Supplementary File S1.Complete search strategy with search filters and number of studies recovered in databases PubMed-Medline and Scopus.

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| --- | --- |
| **PubMed-MEDLINE – Search filters** | **Retrieved records** |
| **#1 Trypanosomiasis:**  ("chagas disease"[MeSH Terms] OR "trypanosomiasis, african"[MeSH Terms] OR "trypanosomiasis"[MeSH Terms] OR "trypanosoma"[MeSH Terms] OR “Trypanosoma cruzi”[MeSH Terms] OR “African sleeping sickness”[MeSH Terms] OR “African sleeping sicknesses”[MeSH Terms] OR “Trypanosoma brucei”[MeSH Terms] OR “Trypanosoma gambiense”[MeSH Terms] OR “Trypanosoma rhodesiense”[MeSH Terms] OR “African trypanosomiases”[MeSH Terms] OR "chagas disease"[TIAB] OR "trypanosomiasis, african"[TIAB] OR "Trypanosomiasis"[TIAB] OR "Trypanosoma"[TIAB]) OR “American trypanosomiasis”[TIAB] OR “Trypanosoma cruzi”[TIAB] OR “African sleeping sickness”[TIAB] OR “African sleeping sicknesses”[TIAB] OR “Trypanosoma brucei”[TIAB] OR “Trypanosoma gambiense”[TIAB] OR “Trypanosoma rhodesiense”[TIAB] OR “African trypanosomiases”[TIAB]) | 36090 |
| **#2 Hematology blood tests:**  ("hematology"[MeSH Terms] OR "hematocrit"[MeSH Terms] OR "hemoglobins"[MeSH Terms] OR "leukocyte count"[MeSH Terms] OR "erythrocyte count"[MeSH Terms] OR "hematology"[TIAB] OR "hematocrit"[TIAB] OR "hemoglobins"[TIAB] OR "leukocyte count"[TIAB] OR "erythrocyte count"[TIAB] OR "hemogram"[TIAB] OR "wbc"[TIAB] OR "rbc"[TIAB] OR "twbc"[TIAB] OR "trbc"[TIAB] OR "dwbc"[TIAB] OR "differential leukocyte count"[TIAB] OR "haematology") | 2023095 |
| **#3 Mammals filter:**  ("mammals" OR "opossums" OR "insectivora" OR "marsupialia" OR "monotremata" OR "dogs" OR "cats" OR "cattle" OR "livestock" OR "goats" OR "sheep, domestic" OR "horses" OR "ruminants" OR "shrews" OR "arvicolinae" OR "elephants" OR "hyraxes" OR "trichechus" OR "proboscidea mammal" OR "sirenia" OR "sloths" OR "xenarthra" OR "armadillos" OR "tupaiidae" OR "scandentia" OR "lemur" OR "primates" OR "hominidae" OR "pongo" OR "pan troglodytes" OR "pan paniscus" OR "gorilla gorilla" OR "haplorhini" OR "hares" OR "lagomorpha" OR "rabbits" OR "rodentia"[MeSH Terms OR "mice" OR "rats" OR "moles" OR "hedgehogs" OR "whales" OR "cetacea" OR "dolphins" OR "artiodactyla" OR "swine" OR "camels" OR "giraffes" OR "deer" OR "antelopes" OR "equidae" OR "perissodactyla" OR "chiroptera" OR "carnivora" OR "ursidae" OR "procyonidae" OR "raccoons" OR "mephitidae" OR "mustelidae" OR "pinnipedia" OR "strepsirhini" OR "hylobatidae" OR "cricetinae") | 20073230 |
| **Combined search: (**#1 AND #2 AND #3) | 439 |
| **SCOPUS – Search filters** | **Retrieved records** |
| **#1 Hematology**  (TITLE-ABS-KEY("hematology") OR TITLE-ABS-KEY("hematocrit") OR TITLE-ABS-KEY(“hemoglobins") OR TITLE-ABS-KEY(“leukocyte count") OR TITLE-ABS-KEY(“erythrocyte count") OR TITLE-ABS-KEY(“hemogram") OR TITLE-ABS-KEY(“wbc”) OR TITLE-ABS-KEY(“rbc”) OR TITLE-ABS-KEY(“twbc”) OR TITLE-ABS-KEY(“trbc”) OR TITLE-ABS-KEY(“dwbc”) OR TITLE-ABS-KEY(“differential leukocyte count”) OR TITLE-ABS-KEY(“haematology”)) | 509973 |
| **#2 Trypanosomiasis**  (TITLE-ABS-KEY("chagas disease") OR TITLE-ABS-KEY("trypanosomiasis, african") OR TITLE-ABS-KEY("trypanosomiasis") OR TITLE-ABS-KEY("trypanosoma") OR TITLE-ABS-KEY(“Trypanosoma cruzi”) OR TITLE-ABS-KEY(“African sleeping sickness”) OR TITLE-ABS-KEY(“African sleeping sicknesses”) OR TITLE-ABS-KEY(“Trypanosoma brucei”) OR TITLE-ABS-KEY(“Trypanosoma gambiense”) OR TITLE-ABS-KEY(“Trypanosoma rhodesiense”) OR TITLE-ABS-KEY(“African trypanosomiases”)) | 45032 |
| **Combined search: #1 AND #2** | 1095 |
| **Search limits:** animals [limit to] | 614 |

