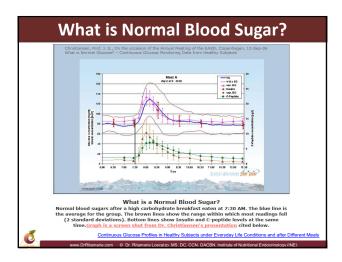
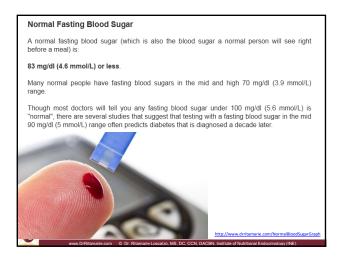
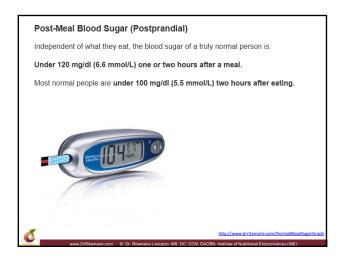
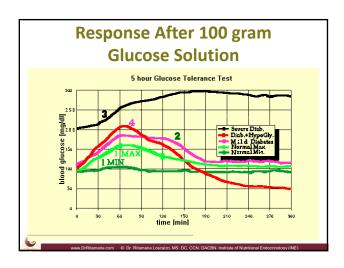


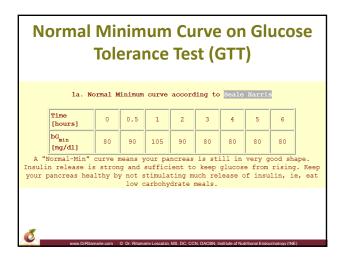
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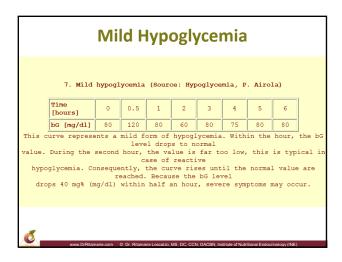


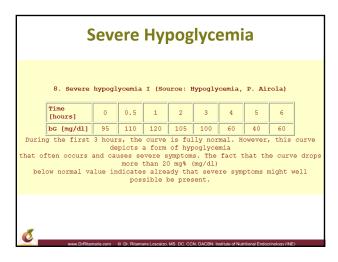




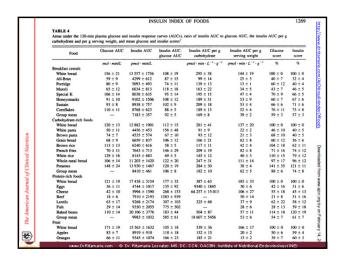
•	"Norm	nal"	Ma	axir	nur	n C	urv	e -	GT [*]	Γ
	1b. No	ormal M	aximum	curve	accord	ling to	Seale	Harris	s	
	Time [hours]	0	0.5	1	2	3	4	5	6	
	bG _{max} [mg/dl]	120	135	160	130	110	100	110	105	
The "No	ormal-Max" r	espons			re alr		ell sta	erted o	n the	road to
O.	www.DrRitar	narie.com	© Dr. Ritam:	arie Loscalzo	. MS. DC. CC	N. DACBN. I	nstitute of Nu	utritional Endo	ocrinology (IN	IE)

Pattern of Early Hypoglycemia										
6. Pre-hypoglycemia (Source: Hypoglycemia, P. Airola)										
	Time [hours]	0	0.5	1	2	3	4	5	6	
	bG [mg/dl]	90	115	140	100	85	80	70	75	
The curve is typical for a prestage of hypoglycemia. However, a range of mild symptoms may be present at this stage. A 3-hour GTT would not have been long enough to diagnose this type of hypoglycemia.										
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Some Foods Don't Raise Glucose, But Do Increase Insulin Dairy produces high insulin responses, despite low GI Insulin response to milk not just due to lactose in the milk sugar Amino acids leucine, valine, lysine, and isoleucine are insulinogenic — highest in whey Protein-rich foods and foods rich in fat and refined carbohydrate elicited insulin responses that were higher than their glycemic responses Protein-rich foods or the addition of protein to a carbohydrate-rich meal can stimulate a modest rise in insulin secretion without increasing blood glucose Glycemia and insulinemia in healthy subjects after lactose-equivalent meals of milk and other food proteins: the role of plasma amino acids and incretins Milicel Nilsson, Marionne Stenberg, Anders H Frid, Jens I Holst and Inger ME Björck Applied Mutition and Food Chemistry, I MD Batt, 2, 22100 Ling. Sweden http://www.drithamare.com/ACR/PismaAminosAcid



	Low GI foods (GI= :	1-39)	Moderate GI foods (GI= 40-59)					
Food	Portion size	Calories	Carbohydrate (gM)	Glycemic Index	Insulin Index**			
Breakfast cereals								
Oatmeal	3/4 cup	240	36.5	60	40			
Cornflakes		240	46.3	76	75			
Special K		240	41.2	70	66			
All Bran		240	43.1	42	32			
Muesli		240	36.9	60	40			
Grains/pasta								
Brown rice	1/2 cup	240	58	76	62			
White rice	1/2 cup	240	56	110	79			
White pasta	1 cup	240	39.7	46	40			
Brown pasta	1 cup	240	37.2	68	40			

Effects of Fat and Protein on Blood Glucose and Insulin Milk proteins have insulinotropic (insulin raising) properties; the whey fraction contains the predominating insulin secretagogue. Protein-rich foods or protein added to a carbohydrate-rich meal can stimulate insulin secretion without increasing blood glucose. A large amount of fat added to a carbohydrate-rich meal increases insulin secretion even though plasma glucose responses are reduced.** Hyperinsulinemia (too much insulin)—when induced experimentally over a 48–72 hour period may induce insulin resistance in healthy subjects. **Toycomia and insulinational in leasting subjects after lactose-equivalent models of milk and other food proteins: the role of plasma amino Land University, PO Set 74, 22 to O Land. Sweden in proceedings in the control of the contro

Conclusion: Effects of Milk on Insulin ✓ It can be concluded that food proteins differ in their capacity to stimulate insulin release, possibly by differently affecting the early release of incretin hormones and insulinotropic amino acids. Milk proteins have insulinotropic properties; the whey fraction contains the predominating insulin secretagogue. Glycemia and insulinemia in healthy subjects after loctose-equivalent meals of milk and other food proteins: the role of plasma amino acids and incretins Milacel Misson, Marianne Steaberg, Anales at Hrid, Jens Holts and longer the Bijoric Applied Murition and Food Chemisty, Land University. Undo University. Pod Dac 124, 275 (20 Lund.) Sweed militage. com/AICHP analyments. Administration and Food Chemistry. Land University. Pod Dac 124, 275 (20 Lund.) Sweed militage. Com/AICHP analyments.

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