

IL-6

(2013 / 2 / 18 2013/ 1 /15)

IL-6

(47-15) UTIs (200)

.(%43.5)

(10) UTIs

(66) IL-6

(10)

UTIs

IL-6

pg/ml (44.575 ± 127.302 36.417 ± 72.163 39.132 ± 69.456)

IL-6

.6-

:

Estimation the Level of IL-6 in Pregnant Women Suffering from Urinary Tract Infections

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ABSTRACT

The study included the isolation of bacteria causing Urinary Tract Infection in pregnant women, and determine the level of IL-6in pregnant women with Urinary Tract Infection, and comparing it with healthy pregnant women and healthy non-pregnant women

in Nenevah Provence. (200) urine samples from UTIs infected pregnant women, their ages ranged between (15-47) years were collected, The results showed UTI bacterial infection in pregnant women at a rate of (43.5%). The level of IL-6 was determined on (66) serum samples of UTI infected women, (10) healthy pregnant and (10) samples of healthy non-pregnant women, the results showed a decrease in the level of IL-6 in the pregnant women having UTI and the healthy pregnant, compared with the healthy non-pregnant women. (69.456 ± 39.132 , 72.163 ± 36.417 , and 127.302 ± 44.575) pg/ml for the three groups respectively. and no variation was detected in its level during the stages of pregnancy.

Keywords: Urinary tract infections, pregnant woman, InterLeukin – 6.

(Singh *et al.*, 2011; Moyo *et al.*, 2010)

(%50)

(%30)

(Haider *et al.*, 2010 ; Obiogbolu *et al.*, 2009 ;

Kass,1970)

.(Prakash, 2012 ;

.Singh *et al.*, 2011; Su *et al.*, 2009)

(28-21)

Proinflammatory Cytokines

IL-6

fibroblast

Macrophages

Renal tubular

endothelial cells

Pyrogen

.epithelial cells

(C-Reactive protein) C –

fibrinogen

(Gabay, 2006; Hirano,1998; Feghali and Wright, 1997)

.....

IL-6

.(Tan *et al.*, 1990)

(Hirano,1992) .thyroiditis

IL-6

1991

Hedges

(S-IgA) A

IL-6

(66)

(200)

(2012)

(2011)

(10)

(45-15)

(10)

Isolation

X(40)

/ 10 <

(48-24)

(37)

.UTI

³ /

10⁵

.(Winn *et al.*, 2006)

IL-6

IL-6

Demeditec

:

ELISA

.1

Washing

(400)

.2

. 15-10

Buffer

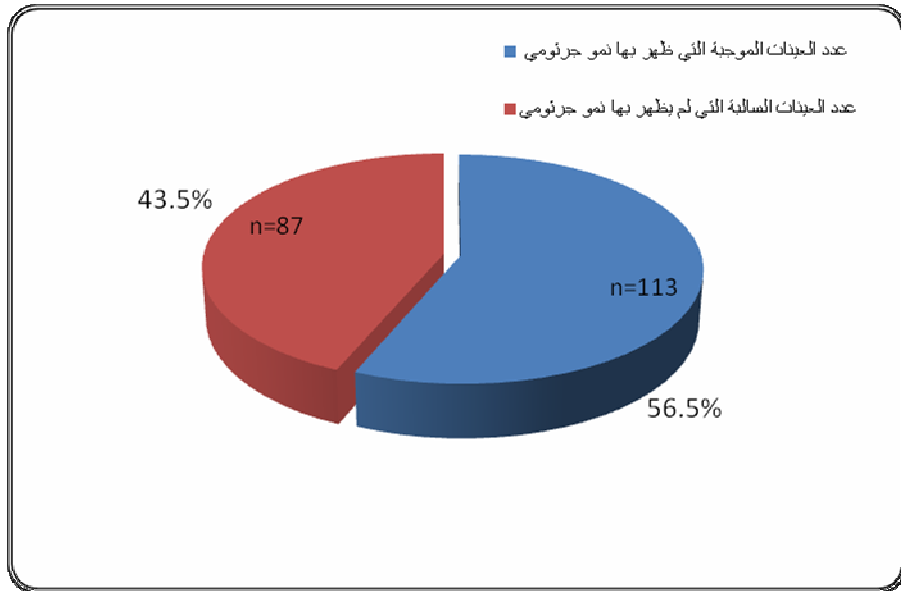
.3

.4

				58
			(100)	.5
	Assay Buffer (1x)		(100)	.6
			(50)	
			(50)	.7
(25-18)	(50)	Biotin-Conjugate adhesive film		.8
		/ 100		
				.9
		Streptavidin-HRP	(100)	.10
	(100)			.11
(10)			TMB Substrate Solution	
	(100)			
(450)			stop solution	
			IL-6	
Correlation			(Dunncan)	(Anova)
			(200)	
	(87)	()	()	
(113)		(% 43.5)		

(% 56.5)

(1).



:1

(%43.5) UTIs

Year	Location	IL-6 Level	Percentage (%)
2009	Kolawole	IL-6	(66)
2010	Okonko	IL-6	(10)
2010	Okonko	IL-6	(300)
2010	Okonko	IL-6	(%60)
2010	Okonko	IL-6	(%47.5)

IL-6

IL-6

(66)

(10)

(10)

IL-6

pg/ml (69.456 ± 39.132)

pg/ml (127.302 ± 44.575)

pg/ml (72.163 ± 36.417)

.(1)

Denney 2004

Hebisch

IL-6

2011

IL-6

IL-6

2000

Makhseed

IL-6

(C-RP) C-

.(Hernandez *et al.*, 2011 ; Hedges *et al.*, 1992 ; Jacobson *et al.*, 1994) .

2000

Shimaoka

Petersson

IL-6

1994

IL-6

(IgA, IgM, IgG)

(66)

(2)

(17)

.IL-6

(26)

(23)

pg/ml (67.289 ± 36.333 , 71.460 ± 47.350 , 70.060 ± 32.585)

2000

Makhseed

2004

Hebisch

IL-6

1998

Vassiladis

IL-6

.....

IL-6

IL-6

1997

Diallo

IL-6

1993

Kreft

(Sadeghi *et al.*, 2005)

(Graham *et al.*, 2001)

(IL-6)6-

:1

\pm		
$(39.132 \pm 69.456)^a$	66	UTIs
$(36.417 \pm 72.163)^a$	10	
$(44.575 \pm 127.302)^b$	10	()
(43.199 ± 76.497)	86	

a

b

P<0.005

IL-6

:2

\pm		
$(32.585 \pm 70.060)^a$	17	
$(47.350 \pm 71.460)^a$	23	
$(36.333 \pm 67.289)^a$	26	
(39.132 ± 69.456)	66	

a

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