

**Supplementary information to:**

***TOXOPLASMA GONDII*: PREVENTIVE AND THERAPEUTIC  
EFFECTS OF MORPHINE AND EVALUATION OF TREATMENT  
PARAMETERS OF TACHYZOITES AND INFECTED MACROPHAGES  
*IN VITRO* AND IN A MURINE MODEL**

Leila Zaki<sup>1</sup>, Fatemeh Ghaffarifar<sup>1\*</sup>, Zohreh Sharifi<sup>2</sup>, John Horton<sup>3</sup>, Javid Sadraei<sup>1</sup>

1 Department of Parasitology, Faculty of Medical Sciences, Tarbiat Modares University, Tehran, Iran

2 Blood Transfusion Research Center, High Institute for Research and Education in Transfusion Medicine, Tehran, Iran

3 Tropical Projects, Hitchin, United Kingdom

\* **Corresponding author:** Fatemeh Ghaffarifar, Ph.D., Department of Parasitology, Faculty of Medical Sciences, Tarbiat Modares University, Tehran, P.O. Box 14115-111, Iran, Tel: +98-21-82884553, Fax: +98-21-82884555, E-mail: [ghafarif@modares.ac.ir](mailto:ghafarif@modares.ac.ir)

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**Supplementary Table 1:** The Mean and SD of the tachyzoites number influenced by various concentrations of morphine and control group after 3 and 24 hours

Groups	Time	3 h ( $\times 10^4$ )	24 h ( $\times 10^4$ )
		Mean $\pm$ SD	Mean $\pm$ SD
	Control	85 $\pm$ 2.8	57 $\pm$ 3.5
	Morphine 100 $\mu$ g/ml	79 $\pm$ 4.2	30 $\pm$ 1.4*
	Morphine 10 $\mu$ g/ml	81 $\pm$ 4	33 $\pm$ 4.2*
	Morphine 1 $\mu$ g/ml	77.5 $\pm$ 0.7	26.5 $\pm$ 7.7*
	Morphine 0.1 $\mu$ g/ml	72.5 $\pm$ 2.1	23 $\pm$ 2.8*
	Morphine 0.01 $\mu$ g/ml	71 $\pm$ 5.6	22 $\pm$ 5.6*
	Sulfadiazine 40 $\mu$ g/ml + pyrimethamine 1 $\mu$ g/ml	60 $\pm$ 7*	8 $\pm$ 1.4*
	Sulfadiazine 40 $\mu$ g/ml + pyrimethamine 1 $\mu$ g/ml + Morphine 1 $\mu$ g/ml	68 $\pm$ 9.8	14 $\pm$ 2.8*

**Supplementary Table 2:** Viability of drug-treated macrophages in comparison with the control group using MTT

( $\mu$ g/ml)	Name of drugs	Viability (%)	Cytotoxicity
	Control	100	0
	Morphine 100 $\mu$ g/ml	70.3	29.7
	Morphine 10 $\mu$ g/ml	72.1	27.9
	Morphine 1 $\mu$ g/ml	77.2	22.8
	Morphine 0.1 $\mu$ g/ml	77.9	22.1
	Morphine 0.01 $\mu$ g/ml	88.8	11.2
	Sulfadiazine 40 $\mu$ g/ml + Pyrimethamine 1 $\mu$ g/ml	75.6	24.4
	Sulfadiazine 40 $\mu$ g/ml + Pyrimethamine 1 $\mu$ g/ml + Morphine 1 $\mu$ g/ml	73	27