Supplementary file S2. Haematological reference values

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Parameters | Rat\*  (*Rattus norvegicus*) | | Mice\*  (*Mus musculus*) | | Dog\*  (*Canis lopus familiaris*) | Monkey\*  (*Macaca mulatta*) | | Coatis\*\*  (*Nasua narica*) | |
| Haematocrit (%) | 39.6 - 52.6 | 37.9 - 49.9 | 45.8 - 54.8 | 47.6 - 54.3 | 37.0 – 55.0 | 38.0 – 48.0 | 37.0 – 46.0 | 25.2 - 44.3 | 22.5 - 39.1 |
| Hemoglobin (g/dL) | 13.7 - 17.6 | 13.7 - 16.8 | 13.3 - 15.4 | 13.8 - 15.8 | 12.0 - 18.0 | 12.2 - 16.0 | 12.1 – 14.9 | 8.7 - 13.9 | 7.6 - 12.7 |
| Erythrocytes (106/mm3) | 7.27 - 9.65 | 7.07 - 9.03 | 8.98 - 10.66 | 9.23 - 10.56 | 5.50 - 8.50 | 5.12 - 7.00 | 4.96 – 6.38 | 5.3 - 8.86 | 4.3 - 8.39 |
| Leukocytes (mm3) | 1960 - 8250 | 1130 - 7490 | 1230 - 4780 | 280 - 3870 | 6000 - 17000 | 2600 - 10000 | 4400 - 11100 | 5200 - 14700 | 5100 - 15300 |
| Lymphocytes (mm3) | 1410 - 7110 | 820 - 5660 | 860 - 3790 | 240 - 3420 | 1000 - 4800 | 1270 - 5930 | 1680 - 5760 | 2100 - 5800 | 1500 - 5800 |
| Monocytes (mm3) | 30 - 180 | 20 - 160 | 0 - 50 | 0 - 20 | 150 - 1350 | 80 - 780 | 70 - 940 | 1100 - 4000 | 1100 - 3200 |
| Neutrophils (mm3) | 220 - 1570 | 150 - 1500 | 100 - 1660 | 40 - 610 | 3000 - 11500 | 970 - 6500 | 900 - 7050 | 1700 - 6300 | 1800 - 10300 |
| Eosinophils (mm3) | 10 - 160 | 10 - 150 | 0 - 70 | 0 - 70 | 100 - 1250 | 20 - 730 | 0 - 990 |
| Basophils (mm3) | 0 - 50 | 0 - 30 | 0 - 10 | 0 - 10 | Rare | 0- 100 | 0 - 130 |

\* Raskin and Wardrop, 2011.

\* \* Rovirosa-Hernández *et al*. 2012.