

| <u>Test Name</u> | <u>Gender</u> | <u>Age</u> | <u>Normal Range</u> |
|------------------|---------------|------------|---------------------|
|------------------|---------------|------------|---------------------|

The reference ranges for patients of unspecified gender encompass all normal values for a person of that age. For some analytes, the specific male or female reference range may be narrower. Please reference the table below for age and gender specific ranges.

Last Updated 11/20/2018

|         |                      |                 |                 |
|---------|----------------------|-----------------|-----------------|
| Albumin | Male                 | 0 min-3 days    | 2.80-4.40 gm/dL |
|         | Male                 | 4 days-15 years | 3.80-5.40       |
|         | Male                 | 16-20 years     | 4.20-5.30       |
|         | Male                 | 21-30 years     | 4.30-5.20       |
|         | Male                 | 31-35 years     | 4.20-5.20       |
|         | Male                 | 36-45 years     | 4.20-5.10       |
|         | Male                 | 46-55 years     | 4.10-5.00       |
|         | Male                 | 56-60 years     | 4.00-5.00       |
|         | Male                 | 61-65 years     | 4.00-4.90       |
|         | Male                 | 66-75 years     | 3.90-4.90       |
|         | Male                 | 76-80 years     | 3.80-4.80       |
|         | Male                 | 81-150 years    | 3.70-4.80       |
|         | Female               | 0 min-3 days    | 2.80-4.40 gm/dL |
|         | Female               | 4 days-15 years | 3.80-5.40       |
|         | Female               | 16-30 years     | 4.00-5.10       |
|         | Female               | 31-40 years     | 3.90-5.00       |
|         | Female               | 41-60 years     | 3.90-4.90       |
|         | Female               | 61-80 years     | 3.80-4.80       |
|         | Female               | 81-150years     | 3.70-4.70       |
|         | Alkaline Phosphatase | Male            | 0-<1 years      |
| Male    |                      | 1-9 years       | 88-264          |
| Male    |                      | 10-12 years     | 88-308          |
| Male    |                      | 13-15 years     | 88-396          |
| Male    |                      | 16-20 years     | 53-238          |
| Male    |                      | 21-25 years     | 38-123          |
| Male    |                      | 26-50 years     | 38-114          |
| Male    |                      | 51-60 years     | 38-119          |
| Male    |                      | 61-65 years     | 43-119          |
| Male    |                      | 66-75 years     | 43-123          |
| Male    |                      | 76-80 years     | 43-132          |
| Male    |                      | 81-150years     | 43-136          |
| Female  |                      | 0-<1 years      | 132-440         |
| Female  |                      | 1-9 years       | 88-308          |
| Female  |                      | 10-12 years     | 88-352          |
| Female  |                      | 13-15 years     | 44-264          |
| Female  |                      | 16-20 years     | 44-119          |
| Female  |                      | 21-40 years     | 28-110          |
| Female  |                      | 41-45 years     | 28-114          |
| Female  |                      | 46-50 years     | 28-119          |
| Female  |                      | 51-60 years     | 28-123          |
| Female  |                      | 61-75 years     | 40-123          |
| Female  |                      | 76-80 years     | 40-128          |
| Female  |                      | 81-150years     | 40-132          |

| <u>Test Name</u>                | <u>Gender</u> | <u>Age</u>        | <u>Normal Range</u> |
|---------------------------------|---------------|-------------------|---------------------|
| ALT (SGPT)                      | Male          | 0-15 years        | 0-40 U/L            |
|                                 | Male          | 16-20 years       | 0-50                |
|                                 | Male          | 21-25 years       | 0-60                |
|                                 | Male          | 26-40 years       | 0-65                |
|                                 | Male          | 41-50 years       | 0-60                |
|                                 | Male          | 51-55 years       | 0-55                |
|                                 | Male          | 56-60 years       | 0-50                |
|                                 | Male          | 61-65 years       | 0-45                |
|                                 | Male          | 66-80 years       | 0-40                |
|                                 | Male          | 81-150years       | 0-35                |
|                                 | Female        | 0-60 years        | 0-40                |
|                                 | Female        | 61-70 years       | 0-35                |
