**Table 15. Regional Blood Flow (% Cardiac Output) in Broiler Chickens**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Tissue** | **Mean** | **SD** | **Number** | | **Range** | **Reference** |
| **Animals** | **Studies** |
| Adrenal Gland | 0.187 | 0.91 | 23 | 2 | 11.7-24.1 | 1-2 |
| Heart | 10.2 |  | 10 | 1 |  | 1 |
| GI Tract |  |  |  |  |  |  |
| Proventriculus | 2.58 | 0.82 | 21 | 2 | 2.20-3.20 | 4,5 |
| Gizzard | 1.24 | 0.18 | 31 | 3 | 1.40-1.70 | 1,4,5 |
| Duodenum | 4.45 | 0.48 | 21 | 2 | 4.01-4.69 | 4,5 |
| Ileum | 4.64 |  | 13 | 1 |  | 5 |
| Jejunum | 2.09 |  | 13 | 1 |  | 5 |
| Colon | 1.21 |  | 8 | 1 |  | 4 |
| Kidneys | 18.0 | 7.29 | 50 | 5 | 8.16-25.1 | 1,3-5 |
| Liver | 30.1 | 26.4 | 44 | 8 | 11.7-73.0 | 1,3-5,7-10 |
| Lungs | 53.2 | 4.53 | 15 | 1 | 51.6-54.7 | 6 |
| Pancreas | 3.44 | 2.94 | 30 | 3 | 1.48-6.98 | 3-5 |
| Spleen | 1.46 | 1.42 | 18 | 2 | 0.61-2.53 | 1,3 |

1. Sapirstein and Hartman (1959), 2. D Wolfenson et al. (1978) 3. Merrill et al. (1981), 4. Arad et al. (1993), 5. D. Wolfenson et al. (1981), 6. R. F. Wideman et al. (2001) , 7. Purton (1975), 8. Sturkie and Abati (1975), 9. Beers, Glahn, Bottje, and Huff (1992), 10. Bottje and Holmes (1989)

**Table 17. Blood Flow (% Cardiac Output) in Reproductive Tissues in Laying Hens**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Tissue** | **Mean** | **SD** | **Number** | | **Range** | **Reference** |
| **Animals** | **Studies** |
| Uterus | 4.75 | 1.67 | 31 | 2 | 2.88-4.95 | 1-2 |
| Vagina | 0.42 | N/A | 28 | 1 | N/A | 2 |
| Infundibulum | 0.33 | 0.044 | 53 | 4 | 0.27-0.34 | 1-4 |
| Isthmus | 1.17 | 0.44 | 53 | 4 | 0.53-1.45 | 1-4 |
| Magnum | 4.66 | 0.95 | 66 | 5 | 0.53-5.45 | 1-5 |
| Shell Gland | 13.5 | 7.03 | 29 | 3 | 6.91-19.4 | 3-5 |
| Ovary | 16.5 | 4.74 | 30 | 1 | 8.63-21.1 | 6 |

1. Scanes et al. (1982), 2. Moynihan and Edwards (1975), 3. Hrabia et al. (2005), 4. D. Wolfenson et al. (1981), 5. Arad et al. (1993), 6. Niezgoda et al. (1982)

N/A: not applicable or not available