



VITALAC

Glycoline
The assurance
for a good start in lactation

Ketosis prevention



To prevent ketosis



To understand

effects of subclinical ketosis on dairy cows

- Low dry matter intake
- Loss body weight > 1 after one month lactation
- Low peak milk
- Drop in milk yield
- Delayed heat
- Bad fertility
- Bad longevity
- Protein to fat ratio < 0.7
- Displaced abomasum

To diagnose

Blood test "ketone bodies" there is subclinical ketosis when BHBA test is over 1.2 mmol/liter between 5 and 25 days in milk

Effects of subclinical ketosis on fertility results

Results of BHBA test on 800 Holstein cows in week 1 and week 2 after calving	Success in first AI	Open days
Test BHBA < 1 mmol / l	50 %	108 days
Test BHBA > 1 mmol / l	25 %	132 days

Walsh-Duffield-Leblanc
JDS June 2007 - pages 2788 to 2796

Diagnostic Solutions Follow up

To prevent Ketosis

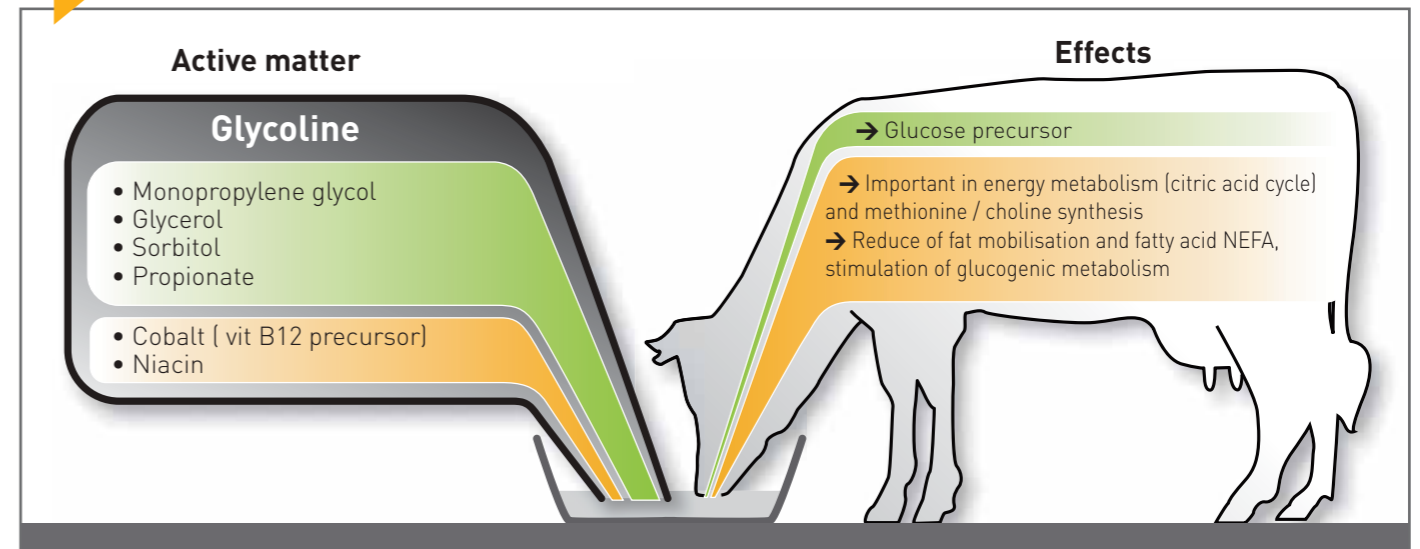
Glycoline : effective and profitable solution

- significant results in fields and trials
- + 1.5 kg DM intake on fresh cows
 - + 10% milk yield (+2 to 4 kg)
 - Increase of feed efficiency
 - Increase of blood glucose
 - Reduce of ketone bodies in blood
 - Reduce of interval calving -first service
 - increase visits in milk robot system : +0.2 milking/day

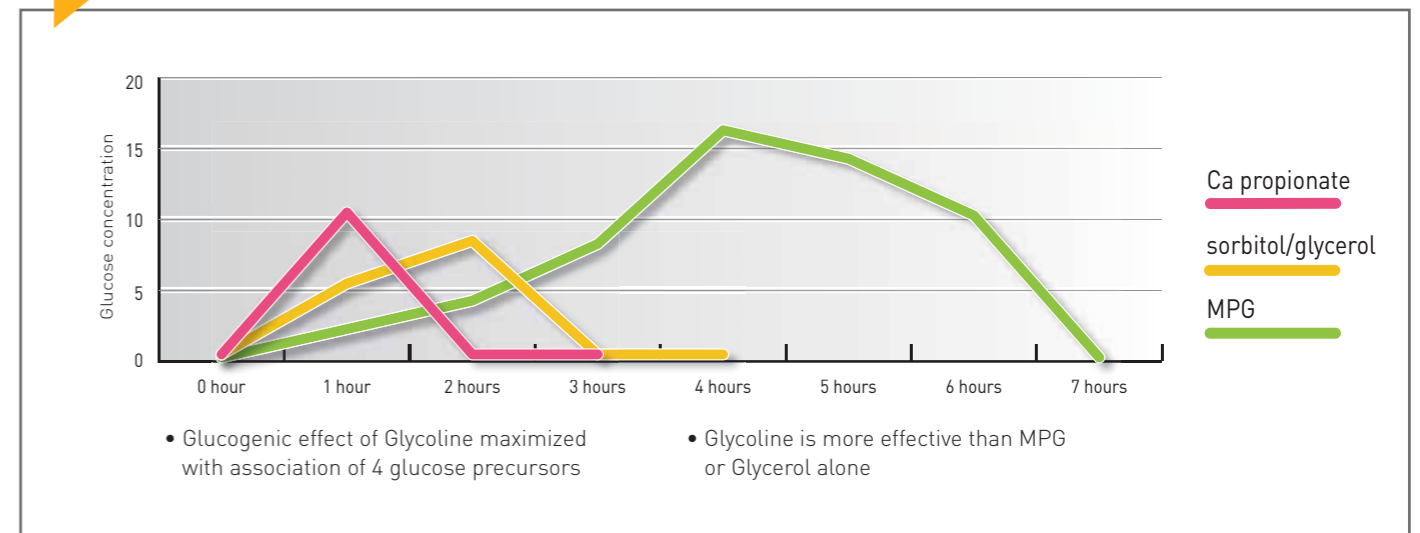
return on investment
= 10 to 1

Characteristics of Glycoline

Composition of Glycoline



Synergy and kinetics of the glucogenic agents





→ Effects of Glycoline on blood Glucose, ketone bodies and milk yield on peak milk

	BHBA mmol/ l	Glucose (mg/l)	Peak milk
Control	0,625	48	35 kg milk
300 g Glycoline - 20 to + 30 days / calving	0,513	52	38 kg milk
Glycoline results	Reduce of ketosis risk	Increase of blood glucose	Increase of peak milk + 3 kg milk

Doctor thesis Dr Samiei Khosrow 2011

How to use Glycoline ?

→ Prevention

GLYCOLINE		Calving					Weeks				
		-3	-2	-1	+1	+2	+3	+4	+5	to	+10
	Powder/pellet	350 g				350 g				150 g	
	Liquid	150 ml				250 ml				150 ml	

→ In case of clinical ketosis

- ✓ Liquid glycoline : 400 ml / day during 5 days
- ✓ 400 ml mixed in Drench solution



Presentation

Powder/pellet



25 kg bag

Liquid



5 and 30 kg container



200 and 1000 kg container



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