Implant Considerations at the Ranch & Feedyard

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Considerations of implant use

- Consumer views
- Superior genetics
- Logistics
- Another Management Issue
- Impact on Product

Considerations of implant use

- Reduce Labor / serving of beef
- Reduce C footprint / serving beef
- Increase WW and HCW without having to change cows or bulls
- Don’t cause dystocia
- Most reliable & predictable tool we have

Considerations of implant use

Greed is a Sin

Ignorance is no excuse

What we were doing

Calves born late Mar- May 1

Syn C at branding or Aug

Wean Halloween at 675 lb

Syn S at pre-Thanksgiving

Syn Plus at Valentines Day

Ship at Memorial Day

What we were doing - OutCome

Calves born late Mar- May 1

Syn C at branding or Aug

Wean Halloween at 675 lb

Syn S at preThanksgiving

Syn Plus at Valentines Day

Ship at Memorial Day

HCW 865 lb

CAB 42%

Cho or better 94%

Y4 15%

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Suckling Calf Implants

- No influence on post-weaning performance
- No influence on Quality Grade
- Added WW is sustained to hot carcass scale
- Systemwide favorable outcomes require
  - communication and proper strategy

WW & Suckling Calf Implants

Cows	None	May	August	Average
Young	518 [a]	527 [a,b]	543 [b]	**530**
Mature	561 [c]	601 [e]	578 [d]	**580**

WW & Suckling Calf Implants

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Average	**540**	**564**	**561**

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Mature - May
Young – Aug
575 lb

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Weaning Wt since 1990

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What Implants Do

- Response is Potency Dependent
- Response is % basis
- Estradiol increases Frame Size
- Animals revert to genetic potential if therapy is withdrawn

	No Impl	Branding Only	Weaning Only	Both Implants
WeanWt	610	650	610	650
120d Wt (Feb)	784	784	801	841
Postwean CoG, $/cwt	83.80	111.14	80.60	81.61
Marginal $/Cow	--	(3.13)	8.83	46.94

Options on the Ranch Selling at…

a) Weaning

b) 45 days post-weaning

c) 100 days post-weaning

d) Carry over to grass

e) R-O high performance

Options on the Ranch Selling at…

a) Weaning	branding Syn C or Ralgro
b) 45 days post-weaning	lo dose reimplant in Aug
c) 100 days post-weaning	a) + mod dose implant (at or after)
d) Carry over to grass	none on cow or at weaning
e) R-O high performance	see slide 5

