

Erratum to: Activity of ivermectin long-acting injectable (IVOMECS[®] GOLD) in first-season grazing cattle exposed to natural challenge conditions in Germany

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The original version of this paper contained a mistake in the presentation of Table 1. Below is the corrected table.

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Table 1 Nematode counts of cattle administered saline (control) or IVM/LAI at weekly intervals prior to turnout for grazing and resulting persistent efficacy (persistence interval [$\geq 90\%$ efficacy, $p < 0.05$])

Parasite	Nematode counts and efficacy		IVM LAI Persistence, 42 days		IVM LAI Persistence, 49 days		IVM LAI Persistence, 56 days	
	Saline (control) NI/NG ^a	Geo mean ^b (range)	NI/NG	Geo mean (range) % Efficacy ^c	NI/NG	Geo mean (range) % Efficacy	NI/NG	Geo mean (range) % Efficacy
<i>Dictyocaulus viviparus</i>	10/10	204.5 (2-989)	0/10	0 100**	0/10	0 100**	0/10	0 100**
<i>Haemonchus contortus</i>	8/10	28.4 (0-200)	0/10	0 100**	0/10	0 100**	1/10	0.4 (0-20) 98.7**
<i>Ostertagia ostertagi/hydrata</i>	10/10	6,153.4 (1,716-11,024)	2/10	2.3 (0-1,241) >99.9**	2/10	1.2 (0-342) >99.9**	5/10	7.4 (0-180) 99.9**
<i>Ostertagia leptospicularis</i>	10/10	407.7 (146-1,355)	1/10	0.7 (0-219) 99.8**	4/10	3.7 (0-538) 99.1**	4/10	4.0 (0-140) 99.0**
<i>Ostertagia</i> spp., inhibited larvae 4	10/10	7,201.1 (1,120-11,420)	7/10	75.0 (0-14,360) 99.0*	10/10	205.7 (20-4,720) 97.1**	9/10	482.5 (0-5,620) 93.3**
<i>Trichostrongylus axei</i>	10/10	2,751.3 (1,680-4,160)	4/10	7.7 (0-640) 99.7**	9/10	91.4 (0-960) 96.7**	9/10	95.6 (0-680) 96.5**
<i>Bunostomum phlebotomum</i>	6/10	10.5 (0-80)	0/10	0 100**	0/10	0 100**	0/10	0 100**
<i>Cooperia oncophora/ surnabada</i>	10/10	14,893.7 (9,720-20,300)	9/10	456.9 (0-22,740) 96.9*	10/10	3,156.7 (980-10,700) 78.8**	9/10	972.3 (0-18,920) 93.5*
<i>Cooperia punctata</i>	10/10	5,557.1 (4,440-7,180)	6/10	23.7 (0-1,640) 99.6**	10/10	149.4 (40-2,020) 730.4 (180-2,600)	8/10	127.1 (0-3,600) 97.7**
<i>Cooperia</i> spp., inhibited larvae 4	10/10	4,554.6 (1,200-15,020)	7/10	53.1 (0-4,420) 98.8**	10/10	84.0** 976.2 (360-3,100)	10/10	630.6 (40-4,500) 86.2**
<i>Nematodirus helveticus</i>	10/10	719.7 (190-2,680)	10/10	771.6 (40-2,980) <0, ns	10/10	<0, ns 39.4 (0-640)	10/10	397.4 (20-2,640) 44.8, ns
<i>Nematodirus</i> spp., inhibited larvae 4	10/10	409.0 (80-1,380)	5/10	11.7 (0-340) 97.1*	8/10	90.4, ns 15.6 (0-240)	9/10	98.9 (0-620) 75.8, ns
<i>Trichostrongylus colubriformis</i>	6/10	35.5 (0-760)	5/10	10.4 (0-640) 70.8, ns	7/10	56.2, ns 0	5/10	14.6 (0-760) 58.9, ns
<i>Oesophagostomum radiatum</i>	10/10	98.0 (40-176)	1/10	0.2 (0-4) 99.8	0/10	0 100*	0/10	0 100**
<i>Trichuris discolor</i>	9/10	25.0 (0-156)	5/10	1.6 (0-12) 93.6*	6/10	3.0 (0-24) 88.2*	3/10	1.7 (0-32) 93.4*

Table 1 (continued)

