**Table 1:** Efficacy of Oxyclozanide (Tremacid®) against liver fluke infection (Fascioliasis) in cattle

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Groups | Drug with Dose | Pre-treatment | Post treatment | | | |
| EPG at ‘0’ day | EPG at 7th day | EPG at 14th day | EPG at 21st day | EPG at 28th day |
| Mean ±SE | Mean ±SE | Mean ±SE | Mean ±SE | Mean ±SE |
| C | Oxyclozanide (Tremacid® -1000 mg/Tab) 15 mg/kg b.wt orally | 278.00 ± 8.00 | 106.00\*\* ± 2.92  (61.87%) | 80.00\*\* ± 3.54  (71.22%) | 64.00\*\* ± 1.87  (76.98%) | 43.00\*\* ± 2.00  (84.53%) |
| D | Control | 290.00 ± 7.07 | 302.00\*\* ± 8.00  (3.97%) | 314.00\*\* ± 7.48  (7.64%) | 326.00\*\* ± 7.48  (11.04%) | 338\*\* ± 5.83  (14.20%) |

Within the parenthesis value showing (% increase and decrease)

The above values represent the mean±SE of 5 cattle

\*\* = Significant at 1 percent level (p<0.01)

\* = Significant at 5 percent level (p<0.05)

**Table 2:** The efficacy of Oxyclozanide (Tremacid®) at recommended doses on TEC (million/cu.mm.) in cattle

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Groups | Drug with dose | Pre-treatment | Post treatment | | | |
| TEC at 0 day | TEC at 7th day | TEC at 14th day | TEC at 21st day | TEC at 28th day |
| Mean±SE | Mean±SE | Mean±SE | Mean±SE | Mean±SE |
| A | Oxyclozanide (Tremacid® -1000 mg/Tab) 15 mg/kg b.wt orally | 7.48 ± 0.08 | 7.64\*\* ± 0.07  (2.09%) | 7.76\*\* ± 0.08  (3.61%) | 7.88\*\* ± 0.07  (5.08%) | 7.94\*\* ± 0.07  (5.79%) |
| B | Control | 7.56 ± 0.11 | 7.46\* ± 0.08  (1.32%) | 7.32\*\* ± 0.10  (3.17%) | 7.20\*\* ± 0.07  (4.76%) | 7.02\*\* ± 0.09  (7.14%) |

Within the parenthesis value showing (% increase and decrease)

The above values represent the mean±SE of 5 cattle

\*\* = Significant at 1 percent level (p<0.01)

\* = Significant at 5 percent level (p<0.05)

**Table 3:** The efficacy of Oxyclozanide (Tremacid®) at recommended doses on Hb content (gm %) in cattle

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Groups | Drug with dose | Pre-treatment | Post treatment | | | | | |
| Hb at 0 day | Hb at 7th day | | Hb at 14th day | Hb at 21st day | Hb at 28th day | |
| Mean ±SE | Mean ±SE | | Mean ±SE | Mean ±SE | Mean ±SE | |
| A | Oxyclozanide (Tremacid® -1000 mg/Tab) 15 mg/kg b.wt orally | 8.60 ± 0.40 | | 8.90 ± 0.29  (3.37%) | 9.10\* ± 0.40  (5.49%) | 9.60\* ± 0.40  (14.58%) | | 9.70\* ± 0.20  (17.17%) |
| B | Control | 8.70 ± 0.46 | | 8.40 ± 0.37  (3.45%) | 8.20\* ± 0.34  (5.75%) | 8.10\* ± 0.43  (6.90%) | | 7.90\* ± 0.37  (9.20%) |

Within the parenthesis value showing (% increase and decrease)

The above values represent the mean±SE of 5 cattle

\*\* = Significant at 1 percent level (p<0.01)

\* = Significant at 5 percent level (p<0.05)

**Table 4:** The efficacy of Oxyclozanide (Tremacid®) at recommended doses on ESR (mm/1st hour) in cattle

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Groups | Drug with dose | Pre-treatment | Post treatment | | | |
| ESR at 0 day | ESR at 7th day | ESR at 14th day | ESR at 21st day | ESR at 28th day |
| Mean ±SE | Mean ±SE | Mean ±SE | Mean ±SE | Mean ±SE |
| A | Oxyclozanide (Tremacid® -1000 mg/Tab) 15 mg/kg b.wt orally | 1.14 ± 0.07 | 1.06\* ± 0.07  (7.02%) | 0.98\*\* ± 0.06  (14.04%) | 0.94\*\* ± 0.07  (17.54%) | 0.86\*\* ± 0.07  (24.56%) |
| B | Control | 1.08 ± 0.07 | 1.12 ± 0.06  (3.57%) | 1.14 ± 0.06  (5.26%) | 1.14 ± 0.06  (5.26%) | 1.20 ± 0.04  (10.00%) |

