# Normal Values

Use Normal Values To Identify Abnormal Ones

Develop a knowledge of QCP’s normal numerical values and use this knowledge to identify abnormal values as they occur.

Record Important Normal Values Here

Click Restart to reestablish initial conditions. Then click the toolbar buttons to display the initial (presumably normal) values of QCP’s variables.

The View main menu selection can be used to adjust the toolbar button lineup.

 Charts

|  |  |
| --- | --- |
| Blood Pressure (mmHg) | 123/78 |
| Heart Rate (/Min) | 72 |
| Respiratory Rate (/Min) | 13 |
| Body Temperature (deg. F) | 98.6 |
| ECG | OK |

 Blood Chemistry

|  |  |
| --- | --- |
| Blood [Na+] (mEq/L) | 142.8 |
| Venous [HCO3-] (mEq/L) | 28.6 |
| Blood [Glucose] (mG/dL) | 109 |
| Venous pH | | 7.36 |
| Venous [H+] (nEq/L) | | 44 |
| Blood [Protein] (G/dL) | | 7.0 |
| Colloid Pressure (mmHg) | | 28 |
| Osmolarity (mOsm/L) | | 294 |
| Hematocrit (%) | | 44 |
| Arterial pO2 (mmHg) | | 91 |
| Arterial O2 Content (mL/mL) | | 0.20 |
| Venous pO2 (mmHg) | | 42 |
| Venous O2 Content (mL/mL) | | 0.15 |
| Arterial pCO2 (mmHg) | | 41 |
| Venous pCO2 (mmHg) | | 46 |
| Plasma [AngII] (pG/mL) | | 20 |
| Venous [ADH] (pG/mL) | | 2.0 |
| Plasma [Aldosterone] (pMol/L) | | 302 |

 Flow

|  |  |
| --- | --- |
| Cardiac Output (mL/Min) | 5361 |
| Stroke Volume (mL) | 74 |

 Pressure

|  |  |
| --- | --- |
| Right Atrial Pressure (mmHg) | 0.2 |
| Left Atrial Pressure (mmHg) | 3.7 |
| Pulm. Art. Pressure (mmHg) | 13 |

 Conductance

|  |  |
| --- | --- |
| TPR (mmHg / (mL / Min)) | 0.018 |

 Blood Volume

|  |  |
| --- | --- |
| Blood Volume (mL) | 5400 |

 Left Heart

|  |  |
| --- | --- |
| End-Diastolic Volume (mL) | 124 |
| End-Diastolic Pressure (mmHg) | 3.6 |
| End-Systolic Volume (mL) | 50 |
| End-Systolic Pressure (mmHg) | 126 |

 H2O

|  |  |
| --- | --- |
| Total Body H2O (L) | 43.2 |
| Extracellular Volume (L) | 15.2 |
| Plasma Volume (mL) | 3.0 |

 Lungs

|  |  |
| --- | --- |
| Total Ventilation (L/Min) | 6.8 |
| Alveolar Ventilation (L/Min) | 4.7 |
| Tidal Volume (mL) | 536 |

 Metabolism

|  |  |
| --- | --- |
| Metabolic Rate (kCal/Min) | 1.196 |

 Autonomic Efferents

|  |  |
| --- | --- |
| Sympathetic Ganglia Firing (Hz) | 1.5 |

 Circulating Catecholamines

|  |  |
| --- | --- |
| [Norepinephrine] (pG/mL) | 237 |
| [Epinephrine] (pG/mL) | 40 |

 Erythropoietin

|  |  |
| --- | --- |
| Plasma [Erythropoietin] (mU/mL) | 19 |

 Insulin

|  |  |
| --- | --- |
| Plasma [Insulin] (uU/mL) | 19.8 |

 Glucagon

|  |  |
| --- | --- |
| Plasma [Glucagon] (pG/mL) | 69 |

 Glomerulus

|  |  |
| --- | --- |
| Filtration Rate (mL/Min) | 123 |

 Urine

|  |  |
| --- | --- |
| Water Excretion (mL/Min) | 0.77 |
| Sodium Excretion (mEq/Min) | 0.116 |