



The inhibitory Effect of Crude Extract of *Arctium lappa* on some pathogenic bacteria

Thikra M. Ali ¹, Zainab R. Zghair ^{2*}

¹ Department of Anaesthesia/ Middle Technical University,

² Zoonosis Unit/College of Veterinary Medicine/ Baghdad University

ARTICLE INFO

Received: 15.10.2015

Revised: 25. 10.2015

Accepted: 27.10.2015

Publish online: 15. 11.2015

*Corresponding author:

Email address:

zzghair@yahoo.com

Abstract

This study was intended to evaluate the antimicrobial activity of crude extract of *Arctium lappa* on some pathogenic bacterial species in vitro. The study was included different types of gram-positive

and gram-negative bacteria such as (*Pseudomonas aerogenosa*, *Staphylococcus aureus*, *Salmonella typhimurium*, *E.coli*, *Listeria monocytogene*, *Streptococcus pyogenes*, *Brucella abortus* and *Bacillus anthracis*). The results of this study revealed either classified resistant or sensitive according to *Arctium lappa* concentration. A significant difference at ($P < 0.05$) was appeared, at 50 mg of the extract, which indicated that gram positive bacteria had more resistant than gram negative bacteria. Whereas, sensitivity were counted more gram negative bacteria than gram positive bacteria. Gram positive bacteria had accounted 5 times in contrast of Gram negative bacteria. The results of this study were also revealed a difference inhibitory effect of *Arctium lappa* crude extract at 100 mg against different pathogenic bacteria. Non-significant difference at ($P > 0.05$) were appeared, which indicated that gram positive bacteria had more resistant than gram negative bacteria, whereas sensitivity were counted more gram negative bacteria than gram positive bacteria. In conclusion, the results of this study revealed that *Arctium lappa* crude extract has inhibitory effects against different types of pathogenic bacteria with some variability in its activity depending on the concentration of extract.

To cite this article: Thikra M. Ali and Zainab R. Zghair (2015). The inhibitory Effect of Crude Extract of *Arctium lappa* on some pathogenic bacteria. MRVSA. 4 (3), 29-36. DOI: [10.22428/mrvsa.2307-8073.2015.00434.x](https://doi.org/10.22428/mrvsa.2307-8073.2015.00434.x)

Keywords: *Arctium lappa*, inhibitory effect, pathogenic bacteria, Iraq.