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**Title: Antibacterial effects of Quince (Cydonia oblonga) extracts on some enteric bacteria In Vitro and In Vivo**  
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**Abstract:** Background and aims: Klebsiella pneumonia and E.coli and Enterobacter aerogenes are member of entrobacteriaceae family. This bacteria as the important gram negative agent of entroinfections such as diarrhea. The enteric pathogens cause disease symptoms ranging from mild gastroenteritis to life-threatening systemic infections and severe dehydrating diarrhea. On the other hand, the treatment of this infections with traditional antibiotic and other synthetic drugs has unwanted reactions such as drug resistant. This study was aimed to determination of the antibacterial effects of Quince fruit and seed extracts on E.coli and Klebsiella pneumonia and Enterobacter aerogenes In Vitro and In Vivo.  
**Materials & Methods:** In this experimental study, aquatic, ethanolic and acetonic extracts of Quince fruit and seed was prepared. Then prepared extracts was examined for antimicrobial activity on mentioned bacteria that was performed by using the well diffusion agar and macrodilution methods. The synergism of Quince extracts with four antibiotic was determined by disc diffusion method. Then antimicrobial effect of this extracts studied in 30 Balb/c mice.  
**Results:** Ethanolic extract of Quince seed was the effective extract in this study. Also, this study show that Quince seeds have more antibacterial effect in comparison with Quince fruit. Also E.coli in this study in comparison with Klebsiella pneumonia and Enterobacter aerogenes was sensitive. The aquatic extracts only show antibacterial effect on Enterobacter aerogenes. In animal model the ethanolic extract of Quince seed was effective extract.  
**Conclusion:** This study indicate that we can use of Quince ethanolic extract to deal with E.coli and Klebsiella pneumonia and Enterobacter aerogenes.  
**Keywords:** Enteric bacteria, Antibacterial, Quince extract, Balb/c mice.  
**Presentation:** Poster