



360-Day Revalor[®]-XS Implant Strategies in Calf-fed Holsteins

Trial protocol consisted of:

- Colorado trial location
- 1,832 head of cattle, 6 pens of approximately 77 head per pen
- Arrival weight 318 lbs
- 4 implant strategies evaluated
 - Ralgro[®] (36 mg zeranol) day 0, Revalor[®]-IS (80 mg trenbolone acetate, 16 mg estradiol) day 120 and Revalor-S (120 mg trenbolone acetate, 24 mg estradiol) on day 240
 - Ralgro day 0, Revalor-XS (80 mg trenbolone acetate, 16 mg estradiol uncoated; and 120 mg trenbolone acetate, 24 mg estradiol coated) day 120
 - Ralgro day 0, Revalor-IS day 60, Revalor-XS day 160
 - Revalor-XS day 0, Revalor-XS day 160

Table 1. Performance of calf-fed Holstein steers implanted with different implant strategies.

Item	Ralgro/Revalor-IS/ Revalor-S	Ralgro/ Revalor-XS	Ralgro/Revalor-IS/ Revalor-XS	Revalor-XS/ Revalor-XS	p-value
Pens	6	6	6	6	-
Head	457	458	459	458	-
Initial weight	320	319	317	318	0.26
Live basis^h					
Final live weight, ^a lb	1416	1417	1420	1411	0.84
DMI, lb/d	17.46 ^b	17.46 ^b	17.84 ^c	18.03 ^c	0.002
ADG, lb/d	3.05	3.05	3.07	3.04	0.80
F:G	5.73 ^a	5.72 ^a	5.82 ^b	5.93 ^b	0.003

^a 4% pencil shrink was applied to full weight.

^{b,c,d} Treatments means are significantly different (P<.05).

^{e,f} Treatments means are significantly different (P<.05).

^g Final adjusted shrunk weight was calculated as pen hot carcass weight ÷ (overall dressing percent ÷ 100).

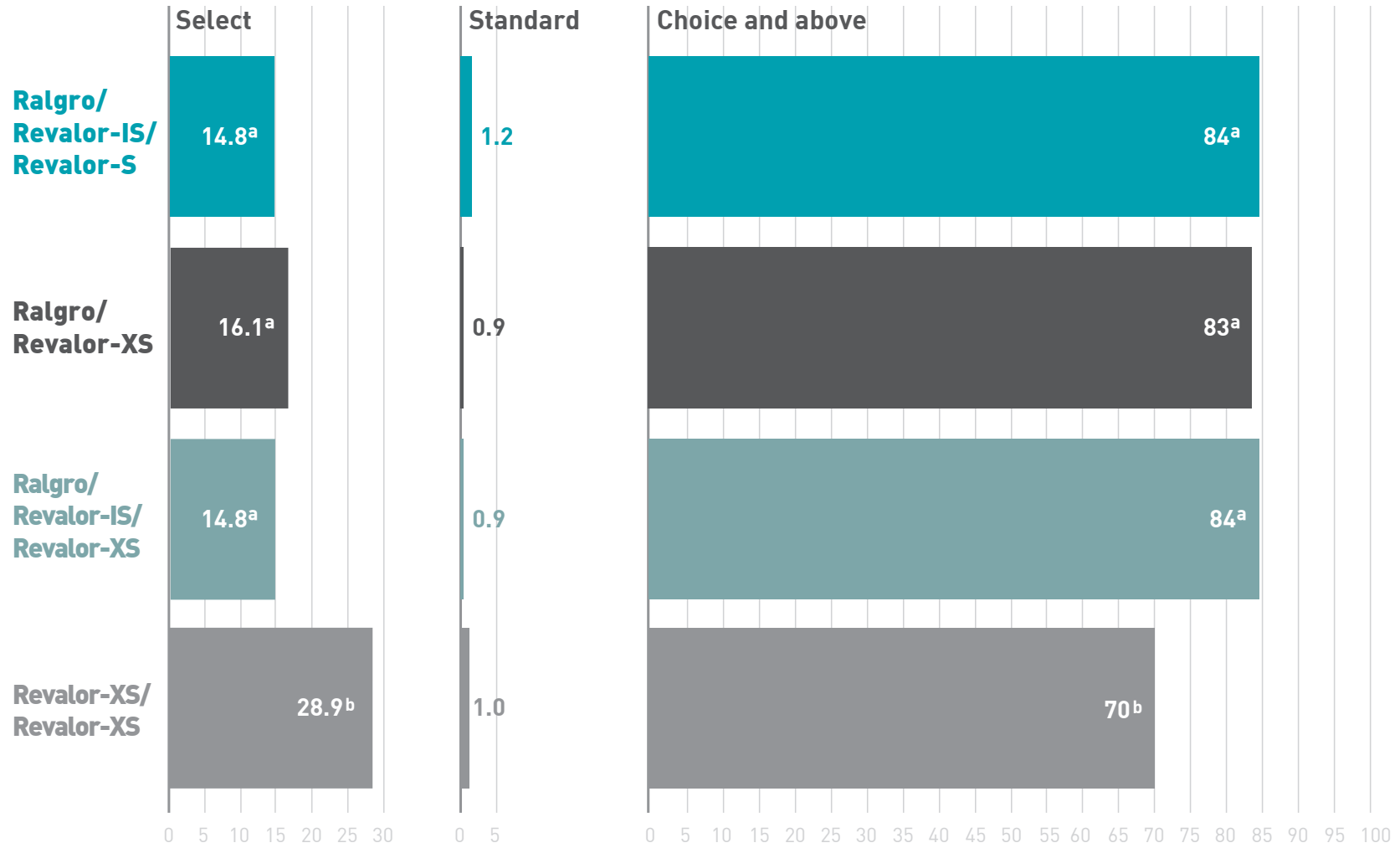
^h Performance reported on a deads out basis.

