

## CAMC Laboratories Reference Ranges

[illegible]

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| Therapeutic Drugs | Units  | 0-101 Years | 0-4 Months |
|-------------------|--------|-------------|------------|
| Theophylline      | mg/L   | 10-20       | 6-11       |
| Phenytoin         | mg/L   | 10-20       |            |
| Phenobarbital     | mg/L   | 15-40       |            |
| Digoxin           | ng/mL  | 0.9-2.2     |            |
| Valproic Acid     | mg/L   | 50-100      |            |
| Lidocaine         | mcg/mL | 2.0-4.0     |            |
| Carbamazepine     | mg/L   | 4-12        |            |
| Random Gentamicin | mg/L   | 1-8         |            |
| Peak Gentamicin   | mg/L   | 5-8         |            |
| Trough Gentamicin | mg/L   | 1-1.9       |            |

\*\* Note: Pediatric ranges for Lipase taken from published date: *Pediatric Reference Intervals*, 5th Ed., edited by Soldin, Brugnara and Wong.

# Chemistry normal reference ranges listed are established from data collected by and indirect sampling of appropriate age group populations in our geographical area. In a few instances reference ranges from published literature are used due to the lack of data for the particular analyte or due to patient bias. Ranges taken from published data are noted with a #.

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| CBC Parameters            | WBC                   | RBC                   | HGB       | HCT       | MCV    | MCH       | MCHC      | RDW       | PLTS                  | MPV      | Lymphs | Monos (Manual) | Monos (Auto) | Segs (Manual) | Segs (Auto) | Bands | Eos | Basos |
|---------------------------|-----------------------|-----------------------|-----------|-----------|--------|-----------|-----------|-----------|-----------------------|----------|--------|----------------|--------------|---------------|-------------|-------|-----|-------|
|                           | x10 <sup>3</sup> /mCL | x10 <sup>6</sup> /mCL | g/dL      | %         | fL     | pg        | g/dL      | %         | x10 <sup>3</sup> /mCL | fL       | %      | %              | %            | %             | %           | %     | %   | %     |
| Adult Male >18 years      | 4.8-10.8              | 4.40-6.20             | 14.0-16.0 | 41.0-53.0 | 80-100 | 27-32     | 32-36     | 12-15     | 140-450               | 6.6-9.3  | 20-35  | 0-13           | 0-8          | 50-70         | 50-78       | 0-8   | 0-4 | 0-2   |
| Adult Female >18 years    | 4.8-10.8              | 4.20-5.40             | 12.0-15.0 | 36.0-47.0 | 80-100 | 27-32     | 32-36     | 12-15     | 140-450               | 6.6-9.3  | 20-35  | 0-13           | 0-8          | 50-70         | 50-78       | 0-8   | 0-4 | 0-2   |
| Male >10-18 years         | 3.9-11.6              | 3.69-5.73             | 11.8-15.7 | 35.6-45.6 | 78-98  | 25.5-32.9 | 31.8-35.8 | 10.7-14.1 | 125-365               | 6.6-9.3  | 4-51   | 3-15           | 3-15         | 33-89         | 33-97       | 0-8   | 0-6 | 0-2   |
| Female >10-18 years       | 3.9-12.7              | 3.64-5.36             | 11.2-15.5 | 32.9-46.2 | 78-98  | 25.8-33.7 | 32.0-35.4 | 10.7-13.9 | 126-404               | 6.6-10.1 | 8-49   | 3-13           | 3-13         | 38-84         | 38-92       | 0-8   | 0-6 | 0-2   |
| Male/Female >2-10 years   | 4.2-13.2              | 3.96-5.36             | 11.2-14.7 | 34.0-43.8 | 76-90  | 25.1-30.7 | 32.3-34.8 | 10.7-14.0 | 163-461               | 6.4-9.2  | 7-55   | 3-15           | 3-15         | 32-83         | 32-91       | 0-8   | 0-7 | 0-4   |
| Male/Female >1 mo - 2 yrs | 4.3-15.2              | 3.70-5.42             | 10.5-14.1 | 31.5-42.4 | 72-91  | 23.4-30.6 | 31.8-34.6 | 10.3-16.2 | 188-506               | 6.1-9.0  | 10-67  | 5-16           | 5-16         | 19-79         | 19-87       | 0-8   | 0-5 | 0-3   |
| Male/Female >0-1 month    | 6.1-24.5              | 3.56-6.20             | 13.0-22.2 | 37.8-66.6 | 97-117 | 32.6-39.6 | 32.4-35.1 | 13.8-18.6 | 137-475               | 6.7-9.6  | 12-62  | 2-16           | 2-16         | 24-74         | 24-82       | 0-8   | 0-8 | 0-3   |

| Arterial Blood Gases | pH        | pCO2 mm/HG | PO2 mm/HG | O2 Sat % |
|----------------------|-----------|------------|-----------|----------|
| Male                 | 7.35-7.45 | 35-48      | 83-108    | 95-97    |
| Female               | 7.35-7.45 | 32-45      | 83-108    | 95-97    |
| Venous               | 7.32-7.45 | 38-54      | 25-40     | 60-80    |

## CAMC Laboratories Reference Ranges

| Urinalysis Parameters     | Reference Ranges |
|---------------------------|------------------|
|                           |                  |
| Color                     | Straw-Amber      |
| Clarity                   | Clear-Cloudy     |
| Specific Gravity          | 1.010-1.020      |
| pH                        | 5.0-7.5          |
| Protein (mg/dL)           | Negative         |
| Glucose (mg/dL)           | Negative         |
| Ketones (mg/dL)           | Negative         |
| Bilirubin                 | Negative         |
| Blood                     | Negative         |
| Nitrite                   | Negative         |
| Urobilinogen              | < 2.0 EU/dL      |
| Leukocyte Esterase        | Negative         |
| White cells               | 0-5 / hpf        |
| Squamous epithelial cells | <10 /hpf         |
| Hyaline casts             | 0-2 / lpf        |
| Red blood cells           | 0-2 /hpf         |
| Bacteria                  | few / hpf        |