|                                 | Female        | 71-150 years      | 0-30                |
|                                 | ASO           | Male & Female     | 0-11 years          |
| Male & Female                   |               | 12-17 years       | 0-160               |
| Male & Female                   |               | 18-150 years      | 0-120               |
| AST                             | Male          | 0-<1 years        | 10-100              |
|                                 | Male          | 1-2 years         | 5-80.               |
|                                 | Male          | 3-8 years         | 0-60                |
|                                 | Male          | 9-15 years        | 0-50                |
|                                 | Male          | 16-30 years       | 0-45                |
|                                 | Male          | 31-45 years       | 0-50                |
|                                 | Male          | 46-50 years       | 0-45                |
|                                 | Male          | 51-150 years      | 0-40                |
|                                 | Female        | 0-<1 years        | 10-100              |
|                                 | Female        | 1-2 years         | 5-80                |
|                                 | Female        | 3-8 years         | 0-60                |
|                                 | Female        | 9-15 years        | 0-50                |
|                                 | Female        | 16-25 years       | 0-35                |
|                                 | Female        | 26-150 years      | 0-40                |
| Bicarbonate (HCO <sub>3</sub> ) | Male & Female | 0-4 years         | 15-25 MMOL/L        |
|                                 | Male & Female | 5-150 years       | 18-30               |
| Bilirubin, Direct               | Male & Female | 0-15 years        | 0.00-0.40 mg/dL     |
|                                 | Male          | 16-150years       | 0.00-0.30 mg/dL     |
|                                 | Female        | 16-150 years      | 0.00-0.20 mg/dL     |
| Bilirubin, Total                | Male & Female | 0-<1day           | 2.00-6.00 mg/dL     |
|                                 | Male & Female | 1 days            | 3.00-10.00          |
|                                 | Male & Female | 2-4 days          | 4.00-12.00          |
|                                 | Male & Female | 5 days-<2 months  | 1.00-6.00           |
|                                 | Male & Female | 2 months-15 years | 0.10-1.20           |
|                                 | Male          | 16-30 years       | 0.10-1.50           |
|                                 | Female        | 16-30 years       | 0.10-1.50           |
|                                 | Male          | 31-50 years       | 0.10-1.40           |
|                                 | Female        | 31-50 years       | 0.10-1.40           |
|                                 | Male          | 51-150 years      | 0.10-1.30           |

| <u>Test Name</u>             | <u>Gender</u> | <u>Age</u>       | <u>Normal Range</u> |
|------------------------------|---------------|------------------|---------------------|
| Bilirubin, Total (continued) | Female        | 51-150 years     | 0.10-1.30           |
| BUN (Blood Urea Nitrogen)    | Male          | 0-20 years       | 5.00-20.00 mg/dL    |
|                              | Male          | 21-35 years      | 5.00-21.00          |
|                              | Male          | 36-40 years      | 5.00-22.00          |
|                              | Male          | 41-55 years      | 5.00-23.00          |
|                              | Male          | 56-70 years      | 5.00-25.00          |
|                              | Male          | 71-75 years      | 5.00-26.00          |
|                              | Male          | 76-80 years      | 5.00-28.00          |
|                              | Male          | 81-150years      | 5.00-30.00          |
|                              | Female        | 0-15 years       | 5.00-20.00          |
|                              | Female        | 16-25 years      | 5.00-17.00          |
|                              | Female        | 26-35 years      | 5.00-18.00          |
|                              | Female        | 36-45 years      | 5.00-19.00          |
|                              | Female        | 46-50 years      | 5.00-20.00          |
|                              | Female        | 51-60 years      | 5.00-22.00          |
|                              | Female        | 61-75 years      | 5.00-24.00          |
|                              | Female        | 76-80 years      | 5.00-26.00          |
|                              | Female        | 81-150years      | 5.00-28.00          |
|                              | Calcium       | Male & Female    | 0-<1month           |
