**Table S3.** Main quantitative parasitological dataand mortality ratesreported in all studies included in the systematic review.

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| **Study** | **Groups/diet (animals / group)** | **Recovery worms (mean ± SD)** | ***S. mansoni* eggs (mean ± SD)** |
| **Low-protein diet** |  |  |  |
| AKPOM &WARREN, 1975a | Control: 20% protein (n= ?) | 24 W p.i. pairs (3.0 ± 0.5) total (6.4 ± 1.2)  28 W p.i. pairs (1.7 ± 0.3) total (5.3 ± 1.9) | Liver: 24 W p.i. (20,266 ± 4,025)  28 W p.i. (30,705 ± 4,482) |
| Low-protein: 8% (n= ?) | 24 W p.i. pairs (3.1 ± 0.5) total (7.3 ± 0.7)  28 W p.i. pairs (3.0 ± 0.0) total (6 ± 0.0) | Liver: 24 W p.i. (29,534 ± 2,590)  28 W p.i. (30,757 ± 4,708) |
| Low-protein: 4% (n= ?) | 24 W p.i. pairs (2.6 ± 0.5) total (6.3 ± 1.1)  28 W p.i. pairs (2.3 ± 0.2) total (5.5 ± 0.5) | Liver: 24 W p.i. (24,410 ± 3,160)  28 W p.i. (20,126 ± 2,600) |
| Low-energy: 50% restriction (n= ?) | 24 W p.i. pairs (3.0 ± 0.3) total (6.1 ± 0.5)  28 W p.i. pairs (2.0 ± 0.4) total (5.7 ± 1.1) | Liver: 24 W p.i. (32,614 ± 4,480)  28 W p.i. (22,698 ± 2,968) |
| BARROS *et al*. 2014 | Control (n= 10) | Acute phase: Total (7.38 ± 3.29)  Chronic phase: Total (4.00 ± 1.27) | Intestine: Acute phase (2,461.58 ± 1,228,9)  Chronic phase (4,060.9 ± 1284.2) Liver: Acute phase (17,616.6 ± 5,325.3)   Chronic phase (26,802.03 ± 8,348.4) |
| Low protein (n= 10) | Acute phase (2.53 ± 0.69)  Chronic phase (2.82 ± 1.27) | Intestine: Acute phase (518.10 ± 409.52)  Chronic phase (1,827.4 ± 642.26) Liver: Acute phase (9,327.3 ± 8,601.4)  Chronic phase (15,634.5 ± 3,857.9) |
| COUTINHO-ABATH *et al*., 1962 | Control (n= 22) | (?) | (?) |
| Low-protein (n= 52) | (?) | (?) |
| High-protein (n= 35) | (?) | (?) |

(?) Data not reported or investigated. W, weeks; p.i. post-inoculation.

**Table S3 *(continuation)*.** Main quantitative parasitological dataand mortality ratesreported in all studies included in the systematic review.

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| **Study** | **Groups/diet (animals / group)** | | **Recovery worms (mean ± SD)** | | ***S. mansoni* eggs (mean ± SD)** |
| COUTINHO *et al*. 1997 | Low-protein (n= 17) | | Pairs: 1.47 ± 0.94 | | Eggs/g liver: 4,280 ± 3,750 |
| Control (n= 16) | | Pairs: 3.13 ± 1.75 | | Eggs/g liver: 4,270 ± 3,490 |
| COUTINHO *et al*. 2003 | Low-protein (n= 7) | | (?) | | Liver total eggs: 21.66 ± 4.68 |
| Control (n= 11) | | (?) | | Liver total eggs 24.79 ± 14.79 |
| COUTINHO, 2004. | Low-protein (n=?) | | (?) | | (?) |
| Control (n=?) | | (?) | | (?) |
| Low-protein (n=?) | | (?) | | (?) |
| Control (n=?) | | (?) | | (?) |
| COUTINHO *et al*. 2007 | Low-protein (n= 10) | | Total: 3.27 ± 0.97 | | Liver total eggs 6.77 ± 0.85 |
| Control (n= 10) | | Total: 9.92 ± 1.33 | | Liver total eggs 21.53 ± 2.54 |
| Low-protein (n= 10) | | Total: 21.77 ± 5.20 | | Liver total eggs 20.08 ± 1.57 |
| Control (n= 10) | | Total: 21.65 ± 4.84 | | Liver total eggs 33.63 ± 4.11 |
| COUTINHO *et al*. 2002 | Control 1: 40 cercariae (n= 54) | | (?) | | (?) |
| Control 2: 80 cercariae (n= 40) | | (?) | | (?) |
| Low-protein 1: 40 cercariae (n= 24) | | (?) | | (?) |
| Low-protein 2: 80 cercariae (n= 42) | | (?) | | (?) |
| OLIVEIRA *et al*. 2004 | Low-protein (n= 10) | (?) | | Egg/g liver: 4.01 | |
| Control (n= 10) | (?) | | Eggs/g liver: 6.36 | |

