

Trichomonas vaginalis

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GSH

Glutathione

Trichomonas vaginalis

Estimation of Glutathione in Three Organs of Experimentally Infected Mice by *Trichomonas vaginalis* Parasite

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ABSTRACT

The result of this study showed that there is decrease in the level of glutathione in the liver, kidney and heart tissues of infected mice by *Trichomonas vaginalis* after comparison with the control group at the at a level of ($P \leq 0.5$).

This maybe gave an indicator to the oxidative harm injury or to decrease in the glutathione synthesis or building in body, which give indicator to that the infection by *Trichomonas vaginalis* affected negatively on the level of tissue glutathione in experimentally infected mice by this parasite.

The present study detected the level of glutathione in the tissues of infected mice by *Trichomonas vaginalis* to study the ability of this parasite to effect in the glutathione tissues of these mice which maybe is the one co- factor that increase the virulence of the parasite.

Trichomonas vaginalis

Genito-Urinary tract

Trichomoniasis

Asymptomatic

Urethritis

.(Niaid, 2006 ; Guenther et al., 2005)

(L – glutamyl – L – Cysteinyl - glycine)

.(Yu Lei, 2003) (10H₁₇N₃O₆S)

(307.3 Da)

Cysteine, glutamate and –

)

Gama

(- glycine

Peptidase

(Dickinson et al., 2003)

(Lingjie, 2001)

Denova and salvage pathway

.(Yu Lei, 2003)

cystein

.(Zhu et al., 2004) GPX

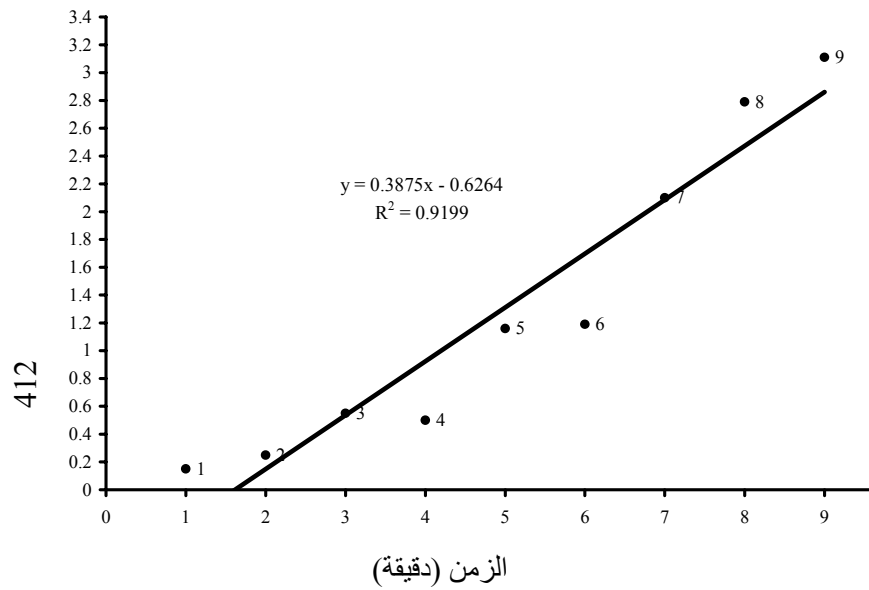
Trichomonas

10 *vaginalis*
 (2006) Oxide Trichomonas Medium –CM161-
 – 25 Balb/c Mus musculus 30
³ / 10⁷ 10 20
 15 Intrapereotonal
 ()
 (Ruiz et al., 1997; Gomez-Barrio et al., 2002)
 .(Moran et al., 1979)

:_____

³ 900 Tris 8.057 Tris – EDTA .1
 Ethylenediamine tetrachloro acetic acid – EDTA - 0.0292
 7.6 p^H ³ 1000
 .
 25 Trichloro acetic acid – TCA – %25 .2
³ 100 TCA
³ 250 2.55 0.15 .3
 7.2 p^H
³ 100 DTNB 0.1189 DTNB 3 .4
 .
³ 10 () 1
 TCA ³ 0.25 ³ 1 Tris – EDTA
 5 12000×g %25
³ 1.7 3 1 ³ 0.2
 412 DTNB ³ 0.1
 DTNB 3

.(SAS- Statistic Analysis System) (1)



(0.5/) :1

Glutathione GSH

GSH

(2) ()

(2006) (P ≤ 0.5)

³ / (10⁹ 10²+10⁷ 10⁷)

(2006)

GSH

.(Hudson, 1991) GSSG

Lipid Per Oxidation

Very Low Density (VLDL)

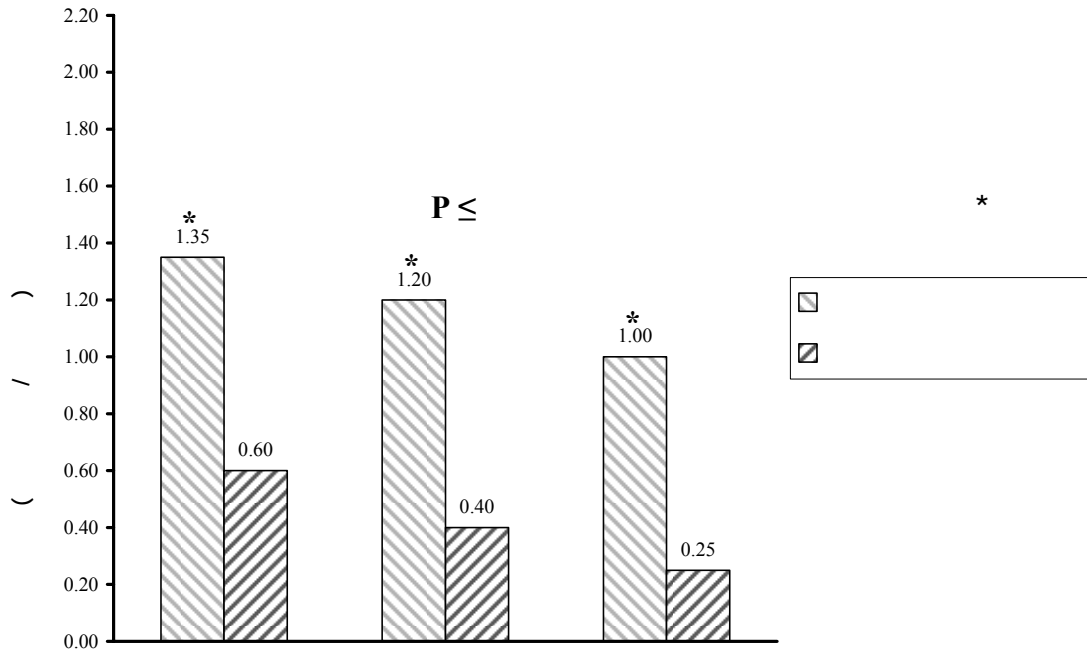
Low Density Lipoprotein (LDL)

Lipoprotein
(Oxidant-antioxidant system)

NADPH

Glutathione reductase

(Muller et al., 2003 and Weiji et al., 2004)



Trichomonas vaginalis

:2

()

Trichomonas vaginalis

(2006)

()

Nocardia asteroides

(1995)

(2004)

.50%

.2006

.1995

.2004

Nocardia asteroides

.2006

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