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DiseaseINFOPACK

ESBL-producing *E.coli*

Oct 2007

Abstract

DiseaseINFOPACK: *ESBL-producing E.coli*

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REPORT ABSTRACT:

Although mostly a harmless commensal bacterium, *Escherichia coli* (*E.coli*) is frequently a human pathogen. For example, certain forms of extraintestinal *E.coli*, known as ExPEC, cause urinary tract infections (UTIs) which occur in the community and/or hospital settings. In rare cases ExPEC can also cause bloodstream infections which lead to sepsis and even death. Since the 1980s, hospital *E.coli* has become multidrug resistant through the production of extended-spectrum beta-lactamase enzymes (ESBLs). The CTX-M types of the enzyme have the ability to hydrolyse many antibiotics limiting current treatment options. This **DiseaseINFOPACK** report is an expert review of the current literature providing the reader with a full easy-to-read overview of ESBL-producing *E.coli*. The report covers epidemiology, outbreak case studies along with an assessment of current treatment options and future dynamics.

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Authors Note

This DiseaseINFOPACK focuses on ESBL-producing *Escherichia coli* (E.coli) in terms of extraintestinal diseases (ExPEC). Throughout the document there may be references to other forms of E.coli which cause intestinal diseases. The reader is referred to a different DiseaseINFOPACK for more information on this particular aspect of E.coli pathogenesis.

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About VacZine Analytics:

VacZine Analytics is a brand new research consultancy based in the United Kingdom. Its aim is to provide high quality-disease and commercial analysis to those working within or in collaboration with the vaccine industry.

- © With our product lines:
 - DiseaseINFOPACK
 - OpportunitySCAN
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Our key focus is helping clients to build the case for developing new vaccines.

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