference Range: 11.7-15.5 g/dL       |
| HEMATOCRIT              | <b>41.8</b>  | Reference Range: 35.0-45.0 %          |
| MCV                     | <b>83.4</b>  | Reference Range: 80.0-100.0 fL        |
| MCH                     | <b>27.1</b>  | Reference Range: 27.0-33.0 pg         |
| MCHC                    | <b>32.5</b>  | Reference Range: 32.0-36.0 g/dL       |
| RDW                     | <b>12.2</b>  | Reference Range: 11.0-15.0 %          |
| <b>▲ PLATELET COUNT</b> | <b>492 H</b> | Reference Range: 140-400 Thousand/uL  |
| MPV                     | <b>9.6</b>   | Reference Range: 7.5-12.5 fL          |
| ABSOLUTE NEUTROPHILS    | <b>5704</b>  | Reference Range: 1500-7800 cells/uL   |
| ABSOLUTE LYMPHOCYTES    | <b>3273</b>  | Reference Range: 850-3900 cells/uL    |
| ABSOLUTE MONOCYTES      | <b>461</b>   | Reference Range: 200-950 cells/uL     |
| ABSOLUTE EOSINOPHILS    | <b>284</b>   | Reference Range: 15-500 cells/uL      |
| ABSOLUTE BASOPHILS      | <b>78</b>    | Reference Range: 0-200 cells/uL       |
| NEUTROPHILS             | <b>58.2</b>  | %                                     |
| LYMPHOCYTES             | <b>33.4</b>  | %                                     |
| MONOCYTES               | <b>4.7</b>   | %                                     |
| EOSINOPHILS             | <b>2.9</b>   | %                                     |
| BASOPHILS               | <b>0.8</b>   | %                                     |

#### ▲ VITAMIN B12

| Analyte              | Value         |                                 |
|----------------------|---------------|---------------------------------|
| <b>▲ VITAMIN B12</b> | <b>1643 H</b> | Reference Range: 200-1100 pg/mL |

## ▲ OMEGA 3 AND 6 FATTY ACIDS

| Analyte  | Value |                              |
|--|-------|------------------------------|
| <b>OMEGA 3 (EPA+DHA) INDEX</b>   | 4.9   | Reference Range: 1.4-4.9 %   |
| Risk: Optimal > 3.2%; Moderate 2.2-3.2%; High < 2.2%   |       |                              |
| Cardiovascular event risk category cut points for Omega3 index (optimal, moderate, high) are based on quartiles of adult U.S reference population. Association between Omega3 index and cardiovascular events is based on Albert et al. NEJM. 2002;346:1113.   |       |                              |
| <b>RISK</b>  | Low   |                              |
| The Omega-3 Index is associated with a low risk of cardiovascular disease because it is in the top population quartile. The Omega-3 Index categories are based on the top (75th percentile) and bottom (25th percentile) quartiles of the reference population. Consumption of foods high in omega-3 fatty acids (EPA and DHA) or supplements containing omega-3 fatty acids can increase the Omega-3 Index. |       |                              |
| Index <2.2: High<br>Index 2.2-3.2: Moderate<br>Index >3.2: Optimal   |       |                              |
| <b>▲ OMEGA 6/OMEGA 3 RATIO</b>   | 5.1 L | Reference Range: 5.7-21.3    |
| <b>EPA/ARACHIDONIC ACID RATIO</b>  | 0.2   | Reference Range: 0.2 OR LESS |
| <b>ARACHIDONIC ACID</b>  | 7.4   | Reference Range: 5.2-12.9 %  |
| <b>▲ EPA</b>   | 1.6 H | Reference Range: 0.2-1.5 %   |
| <b>DHA</b>   | 3.3   | Reference Range: 1.2-3.9 %   |
| This test was developed and its analytical performance characteristics have been determined by Quest Diagnostics Nichols Institute San Juan Capistrano. It has not been cleared or approved by FDA. This assay has been validated pursuant to the CLIA regulations and is used for clinical purposes.  |       |                              |

