

ارتباط گلوبولین متصل شونده به هورمون جنسی با دیابت بارداری

*

چکیده

مقدمه:

SHBG

(GDM)

SHBG

روش‌ها:

(SHBG)

SHBG

QUIKE HOMA

(P= /)

GDM

SHBG

یافته‌ها:

GDM

HOMA

(P= /)

GDM

(P= /)

GDM

SHBG

GDM

SHBG

نتیجه گیری:

GDM

واژگان کلیدی:

*نشانی:

bayanima@sina.tums.ac.ir :

تاریخ دریافت مقاله: ۸۵/۴/۱۵

تاریخ پذیرش مقاله: ۸۵/۵/۵

مقدمه

روش‌ها

(SHBG)

SHBG

SHBG []

[]

[]

-

()

SHBG

SHBG

SHBG

SHBG

(GCT)

mg/dl

(GTT)

[]

)

(

SHBG

SHBG

SHBG

GDM

¹ Cross sectional

² Universal screening

³ Glucose Challenge Test

⁴ Glucose Tolerance Test

[]

SHBG

/ P

یافته‌ها

GDM

GDM

C

(RIA)

GDM

c

Biosorce

Monobind

ELISA

(HOMA)

(QUIKE)

ELISA

SHBG

SHBG/Insulin

SHBG

HOMA

QUIKE

()

GDM

HOMA

(r= / p= /)

SHBG

/

(r= / P= /)

QUIKE

[]

(r= / p= /)

[]

C

SHBG

HOMA QUIKE

/

SPSS

SHBG

t

SHBG

nmol/l

SHBG

/

HbG

¹ IS_{HOMA} = (FPG*FPI)/22.5 IS_{OGTT} = 10000/√(FPG*FPI)* (G*1)

² (Quantitative insulin sensitivity check index) IS_{QUICKY} = 1/[log(I₀) + log(G₀)]

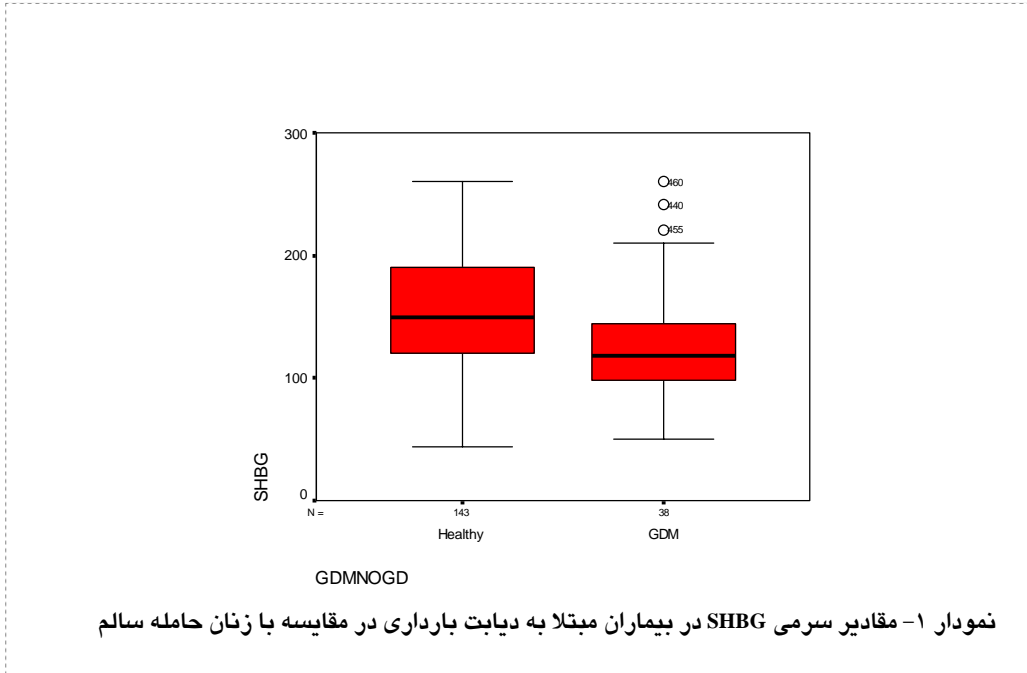
جدول ۱- مشخصات افراد مورد بررسی

متغیر	گروه مبتلا به دیابت بارداری	سالم
سن بارداری (هفته)**	/ ± /	/ ± /
سن (سال)*	/ ± /	/ ± /
*نمایه توده بدنی قبل از بارداری * (kh/m ²)	/ ± /	/ ± /
نمایه توده بدنی هنگام باردای * (kh/m ²)	/ ± /	/ ± /
تعداد زایمان*††	()	()
	()	.
	(P < /)	P
	(P ≥ /)	P

جدول ۲ - مقایسه مقادیر شاخص‌های بیوشیمیایی در زنان مبتلا به دیابت بارداری و زنان باردار سالم

