

## Evaluation of Donated Blood for Toxoplasmosis Using ELISA and PCR in Fayoum Governorate.

### Abstract

*Toxoplasma gondii* is an intracellular zoonotic parasite that affects more than a third of the world population. Among many modes of transmission, blood transfusion is a potential risk for transmitting toxoplasmosis especially to high risk individuals as immunosuppressed persons and pregnant women. This cross-sectional study evaluated the donated blood for *T. gondii* infection using ELISA also the buffy coat was separated and PCR for *Toxoplasma* is done. 100 blood samples were collected from blood banks in Fayoum Governorate. **Conclusion**

Generally speaking, *Toxoplasma gondii* is a worldwide infectious zoonotic disease that causes different pathogenicity.

The present study demonstrated that 68% of donated blood samples were positive for toxoplasmosis and 17.6% were potentially infective as being PCR positive. It underscores the importance of screening donated blood for toxoplasmosis especially for the vulnerable groups of patients.

**Key words:** Donated blood, ELISA, Fayoum, PCR, *Toxoplasma gondii*.

المجلة:

Journal of the Egyptian Society of Parasitology, (JESP), 49(3): 653- 660 (Dec-2019).