## ▲ CARDIO IQ® LIPOPROTEIN SUBFRACT, ION MOBILITY

| Analyte   | Value         |                                     |
|---|---------------|-------------------------------------|
| <b>TOTAL PARTICLES TOTAL, HDL</b>                   | <b>33451</b>  | Reference Range: 17063-38995 nmol/L |
| <b>▲ LDL PARTICLE NUMBER</b>                        | <b>1995 H</b> | Reference Range: <1138 nmol/L       |
| Risk: Optimal <1138; Moderate 1138-1409; High>1409  |               |                                     |
| <b>TOTAL, NON-HDL</b>                               | <b>2443</b>   | Reference Range: 1044-2725 nmol/L   |
| <b>HDL PARTICLE SUBFRACTIONS HDL, SMALL</b>         | <b>26219</b>  | Reference Range: 12602-28643 nmol/L |
| <b>HDL LARGE</b>                                    | <b>7232</b>   | Reference Range: >6729 nmol/L       |
| Risk: Optimal >6729; Moderate 6729-5353; High <5353 |               |                                     |
| <b>LDL PARTICLE SUBFRACTIONS LDL, VERY SMALL-d</b>  | <b>60</b>     | Reference Range: 35-139 nmol/L      |
| <b>LDL, VERY SMALL-c</b>                            | <b>86</b>     | Reference Range: 40-182 nmol/L      |
| <b>LDL, VERY SMALL-b</b>                            | <b>87</b>     | Reference Range: 36-255 nmol/L      |
| <b>LDL, VERY SMALL-a</b>                            | <b>107</b>    | Reference Range: 30-238 nmol/L      |
| <b>▲ LDL SMALL</b>                                  | <b>275 H</b>  | Reference Range: <142 nmol/L        |
| Risk: Optimal <142; Moderate 142-219; High>219      |               |                                     |
| <b>▲ LDL MEDIUM</b>                                 | <b>486 H</b>  | Reference Range: <215 nmol/L        |
| Risk: Optimal <215; Moderate 215-301; High>301      |               |                                     |
| <b>▲ LDL, LARGE-b</b>                               | <b>409 H</b>  | Reference Range: 89-368 nmol/L      |

|   |              |                                  |
|---|--------------|----------------------------------|
| <b>LDL, LARGE-a</b>                                     | <b>485</b>   | Reference Range: 122-580 nmol/L  |
| <b>IDL PARTICLE SUBFRACTIONS IDL, SMALL</b>             | <b>232</b>   | Reference Range: 97-370 nmol/L   |
| <b>IDL, LARGE</b>                                       | <b>124</b>   | Reference Range: 89-280 nmol/L   |
| <b>VLDL PARTICLE SUBFRACTION VLDL, SMALL</b>            | <b>41</b>    | Reference Range: 35-129 nmol/L   |
| <b>VLDL, MEDIUM</b>                                     | <b>42</b>    | Reference Range: 19-99 nmol/L    |
| <b>VLDL, LARGE</b>                                      | <b>9</b>     | Reference Range: 3-33 nmol/L     |
| <b>LDL PATTERN</b>                                      | <b>A</b>     | Reference Range: A Pattern       |
| Risk: Optimal Pattern A; High Pattern B                 |              |                                  |
| <b>LDL PEAK SIZE</b>                                    | <b>223.0</b> | Reference Range: >222.9 Angstrom |
| Risk: Optimal >222.9; Moderate 222.9-217.4; High <217.4 |              |                                  |

Adult cardiovascular event risk category cut points (optimal, moderate, high) are based on an adult U.S. reference population plus two large cohort study populations. Association between lipoprotein subfractions and cardiovascular events is based on Musunuru et al. ATVB. 2009;29:1975.

This test was developed and its analytical performance characteristics have been determined by Quest Diagnostics Nichols Institute San Juan Capistrano. It has not been cleared or approved by FDA. This assay has been validated pursuant to the CLIA regulations and is used for clinical purposes.

## ▲ INSULIN

| Analyte   | Value                |
|---|----------------------|
| <b>▲ INSULIN</b>  | <b>20.7 H</b> uIU/mL |
| Reference Range < or = 18.4   |                      |
| Risk:   |                      |
| Optimal   | < or = 18.4          |
| Moderate  | NA                   |
| High  | >18.4                |
| Adult cardiovascular event risk category cut points (optimal, moderate, high) are based on Insulin Reference Interval studies performed at Quest Diagnostics in 2022. |                      |

## VITAMIN D,25-OH,TOTAL,IA

| Analyte   | Value                                   |
|---|---|
| <b>VITAMIN D,25-OH,TOTAL,IA</b>   | <b>58</b> Reference Range: 30-100 ng/mL |
| Vitamin D Status 25-OH Vitamin D:   |   |
| Deficiency:   | <20 ng/mL                               |
| Insufficiency:  | 20 - 29 ng/mL                           |
| Optimal:  | > or = 30 ng/mL                         |
| For 25-OH Vitamin D testing on patients on D2-supplementation and patients for whom quantitation of D2 and D3 fractions is required, the QuestAssured(TM) 25-OH VIT D, (D2,D3), LC/MS/MS is recommended: order code 92888 (patients >2yrs). |   |

### COMMENT

See Note 1

Note 1

For additional information, please refer to <http://education.QuestDiagnostics.com/faq/FAQ199> (This link is being provided for informational/ educational purposes only.)