Table 2. Carcass characteristics calf-fed Holstein steers implanted with different implant strategies.

Item	Ralgro/Revalor-IS/ Revalor-S	Ralgro/ Revalor-XS	Ralgro/Revalor-IS/ Revalor-XS	Revalor-XS/ Revalor-XS	p-value
Hot carcass weight, lb	874	870	871	876	0.91
Dressing percent	61.72 ^{a,b}	61.43 ^a	61.32 ^a	62.08 ^b	0.03
Marbling score	457 ^a	468 ^a	457 ^a	433 ^b	0.001
Rib fat, in.	0.32 ^a	0.32 ^a	0.34 ^b	0.32 ^a	0.05
Ribeye area, sq. in.	12.94 ^a	12.45 ^{a,b}	12.44 ^b	12.98 ^a	0.01
Average YG	2.84 ^a	2.97 ^{a,b}	3.04 ^b	2.82 ^a	0.02
USDA Quality Grade, as a percentage of total^h					
Prime	1.4 ^{a,b}	3.3 ^a	1.1 ^b	0.9 ^b	0.05
Premium Choice	18.9	24.3	20.6	12.7	0.28
Low Choice	63.7 ^a	55.4 ^c	62.5 ^{ab}	56.5 ^{b,c}	0.05
Select	14.8 ^a	16.1 ^a	14.8 ^a	28.9 ^b	0.001
Standard	1.2	0.9	0.9	1.0	0.98
Choice and above	84 ^a	83 ^a	84 ^a	70 ^b	0.04
USDA Yield Grade, as a percentage of total					
YG 1	12.6 ^a	8.6 ^b	7.6 ^b	11.6 ^a	0.05
YG 2	47.4 ^{a,b}	43.2 ^{a,b}	41.0 ^a	49.6 ^b	0.02
YG 3	31.9 ^a	40.0 ^b	40.9 ^b	34.5 ^a	0.05
YG 4	8.1 ^a	8.2 ^a	10.5 ^a	4.3 ^b	0.03
Empty body fat, %	29.1	29.9	30.4	29.0	0.68
HCW Distribution, as a percentage of total					
<550	0.00	0.23	0.22	0.23	0.57
<950	81.33	82.09	82.87	83.41	0.81
950-1000	10.82	12.32	12.32	10.82	0.86
1000-1050	6.45	3.95	3.88	4.37	0.21
>1050	1.38	1.39	0.91	1.15	90
Holstein loin (HL) Distribution, %					
HL 1	58.3 ^a	45.9 ^b	44.3 ^b	61.2 ^a	0.001
HL 2	20.8 ^a	30.6 ^b	27.5 ^b	21.4 ^a	0.02
HL 3	18.9 ^a	19.4 ^a	25.7 ^b	16.0 ^a	0.03
HL 4	2.0 ^{a,b}	4.1 ^a	2.5 ^{a,b}	1.4 ^b	0.04