(?) Data not reported or investigated.

**Table S3 *(continuation)*.** Main quantitative parasitological dataand mortality ratesreported in all studies included in the systematic review.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Study** | **Groups/diet (animals / group)** | **Recovery worms (mean ± SD)** | | ***S. mansoni* eggs (mean ± SD)** | |
| KNAUFT & WARREN, 1969 | Control: 20% protein (n= 20) | | Total (15.1 ± 1.9) Pairs (2.3 ± 0.51) | | Liver total eggs 4,960 ± 1,113 Eggs/g liver: 2,833 ± 561 |
| Low-protein: 12% (n= 20) | | Total (20.4 ± 1.6) Pairs (7.4 ± 0.81) | | Liver total eggs: 8,490 ± 713 Eggs/g liver: 6,162 ± 534 |
| Low-protein: 8% (n= 20) | | Total (17.3 ± 1.6) Pairs (7.5 ± 0.71) | | Liver total eggs: 4,340 ± 488  Eggs/g liver: 4,716 ± 501 |
| Low-protein: 4% (n= 20) | | Total (12.0 ± 1.7) Pairs (4.2 ± 0.97) | | Liver total eggs: 2,438 ± 515 Eggs/g liver: 4,006 ± 212 |
| Low-energy: 25% restriction (n= 16) | | Total (13.5 ± 0.89) Pairs (5.2 ± 0.47) | | Liver total eggs: 2,876 ± 444 Eggs/g liver: 2,867 ± 444 |
| Low-energy: 50% restriction (n= 10) | | Total (14.0 ± 1.9) Pairs (3.0 ± 0.58) | | Liver total eggs: 2,468 ± 372 Eggs/g liver: 2,615 ± 387 |
| **High-fat diet** |  |  | |  | |
| ALENCAR *et al*. 2009 | Control (n= 10) | (?) | | Intestine: 4,621 ± 2,942 Liver total eggs: 2,606 ± 1,330 | |
| High-fat (n= 10) | (?) | | Intestine: 25,236 ± 7,516 Liver total eggs: 10,804 ± 2,828 | |
| NEVES *et al*. 2007 | Control (n= 10) | (?) | | Intestine: proximal (2,480 ± 544), distal (1,591 ± 369), cecum (393 ± 119) | |
| High-fat (n= 10) | (?) | | Intestine: proximal (4,164 ± 1,094), distal (1,933 ± 637), cecum (320 ± 99) | |

(?) Data not reported or investigated.

**Table S3 *(continuation)*.** Main quantitative parasitological dataand mortality ratesreported in all studies included in the systematic review.

|  |  |  |  |
| --- | --- | --- | --- |
| **Study** | **Groups/diet (animals / group)** | **Recovery worms (mean ± SD or SE\*)** | ***S. mansoni* eggs (mean ± SD)** |
| **Mineral interventions** |  |  |  |
| HELMY *et al*. 2009 | Control (n= 30) | Worm burden: male (3.0 ± 1.31), female (2.0 ± 0.64), couples (14.0 ± 2.42), total (36.0 ± 2.45) | Eggs/g: Liver (19,878 ± 1,687)  Intestine (18,465 ± 2,720) |
| Zinc supplementation (n= 30) | Worm burden: male (6 ± 0.4), female (2 ± 0.6), couples (10.8 ± 0.0), total (29.6 ± 2.6) | Eggs/g: Liver (15,121 ± 1,325)  Intestine (14,211 ± 1,254) |
| **High-sugar diet** |  |  |  |
| MAGALHÃES *et al*. 1978 | Control (n= 17) | Worm burden: male (14.5), female (7.4), total worms (21.8) | (?) |
| High-sugar (n= 23) | Worm burden: male (12.3), female (12.6), total worms (25.5) | (?) |
| **Others dietary interventions** |  |  |  |
| MAGHRABY *et al*. 2005 | Colostral camel milk (n= 10) | Worm burden: 17.94 ± 1.70 | (?) |
| Mature camel milk (n= 10) | Worm burden: 13.99 ± 3.26 | (?) |
| Control diet (n= 10) | Worm burden: 20.88 ± 8.97 | (?) |

(?) Data not reported or investigated.