| Male & Female                |               | 1 month - 150yrs | 8.50-10.50          |
| Carotene                     | Male & Female | 0-<9 months      | 0 ug/dL             |
|                              | Male & Female | 9 months-5 years | 5.00-80.00          |
|                              | Male & Female | 6-16 years       | 9.00-190.00         |
|                              | Male & Female | 17-150yrs        | 6.00-77.00          |
| Complement, C3               | Male & Female | 0-<1 day         | 59-121 mg/dL        |
|                              | Male & Female | 1 day-<1 month   | 54-129              |
|                              | Male & Female | 1-<2 months      | 61-154              |
|                              | Male & Female | 2-<3 months      | 66-136              |
|                              | Male & Female | 3-<4 months      | 64-182              |
|                              | Male & Female | 4-<5 months      | 66-174              |
|                              | Male & Female | 5-<6months       | 77-178              |
|                              | Male & Female | 6-<9months       | 78-173              |
|                              | Male & Female | 9 months-<1 year | 76-187              |
|                              | Male & Female | 1 year           | 87-181              |
|                              | Male & Female | 2 years          | 84-177              |
|                              | Male & Female | 3 years          | 80-178              |
|                              | Male & Female | 4-5 years        | 89-173              |
|                              | Male & Female | 6-7 years        | 91-161              |
|                              | Male & Female | 8-9 years        | 92-203              |
|                              | Male & Female | 10-150 years     | 73-183              |
| Coproporphyrin, Random Urine | Male & Female | 0-<1 years       | 0 ug/G              |
|                              | Male & Female | 1-10 years       | 10.10-254.70        |
|                              | Male & Female | 11-17 years      | 11.80-107.20        |
|                              | Male & Female | 18-150 years     | 23.00-130.00        |

| <u>Test Name</u>     | <u>Gender</u> | <u>Age</u>     | <u>Normal Range</u> |                |
|----------------------|---------------|----------------|---------------------|----------------|
| Cortisol, AM         | Male & Female | 2-15 days      | 0.5-12.3 ug/dL      |                |
|                      | Male & Female | 15 days-1 year | 0.5-16.6            |                |
|                      | Male & Female | 1-9 years      | 1.7-10.8            |                |
|                      | Male & Female | 9-14 years     | 2.2-12.7            |                |
|                      | Male & Female | 14-17 years    | 2.8-16.4            |                |
|                      | Male & Female | 17-19 years    | 3.5-18.3            |                |
|                      | Male & Female | 19-150 years   | 3.7-19.4            |                |
|                      | Cortisol, PM  | Male & Female  | 2-15 days           | 0.5-12.3 ug/dL |
| Male & Female        |               | 15 days-1 year | 0.5-16.6            |                |
| Male & Female        |               | 1-9 years      | 1.7-10.8            |                |
| Male & Female        |               | 9-14 years     | 2.2-12.7            |                |
| Male & Female        |               | 14-17 years    | 2.8-16.4            |                |
| Male & Female        |               | 17-19 years    | 3.5-18.3            |                |
| Male & Female        |               | 19-150 years   | 2.9-17.3            |                |
| Cortisol, Free Urine |               | Male & Female  | 0-<1 years          | 0.00 ug/day    |
|                      | Male & Female | 1-4 years      | 0.90-8.20           |                |
|                      | Male & Female | 5-9 years      | 1.00-30.00          |                |
|                      | Male & Female | 10-13 years    | 1.00-45.00          |                |
|                      | Male & Female | 14-17 years    | 3.00-55.00          |                |
|                      | Male & Female | 18-150years    | 4.00-50.00          |                |
|                      | Creatinine    | Male           | 0-<1 years          | 0.30-0.60mg/dl |
| Male                 |               | 1-9 years      | 0.40-1.00           |                |
| Male                 |               | 10-15 years    | 0.50-1.40           |                |
| Male                 |               | 16-20 years    | 0.50-1.20           |                |
| Male                 |               | 21-45 years    | 0.50-1.30           |                |
| Male                 |               | 46-60 years    | 0.50-1.40           |                |
