

***Trichomonas vaginalis***

(2001/10/27 2001/8/26 )

*Trigonella*

(96 72 48 24) / 10 *foenum graecum*

*.Trichomonas vaginalis*

48

Metronidazole

:

/ 5 *Thymus vulgaris* / 5 + / 5)

/ 5 *Matricaria chamomilla* / 5 +

.( *Cyperus rotundus* / 5 +

# Combination Therapy with Anti *Trichomonas vaginalis* Plant Extracts

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## ABSTRACT

The aqueous crude extract of *Trigonella foenum graecum* was prepared and its inhibitory effect on *Trichomonas vaginalis* was tested with a concentration 10mg/ml at different time exposure (24, 48, 72 and 96) hours compared with zero time (control), the results showed that the aqueous extract of *T.f. graecum* completely inhibited the growth of *T. vaginalis* at 48 hours, this effect was highly significant when compared with standard antibiotic (Metronidazole) commonly used for the treatment of *T. vaginalis* infection. In order to decrease the concentration of the aqueous *T.f. graecum* extraction, two extracts were mixed together at the same concentration such as: (5mg/ml of *T.f. graecum* + 5mg/ml of *Thymus vulgaris*, 5mg/ml of *T.f. graecum* + 5mg/ml of *Matricaria chamomilla* and 5mg/ml of *T.f. graecum* + 5mg/ml of *Cyperus rotundus*) to test the effectiveness of the combination. It was found that the mixing of two extracts produced a best effect.

: *Trichomonas vaginalis*

-1

*T. vaginalis*

Trichomoniasis

.(Belding, 1965; Jirovec and Petru, 1968)

Read and Klebanoff, )

Cervical neoplasia

(1993

Zhang et al., 1995 ; Zhang and Begg, 1994) (HIV)

(Meriganand and Barriere, 1999

Metronidazole

(Merigan and Barriere, 1999)

/ 10

(1999 )

synergic

*Trigonella foenum graecum*

.(1999 )

: -2

.(1)

:1

.(Kotb, 1985)

		Fenugreek	Leguminosae ( )	<i>Trigonella foenum graecum</i>
		Thyme	Labiatae ( )	<i>Thymus vulgaris</i>
		Chamomile	Compositae ( )	<i>Matricaria chamomilla</i>
		Nut grass	Cyperaceae ( )	<i>Cyperus rotundus</i>

-1

.(1999 ) [Oxoid Trichomonas (CM161)]

Riose et al., 1987)

5 / (2.5, 5 , 10) (1993 /

/ 5

/  $10^7 \times 1$

(Positive control)

(Negative control)

%0.1 Metronidazole

(F-test)

:

/ 10

48

(1)

(0.01 0.05)

/ 10

48

/ 10

(2)

(0.01 0.05)

Trigonellin alkaloid

(1988 )

(1993 ) *Brucella melitensis*

(2000 )

( - ) ( - ) ( - )

( - )

24

(0.01 0.05)

72

( - )

(3)

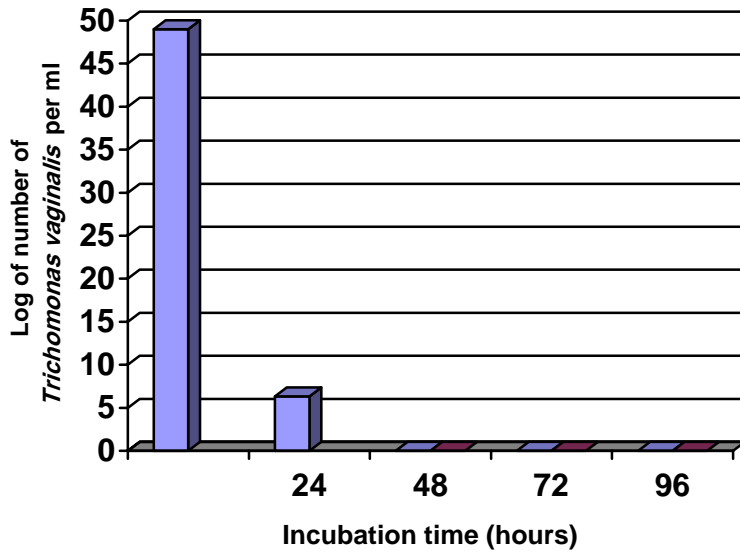
96

( - )

48

( - )

