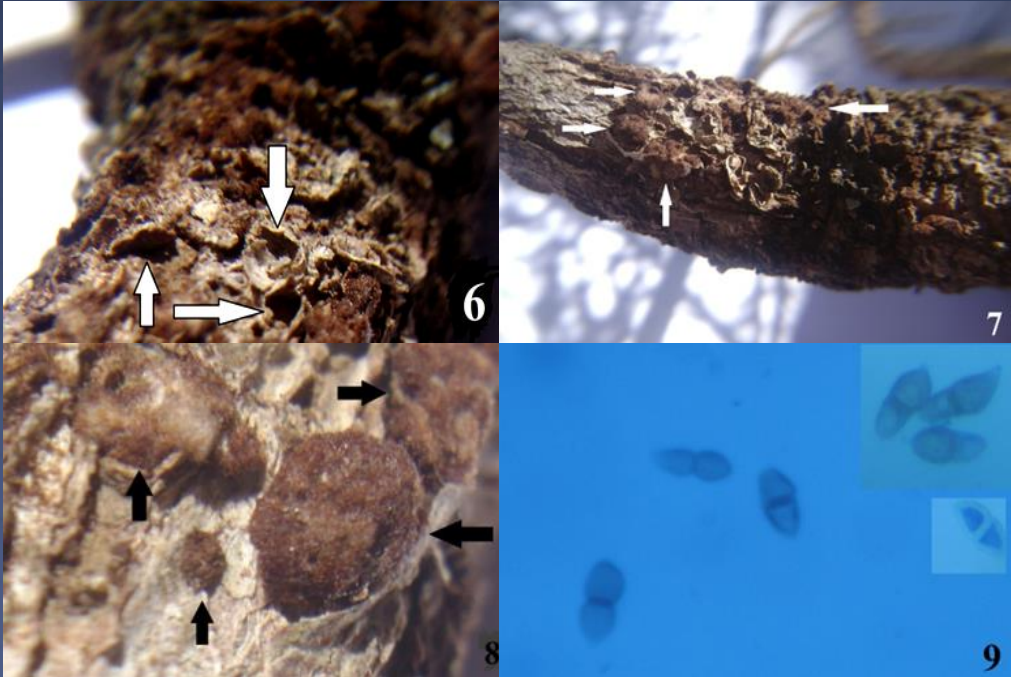


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Cover Story: Zahra Ibrahim El-Gali. First report of *Gymnosprangium cornutum* stem rust on *Juniper phoenicia* in Libya.



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## Paper of the Month:

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## DIFFERENCE OF ENDOMETRIAL THICKNESS AND VASCULARITY IN WOMEN STIMULATED BY CLOMIPHENE CITRATE WITH AND WITHOUT VITAMIN C AND E

Kurniawan E, Djuwantono T, Sabarudin U, Krisnadi SR, Permadi W, Madjid TH

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### Abstract

**Objective:** To observe the effect of vitamin C and E administration on endometrial thickness and vascularity in clomiphene citrate stimulated endometrium

**Method:** Research design was randomized clinical trial. Both groups were stimulated with clomiphene citrate. Treatment group was given vitamin C and E, while control group was given placebo. Transvaginal ultrasound examination is used to assess endometrial thickness and vascularity (resistance index/RI) in cycle day 2 and 12. The difference between two groups is tested with independent t and Mann-Whitney test.

**Result:** A total of 38 subjects was included as research subjects. Endometrial thickness in treatment and control group have cycle day 12 means of  $\pm 8.89$  and  $\pm 5.9$  mm, respectively. In the first and latter group were found differences of 60.76% and 27.26%, respectively. Mann-Whitney test showed very significant difference  $p=0.000$  ( $p<0.05$ ) between endometrial thickness in treatment and control group. Endometrial vascularity between treatment and control group have cycle day 12 RI means of  $\pm 0.51$  and  $\pm 0.52$ . In the first and latter group is found differences of -13.52% and -11.07%. Independent t test showed no significant difference  $p=(0.217)$  between treatment and control group.

**Conclusion:** Endometrium stimulated with clomiphene citrate and addition of vitamin C and E is thicker compared to control group. No significant difference on endometrial vascularity stimulated by clomiphene citrate with or without vitamin C and E.

**Keywords:** clomiphene citrate, endometrial receptivity, vitamin C, vitamin E

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