شاخص‌های بیوشیمیایی	مبتلا به دیابت بارداری	سالم
قد ناشتا** (nmol/l)	/ ± /	/ ± /
انسولین* (μIU/ml)	/ ± /	/ ± /
C-پتید* (ng/ml)	/ ± /	/ ± /
SHBG* (nmol/l)	/ ± /	/ ± /
تستوسترون تام** (ng/ml)	/ ± /	/ ± /
لگاریتم انسولین*	/ ± /	/ ± /
HOMA*	/ ± /	/ ± /
QUIKE*	/ ± /	/ ± /
SHBG/insulin*	/ ± /	/ ± /
	(P < /)	P
	(P ≥ /)	P

nmol/l	SHBG	/	SHBG
(P = /)	(P = /)	/	SHBG
(P = /)	(P = /)	/	GDM
		/	SHBG
		/	
		C	/
GDM	SHBG		
GDM		QUIKE	HOMA



	SHBG		(P= /)	SHBG	BMI
[]	SHBG	P = /	P = /)	GDM
Bartha		P < /	P = /)	(P= /
GDM	[]				(P < /
					بحث
				SHBG	
GDM	Bartha			SHBG	
Bartha		[]		SHBG	
		[]		SHBG	
				SHBG	
				[]	
				SHBG	

SHBG

GDM SHBG

[]

SHBG

GDM

مآخذ

- Haffner SM. Sex hormone – binding protein, hyperinsulinemia, insulin- resistance and noninsulin – dependent diabetes. *Horm Res* 1996; 45: 233 – 7.
- Pugeat M, Crave JC, Tourniaire J, Foresat MG. clinical utility of sex hormone – binding globulin measurement. *Horm Res* 1996; 45: 148 – 55.
- Gates JR, parpia B, Campbell TC, Junshic. Association of dietary factors and selected plasma variables with sex hormone – binding globulin in rural Chinese women. *Am J of clin Nutr* 1996; 63: 22 – 31.
- Catalano PM, Tyzbir ED, wolf RR, calles J, Roman NM, Amini SB et al. carbohydrate metabolism during pregnancy in control subjects and women with gestational diabetes. *Am J of physiol* 1993; 264: E60 – 7.
- Ferrara A, Kahn HS, Quesenberry CP, Riley C, Hedderson MM. An incidence of gestational diabetes mellitus. *Obstet and Gynecol* 2004; 103: 799.
- Matthews DR, Hosker JP, Rudenski AS, Naylor BA, Treacher DF, Turner RC: Homeostasis model assessment: insulin resistance and b-cell function from fasting plasma glucose and insulin concentrations in men. *Diabetes* 1985; 28 :412– 419.
- Katz A, Nambi SS, Mather K, Baron AD, Follmann DA, Sullivan G, Quon MJ: Quantitative insulin sensitivity check index: a simple, accurate method for assessing insulin sensitivity in humans. *J clin Endocrinol metab.* 2000; 85: 402 –2410.
- Nestler JE. Editorial: sex hormone – binding globulin: a marker for hyperinsulinemia and / or insulin resistance? *J clin Endocrinol metab* 1993; 76: 273 – 4.
- Pugeat M, Crave JC, Elmidani M, Nicolas MH, Garoscio-Cholet M, Lejeune H, Dechaud H, Tourniaire J. Pathophysiology of sex hormone binding globulin (SHBG): relation to insulin. *J Steroid Biochem Mol Biol* 1991; 40: 841-9.
- YKi – Jarvinen H, Makimattila S, utraninen T, Rutanen EM. Portal insulin concentration rather than insulin sensivity regulate serum sex hormone- binding globulin and insulin like growth factor binding protein 1 in vivo. *J of clin Endocrinol metab* 1995; 8: 3227-32.
- Sherif k, Kushner H, Falkner BE, sex hormone-binding globulin and insulin resistance in American woman. *Metab* 1998; 47: 70-4.
- Birkeland kI, Hanssen kf, Torjesen PA, Vaaler S. Level of sex hormone-binding globulin is positively correlated with insulin sensitivity in men with type 2 diabetes . *J clin Endocrinol metab* 1996; 81: 2515-19.
- Katsuki A, Sumida Y, Murashima S, Funjii M, Ito k, Tsuchihashi K, et al. Acute and chronic regulation of serum Sex hormone-binding globulin levels by plasma insulin concentrations in male noninsulin –dependent diabetes mellitus patients. *J clin Endocrinol metab* 1996; 81: 2515-19.
- Bartha JL, Comino–Delagado R, Romero-Cormona R, DEL Carmen M. Sex hormone – binding globulin in gestational diabetes. *Acta obstet Gynecol Scand* 2000; 79: 839-845.
- Thadhani R, Wolf, HSU-Blatman K, Sandler L, Nathan D, Ecker JL First –trimester Sex hormone- binding globulin and subsequent gestational diabetes mellitus. *Am J obstet Gynecol* 2004; 189 :171-6.