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			D	:	
					D
()				:	
			25-OH-D		
D3	IU/d				D
(FBS)	(BMI)		25-OH-D C		
		D	E,C		
(% /)	/ ± / ng/ml	25-OH-D		:	
%	(25-OH-D < 20 ng/ml)	D			
		D			
(P < /)		C			D
	(P < /)		/ ± / ng/ml		/ ± / ng/ml
		D			
			QUICKI		
	D				(P < /)
	D			:	
			D	:	

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D3 (IU/d)

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D
Boquist

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(IU/d) D

(D) D

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mg/dl

mg/dl

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)D

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D

C E

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D

C E)
(
)
() BMI
D
D seca seca
() /
(BMI)
(m²) (kg)
cc
Food Processor °C
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
 (ANOVA for repeated measurement)
 McNemar
 D
 (n =)

P-Value	D	
	(n =)	(n =)
/	/ ± /	/ ± /
/	/ ± /	/ ± /
/	/ ± /	/ ± /
/	/ ± /	/ ± /
/	/ ± /	/ ± /
/	()	(/)
/	(/)	(/)
/	(/)	(/)
/	(/)	(/)
/	(/)	(/)
/	(/)	(/)
/	(/)	(/)
/	(/)	(/)
/	(/)	(/)

)
)
 (kg)
 (Cm)
 BMI (kg/m²)
 D
 D
 D,C,E
 ()
 (P < /)
 t : † t

(n =)

		گروه دارونما (n = 27)		گروه مکمل ویتامین D (n = 30)		
		(±)		(±)		
‡						
/ ± /	/ ± /	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

()

D

25-OH-D

(n=)

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

(% /)

D

25-OH-D

D

D

D

McNemar

D

/ P *
†

()

(Clamp IR)

QUICKI

QUICKI

()

Clamp IR QUICKI

()

(P < × r = /)

() (P < / r = /)

QUICKI

QUICKI

(P < / r = /)

Clamp IR

D (IU/d)

(P < / r = /)

QUICKI

()

)

(

25-OH-D

()

D3

D

% /

% /

D

D

D

()

D

(/ ± / ng/ml)

D

%

25-OH-D

Quantitative Insulin Sensitivity Check Index

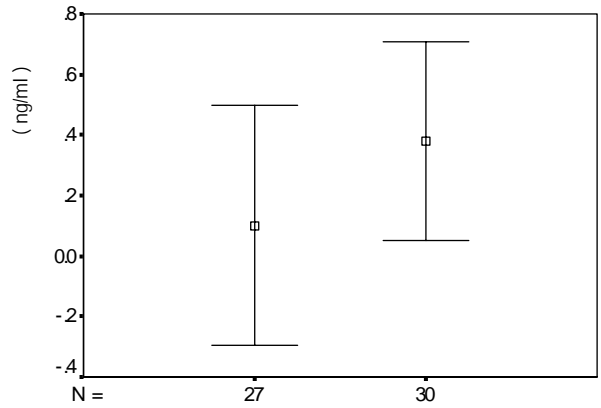
25-OH-D

()

(QUICKI)

(gold standard)

Euglycemic Hyperinsulinemic Clamp Study



Archive of SID

(IDDM)

() (D) VDR 25-OH-D
 () 25-OH-D
 D ()
 (CaBP) D Calbindin C_{K28} 1,25-OH-D
 ()
 D 1,25-OH-D /
 D
 25-OH-D -
 D 1,25-OH-D ()
 25-OH-D 25-OH-D
 D 25-OH-D
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 (%) D
 25-OH-D (%) / ± / ng/ml
 D
 D
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) 25-OH-D D
 (IGT
 D ()
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 25-OH-D
 D

() Orwoll

D D

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()

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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

()

(IVGTT)

% /

C

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D

D

D

C

QUICKI

D

D

D

()

%

D

D

D

D

D

(

IU/d)

D

%

C

D

D

D

ng/ml

25-OH-D

%

D

D

(P= /)

%

D

D

(/ ± / ng/ml)

D

()

%

D

D

(Borissova)

D

()



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