Options on the Ranch

Creep feeder - you need to implant

Fenceline weaning – no implant at that time

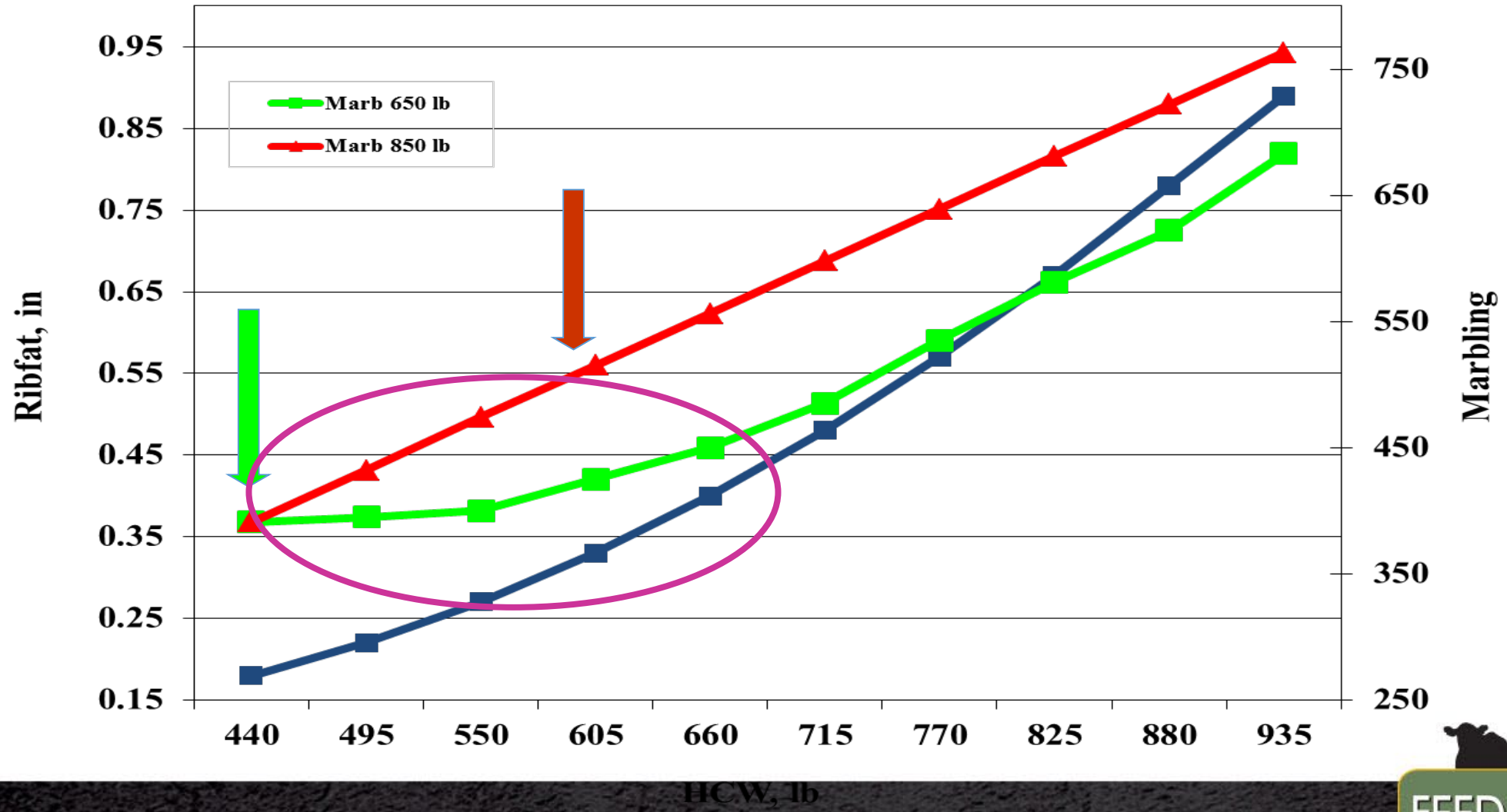
Deworm – except at high plains branding

Downsizing cow weights – calves need implant frame boost

Post-Weaning Implants

- Strategies can add 75 – 100 lb to Mkt Wt at same days on feed
- Match Potency to Frame Size & Caloric Intake
- Grade depression is inadequate caloric intake
  - Mistake happens on the front end
  - Mistake cannot be resolved without increasing Y4 carcasses

Ribfat, Marbling v HCW



Bruns et. al.,1999

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Feedlot Implants

- Step up dosage over time
- Terminal Potency pays best as growth curve tries to fatten
- Get your days count right!!!
- Adjust Potency to Frame Size at diet NE fed
- No upside to O/D. O/D does have downside ramifications.

