

REFERENCE MAN: SUMMARY OF ANATOMICAL VALUES

**Weights of Organs and Tissues**

	<i>Weight (g)</i>	<i>Page</i>
Adipose tissue	15,000	44
Subcutaneous	7500	44
Separable	5000	44
Yellow marrow	1500	44
Interstitial	1000	44
Adrenal glands (2)	14	204
Blood (total)	5500	33
Red blood cells	2400	36
Plasma	3100	39
Body (total)	70,000	13
Bone marrow (total)	3000	90
Red bone marrow	1500	90
Yellow bone marrow	1500	90
Brain	1400	213
Breasts (2)	26	195
Bronchial tree	30	173
Cartilage (skeletal)	1100	80
Connective tissue	5050	46
Cartilage	2500	46
Tendons and fascia	850	46
Other	1700	46
Esophagus	40	129
Eyes (2)	15	219
Fat (total)	13,500	43
Nonessential	12,000	43
Essential	1500	43
Fingernails and toenails	3	59
Gallbladder	10	148
GI tract (without contents)	1200	136
Esophagus	40	129
Stomach	150	131
Small Intestine	640	136
Large Intestine	370	136
GI tract contents	1005	137
Stomach	250	137
Small intestine	400	137
Upper large intestine	220	137
Lower large intestine	135	137
Hair	20	58
Heart (without blood)	330	115
Heart (at end of diastole)	570	115
Heart (at end of systole)	425	115

	<i>Weight (g)</i>	<i>Page</i>
Hypodermis	7500	54
Kidneys (2)	310	175
Larynx	28	154
Lenses (2)	0.40	224
Liver	1800	146
Lung tissue (plus arterial and venous blood)	1000	173
Lymphocytes	1500	98
Lymphatic tissue ("fixed")	700	101
Muscles (skeletal)	28,000	109
Palatine tonsils (2)	4	127
Pancreas	100	150
Parathyroid glands (4)	0.12	201
Periarticular tissue (total)	1500	81
Pineal gland	0.18	206
Pituitary gland	0.60	208
Prostate gland	16	185
Pulmonary blood	530	193
Salivary glands (3 prs.)	85	125
Parotid (2)	50	125
Submaxillary (2)	25	125
Sublingual (2)	10	125
Skeleton	10,000	79
Bone	5000	79
Marrow	3000	79
Other tissue	2000	79
Skin (total)	2600	54
Epidermis	100	54
Dermis	2500	54
Spinal cord	30	217
Spleen	180	102
Stomach	150	131
Superficial fascia	500	81
Teeth	46	83
Tendons and deep fascia	850	81
Testes (2)	35	182
Thymus	20	106
Thyroid	20	199
Tongue	70	123
Tonsils (2 palatine)	4	127
Trachea	10	157
Ureters (2)	16	177
Urethra	10	181
Urinary bladder	45	179

### **Other Anatomical Values**

Alveoli (surface area)	75 m <sup>2</sup>	173
Blood (distribution of in total body)		
Arterial system	1000 ml	121
Venous system	3200 ml	121
Pulmonary system	500 ml	121
Heart cavity (av. value)	500 ml	121
Blood volume (total)	5200 ml	33
Volume of red blood cells	2200 ml	36
Volume of plasma	3000 ml	39
Body (length)	170 cm	15
Body water (total)	600 ml/kgW	29
Extracellular water	260 ml/kgW	32
Intracellular water	340 ml/kgW	32
Bronchial tree, mean wall thickness	75 μm	173
Bronchial tree, surface area	3950 cm <sup>2</sup>	173
Cerebrospinal fluid, volume	120 ml	219

	<i>Weight (g)</i>	<i>Page</i>
Hypodermis (thickness)	3750 $\mu\text{m}$	54
Intestinal tract (length)	660 cm	138
Small intestine	500 cm	138
Large intestine	160 cm	138
Lens (depth and size)		
Anterior aspect of lens to anterior pole of cornea	0.3–0.4 cm	227
Anterior aspect of lens to anterior aspect of closed lid	0.8 cm	227
Equator of lens to anterior of corneal border	0.3 cm	227
Equatorial diameter of lens	0.9 cm	227
Axial thickness of lens	0.4 cm	227
Nose (specifications)		
Surface area of both vestibules	21 $\text{cm}^2$	154
Surface area of turbinates and nasal passages	160 $\text{cm}^2$	154
Thickness of mucus	0.5 mm	154
Thickness of epithelium	0.1 mm	154
Thickness of entire mucosa	2 mm	154
Weight of mucosa	32 g	154
Skin (total thickness)	1300 $\mu\text{m}$	54
Epidermis	50 $\mu\text{m}$	54
Dermis	1250 $\mu\text{m}$	54
Specific gravity of total body	1.07	26
Surface area of body	18,000 $\text{cm}^2$	17
Urinary bladder capacity		
Capacity (distress)	500 ml	180
Physiological capacity	200 ml	180