

## Clinical Laboratory Sex-Based Reference Ranges

**Note:** Ranges provided in this table apply to all NM Clinical Lab performing locations, unless otherwise stated.

| Test Name                                                 | Age (y) | Female Reference Range                                                                                                                                                                                                                                                                                        | Male Reference Range                                                                                                                         |
|-----------------------------------------------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CHEMISTRY</b>                                          |         |                                                                                                                                                                                                                                                                                                               |                                                                                                                                              |
| <b>B-hCG</b>                                              | All     | For the diagnosis of pregnancy<br>0.0-5.0 mIU/mL Negative<br>5.1-25.0 mIU/mL Indeterminate<br>>25.0 mIU/mL Positive                                                                                                                                                                                           | 0-2.9 mIU/mL                                                                                                                                 |
| <b>CREATININE KINASE (CK)</b>                             | All     | 26-192 units/L                                                                                                                                                                                                                                                                                                | 39-308 units/L                                                                                                                               |
| <b>CREATININE CLEARANCE</b>                               | All     | 75-115 mL/min                                                                                                                                                                                                                                                                                                 | 85- 125 mL/min                                                                                                                               |
| <b>CREATININE, 24H URINE (NMH)</b>                        | All     | 800- 1800 mg/24h                                                                                                                                                                                                                                                                                              | 1000- 2000 mg/24h                                                                                                                            |
| <b>DHEA-SULFATE (CDH/HealthLab)</b>                       | Varies  | <u>Age(y) Range (µg/dL)</u><br>20-25 148-407<br>25-35 99-340<br>35-45 61-337<br>45-55 35-256<br>55-65 19-205<br>65-75 9-246<br>> 75 12-154                                                                                                                                                                    | <u>Age(y) Range (µg/dL)</u><br>20-25 211-492<br>25-35 160-449<br>35-45 89-427<br>45-55 44-331<br>55-65 52-295<br>65-75 34-249<br>> 75 16-123 |
| <b>DHEA-SULFATE</b>                                       | Varies  | <u>Age(y) Range (µg/dL)</u><br>20-24 135-407<br>25-34 95-511<br>35-44 74-410<br>45-54 56-282<br>55-64 29-182                                                                                                                                                                                                  | <u>Age(y) Range (µg/dL)</u><br>0-24 238-539<br>25-34 167-591<br>35-44 139-484<br>45-54 136-447<br>55-64 48-361                               |
| <b>ESTRADIOL (CDH/HealthLab)</b>                          | All     | Female Estradiol Ranges<br>Follicular phase 12.4- 233 pg/mL<br>Ovulation phase 41.0- 398 pg/mL<br>Luteal phase 22.3- 341 pg/mL<br>Post-menopausal <5- 138 pg/mL<br><br>Healthy Pregnant Female<br>First trimester 154- 3243 pg/mL<br>Second trimester 1561- 21280 pg/mL<br>Third trimester 8525- >30000 pg/mL | 11.3- 43.2 pg/mL                                                                                                                             |
| <b>ESTRADIOL (NMH)</b>                                    | All     | <u>Non-Pregnant Female</u><br>Mid-follicular phase 25- 115 pg/mL<br>Mid-luteal phase 37- 246 pg/mL<br>Peri-ovulatory phase 3 - 517 pg/mL<br>Post-menopausal Female <= 25 pg/mL                                                                                                                                | <= 32 pg/mL                                                                                                                                  |
| <b>FERRITIN</b>                                           | >=19    | 8.0- 252.0 ng/mL                                                                                                                                                                                                                                                                                              | 24.0- 336.0 ng/mL                                                                                                                            |
| <b>FOLLICLE-STIMULATING HORMONE (FSH) (CDH/HealthLab)</b> | All     | Follicular 3.5- 12.5 mIU/mL<br>Ovulation 4.7- 21.5 mIU/mL<br>Luteal 1.7- 7.7 mIU/mL<br>Post-menopausal 25.8- 134.8 mIU/mL                                                                                                                                                                                     | 1.5- 12.4 mIU/mL                                                                                                                             |