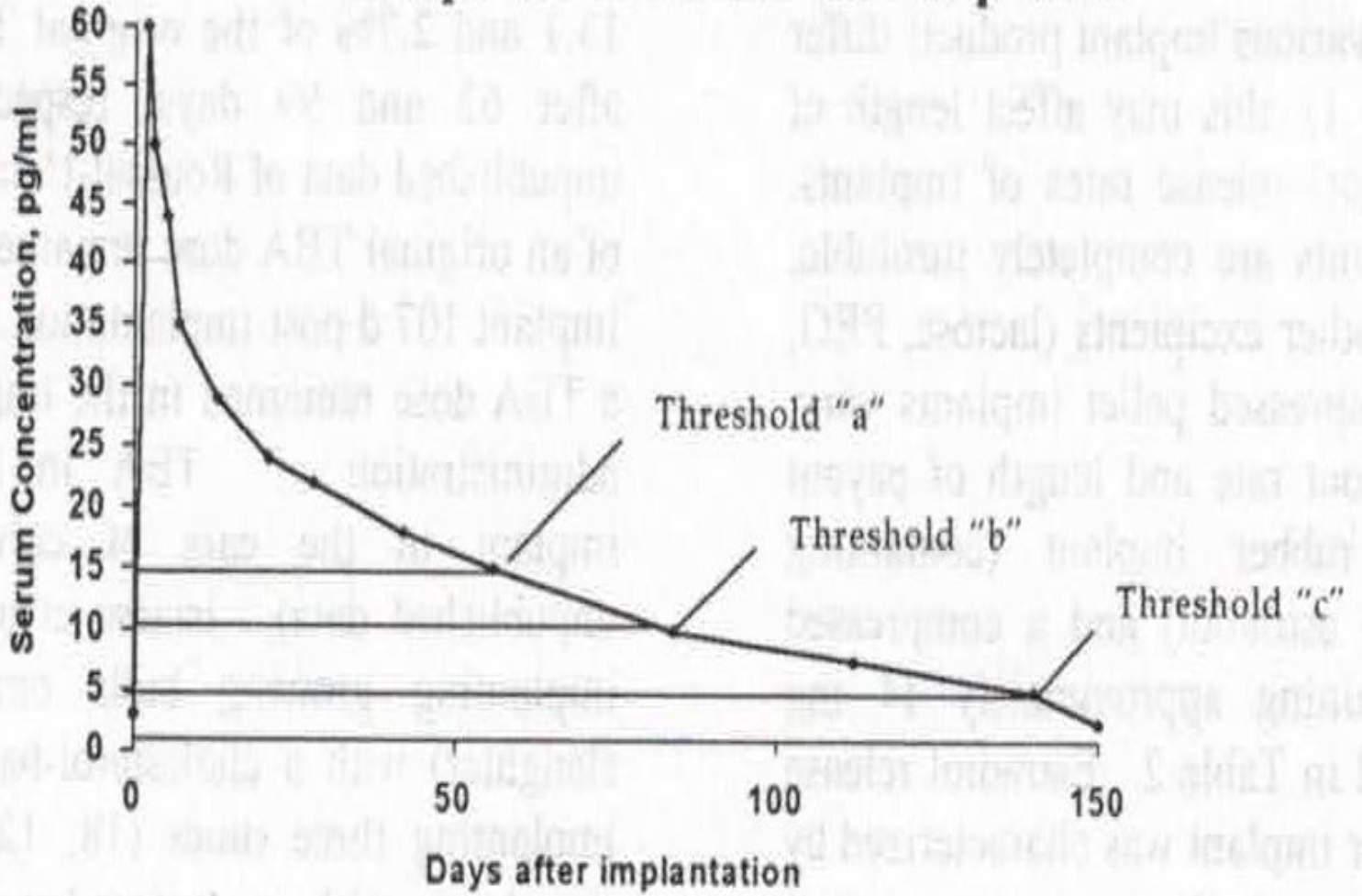
Long Acting Implants

Crescent wrench or combination wrenches

- Elanco – Compudose and Encore
- Merck – Revalor XS and Revalor XH
- Zoetis – Synovex One Grass and Synovex One Feedlot

Products are Very different in function

Figure 1. Biphasic nature of hormone absorption from an ear implant.