| Male                 |               | 61-70 years    | 0.50-1.50           |                |
| Male                 |               | 71-80 years    | 0.50-1.70           |                |
| Male                 |               | 81-150 years   | 0.50-1.80           |                |
| Female               |               | 0-<1 years     | 0.30-0.60           |                |
| Female               |               | 1-9 years      | 0.40-1.00           |                |
| Female               |               | 10-15 years    | 0.50-1.30           |                |
| Female               |               | 16-20 years    | 0.50-1.00           |                |
| Female               |               | 21-45 years    | 0.50-1.10           |                |
| Female               |               | 46-60 years    | 0.50-1.20           |                |
| Female               |               | 61-70 years    | 0.50-1.30           |                |
| Female               |               | 71-80 years    | 0.50-1.40           |                |
| Female               |               | 81-150 years   | 0.50-1.50           |                |
| Digoxin              |               | Male & Female  | 0-<1 years          | 0.8-3.5 ng/mL  |
|                      |               | Male & Female  | 1-12 years          | 0.8-3.0        |
|                      | Male & Female | 13-150 years   | 0.8-2.0             |                |

| <u>Test Name</u> | <u>Gender</u> | <u>Age</u>          | <u>Normal Range</u> |
|------------------|---------------|---------------------|---------------------|
| Fecal Fat, Quant | Male & Female | 0-5 years           | 0-2.00 grams        |
|                  | Male & Female | 6-150 years         | 0-7.00 grams        |
| Ferritin         | Male & Female | 4-15 days           | 100-717 ng/mL       |
|                  | Male & Female | 15 days-2 months    | 14-647              |
|                  | Male & Female | 2 months – 12 years | 32-277              |
|                  | Male          | 13-150 years        | 32-356              |
|                  | Female        | 13-150 years        | 20-177              |
| GGT              | Male & Female | 0-6 days            | 0.00-200.00 U/L     |
|                  | Male & Female | 1 week-<1 year      | 0.00-100.00         |
|                  | Male          | 1-150 years         | 0.00-65.00          |
|                  | Female        | 1-150 years         | 0.00-45.00          |
| Glucose, Fasting | Male & Female | 0- 6 days           | 40.00-60.00 mg/dL   |
|                  | Male & Female | 1week-150 years     | 70.00-100.00        |
| Haptoglobin      | Male & Female | 0-<6 months         | 0.00-100.00 mg/dL   |
|                  | Male & Female | 6months-150years    | 37.00-184.00        |
| Hematocrit       | Male          | 0-13 days           | 40.00-72.00 %       |
|                  | Male          | 2 weeks-<1 month    | 32.00-55.00         |
|                  | Male          | 1-<3 months         | 30.00-54.00         |
|                  | Male          | 3-<5 months         | 28.00-40.50         |
|                  | Male          | 6 months-<1 year    | 30.00-42.00         |
|                  | Male          | 1-3 years           | 30.00-44.00         |
|                  | Male          | 4-7 years           | 30.00-46.00         |
|                  | Male          | 8-11 years          | 32.00-48.00         |
|                  | Male          | 12-13 years         | 34.50-52.00         |
|                  | Male          | 14-15 years         | 37.00-52.00         |
|                  | Male          | 16-20 years         | 40.00-50.30         |
|                  | Male          | 21-30 years         | 40.90-50.80         |
|                  | Male          | 31-40 years         | 40.70-50.80         |
|                  | Male          | 41-50 years         | 40.20-50.80         |
|                  | Male          | 51-60 years         | 39.50-51.10         |
|                  | Male          | 61-150years         | 38.30-51.20         |
|                  | Female        | 0-13 days           | 40.00-72.00         |
|                  | Female        | 2 weeks-<1 month    | 32.00-55.00         |
|                  | Female        | 1-<2 months         | 30.00-54.00         |
|                  | Female        | 3-<6 months         | 28.00-40.50         |
|                  | Female        | 6 months-<1 year    | 30.00-42.00         |
|                  | Female        | 1-3 years           | 30.00-44.00         |
|                  | Female        | 4-7 years           | 30.00-46.00         |
|                  | Female        | 8-11 years          | 32.00-48.00         |
|                  | Female        | 12-15 years         | 34.50-47.00         |
|                  | Female        | 16-20 years         | 33.90-45.10         |
|                  | Female        | 21-30 years         | 33.90-45.50         |
