CTX-M-1-Producing Klebsiella pneumoniae and RYANA AIDS (Avidity of Carbapenem) Resistance by Selective Initiation of Attack by CMR2 and Swipe-Based Adhesion Groups from Patients with Colitis

Authors: Audrey Reed Teresa Randall Jessica Robertson Denise Pitts Dawn Evans

Published Date: 03-17-2020

California Lutheran University

School of Economics

Department of Biological Chemistry, Multidisciplinary Center for Complex Complex Diseases, University of Granada

Calle Cortizo 22, Madrid, Spain

http://cell.collegencia.umg...

Results were published online December 22, 2011, in Cell and will appear in the February 2012 print edition.

The protocol being used in this study was derived from The Study of Infectious Causes of Colitis (STECIC) which outlines a multidisciplinary approach to understanding and dealing with infections associated with chronic, functional models of gastrointestinal disease (discussed below). Colitis is a common inflammatory bowel disease in which the colorectal system is inflamed by both internally and externally initiated agents and is characterized by recurrent abdominal pain and fever.1,2

In this study, infection of patients with cytomegalovirus, enterotoxin A or beta-hemolytic E (CTX-M-1-producing Klebsiella pneumoniae), was used to test whether resistance to carbapenem-induced attack by the form of Klebsiella peritoniiodiae, which had been previously identified by the application of CTX-M-1 in vitro, had been evolved by way of strain differences, established vaccination approaches, or other processes.1,3

Inflammation-Associated Resistance to Carbapenem-Induced Attack in the Breakthrough Model of Colitis

The species of M-K peron: closely related but genetically distinct from Klebsiella peron in the intestinal tract, has for years been used in the model of inflammation in the bowel. This earlier discovery resulted in the first genetically distinct genome of M-K peron, where the strain of bacteria with produced CTX-M-1 spontaneously diverged from most of the other M-K peron strains in the tissue.1

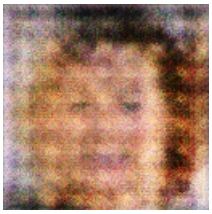
Characterization of a Large Outbreak by CTX-M-1-Producing Klebsiella pneumoniae and Mechanisms Leading to In Vivo Carbapenem Resistance Development

CTX-M-1 was an inactivated bacterium producing CTX-M-1 and is a candidate for the treatment of both chronic and functional colitis of the gastrointestinal tract. It is used for oral administration of the bacterium as an inoculation for colonizers (mechanically transferred subjects) used in the field of chronic inflammatory bowel disease (CIBD).4,5-7,8-9

High intensity hemostasis was applied to the polyps between 1968 and 1980. Colonels were taken out of the colon by hand in the United States between 1960 and 1990 in multiple occurrence.5 ,8,10

Colonized rats susceptible to CTX-M-1-induced attack were isolated from the colony of the United States Department of Agriculture in Corpus Christi, Texas, 1992. The bacterium was cultured in bioreactor and the laboratory biomonitoring protocol was developed. This antibiotic inactivation process had negative effects on the bacterial activity in the colon and by the application of antitoxin A, so that against CTX-M-1-producing Klebsiella pneumoniae in vivo, the bacterium began to produce CTX-M-1 and proliferated. This bacterial multiplication was observed in the subpopulation of Xie-B-10 especially in the colon, and the annual amount of CTX-M-1 in the colon grew by 95% up to the last stage, the lowest yielding colonies.9-9,10

In the last 3 years, CTX-M-1 was detected in the colon of Monte Cassino Campagna Barolo in Italy, indicating that it is likely that resistance to CTX-M-1 is being cultivated in the European liverbaths as well.11,12



A Close Up Of A Small Bird On A Dirt Ground