**Table S2.** General characteristics of the experimental models used in all studies included in the systematic review.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Study** | **Species** | **Lineage** | **Sex** | **Weight (g)** | **Age (days)** | **Dietary strategy** | **Diet composition** |
| **Low-protein diet** |  |  |  |  |  |  |  |
| AKPOM & WARREN, 1975a | Outbread mice | Swiss | (?) | 12-14 | (?) | Protein and energy restriction | Control: 20% protein Low-protein: 8% protein Low-protein: 4% protein  Low-energy: 50% calorie |
| AKPOM & WARREN, 1975b | Outbread mice | Swiss | Female | 14-15 | 21 | Protein and energy restriction | Control: 20% protein Low-protein: 12% protein Low-protein: 8% protein Low-protein: 4% protein  Low-energy: 50% calorie Low-energy: 25% calorie |
|
| AKPOM, 1981 | Outbread mice | Swiss | Female | (?) | (?) | Protein restriction | Control: 20% protein Low-protein: 4% protein |
| BARROS *et al*. 2014 | Inbread / Outbread mice | C57BL/6 Swiss Webster | (?) | 11-15 | 21 | Protein restriction | Control (Nuvilab): 22% protein Low-protein: 7-8% protein |
| BARROS *et al*. 2009 | Outbread mice | Swiss Webster | Female | 8-14 | 21 | Protein restriction | Control (Nuvilab): 22% protein Low-protein: 8% protein |
| BHATTACHARYYA *et al*. 1965 | Outbread mice | Swiss | Male | 15-20 | 49 | Protein and vitamin restriction | Control Low-protein (4% casein) Choline-deficient |
| Outbread rats | Wistar | (?) | 50-70 | 49 | Protein restriction | Control Low-protein: 4% casein |

(?) Data not reported.

**Table S2 *(continuation)*.** General characteristics of the experimental models used in all studies included in the systematic review.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Study** | **Species** | **Lineage** | **Sex** | **Weight (g)** | **Age (days)** | **Dietary strategy** | **Diet composition** |
| COUTINHO-ABATH *et al*. 1962 | Outbread mice | Swiss | both sexes | (?) | 56 | Diets of different protein content | Low-protein: 8% casein Control: 25% casein  High-protein: 60% casein |
| COUTINHO *et al*. 1997 | Outbread mice | Swiss | both sexes | (?) | (?) | Protein restriction | Low- protein (regional basic diet-RBD): 7.9% proteins, 69.7% carbohydrates, 0.8% fat, 1.3% minerals, 7.2% fiber (KCal% 336.2, NDpCal% 5.6) Control (Nuvilab): 22% protein |
| COUTINHO *et al*. 1991 | Outbread mice | Swiss | both sexes | 9-12g | 21 | Protein restriction | Low-protein (RBD): 7.2% proteins, 69.7% carbohydrates, 0.95% fat, 1.26% minerals, 7.2% fiber (NDpCal% 5.97) Low-protein (casein): 7.8% proteins, 74.4% carbohydrates, 9% fat, 2.5% minerals, 3.5% fiber Control: 22.6% proteins, 50.2% carbohydrates, 14.0% fat, 2.5% minerals, 4.0% fiber |
| COUTINHO, 2004 | Outbread mice | Swiss | Male | 11-15 | 21 | Protein restriction | Low-protein (RBD): 7-8% protein Control (Nuvilab): 22% protein |
| Inbred mice | BALB/c C57BL/10 | Female | (?) | (?) | Protein restriction | Low-protein (RBD): 7-8% protein Control (Nuvilab): 22% protein |
| COUTINHO *et al*. 2003 | Outbread mice | Swiss | Male | 11-13 | 21 | Protein restriction | Low-protein (RBD): 7-8% protein Control (Nuvilab): 22% protein |

(?) Data not reported.