Brandt. 1997

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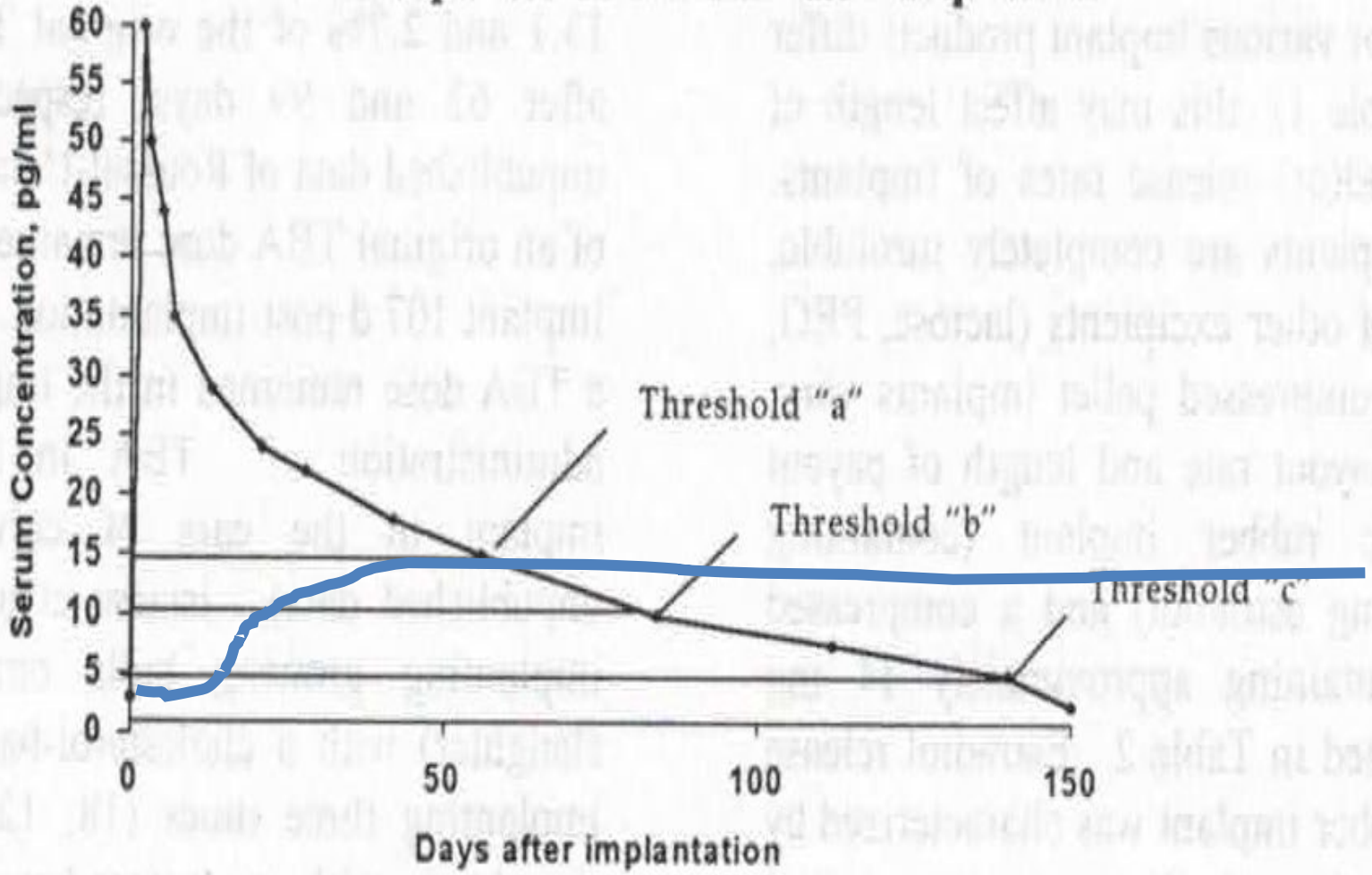