|                  | Female        | 31-40 years         | 35.00-46.10         |
| Female           | 41-50 years   | 35.80-46.90         |                     |

| <u>Test Name</u>       | <u>Gender</u> | <u>Age</u>       | <u>Normal Range</u> |
|------------------------|---------------|------------------|---------------------|
| Hematocrit (continued) | Female        | 51-60 years      | 36.40-47.70         |
|                        | Female        | 61-150years      | 35.70-47.80         |
| Hemoglobin             | Male          | 0-13 days        | 14.00-23.00 gm/dL   |
|                        | Male          | 2 weeks-<1 month | 11.00-18.00         |
|                        | Male          | 1-<2 months      | 9.80-17.80          |
|                        | Male          | 3-<5 months      | 9.60-13.40          |
|                        | Male          | 6 months-<1 year | 10.20-13.80         |
|                        | Male          | 1-3 years        | 10.20-14.40         |
|                        | Male          | 4-7 years        | 10.50-15.10         |
|                        | Male          | 8-11 years       | 10.90-15.80         |
|                        | Male          | 12-13 years      | 11.50-16.50         |
|                        | Male          | 14-15 years      | 12.40-17.10         |
|                        | Male          | 16-20 years      | 13.40-17.30         |
|                        | Male          | 21-30 years      | 13.80-17.40         |
|                        | Male          | 31-40 years      | 13.60-17.40         |
|                        | Male          | 41-50 years      | 13.40-17.40         |
|                        | Male          | 51-60 years      | 13.10-17.30         |
|                        | Male          | 61-150 years     | 12.50-17.30         |
|                        | Female        | 0-13 days        | 14.00-23.00         |
|                        | Female        | 2 weeks-<1 month | 11.00-18.00         |
|                        | Female        | 1-<2 months      | 9.80-17.80          |
|                        | Female        | 3-<5 months      | 9.60-13.40          |
|                        | Female        | 6 months-<1 year | 10.20-13.80         |
|                        | Female        | 1-3 years        | 10.20-14.40         |
|                        | Female        | 4-7 years        | 10.50-15.10         |
|                        | Female        | 8-11 years       | 10.90-15.80         |
|                        | Female        | 12-15 years      | 11.50-16.00         |
|                        | Female        | 16-20 years      | 11.20-15.20         |
|                        | Female        | 21-30 years      | 11.20-15.30         |
|                        | Female        | 31-40 years      | 11.40-15.50         |
|                        | Female        | 41-50 years      | 11.60-15.70         |
|                        | Female        | 51-60 years      | 11.80-15.90         |
|                        | Female        | 61-150 years     | 11.60-15.90         |
|                        | LDH           | Male & Female    | 0-1 day             |
| 2 day -1 month         |               |                  | 400-800             |
| 1month-2years          |               |                  | 200-500             |
| 3-4years               |               |                  | 100-350             |
| 5-150 years            |               |                  | 100-250             |
| MCH                    | Male          | 0-13days         | 30.00-39.50 pg      |
|                        | Male          | 2weeks-<1month   | 28.00-35.00         |
|                        | Male          | 1month-15years   | 25.00-34.00         |
|                        | Male          | 16-20years       | 26.90-32.50         |
|                        | Male          | 21-30years       | 27.20-32.70         |
|                        | Male          | 31-40years       | 27.30-33.10         |
|                        | Male          | 41-50years       | 27.50-33.50         |
|                        | Male          | 51-150years      | 27.60-33.80         |
|                        | Female        | 0-13days         | 30.00-39.50         |

| <u>Test Name</u> | <u>Gender</u> | <u>Age</u>     | <u>Normal Range</u> |
|------------------|---------------|----------------|---------------------|
| MCH (continued)  | Female        | 2weeks-<1month | 28.00-35.00         |
|                  | Female        | 1month-15years | 25.00-34.00         |
|                  | Female        | 16-20years     | 25.80-32.40         |
|                  | Female        | 21-30years     | 26.00-32.60         |
|                  | Female        | 31-40years     | 26.00-33.00         |
|                  | Female        | 41-50years     | 26.10-33.30         |
|                  | Female        | 51-60years     | 26.70-33.20         |
|                  | Female        | 61-150years    | 26.80-33.30         |