**Table S2 *(continuation)*.** General characteristics of the experimental models used in all studies included in the systematic review.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Study** | **Species** | **Lineage** | **Sex** | **Weight (g)** | **Age (days)** | **Dietary strategy** | **Diet composition** |
| COUTINHO *et al*. 2007 | Outbread mice | Swiss | Male | 11-15 | 21 | Protein restriction | Low-protein (RBD): 7-8% protein Control (Nuvilab): 22% protein |
| COUTINHO *et al*. 2002 | Outbread mice | Swiss | Male | 10-15 | 21-25 | Protein restriction | Low-protein: 5.2% protein Control: 22.6% protein |
| COUTO *et al*. 2002 | Outbread mice | Swiss | Male | 10-15 | 21-25 | Protein restriction | Low-protein: 5% casein Control: 20% casein |
| KNAUFT; WARREN, 1969 | Outbread mice | Swiss | Female | 10.5 | 21 | Protein restriction | Control: 20% protein Low-protein: 12% Low-protein: 8% Low-protein: 4% Low-energy: 25% calorie-deficient Low-energy: 50% calorie-deficient |
| OLIVEIRA *et al*. 2004 | Outbread mice | Swiss Webster | Male / Female | (?) | (?) | Protein restriction | Low-protein (RBD): 8% protein (3.15 kcal/g) Control (Nuvilab): 22% protein (3.69 kcal/g) |
| RAMOS *et al*. 2006 | Inbread mice | C57BL/6 | Male | (?) | 21 | Protein restriction | Low-protein (RBD): 7.8% proteins, 69.7% carbohydrates, 0.95% fat, 1.3% minerals, 7.2% fibers (NDpCal% 5.97) Control: 22.6% proteins, 50.% carbohydrates, 14% fat, 2.5% minerals, 4% fibers |
| SIMÕES *et al*. 2002 | Outbread mice | Swiss | (?) | (?) | 5 | Protein restriction | Low-protein: 8% protein, 81% carbohydrate, 11% lipids Control: 12% fat, 28% protein, 60% carbohydrate |

(?) Data not reported.

**Table S2 *(continuation)*.** General characteristics of the experimental models used in all studies included in the systematic review.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Study** | **Species** | **Lineage** | **Sex** | **Weight (g)** | **Age (days)** | **Dietary strategy** | **Diet composition** |
| **High-fat diet** |  |  |  |  |  |  |  |
| ALENCAR *et al*. 2009 | Outbread mice | Swiss Webster | Female | (?) | 21 | Fat supplementation | High-fat: 47% carbohydrates, 24% proteins and 29% lipids (5.7 kcal/g bw/day) Control (Nuvilab): 12% fat, 28% protein and 60% carbohydrate (4.6 kcal/g bw/day) |
| Da SILVA *et al*. 2012 | Outbread mice | Swiss Webster | Female | (?) | (?) | Fat supplementation | High-fat: 47% carbohydrates, 24% proteins, 29% lipids (5.7 kcal/g bw/day) Control: 12% lipids, 28% protein, 60% carbohydrates (4.6 kcal/g bw/day) |
| De BARROS ALENCAR *et al*. 2012 | Outbread mice | Swiss Webster | Female | (?) | 21 | Fat supplementation | High-fat: 47% carbohydrate, 24% protein, 29% lipid (5·7 kcal/g bw/day) Control (Nuvilab): 12% fat, 28% protein, 60% carbohydrate (4.6 kcal/g bw/day) |
| GÓES *et al*. 2012 | Outbread mice | Swiss Webster | Female | (?) | (?) | Fat supplementation | High-fat: 47% carbohydrates, 24% proteins, 29% lipids (5.7 kcal/g bw/day) Control (Nuvilab): 12% fat, 28% protein, 60% carbohydrate (4.6 kcal/g bw/day) |
| NEVES *et al*. 2006 | Outbread mice | Swiss Webster | Female | (?) | 21 | Fat supplementation | High-fat:47% carbohydrates, 24% proteins, 29% lipids (5.7 kcal/g bw/day) Control (Nuvilab): 12% fat, 28% protein, 60% carbohydrate (4.6 kcal/g bw/day) |
| NEVES *et al*. 2007 | Outbread mice | Swiss Webster | Female | (?) | 21 | Fat supplementation | High-fat:47% carbohydrates, 24% proteins, 29% lipids (5.7 kcal/g bw/day) Control (Nuvilab): 12% fat, 28% protein, 60% carbohydrate (4.6 kcal/g bw/day) |

(?) Data not reported.