Within the parenthesis value showing (% increase and decrease)

The above values represent the mean±SE of 5 cattle

\*\* = Significant at 1 percent level (p<0.01)

\* = Significant at 5 percent level (p<0.05

**Table 5:** The efficacy of Oxyclozanide (Tremacid®) at recommended doses on TLC (thousand/cu.mm.) in cattle

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Groups | Drug with dose | Pre-treatment | Post treatment | | | | | |
| TLC at 0 day | TLC at 7th day | | TLC at 14th day | | TLC at 21st day | TLC at 28th day |
| Mean ±SE | Mean ±SE | | Mean ±SE | | Mean ±SE | Mean ±SE |
| A | Oxyclozanide (Tremacid® -1000 mg/Tab) 15 mg/kg b.wt orally | 8.18 ± 0.04 | 7.88\*\* ± 0.04  (3.67%) | 7.92\*\* ± 0.04  (3.18%) | | 7.94\* ± 0.02  (2.93%) | | 7.98 ± 0.04  (2.44%) |
| B | Control | 7.98 ± 0.08 | 8.08\* ± 0.07  (1.24%) | 8.14\* ± 0.05  (1.97%) | | 8.22\*\* ± 0.04  (2.92%) | | 8.26\*\* ± 0.04  (3.39%) |

Within the parenthesis value showing (% increase and decrease)

The above values represent the mean±SE of 5 cattle

\*\* = Significant at 1 percent level (p<0.01)

\* = Significant at 5 percent level (p<0.05)

**Table 6: The efficacy of Oxyclozanide (Tremacid®) at recommended doses on PCV (%) in cattle**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Groups | Drug with dose | Pre-treatment | Post treatment | | | |
| PCV at 0 day | PCV at 7th day | PCV at 14th day | PCV at 21st day | PCV at 28th day |
| Mean ±SE | Mean ±SE | Mean ±SE | Mean ±SE | Mean ±SE |
| A | Oxyclozanide (Tremacid® -1000 mg/Tab) 15 mg/kg b.wt orally | 29.30 ± 0.62 | 29.90\* ± 0.58  (2.01%) | 30.50\*\* ± 0.57  (3.93%) | 30.90\*\* ± 0.64  (5.18%) | 31.40\* ± 0.53  (6.37%) |
| B | Control | 29.40 ± 0.66 | 29.40 ± 0.58 | 29.00\* ± 0.72  (1.36%) | 28.80\* ± 0.60  (2.04%) | 28.50\* ± 0.67  (3.06%) |

Within the parenthesis value showing (% increase and decrease)

The above values represent the mean±SE of 5 cattle

\*\* = Significant at 1 percent level (p<0.01)

\* = Significant at 5 percent level (p<0.05)

**Table 7:** The efficacy of Oxyclozanide (Tremacid®) at recommended doses on body weight (kg) gain/loss in cattle

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Groups | Drug with dose | Pre-treatment | Post treatment | Live weight gain/loss (kg) | Improvement (%) |
| 0 day (b.wt.) | 28th day (b.wt.) |
| Mean ±SE | Mean ±SE |
| A | Oxyclozanide (Tremacid® -1000 mg/Tab) 15 mg/kg body weight orally | 143.80±3.58 | 146.60\*\* ± 3.71  (1.95%) | +2.80 | +1.95% |
| B | Control | 148.20±4.18 | 146.60\*\* ± 4.25  (1.08%) | -1.60 | -1.08% |

Within the parenthesis value showing (% increase and decrease)

The above values represent the mean±SE of 5 cattle

\*\* = Significant at 1 percent level (p<0.01)

\* = Significant at 5 percent level (p<0.05)

**Figure 1:** The efficacy of Oxyclozanide (Tremacid®) against liver fluke infection

(Fascioliasis) in cattle.

**Figure 2:** The efficacy of Oxyclozanide (Tremacid®) at recommended doses on TEC (million/cu.mm.) in cattle

**Figure 3:** Efficacy of Oxyclozanide (Tremacid®) ® at recommended doses on Hb content (gm %) in cattle

**Figure 4:** The efficacy of Oxyclozanide (Tremacid®) at recommended doses on ESR (mm/1st hour) in cattle

**Figure 5:** Efficacy of Oxyclozanide (Tremacid®)at recommended doses on TLC (Thousand/cu.mm) in cattle.

**Figure 6:** Efficacy of Oxyclozanide (Tremacid®) at recommended doses on PCV (%) in cattl

**Figure 7:** Efficacy of Oxyclozanide (Tremacid®) at recommended doses on body weight (kg) in cattle**.**