## HDL CHOLESTEROL

| Analyte         | Value                               |
|-----------------|-------------------------------------|
| HDL CHOLESTEROL | 68 Reference Range: > OR = 50 mg/dL |

## TRIGLYCERIDES

| Analyte       | Value                           |
|---------------|---------------------------------|
| TRIGLYCERIDES | 106 Reference Range: <150 mg/dL |

## HEMOGLOBIN A1c

| Analyte  | Value                                    |
|--|--|
| <b>HEMOGLOBIN A1c</b><br>For the purpose of screening for the presence of diabetes:<br><br><5.7% Consistent with the absence of diabetes<br>5.7-6.4% Consistent with increased risk for diabetes (prediabetes)<br>> or =6.5% Consistent with diabetes<br><br>This assay result is consistent with a decreased risk of diabetes.<br><br>Currently, no consensus exists regarding use of hemoglobin A1c for diagnosis of diabetes in children.<br><br>According to American Diabetes Association (ADA) guidelines, hemoglobin A1c <7.0% represents optimal control in non-pregnant diabetic patients. Different metrics may apply to specific patient populations. Standards of Medical Care in Diabetes(ADA). | 5.5 Reference Range: <5.7 % of total Hgb |

## MAGNESIUM, RBC

| Analyte        | Value   |
|----------------|---|
| MAGNESIUM, RBC | 6.4 Reference Range: 4.0-6.4 mg/dL <a href="#">See Note 1</a> |

## TSH

| Analyte  | Value      |
|--|------------|
| <b>TSH</b><br>Reference Range<br><br>> or = 20 Years 0.40-4.50<br><br>Pregnancy Ranges<br>First trimester 0.26-2.66<br>Second trimester 0.55-2.73<br>Third trimester 0.43-2.91 | 0.43 mIU/L |

## T4, FREE

| Analyte  | Value                              |
|----------|------------------------------------|
| T4, FREE | 1.6 Reference Range: 0.8-1.8 ng/dL |

## T3, FREE

| Analyte  | Value                              |
|----------|------------------------------------|
| T3, FREE | 3.9 Reference Range: 2.3-4.2 pg/mL |

## T3, TOTAL

| Analyte   | Value                             |
|-----------|-----------------------------------|
| T3, TOTAL | 132 Reference Range: 76-181 ng/dL |

## T3 REVERSE, LC/MS/MS

| Analyte              | Value                                     |
|----------------------|---|
| T3 REVERSE, LC/MS/MS | 19 Reference Range: 8-25 ng/dL See Note 1 |

## THYROGLOBULIN ANTIBODIES

| Analyte                  | Value                              |
|--------------------------|------------------------------------|
| THYROGLOBULIN ANTIBODIES | <1 Reference Range: < or = 1 IU/mL |

## THYROID PEROXIDASE ANTIBODIES

| Analyte                       | Value                        |
|-------------------------------|------------------------------|
| THYROID PEROXIDASE ANTIBODIES | <1 Reference Range: <9 IU/mL |

## LEPTIN

| Analyte | Value      |
|---------|------------|
| LEPTIN  | 33.4 ng/mL |

Reference Ranges for Leptin:

Adult Lean Subjects (18-71 years) with BMI range of 18-25:

Males: 0.3-13.4 ng/mL  
Females: 4.7-23.7 ng/mL

Adult Subjects (19-60 years) with BMI range of 25-30:

Males: 1.8-19.9 ng/mL  
Females: 8.0-38.9 ng/mL

Pediatric Reference Ranges for Leptin:

5-9.9 years: 0.6-16.8 ng/mL  
10-13.9 years: 1.4-16.5 ng/mL  
14-17.9 years: 0.6-24.9 ng/mL

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## FERRITIN

| Analyte  | Value                            |
|----------|----------------------------------|
| FERRITIN | 38 Reference Range: 16-232 ng/mL |

## CORTISOL, TOTAL

| Analyte | Value |
|---------|-------|
|---------|-------|

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**CORTISOL, TOTAL****17.7** mcg/dL

Reference Range: For 8 a.m.(7-9 a.m.) Specimen: 4.0-22.0

Reference Range: For 4 p.m.(3-5 p.m.) Specimen: 3.0-17.0

\* Please interpret above results accordingly \*

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**Note 1**

This test was developed and its analytical performance characteristics have been determined by Quest Diagnostics Nichols Institute Chantilly, VA. It has not been cleared or approved by the U.S. Food and Drug Administration. This assay has been validated pursuant to the CLIA regulations and is used for clinical purposes.

**Performing Sites**

AMD Quest Diagnostics/Nichols Chantilly-Chantilly VA, 14225 Newbrook Dr, Chantilly, VA 20151-2228 Laboratory Director: Patrick W Mason M.D.,PhD



EZ Quest Diagnostics/Nichols SJC-San Juan Capistrano,, 33608 Ortega Hwy, San Juan Capistrano, CA 92675-2042 Laboratory Director: Irina Maramica MD,PhD,MBA

MI Quest Diagnostics-Miami, 10200 Commerce Pkwy, Miramar, FL 33025-3938 Laboratory Director: Julie L Friedman, MD

TP Quest Diagnostics-Tampa, 4225 E Fowler Ave, Tampa, FL 33617-2026 Laboratory Director: Weston H Rothrock MD

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**Key**

 Priority Out of Range  Out of Range

These results have been sent to the person who ordered the tests. Your receipt of these results should not be viewed as medical advice and is not meant to replace discussion with your doctor or other healthcare professional.

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