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| Test Name                                               | Age (y) | Female Reference Range                                                                                                                                                                                                                                                                                                     | Male Reference Range                                        |
|---------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| <b>FOLLICLE-STIMULATING HORMONE (FSH) (NMH)</b>         | All     | <u>Adult Female</u><br>Mid-Follicular 3.9- 8.8 mIU/mL<br>Mid-Cycle Peak 4.5- 22.5 mIU/mL<br>Mid-Luteal 1.8- 5.1 mIU/mL<br>Post-menopausal 16.7- 113.6 mIU/mL                                                                                                                                                               | 1.3- 19.3 mIU/mL                                            |
| <b>IRON</b>                                             | All     | 40-170 µg/dL                                                                                                                                                                                                                                                                                                               | 60- 175 µg/dL                                               |
| <b>LUTEINIZING HORMONE (LH) (CDH/HealthLab)</b>         | All     | <u>Female</u><br>Mid-Follicular 2.4- 12.6 mIU/mL<br>Mid-Cycle 14.0- 95.6 mIU/mL<br>Mid-Luteal 1.0- 11.4 mIU/mL<br>Post-menopausal 7.7- 58.5 mIU/mL                                                                                                                                                                         | 1.7- 8.6 mIU/mL                                             |
| <b>LUTEINIZING HORMONE (LH) (NMH)</b>                   | All     | <u>Adult Female</u><br>Mid-Follicular 2.1- 10.9 mIU/mL<br>Mid-Cycle Peak 19.2- 103.2 mIU/mL<br>Post-menopausal 10.9- 58.6 mIU/mL                                                                                                                                                                                           | 1.2- 9.0 mIU/mL                                             |
| <b>MYOGLOBIN</b>                                        | All     | 14.3 - 65.8 ng/ml                                                                                                                                                                                                                                                                                                          | 17.4- 105.7 ng/mL                                           |
| <b>PROGESTERONE (CDH/HealthLab)</b>                     | All     | <u>Female Progesterone Ranges</u><br>Follicular phase 0.06- 0.89 ng/mL<br>Ovulation phase 0.12- 12.00 ng/mL<br>Luteal phase 1.83- 23.90 ng/mL<br>Post- menopausal <0.05- 0.13 ng/mL<br><br><u>Healthy Pregnant Female</u><br>First trimester 11.0- 44.30<br>Second trimester 25.40- 83.30<br>Third trimester 58.70- 214.00 | 0.0- 0.15 ng/mL                                             |
| <b>PROGESTERONE</b>                                     | All     | <u>Non-Pregnant Female</u><br>Mid-follicular phase 0.31- 1.52 ng/mL<br>Mid-luteal phase 5.16- 18.56 ng/mL<br>Post-menopausal <0.08- 0.78 ng/mL<br><br><u>Pregnancy</u><br>First trimester 4.73- 50.74 ng/mL<br>Second trimester 19.41- 45.30 ng/mL                                                                         | 0.10- 0.84 ng/mL                                            |
| <b>PROLACTIN (CDH/HealthLab)</b>                        | All     | 4.79- 23.3 ng/mL                                                                                                                                                                                                                                                                                                           | 4.04- 15.2 ng/mL                                            |
| <b>PROLACTIN (NMH)</b>                                  | All     | 2.3- 26.7 ng/mL                                                                                                                                                                                                                                                                                                            | 2.6- 13.1 ng/mL                                             |
| <b>SEX HORMONE BINDING GLOBULIN</b>                     | Varies  | <u>Age(y)</u> <u>Range (nmol/L)</u><br>20- 46    18.2- 135.5<br>>46    16.8- 125.2                                                                                                                                                                                                                                         | <u>Age(y)</u> <u>Range (nmol/L)</u><br>20- 46    13.3- 89.5 |
| <b>TESTOSTERONE, TOTAL</b>                              | All     | 0- 100 ng/dl                                                                                                                                                                                                                                                                                                               | 200- 800 ng/dL                                              |
| <b>TROPONIN I, HIGH SENSITIVITY</b>                     | >21     | <= 15 pg/mL                                                                                                                                                                                                                                                                                                                | <= 20 pg/mL                                                 |
| <b>TROPONIN I, HIGH SENSITIVITY (Huntley/Woodstock)</b> | All     | 0- 51 pg/mL                                                                                                                                                                                                                                                                                                                | 0- 76 pg/mL                                                 |
| <b>URIC ACID</b>                                        | All     | 2.3- 6.6 mg/dL                                                                                                                                                                                                                                                                                                             | 4.4- 7.6 mg/dL                                              |



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| Test Name                                         | Age (y) | Female Reference Range          | Male Reference Range            |
|---------------------------------------------------|---------|---------------------------------|---------------------------------|
| <b>HEMATOLOGY</b>                                 |         |                                 |                                 |
| HEMATOCRIT (HCT)                                  | >=18    | 34.0- 45.0%                     | 38.0- 50.0%                     |
| HEMOGLOBIN (HGB)                                  | >=18    | 11.6- 15.4g/dL                  | 13.0- 17.5g/dL                  |
| RED BLOOD CELL COUNT                              | >=18    | 3.8- 5.20 x 10 <sup>6</sup> /μL | 4.30- 5.8 x 10 <sup>6</sup> /μL |
| ERYTHROCYTE SEDIMENTATION RATE<br>(CDH/HealthLab) | 0-50    | 0- 20 mm/h                      | 0- 15 mm/h                      |
|                                                   | >50     | 0- 30 mm/h                      | 0- 20 mm/h                      |
| ERYTHROCYTE SEDIMENTATION RATE<br>(NMH)           | >18     | 4- 25 mm                        | 3-1 0 mm                        |
| <b>HEMOSTASIS</b>                                 |         |                                 |                                 |
| PROTEIN S ANTIGEN, FREE                           | All     | 54.0- 124.0 %                   | 74.0- 146.0 %                   |