**Table S2 *(continuation)*.** General characteristics of the experimental models used in all studies included in the systematic review.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Study** | **Species** | **Lineage** | **Sex** | **Weight (g)** | **Age (days)** | **Dietary strategy** | **Diet composition** |
| **Vitamin or mineral interventions** | |  |  |  |  |  |  |
| AKPOM & WARREN, 1975b | Outbread mice | Swiss | Female | 14-15 | (?) | Vitamins restriction | Control Thiamine-deficient Riboflavin-deficient Pyridoxine-deficient Pantothenic acid-deficient |
| Guinea pig | Hartley | Female | 200 | (?) | Vitamin restriction | Control or Vitamin-C-deficient |
| HELMY *et al*. 2009 | Outbread mice | Swiss | Male | 18-20 | (?) | Zinc supplementation | Control or  Zinc supplementation |
| **High-sugar diet** |  |  |  |  |  |  |  |
| MAGALHÃES *et al*. 1978 | Outbread mice | (?) | Female | 17 | (?) | Sugar supplementation | Control High-sugar: control diet plus a sugar aqueous solution at 20% |
| **Others dietary interventions (camel milk)** | |  |  |  |  |  |  |
| MAGHRABY *et al*. 2005 | Outbread mice | Swiss | Female | 18-20 | (?) | Diets containing colostral and mature camel milk | Control: milk protein (12%), sucrose (5%), fat (10%), vitamin mixtures (1%), salt mixtures (4%), fiber (4%) and starch (64%) Control + colostral camel milk Control + mature camel milk |

(?) Data not reported.

**Table S2 *(continuation)*.** General characteristics of the experimental models used in all studies included in the systematic review.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Study** | **Diet access** | **Duration of dietary strategy (weeks)** | ***S. mansoni* strain** | **Inoculum size /  Rout of administration** | **Period of infection (weeks)** |
| **Low-protein diet** |  |  |  |  |  |
| AKPOM & WARREN, 1975a | Control diet: *Ad libitum* Low-protein and low-energy diets: controlled intake | 1-20 W: 20% protein; 20- 24 W: 20% protein; 8% protein; 4% protein and 50% calorie-deficient; 24-28 W: 20% protein | (?) | 22 cercariae / (?) | 28 W |
| AKPOM & WARREN, 1975b | Control diet: *Ad libitum* Low-protein and low-energy diets: controlled intake | 9 W | Puerto Rican | 1000 eggs / Iv. | 5 W |
|
| AKPOM, 1981 | Control diet: *Ad libitum*; Low-protein diet: controlled intake | 4 W: low-protein 8 W: control | (?) | 2000 eggs / Iv. and Ip. | 8 W |
| BARROS *et al*. 2014 | *Ad libitum* | 25.7 W | BH | 40 cercariae / Pc. | 21.4 W |
| BARROS *et al*. 2009 | *Ad libitum* | 12.4 W | BH | 50 cercariae / Sc. | 10.2 W |
| BHATTACHARYYA *et al*. 1965 | Controlled intake | 36 W 36 W 4 W | Egyptian | 150 cercariae / (?) | 36 W |
| 36 W | 450 cercariae / (?) | 36 W |

(?) Data not reported; Iv, intravenous, Ip, intraperitoneal; Sc, subcutaneous; Pc, percutaneous.

