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The Effect of Eclampsia on Gamma-Glutamyl Transferase Activity and some Biochemicals

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ABSTRACT

The research included estimation of gamma-glutamyl transferase activity and total protein, albumin, globulin, haemoglobin, packed red cell volume ratio and electrolytes sodium, potassium in (30) pregnant women complication Eclampsia within gestational period first, second and third trimester, aging between (15-45) years, as well as in (30) pregnant women as control with similar age.

The results showed significant decrease in the activity of gamma-glutamyl transferase in the second and third trimester, and significant decrease in concentration of total protein, albumin, haemoglobin, pack red cell volume and sodium at first, second and third trimester comparison to control group.

According to correlation coefficient, the result showed that direct significant correlation between gamma-glutamyl transferase activity and protein concentration in the first trimester and direct significant correlation between gamma-glutamyl transferase activity and concentration of sodium level in the second trimester.

Keywords: Eclampsia, Gamma-glutamyl transferase, Clinical variables.

Eclampsia

.(Duley, 2003)

.(Narasimha and Vasdeva, 2011)

.(Mostafa *et al.*, 2009)

.(Sibai, 2003) .

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.(Awanti *et al.*, 2011)

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.(Norbert, 1982)

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.(Annino and Giese, 1976) Biurot method

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Bromocresol green method

.(Annino and Giese, 1976)

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-(100/) = (100/)
 .(Teitz, 1987) (100/)
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.(Makarem, 1974)
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.(Hillman and Ault, 2002)
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Flame photometry
 (200-20) (Aninno and Giese, 1980)
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t-test

Correlation coefficient (P<0.05)

.(Kikwood, 1988) (P<0.01 P<0.05)

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Transpeptidase

.(Tekin *et al.*, 2004)

.(Milinkovi *et al.*, 2005)

.(Allen *et al.*, 2002)

.(Bacq and Riely, 2003)

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.(Milinkovi *et al.*, 2005)

.(Angel, 2006)

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.(Al-Kass *et al.*, 2011)

.(Mathur *et al.*, 2011)

.(Angle, 2006)

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(9)		(6)		(3)		
*10.647±0.721	15.334±0.617	*14.228±0.665	15.526±1.186	16.290±0.957	16.470±1.648	- U/I
*4.946±0.059	6.087±0.067	*4.992±0.058	6.141±0.023	*4.961±0.024	6.094±0.032	100/
*4.747±0.049	5.101±0.028	*4.680±0.029	5.087±0.029	±0.036 *4.763	5.117±0.023	100/
*0.199±0.055	0.986±0.054	*0.312±0.035	1.072±0.037	*0.198±0.039	0.977±0.033	100/
*4.438±0.271	11.904±0.134	*10.039±0.253	12.366±0.211	*10.377±0.187	12.169±0.243	/
*32.390±0.834	37.565±0.889	*31.554±1.048	36.871±0.550	*31.352±0.876	37.031±0.831	(%)
*128.00±8.164	141.300±10.209	*122.900±18.963	139.400±5.146	*119.600±11.077	131.00±3.915	/
*3.930±0.939	4.430±6.498	4.330±1.077	4.650±0.814	4.370±0.991	4.160±0.663	/

(P<0.05)

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.(2008)

.(Awanti *et al.*, 2011)

.(Awanti *et al.*, 2011)

.(Lewis *et al.*, 2007)

.(2007)

.(Wahed *et al.*, 2008)

(PCV)

.(Wahed *et al.*, 2008; Morrison and Parrish, 2008)

.(2007)

(Ruth *et al.*, 2011)

(Jakutien *et al.*, 2007)

.(Moran *et al.*, 2003)

.(Ruth *et al.*, 2011)

.(Moran *et al.*, 2003)

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(3)	0.308	GGT U/L
(6)	0.482	
(9)	0.205	

(3)

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.(Awante *et al.*, 2011; Angel, 2006)

.(2010 ; Sibai, 2003)

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	/	/	%	/	100/	100/	100/
(3)	-0.395	0.483	-0.087	-0.044	-0.348	0.349	-0.306
(6)	0.514	0.314	0.543	0.302	-0.041	0.000	-0.020
(9)	0.417	-0.064	-0.527	0.325	0.398	0.135	0.391

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(Angel, 2006)

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.(Milinkovi *et al.*, 2005)

.(Angel, 2006; Sherwood 2004)

.(2010)

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	-	-	%	-	100/	100/	100/	
(3)	-0.472	0.220	0.431	0.224	0.343	0.113	*0.721	GGT U/L
(6)	-0.145	*0.657	0.327	0.036	0.125	-0.025	0.059	
(9)	-0.187	0.021	0.016	-0.321	0.236	-0.339	-0.073	

(P<0.05)

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.30-18 .

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