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mg/dl D

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(BMI)

(m²)
cc

(kg)

Food Processor

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D

°C

D

°C

(Pars Azmoon kit)

Food Processor

ELISA (IRMA)

(

) RIA

C

D

(BioSource Europe S.A)

Food Processor

(RIA)

D3

D

(Biosource Europes.A,Ò)

Krause's Food, Nutrition and Diet Therapy

D

) (2004)

D

ng/ml

25-OH-D

(

D

ng/ml

SPSS

ng/ml

25-OH-D

()

D

XP

SPSS (Version 11.05)

/ / mg/d

/ mg/dl

()

/ ± /

BMI

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(

(ANOVA for repeated measurement)

McNemar

D

(n =)

P-Value	D		()
	(n =)	(n =)	
/	/ ± /	/ ± /	()
/	/ ± /	/ ± /	()
/	/ ± /	/ ± /	(kg)
/	/ ± /	/ ± /	(Cm)
/	/ ± /	/ ± /	BMI (kg/ m ²)
/	()	(/)	
/	()	(/)	
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/	()	()	
/	(/)	(/)	
/	(/)	(/)	

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D

D,C,E

.()

.(P< /)

(n =)

گروه دارونما (n = ۲۷)			گروه مکمل ویتامین D (n = ۳۰)			
(±)			(±)			
‡	‡	‡	‡	‡	‡	
/ ± /	/ ± /	۹/۴۵ ± ۰/۲۱	/ ± /	/ ± /	۹/۴۶ ± ۰/۲۵	(mg/dl)
/ ± /	/ ± / *	۱۴/۲۴ ± ۱۱/۷۷	/ ± / ^c	/ ± / **	/ ± / ^a	25-OH-D (ng/ml)
/ ± /	/ ± /	۱۵۹/۴۳ ± ۵۷/۸۱	/ ± /	/ ± /	۱۸۷/۹۷ ± ۶۱/۲۴ ^b	(mg/dl)
/ ± /	/ ± /	۲۲/۴۳ ± ۴۱/۹۵	/ ± /	/ ± /	۲۲/۴۳ ± ۴۱/۹۵	(μU/ml)
/ ± /	/ ± /	۲/۶۹ ± ۱/۰	/ ± /	/ ± / *	۲/۴۷ ± ۰/۸۸	(ng/ml) C
/ ± /	/ ± /	۰/۳۱ ± ۰/۰۳۲	/ ± / ^d	/ ± / **	۰/۳۰ ± ۰/۰۳۴	QUICKI

.D

25-OH-D

25-OH-D
QUICKI

/ P *
/ P **
/ P^a
/ P^b
/ P^c
/ P^d

C

D

QUICKI

C

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25-OH-D

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(n=)

D	D	D	D
D	D	D	D
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()	()	(/)	(/)
/ *	/	† (P)	

(% /)

25-OH-D

D

D

D

McNemar

/ P *
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D

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(Clamp IR)

QUICKI

QUICKI

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Clamp IR QUICKI

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(P < × r = /)

() (P < / r = /)

QUICKI

QUICKI

(P < / r = /)

Clamp IR

D (IU/d)

(P < / r = /)

QUICKI

()

)

(

()

D3

25-OH-D

D

% /

% /

D

D

D

()

D

(/ ± / ng/ml)

D

%

25-OH-D

Quantitative Insulin Sensitivity Check Index

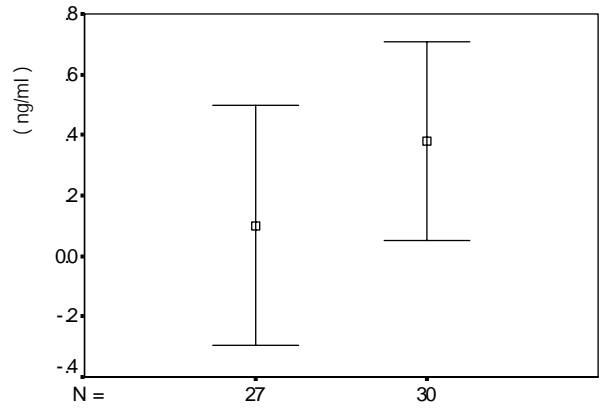
25-OH-D

()

(QUICKI)

(gold standard)

Euglycemic Hyperinsulinemic Clamp Study



C

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D

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1,25-OH-D

D

1,25-OH-D

()

D

IU

() Roghuramula

()

D

OGTT

Boucher

Boucher

D

()

() Borissova

"specific insulin"

IVGTT OGTT

D

() Roghuramula

OGTT

() Borissova

IVGTT

D

C

()

IU

C

()

C

() Boucher

D

IU

IGT

() Orwoll

()

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