| MCHC             | Male          | 0-15years      | 32.30-36.50 gm/dL   |
|                  | Male          | 16-30years     | 32.10-35.90         |
|                  | Male          | 31-40years     | 32.00-35.90         |
|                  | Male          | 41-50years     | 31.90-35.70         |
|                  | Male          | 51-60years     | 31.80-35.70         |
|                  | Male          | 61-150years    | 31.60-35.50         |
|                  | Female        | 0-15years      | 32.30-36.50         |
|                  | Female        | 16-30years     | 31.30-35.30         |
|                  | Female        | 31-40years     | 31.20-35.00         |
|                  | Female        | 41-50years     | 31.00-34.90         |
|                  | Female        | 51-60years     | 31.00-34.80         |
|                  | Female        | 61-150years    | 30.90-34.70         |
|                  | MCV           | Male           | 0-13days            |
| Male             |               | 2weeks-<1month | 86.00-106.00        |
| Male             |               | 1-<3months     | 77.00-103.00        |
| Male             |               | 3-<6months     | 73.00-92.00         |
| Male             |               | 6months-<1year | 73.00-87.00         |
| Male             |               | 1-3years       | 73.00-90.00         |
| Male             |               | 4-7years       | 75.00-92.00         |
| Male             |               | 8-11years      | 76.00-93.00         |
| Male             |               | 12-15years     | 78.00-97.00         |
| Male             |               | 16-20years     | 81.00-95.20         |
| Male             |               | 21-30years     | 81.50-95.80         |
| Male             |               | 31-40years     | 81.60-96.80         |
| Male             |               | 41-50years     | 82.50-98.50         |
| Male             |               | 51-60years     | 83.30-99.60         |
| Male             |               | 61-150years    | 83.70-99.80         |
| Female           |               | 0-13days       | 91.00-120.00        |
| Female           |               | 2weeks-<1month | 86.00-106.00        |
| Female           |               | 1-<3months     | 77.00-103.00        |
| Female           |               | 3-<6months     | 73.00-92.00         |
| Female           |               | 6months-<1year | 73.00-87.00         |
| Female           |               | 1-3years       | 73.00-90.00         |
| Female           |               | 4-7years       | 75.00-92.00         |
| Female           |               | 8-11years      | 76.00-93.00         |
| Female           |               | 12-15years     | 78.00-97.00         |
| Female           |               | 16-20years     | 80.10-96.10         |
| Female           |               | 21-30years     | 80.30-97.30         |
| Female           |               | 31-40years     | 80.90-98.70         |
| Female           |               | 41-50years     | 81.70-100.00        |

| <u>Test Name</u> | <u>Gender</u> | <u>Age</u>     | <u>Normal Range</u>              |
|------------------|---------------|----------------|----------------------------------|
| MCV (continued)  | Female        | 51-60years     | 82.80-99.80                      |
|                  | Female        | 61-150years    | 83.20-100.50                     |
| MPV              | Male & Female | 0-150 years    | 9.30-12.90 fL                    |
| Platelet Count   | Male          | 0-15years      | 150.00-480.00 10 <sup>9</sup> /L |
|                  | Male          | 16-20years     | 159.00-359.00                    |
|                  | Male          | 21-30years     | 161.00-361.00                    |
|                  | Male          | 31-40years     | 156.00-365.00                    |
|                  | Male          | 41-50years     | 156.00-367.00                    |
|                  | Male          | 51-60years     | 150.00-360.00                    |
|                  | Male          | 61-150years    | 146.00-367.00                    |
|                  | Female        | 0-15years      | 150.00-480.00                    |
|                  | Female        | 16-20years     | 174.00-404.00                    |
|                  | Female        | 21-30years     | 172.00-411.00                    |
|                  | Female        | 31-40years     | 177.00-419.00                    |
|                  | Female        | 41-50years     | 180.00-427.00                    |
|                  | Female        | 51-60years     | 177.00-414.00                    |
|                  | Female        | 61-150years    | 170.00-422.00                    |
| RBC              | Male          | 0-13days       | 4.00-6.00 X 10 <sup>12</sup> /L  |
|                  | Male          | 2weeks-<1month | 3.85-5.30                        |
|                  | Male          | 1-<3months     | 3.80-5.10                        |