**Table S3 *(continuation)*.** Main quantitative parasitological dataand mortality ratesreported in all studies included in the systematic review.

|  |  |  |
| --- | --- | --- |
| **Study** | **Granuloma size  (mean ± SD)** | **Mortality (Events/ group and %)** |
| **Low-protein diet** |  |  |
| AKPOM &WARREN, 1975a | (?) | 11/38 = 29% |
| (?) | 14/40 = 35% |
| (?) | 15/48 = 31% |
| (?) | 4/44 = 9% |
| BARROS *et al*., 2014 | Liver:  Volume (µm³×108): 5,962 ± 5,009 | 3/10 = 30% |
| Volume (µm³×108): 2,037 ± 1,909 |
| Intestine:  Volume (µm³×108): 3,584 ± 1,074 | 4/10 = 40% |
| Volume (µm³×108): 1,735 ± 715.97 |
| COUTINHO-ABATH *et al*., 1962 | (?) | 10/22 = 45.45% |
| (?) | 25/52 = 48.07% |
| (?) | 11/35 = 31.41% |
| COUTINHO *et al*. 1997 | Area (µm2): 63.16 ± 8.88 | (?) |
| Area (µm2): 220.07 ± 11.84 | (?) |
| COUTINHO *et al*. 2007 | Volume (µm³×108): 1,035 ± 169.16 | (?) |
| Volume (µm³×108): 1,218 ± 70.42 | (?) |
| Volume (µm³×108): 873.23 ± 112.68 | (?) |
| Volume (µm³×108): 1,718 ± 91.55 | (?) |
| COUTINHO *et al*. 2002 | (?) | 19/54 = 35.2% |
| (?) | 17/40 = 42.5% |
| (?) | 9/24 = 37.5% |
| (?) | 19/42 = 45.2% |
| COUTINHO, 2004 | Volume (µm³×108): 2.395 ± 0.208 | (?) |
| Volume (µm³×108): 5.208 ± 0.520 | (?) |
| Volume (µm³×108): 3.437 ± 0.520 | (?) |
| Volume (µm³×108): 3.958 ± 0.416 | (?) |

(?) Data not reported or investigated.

**Table S3 *(continuation)*.** Main quantitative parasitological dataand mortality ratesreported in all studies included in the systematic review.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Study** | **Granuloma size  (mean ± SD)** | | | **Mortality (Events/ group and %)** | |
| KNAUFT & WARREN, 1969 | | Diameter (µm): 357 ± 15.0 | (?) | |
| Diameter (µm): 352 ± 8.7 | (?) | |
| Diameter (µm): 306 ± 9.9 | (?) | |
| Diameter (µm): 175 ± 15.7 | (?) | |
| Diameter (µm): 290 ± 13.1 | (?) | |
| Diameter (µm): 295 ± 18.4 | (?) | |
| **High-fat diet** | |  |  | |
| ALENCAR *et al*. 2009 | | (?) | 1/10 = 10% | |
| (?) | 3/10 = 30% | |
| NEVES *et al*. 2007 | | Minor diameter (µm): 280 ± 77 Major diameter (µm): 9374 ± 99 | (?) | |
| Minor diameter (µm): 299 ± 71 Major diameter (µm): 396 ± 98 | (?) | |
| **Mineral interventions** |  | | |  | |
| HELMY *et al*. 2009 | Number: 11.5 ± 0.4 Diameter (µm): 216 ± 3.6 | | | (?) | |
| Number: 3.8 ± 0.5  Diameter (µm): 207.4 ± 0.9 | | | (?) | |
| **High-sugar diet** |  | | |  | |
| MAGALHÃES *et al*. 1978 | Number: 468 | | | (?) | |
| Number: 475 | | | (?) | |

(?) Data not reported or investigated.