**Table S2 *(continuation)*.** General characteristics of the experimental models used in all studies included in the systematic review.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Study** | **Diet access** | **Duration of dietary strategy (weeks)** | ***S. mansoni* strain** | **Inoculum size /  Rout** | **Period of infection (weeks)** |
| COUTINHO-ABATH *et al*. 1962 | *Ad libitum* | 8 | Paulista, Pernambuco | 150 cercariae / (?) | ? |
| COUTINHO *et al*. 1997 | *Ad libitum* | 20 | L | 30 cercariae / Pc. | 16 W |
| COUTINHO *et al*. 1991 | RBD: *Ad libitum* Casein and control: controlled intake | 9 | São Lourenço da Mata, Pernambuco | 80 cercariae / Pc. | ? |
| COUTINHO, 2004 | *Ad libitum* | Experiment I: 24 W | BH | 30 cercariae / Pc. | 24 W |
| Experiment II: 19 W | BH | 30 cercariae / Pc. | 15 W |
| Experiment III: 20 W | BH | 30 cercariae / Pc. | 16 W |
| Experiment IV: 24 W | SLM | 30 cercariae / Pc. | 20 W |
| COUTINHO *et al*. 2003 | *Ad libitum* | 24 | BH | 30 cercariae / Pc. | 28 W |
| COUTINHO *et al*. 2007 | *Ad libitum* | 22 | BH | 30 cercariae / Pc. | 18 W |
| COUTINHO *et al*. 2002 | *Ad libitum* | 20 | SL Brazilian | 40 or 80 cercariae / Pc. | 20 W |
| COUTO *et al*. 2002 | *Ad libitum* | 12 | SLM | 80 cercariae / Pc. | 12 W |
| KNAUFT & WARREN, 1969 | Controlled intake | 2 | Puerto Rican | 40 cercariae / (?) | 8 W |
| OLIVEIRA *et al*. 2004 | (?) | 20 | BH | 30 cercariae / Pc. | 16 W |
| RAMOS *et al*. 2006 | (?) | 12.9 | BH | 30 cercariae / Pc. | 12.8 W |
| SIMÕES *et al*. 2002 | *Ad libitum* | 9.71 | BH | 50 cercariae / Pc. | 9 W |

(?) Data not reported; Iv, intravenous, Ip, intraperitoneal; Sc, subcutaneous; Pc, percutaneous; RBD, regional basic diet.

**Table S2 *(continuation)*.** General characteristics of the experimental models used in all studies included in the systematic review.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Study** | **Diet access** | **Duration of dietary strategy (weeks)** | ***S. mansoni* strain** | **Inoculum size /  Rout** | **Period of infection (weeks)** |
| **High-fat diet** |  |  |  |  |  |
| ALENCAR *et al*. 2009 | *Ad libitum* | 41 | BH | 50 cercariae / Sc. | 17 W |
| Da SILVA *et al*. 2012 | *Ad libitum* | 33 | BH | 50 cercariae / Sc. | 9 W |
| De BARROS ALENCAR *et al*. 2012 | *Ad libitum* | 41 | BH | 50 cercariae / Sc. | 17 W |
| GÓES *et al*. 2012 | *Ad libitum* | 41 | (?) | 50 cercariae / Pc. | 17 W |
| NEVES *et al*. 2006 | *Ad libitum* | 32 | BH | 50 cercariae / (?) | 9 W |
| NEVES *et al*. 2007 | *Ad libitum* | 20 | BH | 50 cercariae / Sc. | 9 W |
| **Vitamin or mineral interventions** |  |  |  |  |  |
| AKPOM & WARREN, 1975b | (?) | 7 | Puerto Rican | 1000 eggs / Ip. | 5 W |
| (?) | 6 | (?) | 10000 eggs / Iv. | 5 W |
| HELMY *et al*. 2009 | *Ad libitum* | 10 | Egyptian | 60 ± 10 cercariae / (?) | 10 W |
| **High-sugar diet** |  |  |  |  |  |
| MAGALHÃES *et al*. 1978 | *Ad libitum* | 8.6 | BH | 100 cercariae / (?) | 7.1 W |
| **Others dietary interventions (camel milk)** | |  |  |  |  |
| MAGHRABY *et al*. 2005 | (?) | 12 | (?) | 100 cercariae / Sc. | 6 W |

(?) Data not reported; Iv, intravenous, Ip, intraperitoneal; Sc, subcutaneous; Pc, percutaneous.