

## FUNCTIONAL LAB RANGES: QUICK REFERENCE GUIDE

The ranges provided in this document represent values commonly used by practitioners in their day-to-day applications and come from a broader webinar discussion (see page 2 for reference link).

These ranges are subject to change as ongoing research and clinical understanding evolve. They are not exhaustive nor definitive for Functional Medicine and do not preclude the use of other markers or assessments for evaluating specific conditions.

| LAB MARKER      | SAMPLE RANGE   |
|-----------------|--|
| IRON            |  |
| TIBC            | 250–350  |
| Iron Saturation | 25–55%   |
| Iron            | 80–120   |
| Ferritin        | Premenopause 50–122<br>Postmenopause 75–150<br>Male 75–150 |
| CDC             |  |

| CBC         |                     |
|-------------|---------------------|
| WBC         | 4.5–6.5             |
| RBC         | M 4.8–5.5 F 4.4–4.8 |
| Hemoglobin  | M 14-16 F 13-14.5   |
| Hematocrit  | M 44-49% F 39-45%   |
| MCV         | 84–92               |
| МСН         | 28–32               |
| мснс        | 33–35               |
| RDW         | < 13%               |
| Platelets   | 225–275k            |
| Neutrophils | 60%                 |
| Lymphs      | 30%                 |
| Monocytes   | 4–7%                |
| Eos         | < 3%                |
| Basos       | < 3%                |
|             |                     |

| GENREAL METABOLIC    |                     |
|----------------------|---------------------|
| Glucose              | 82–88               |
| BUN                  | 12–17               |
| Creatinine           | M 0.8–1.1 F 0.7–1.0 |
| BUN:Creatinine Ratio | 10–20               |
| eGFR                 | > 60                |
| Sodium               | 135–140             |
| Potassium            | 4.0-4.4             |
| Chloride             | 101–103             |
| Carbon Dioxide       | 25–28               |
| Calcium              | 9.4–9.8             |
| Protein              | 7.0–7.3             |
| Albumin              | 4.2–4.7             |
| Globulin             | 2.3–2.7             |
| A/G Ratio            | 1.8–2.0             |
| Bilirubin            | 0.5-0.8             |
| Alk Phos             | 65–90               |
| AST                  | 10–26               |
| ALT                  | 10–26               |

| LIPID       |         |
|-------------|---------|
| Cholesterol | 150–200 |
| Trigs       | 50–100  |
| HDL         | 45–65   |
| VLDL        | < 40    |
| LDL         | < 100   |
| T chol/HDL  | < 3.0   |



| THYROID                     |                 |
|-----------------------------|-----------------|
| TSH                         | 1.5–2.0         |
| Thyroxine (T4), Total       | 6–12            |
| Free T4                     | 1.3–1.8         |
| T3, Total                   | 100–180         |
| Free T3                     | 3.2–4.2         |
| T3 Uptake                   | M 32-38 F 28-34 |
| Reverse T3                  | 9–35            |
| FTI                         | 1.2-4.9         |
| Thyroid Peroxidase (TPO) Ab | 0–34            |
| Thyroglobulin Antibody      | 0.0-0.9         |

| ADDITIONAL            |                 |
|-----------------------|-----------------|
| Hemoglobin A1C        | 5.1–5.3         |
| Insulin               | < 5             |
| C-Peptide             | 1.5–3.0         |
| Vitamin D             | 60–80           |
| CRP                   | <1              |
| Homocysteine          | < 7             |
| Phosphorous           | 3.1–3.5         |
| LDH                   | 140–180         |
| GGT                   | 10–26           |
| Magnesium             | 2.0–2.3         |
| Fibrinogen Activity   | < 300           |
| Uric Acid             | M < 5.0 F < 4.5 |
| Omega–6:Omega–3 Ratio | 1.0-3.0 : 1     |

| BLOOD METALS      |                   |
|-------------------|-------------------|
| Mercury           | < 50th Percentile |
| Lead              | < 50th Percentile |
| Cadmium           | < 50th Percentile |
| Arsenic           | < 50th Percentile |
| Copper:Zinc Ratio | 0.8–1.2 : 1       |

| CIRS MARKERS |                       |
|--------------|-----------------------|
| MSH          | 35–81                 |
| MMP-9        | 85–332                |
| VEGF         | 31–86                 |
| TGFB-1       | < 2830                |
| Leptin       | M 0.5–13.8 F 1.1–27.5 |
| ADH          | 1.0–13.3              |
| ACTH         | 8–37                  |

| SALIVA     |          |                              |
|------------|----------|------------------------------|
| SALIVA     |          | I                            |
| Cortisol:  | 8:00 AM  | 13–24 nM                     |
|            | 12:00 PM | 5–10 nM                      |
|            | 4:00 PM  | 3–8 nM                       |
|            | 10:00 PM | 1–4 nM                       |
| Total      |          | 22–46 nM                     |
| Food Sens  | sitivity | Desired: Negative            |
| SIgA       |          | 10-20 mg/dL                  |
| Estradiol  |          | M 1–5 mg/ml F 1–10 pg/ml     |
| Testostero | ne       | M 15–135 pg/ml F 10–38 pg/ml |
| Progester  | one      | M 5-95 pg/ml F 5-300 pg/ml   |
| LH         |          | M 8-55 uIU/mL F 8-30 uIU/mL  |
| FSH        |          | M 12–125 uIU/mL              |
| Cycling    |          | F < 125 PM 90-500            |
| DHEA       |          | 3–10 ng/ml                   |
| DHT        |          | 22-89 pg/ml                  |
| Androsten  | edione   | 151–350 pg/ml                |

For more reference information about this document, see:
<a href="https://biogenetix.com/">https://biogenetix.com/</a>
lab-testing-part-four-blood-testing/



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