



Insulin analogues vs human insulins: Summary of COMPUS findings

	A1C	Hypoglycemia		
		Severe	Nocturnal	Overall
Type 1 diabetes				
Basal Insulin				
Adults				
Children				
Bolus Insulin				
Adults				
Adolescents				
Children				
Type 2 diabetes				
Basal Insulin				
Adults				
Bolus Insulin				
Adults				

Legend	
No significant difference	
Benefit with analogue	
Inconsistent results	

A1C results are clinically significant differences.
Hypoglycemia results are statistically significant differences.

COMPUS recommendations for human insulins and insulin analogues

Type of insulin	Type 1 diabetes			Type 2 diabetes
	Adults	Adolescents	Children	Adults
Basal	NPH	NPH	NPH	NPH
Bolus	Reg HI or IA	IA	Reg HI or IA	Reg HI

Legend	
NPH = neutral protamine Hagedorn insulin Reg HI = regular human insulin IA = insulin analogue	
Strong recommendation	
Weak recommendation	

Strong and weak refer to the GRADE evidence system. See page 16 of handout.

COMPUS states that insulin analogues can be tried in patients experiencing hypoglycemia.