

Anti-infective potential of castor oil and ricinoleic acid against selected human-pathogenic bacteria

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Castor oil (CO) and Ricinoleic acid (RA) were evaluated for their anti-infective activity against four different human-pathogenic bacteria, employing the nematode worm *Caenorhabditis elegans* as a model host. *In vitro* assays to study interaction of these two items with test bacteria with respect to bacterial growth, quorum-regulated pigment production, biofilm formation, and few other clinically relevant traits were also performed.

CO and RA were procured from CDH and Sigma-Aldrich respectively. Methodology of the *in vitro* and *in vivo* assays was adopted from our previous publications (Joshi et al., 2019; Patel et al., 2019), which also contains details of the organisms used.

Results explaining effect of CO and RA are presented through Figures 1-15, which indicate CO and RA both to be capable of attenuating virulence of pathogenic bacteria. Latter exerted activity at concentrations much lesser than that of CO. While major observations are mentioned below, full details of this study can be seen in Biswas et al. (2018).

CO (0.5-2%v/v) could attenuate virulence of three of the test bacteria by 25-56%. It could enhance susceptibility of all the four pathogens to lysis in presence of human serum upto 20-39%. CO could eradicate pre-formed *P. aeruginosa* biofilm by 30%. Neither *P. aeruginosa* nor *S. aureus* could develop complete resistance to CO even after repeated exposure to this plant oil. CO was able to modulate quorum-regulated pigment production in all the three multidrug-resistant gram-negative bacteria used in this study. Antibiotic susceptibility of all the test pathogens was modulated upon CO-treatment.

RA (1-20 µg/mL) could attenuate virulence of all the three gram-negative pathogens by 4-63%. Even repeated exposure of *P. aeruginosa* or *S. marcescens* to RA did not induce complete resistance in these pathogens. Susceptibility of three of the test pathogens to lysis in presence of human serum was enhanced upon RA-treatment by 21-77%. Haemolytic potential of *P. aeruginosa* and *C. violaceum* was curbed upto 23-41% as a result of RA-pretreatment. Production of quorum-modulated pigment in all four test pathogens was modulated under influence of RA. Antibiotic susceptibility of all the four pathogens was also modulated as a result of RA-treatment.

As RA seemed to exert anti-pathogenic potential at concentrations lower than that of CO, and since it has been known to be a constituent of CO (Paul et al., 2016); RA can be said to be largely (not necessarily solely) responsible for the anti-infective potential of CO.

Selected Papers On The Pathogenic Ricket

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Congress of the Sanitary Institute of Great Britain Royal Society of Health (Great Britain),1968 American Book Publishing Record ,1970 *Epidemic Disease and Human Understanding* Charles De Paolo,2006-02-24 For more than three thousand years of recorded history human beings have struggled to understand the epidemic the rapid spread of a contagious disease throughout a human population This book draws on an extensive list of primary texts to present a comprehensive history of epidemiological thought The book is primarily concerned with the human experience of epidemic disease and the various ways this experience has been conceptualized and communicated Part I examines ancient religious mythological and philosophical paradigms used to comprehend and interpret epidemic disease Following the ancient period perceptions changed epidemics were understood as natural phenomena rather than as instruments of divine purpose This transition is covered in Part II and illuminated by historical documents such as Thucydides description of the plague of Athens Systematic examination of biomedical phenomena which began in the seventeenth century and developed into modern medicine is the focus of Part III Finally Part IV considers the ways in which epidemic disease has been treated in various works of literature The discussion includes eyewitness accounts as well as such popular works of fiction as Sinclair Lewis Arrowsmith and Albert Camus The Plague In surveying human responses to endemic disease the book draws connections between three sub genres of epidemiological writing the encyclopedia the intellectual history and the

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