|                  | Male          | 3-<6months     | 3.75-4.80                        |
|                  | Male          | 6months-<1year | 3.75-4.90                        |
|                  | Male          | 1-3years       | 3.85-5.00                        |
|                  | Male          | 4-7years       | 4.05-5.17                        |
|                  | Male          | 8-11years      | 4.20-5.25                        |
|                  | Male          | 12-13years     | 4.25-5.45                        |
|                  | Male          | 14-15years     | 4.30-5.45                        |
|                  | Male          | 16-20years     | 4.56-5.74                        |
|                  | Male          | 21-30years     | 4.57-5.78                        |
|                  | Male          | 31-40years     | 4.53-5.73                        |
|                  | Male          | 41-50years     | 4.44-5.67                        |
|                  | Male          | 51-60years     | 4.39-5.64                        |
|                  | Male          | 61-150years    | 4.34-5.61                        |
|                  | Female        | 0-13days       | 4.00-6.00                        |
|                  | Female        | 2weeks-<1month | 3.85-5.30                        |
|                  | Female        | 1-<3months     | 3.80-5.10                        |
|                  | Female        | 3-<6months     | 3.75-4.80                        |
|                  | Female        | 6months-<1year | 3.75-4.90                        |
|                  | Female        | 1-3years       | 3.85-5.00                        |
|                  | Female        | 4-7years       | 4.05-5.17                        |
|                  | Female        | 8-11years      | 4.20-5.25                        |
|                  | Female        | 12-15years     | 3.79-5.25                        |
|                  | Female        | 16-20years     | 3.92-5.13                        |
|                  | Female        | 21-30years     | 3.90-5.13                        |
|                  | Female        | 31-40years     | 3.94-5.13                        |
| Female           | 41-51years    | 3.95-5.16      |                                  |
| Female           | 51-60years    | 3.97-5.19      |                                  |



| <u>Test Name</u>     | <u>Gender</u> | <u>Age</u>       | <u>Normal Range</u> |
|----------------------|---------------|------------------|---------------------|
| RBC (continued)      | Female        | 61-150years      | 3.93-5.19           |
| RDW                  | Male          | 0-<3months       | 11.00-19.00 %       |
|                      | Male          | 3months-15years  | 11.00-16.00         |
|                      | Male          | 16-20years       | 11.90-13.90         |
|                      | Male          | 21-30years       | 11.90-14.10         |
|                      | Male          | 31-40years       | 12.00-14.20         |
|                      | Male          | 41-50years       | 12.10-14.50         |
|                      | Male          | 51-60years       | 12.10-14.70         |
|                      | Male          | 61-150years      | 12.20-15.00         |
|                      | Female        | 0-<3months       | 11.00-19.00         |
|                      | Female        | 3months-15years  | 11.00-16.00         |
|                      | Female        | 16-20years       | 11.80-14.80         |
|                      | Female        | 21-30years       | 11.90-14.80         |
|                      | Female        | 31-40years       | 12.00-14.90         |
|                      | Female        | 41-50years       | 12.10-15.20         |
|                      | Female        | 51-60years       | 12.20-15.10         |
|                      | Female        | 61-150years      | 12.20-15.30         |
|                      | WBC           | Male             | 0-<2years           |
| Male                 |               | 2-60years        | 6.00-14.50          |
| Male                 |               | 7-150years       | 4.30-11.00          |
| Female               |               | 0-<2years        | 6.00-17.50          |
| Female               |               | 2-6years         | 6.00-14.50          |
| Female               |               | 7-150years       | 4.30-11.00          |
| Osmolality, Serum    | Male & Female | 0-6days          | 265-295 mOsm/kg     |
|                      | Male & Female | 1week-59years    | 275-295             |
|                      | Male & Female | 60-150years      | 280-300             |
| Potassium (K), Serum | Male & Female |                  |                     |
|                      | Male & Female | 0 min -1year     | 3.50-6.00           |
|                      | Male & Female | 1-150years       | 3.50-5.50           |