Parasite	Nematode counts and efficacy		IVM LAI Persistence, 63 days		IVM LAI Persistence, 70 days		IVM LAI Persistence, 77 days	
	Saline (control) NI/NG ^a	Geo mean ^b (range)	NI/NG	Geo mean (range) % Efficacy ^c	NI/NG	Geo mean (range) % Efficacy	NI/NG	Geo mean (range) % Efficacy
<i>Dictyocaulus viviparus</i>	10/10	204.5 (2-989)	0/10	0 100**	0/10	0 100**	0/10	0 100**
<i>Haemonchus contortus</i>	8/10	28.4 (0-200)	0/10	0 100**	0/10	0 100**	3/10	0.4 (0-40) 98.6**
<i>Ostertagia ostertagi/lyrata</i>	10/10	6,153.4 (1,716-11,024)	6/10	8.6 (0-408) 99.9**	8/10	45.2 (0-1,144) 99.3**	9/10	311.9 (0-3,175) 94.9*
<i>Ostertagia leptospicularis</i>	10/10	407.7 (146-1,355)	4/10	3.6 (0-612) 99.1**	9/10	57.3 (0-587) 85.9*	10/10	299.2 (7-960) 26.6, ns
<i>Ostertagia</i> spp., inhibited larvae 4	10/10	7,201.1 (1,120-11,420)	10/10	1,806.2 (240-21,940) 74.9**	10/10	4,447.4 (220-16,860) 38.2, ns	10/10	6,661.0 (80-22,680) 7.5, ns
<i>Trichostrongylus axei</i>	10/10	2,751.3 (1,680-4,160)	10/10	587.9 (100-2,800) 78.6**	10/10	1,476.6 (460-4,660) 46.3*	10/10	2,157.5 (640-7,280) 21.6, ns
<i>Bunostomum phlebotomum</i>	6/10	10.5 (0-80)	0/10	0 100**	0/10	0 100**	0/10	0 100**
<i>Cooperia oncophora/surnabada</i>	10/10	14,893.7 (9,720-20,300)	10/10	3,832.7 (1,220-16,720) 74.3**	10/10	11,673.3 (3,580-27,020) 100**	10/10	8,076.0 (820-21,400) 45.8, ns
<i>Cooperia punctata</i>	10/10	5,557.1 (4,440-7,180)	7/10	1,097.5 (500-3,300) 80.3**	10/10	1,836.4 (200-5,100) 67.0**	10/10	2,377.2 (220-6,300) 57.2**
<i>Cooperia</i> spp., inhibited larvae 4	10/10	4,554.6 (1,200-15,020)	10/10	1,347.1 (40-7,460) 70.4*	10/10	1,602.8 (960-3,160) 64.8**	9/10	1,865.7 (0-14,760) 59.0, ns
<i>Nematodirus helvetianus</i>	10/10	719.7 (130-2,680)	10/10	448.4 (20-1,620) 37.7, ns	10/10	818.6 (20-4,100) <0, ns	9/10	252.1 (0-2,240) 65.0, ns
<i>Nematodirus</i> spp., inhibited larvae 4	10/10	409.0 (80-1,380)	8/10	93.3 (0-760) 77.2, ns	10/10	142.4 (40-660) 65.2, ns	9/10	134.6 (0-620) 67.1, ns
<i>Trichostrongylus colubriformis</i>	6/10	35.5 (0-760)	8/10	58.6 (0-620) <0, ns	6/10	22.1 (0-680) 37.9	8/10	32.2 (0-820) 9.5, ns
<i>Oesophagostomum radiatum</i>	10/10	98.0 (40-176)	0/10	0 100**	3/10	0.8 (0-8) 99.2**	7/10	6.5 (0-60) 93.3**
<i>Trichuris discolor</i>	9/10	25.0 (0-156)	9/10	20.2 (0-80) 19.4, ns	8/10	10.4 (0-104) 58.6, ns	9/10	12.7 (0-108) 49.2, ns

ns not significant at $\alpha = 0.05$

* $p < 0.05$; ** $p < 0.01$; probability from Wilcoxon rank sum test adjusted using Holm method for multiplicity adjustment

^a Number of cattle infected/number of cattle in group

^b Geometric mean count (based on transformation to $\ln[\text{count} + 1]$)

^c %Efficacy = $100 \times (\text{Geo mean Control} - \text{Geo mean IVM LAI/Geo mean Control})$