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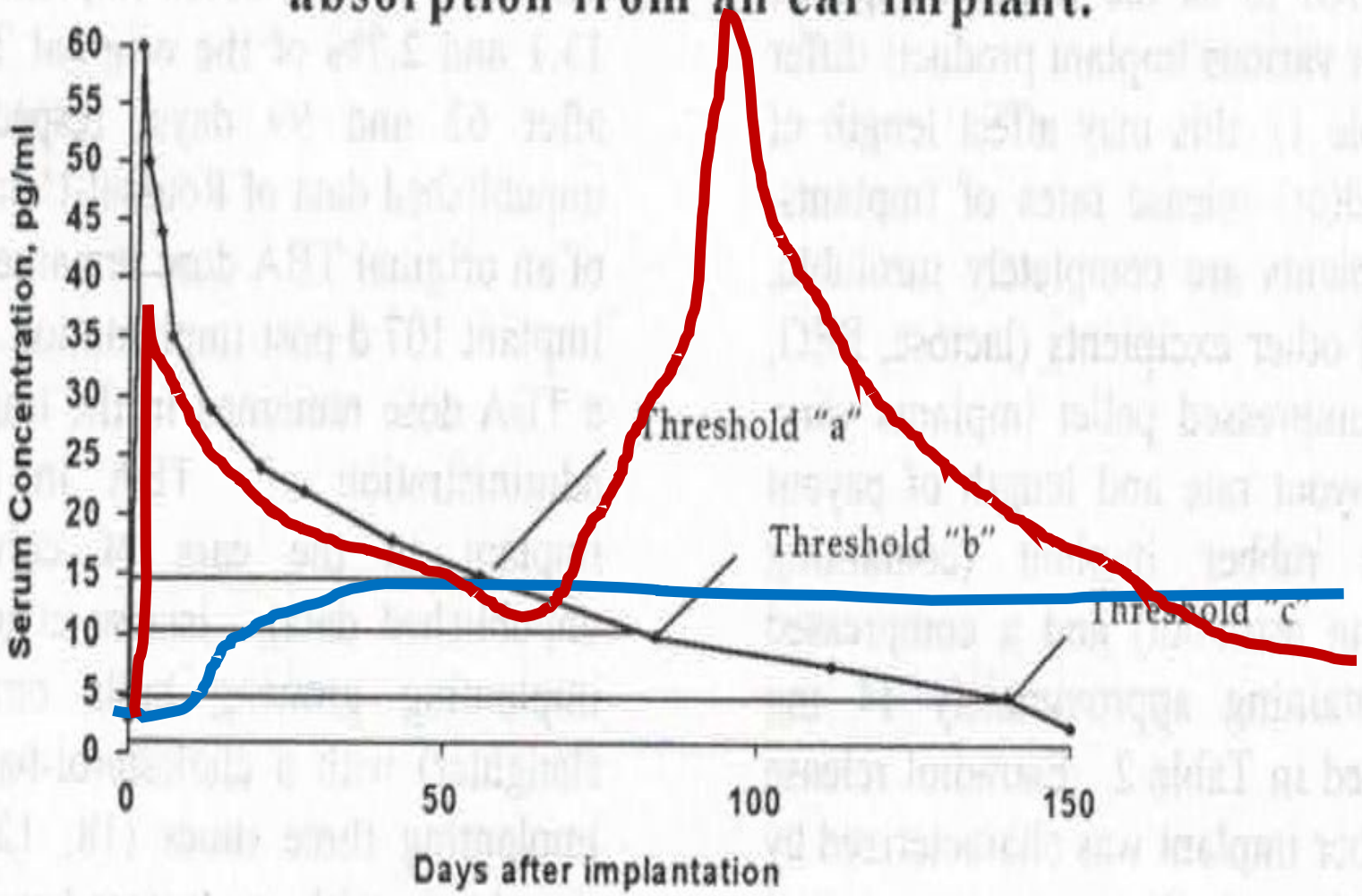

Brandt. 1997

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Long Acting Implants or Re-implant

Control and Adaptability

Performance

Logistics, Labor, Facilities, & Management

Price

Consider This…

There are 2 classes of cattle that don't benefit from implants.

I. Sick or Parasitized
II. Massive. Think Canadian Simm x

Management Matters

I. Nutritional Environ, Feed/Bunk Mgmt, Implant Strategy
II. Mud

Wrap Up

The 3 things to worry about regarding implants.

Not using them

Not getting them administered properly

Using them without sound technical advice

Thank you

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Cattle Class [a]	System[b]	Active Ingredients	mg (*)	Original Brand	Cattle Class [a]	System [b]	Active Ingredients	mg (*)	Original Brand
S, H, C	P, F	Zeranol	36‡	Ralgro	S	P, F	Estradiol TBA	8 40	Revalor-G
S, H, C	F	Estradiol B Progesterone	10 (7) 100	Synovex C	S	F	Estradiol TBA	16 80	Revalor IS
S	F	Zeranol	72‡	Ralgro Magnum	H	F	Estradiol TBA	8 80	Revalor IH
S	P, F	Trenbolone Acetate (TBA)	140	Finaplix S*	S	F	Estradiol B TBA	14 (10) 100	Synovex Choice
H	F	TBA	200	Finaplix H	S	F	Estradiol TBA	24 120	Revalor S
S	P, F	Estradiol B Progesterone	20 (14) 200	Synovex S	S, H	F	Estradiol B TBA	28(20) 200	Synovex Plus
S, H, C	P, F	Estradiol	25.7	Compudose	S	F	Estradiol TBA	40 200	Revalor XS (timed release)
S, H, C	P, F	Estradiol	43.9	Encore	S,H	F	Estradiol B TBA	28(20) 200	Synovex One Feedlot (timed release)

[a] S = Steer; H = heifer; c = suckling calves; [b] P = pasture, F = feedlot; * Estradiol equivalent, mg; ‡ As zeranol