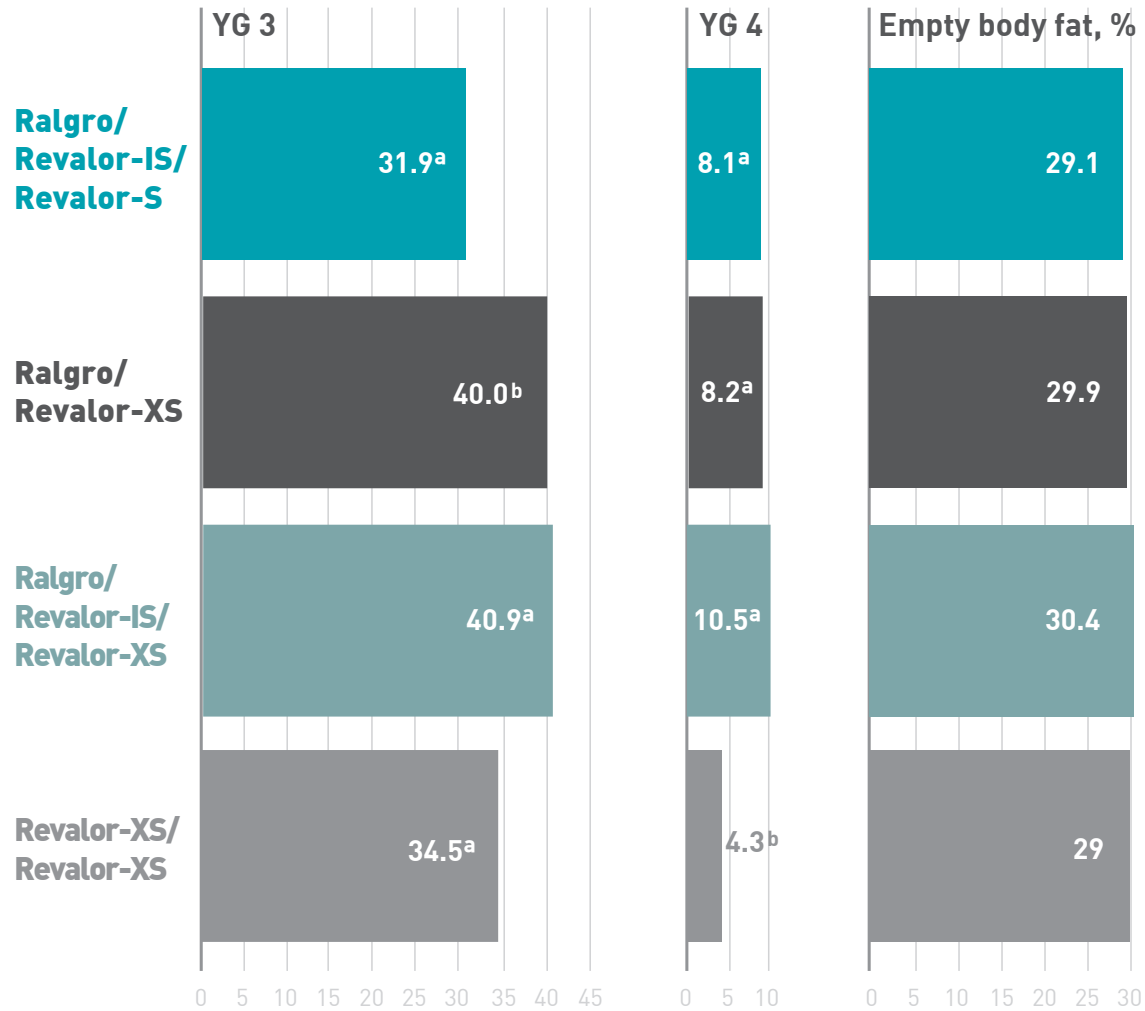
^{a, b, c} Treatments means are significantly different (p<.05).

USDA Quality Grade, as percentage of total



^{a, b, c} Treatments means are significantly different ($p < .05$).

USDA Yield Grade, as percentage of total



^{a, b, c} Treatments means are significantly different ($p < .05$).

Summary

Ralgro/Revalor-XS was equal to an implant program of Ralgro/Revalor-IS/Revalor-S in performance characteristics indicating Revalor-XS can replace a re-implant date. Revalor-XS as a terminal implant program vs. Revalor-IS/Revalor-S reduced (P=0.09) buller incidence. Ralgro/Revalor-XS had smaller ribeye area, fewer low Choice, YG 1 carcasses and more YG 3 carcasses when compared to Ralgro/Revalor-IS/Revalor-S steers. More aggressive implant programs of Ralgro/Revalor-IS/Revalor-XS and Revalor-XS/Revalor-XS had greater dry matter intake (DMI) and had less desirable F:G, lower marbling score and poorer quality grade distribution.

Conclusion

Implanting calf-fed Holsteins with Ralgro followed by Revalor-XS on day 120 resulted in one less implant date and equal performance to a program of Ralgro/Revalor-IS/Revalor-S and improved F:G and better quality grade distribution when compared to a more performance-based implant program.

A withdrawal period has not been established for Ralgro and Revalor in pre-ruminating calves. Do not use in calves to be processed for veal. For complete information, refer to product label.