| Prolactin            | Male          |                  | 2.1-17.7 ng/ml      |
|                      | Female        | Non-Pregnant     | 2.8-29.2            |
|                      | Female        | Pregant          | 9.7-208.5           |
|                      | Female        | Post-Menopausal  | 1.8-20.3            |
| Protein, CSF         | Male & Female | 0-<1month        | 20-170 mg/dL        |
|                      | Male & Female | 1-<3months       | 20-100              |
|                      | Male & Female | 3-<6months       | 15-50               |
|                      | Male & Female | 6months-150years | 15-45               |
| Protein Total, Serum | Male          | 0-<1month        | 4.50-7.00 gm/dL     |
|                      | Male          | 1month-2years    | 5.50-7.50           |
|                      | Male          | 3-15years        | 6.00-8.40           |
|                      | Male          | 16-35years       | 6.70-8.40           |
|                      | Male          | 36-40years       | 6.70-8.30           |

| <u>Test Name</u>                    | <u>Gender</u> | <u>Age</u>       | <u>Normal Range</u> |
|-------------------------------------|---------------|------------------|---------------------|
| Protein Total, Serum<br>(continued) | Male          | 41-45years       | 6.70-8.20           |
|                                     | Male          | 46-55years       | 6.60-8.20           |
|                                     | Male          | 56-70years       | 6.50-8.20           |
|                                     | Male          | 71-75years       | 6.40-8.10           |
|                                     | Male          | 76-80years       | 6.30-8.10           |
|                                     | Male          | 81-150years      | 6.10-8.10           |
|                                     | Female        | 0-<1month        | 4.50-7.00           |
|                                     | Female        | 1month-<2years   | 5.50-7.50           |
|                                     | Female        | 1-15years        | 6.00-8.40           |
|                                     | Female        | 16-35years       | 6.70-8.30           |
|                                     | Female        | 36-40years       | 6.60-8.30           |
|                                     | Female        | 41-45years       | 6.60-8.20           |
|                                     | Female        | 46-65years       | 6.50-8.20           |
|                                     | Female        | 66-75years       | 6.40-8.20           |
|                                     | Female        | 76-80years       | 6.30-8.20           |
|                                     | Female        | 81-150years      | 6.10-8.20           |
|                                     | Retic count   | Male & Female    | 0-<2weeks           |
| 2weeks-150years                     |               |                  | 24-90               |
| Sodium (Na), Serum                  | Male & Female | 0-<1 months      | 135-145 mmol/L      |
|                                     | Male & Female | 1 month-<3months | 133-145             |
|                                     | Male & Female | 3months-11years  | 138-145             |
|                                     | Male & Female | 12-150years      | 135-145             |
| T4                                  | Male & Female | 0-<1week         | 9.00-26.00 ug/dL    |
|                                     | Male & Female | 1week-<1month    | 8.00-20.00          |
|                                     | Male & Female | 1month-<1year    | 7.00-17.00          |
|                                     | Male & Female | 1-4years         | 5.00-13.00          |
|                                     | Male & Female | 5-150years       | 5.50-12.00          |
| Triglycerides                       | Male & Female | 0-9years         | 30-100 mg/dL        |
|                                     | Male & Female | 10-14years       | 30-125              |
|                                     | Male & Female | 15-19years       | 35-150              |
|                                     | Male & Female | 20-150years      | 30-150              |
| TSH                                 | Male          | 0-<1month        | 0.76-16.11 uI/L/mL  |
|                                     | Male          | 1month-4years    | 0.80-7.52           |
|                                     | Male          | 5-15years        | 0.61-6.39           |
|                                     | Male          | 16-150years      | 0.30-5.00           |
|                                     | Female        | 0-<1month        | 0.96-13.68          |
|                                     | Female        | 1month-4years    | 0.70-8.55           |
|                                     | Female        | 5-15years        | 0.60-6.18           |
|                                     | Female        | 16-150years      | 0.30-5.00           |