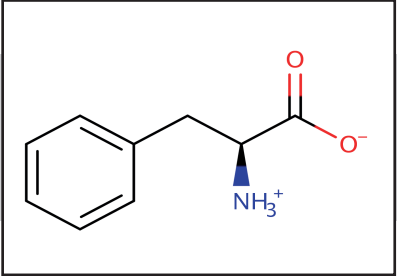


Effect of phenylalanine intake on glucose and insulin dynamics



A											
Oral phenylalanine ingestion											
First author	Subject condition	Amount administered	Ingestion type	# Subjects	Insulin time points	Insulin time to peak (min)	Insulin peak concentration (μU/mL)	Glucose time points	Glucose time to peak (min)	Glucose peak concentration (mg/dL)	
[58] Nuttal, FQ	Healthy	Water	Oral	6	14	20	9.9	14	100	80.0	
	Healthy	9.7g phenylalanine	Oral	6	14	30	14.4	14	60	84.2	
<div><div></div> Healthy - water</div> <div><div></div> Healthy - phenylalanine</div> <div><div>Dynamic insulin response</div><div>Dynamic glucose response</div><div>Insulin iAUC</div><div>Glucose iAUC</div></div>											
B											
Oral phenylalanine+glucose ingestion											
First author	Subject condition	Amount administered	Ingestion type	# Subjects	Insulin time points	Insulin time to peak (min)	Insulin peak concentration (μU/mL)	Glucose time points	Glucose time to peak (min)	Glucose peak concentration (mg/dL)	
[58] Nuttal, FQ	Healthy	25g glucose	Oral	6	14	50	49.3	14	40	109.8	
	Healthy	9.7g phenylalanine +25g glucose	Oral	6	14	30	64.8	14	30	112.7	
<div><div></div> Healthy - glucose</div> <div><div></div> Healthy - phenylalanine+glucose</div> <div><div>Dynamic insulin response</div><div>Dynamic glucose response</div><div>Insulin iAUC</div><div>Glucose iAUC</div></div>											
C											
Intravenous phenylalanine infusion											
First author	Subject condition	Amount administered	Ingestion type	# Subjects	Insulin time points	Insulin time to peak (min)	Insulin peak concentration (μU/mL)	Glucose time points	Glucose time to peak (min)	Glucose peak concentration (mg/dL)	
[17] Floyd, JC	Healthy	15g phenylalanine	IV-Infusion	11	10	5	20.2	10	0	93.4	
<div><div></div> Healthy - phenylalanine</div> <div><div>Dynamic insulin response</div><div>Dynamic glucose response</div><div>Insulin iAUC</div><div>Glucose iAUC</div></div>											

*iAUC: Incremental area under the curve
**iAUC, time to peak and peak concentrations were calculated from the extracted data