24

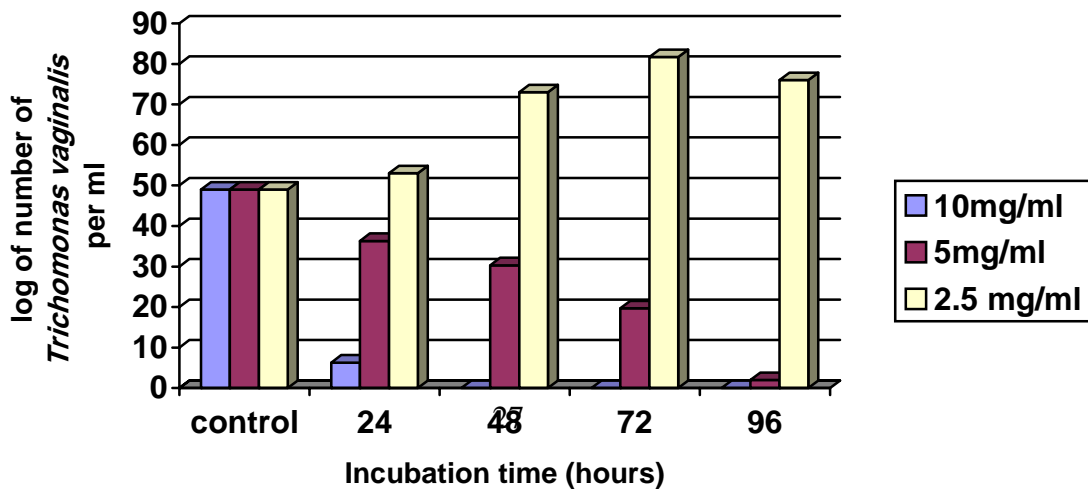


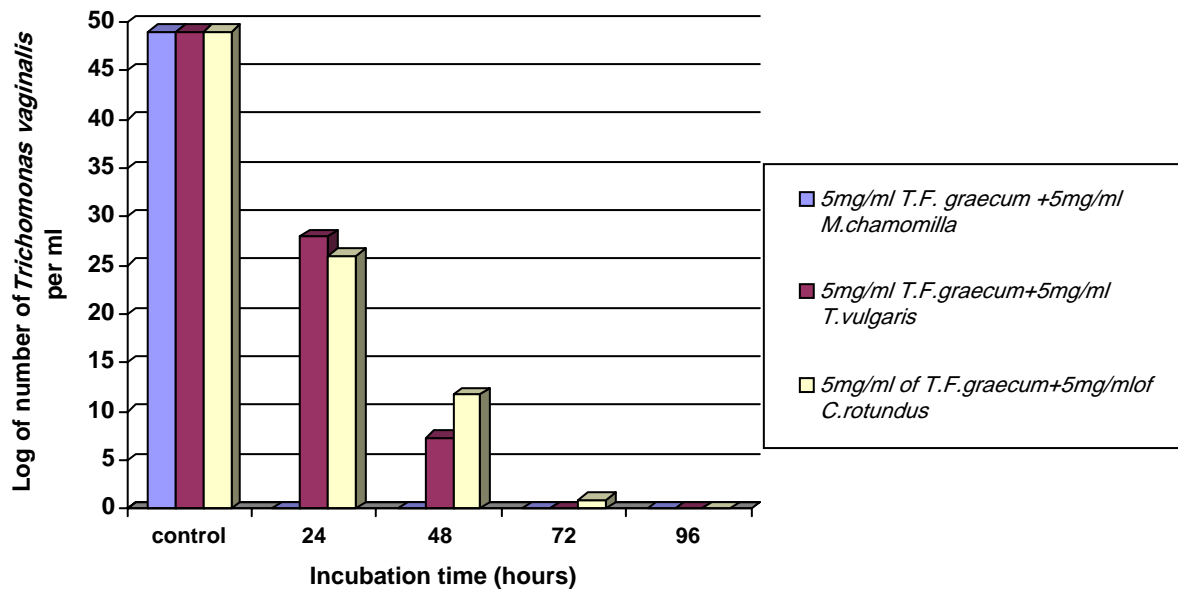
10 *Trigonella foenum graecum* :1

*Trichomonas vaginalis* /

*Trigonella foenum graecum* :2

*Trichomonas vaginalis*





:3

( - ) ( - ) ( - ) :

*Trichomonas vaginalis*

.1993

.90-1

*Trichomonas*

.1999

*vaginalis*

.78-1

*Trigonella*

.2000

*foenum graecum*

.16-11

46

.1988

.68-67

Belding, D.L., 1965. Textbook of Parasitology . 3rd ed. , Appleton- Century-Crofts, New York, pp.130-135.

- Jirovec, O. and Petru, M., 1968. *Trichomonas vaginalis* and Trichomoniasis. Adv. Parasitol. Vol.6, pp.117-178.
- Kotb, F., 1985. Medicinal Plant in Libya. Arab Encyclopedia House, 790p.
- Merigan, T.C., Barriere, S.L., 1999. Antimicrobial therapy and vaccines. Williams and Wilkins, London, pp.612-615.
- Read, J.S. and Klebanoff, M.A., 1993. Sexual intercourse during pregnancy and preterm delivery effects of vaginal microorganisms. The vaginal infections and prematurity study group. Am. J. Obstet Gynecol., Vol.168 (2), pp.514-519.
- Riose, J.L., Recio, MC. and Villar, A., 1987. Antimicrobial activity of selected plant employed in the Spanish Mediterranean area. J. Ehnopharm., Vol.21, pp.139-152.
- Wren, R.C., 1975. New cyclopedia of botanical drugs and preparations, 6<sup>th</sup>. Ed., Boca Raton. pp.97-126.
- Zhang, Z.F. and Begg, C.B., 1994 . Is *Trichomonas vaginalis* a cause of cervical Neoplasia ? Results from a combined analysis of 24 studies. Inter. J. Epid., Vol.23(4), pp.682-690.
- Zhang, Z.F., Graham, S. and Shun-Zhang, 1995. *Trichomonas vaginalis* and cervical cancer a prospective study in China. AEP., Vol.5(4), pp.325-332.