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Name of Journal: *World Journal of Clinical Cases*

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Retrospective Study

4 Efficacy of stool multiplex polymerase chain reaction assay in adult patients with acute infectious diarrhea

Jae Sung Ahn, Seung In Seo, Jinseob Kim, Taewan Kim, Jin Gu Kang, Hyoung Su

10 Kim, Woon Geon Shin, Myoung Kuk Jang, Hak Yang Kim

Abstract

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Clinical Significance of Fecal Lactoferrin and Multiplex ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4562781>

Dec 05, 2014 · The diagnostic yield of **fecal leukocyte** and stool cultures is unsatisfactory in patients with **acute diarrhea**. This study was performed to evaluate the clinical significance of the **fecal lactoferrin test** and fecal multiplex polymerase chain reaction (PCR) in patients with **acute diarrhea**.

Cited by: 5

Author: Hae Mi Lee, Seungok Lee, Bo In Lee, Do...

Publish Year: 2015

Efficacy and Cost Comparison Between a Rapid Multiplex ...

https://academic.oup.com/ofid/article/3/suppl_1/214/2637355 ▾

Oct 24, 2016 · Conventional methods to investigate **suspected infectious diarrhea** include stool microscopy, culture, and **antigen detection**. The **BioFire FilmArray Gastrointestinal (GI) pathogen panel** is a rapid (1 hour) multiplex real-time polymerase chain reaction test that can detect the presence of **22 GI pathogens** (viral, **bacterial**, and parasitic) known to cause **infectious diarrhea**.

Cited by: 1

Author: Norman Beatty, David Nix, Kathryn Matt...

Publish Year: 2016

Multiplex Molecular Panels for Diagnosis of ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4652086>

Aug 26, 2015 · A study published in 2013 assessed the **Luminex GPP assay** using 440 stool samples collected from 329 patients, including **immunosuppressed adults (n = 102)** and **children (n = 50)**. Of the 329 patients included in this study, 162 (49.2%) were positive for one or more pathogens by the **xTag GPP panel**, with **rotavirus** being the most commonly detected.

Cited by: 123

Author: Matthew J. Binnicker

Publish Year: 2015

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Clinical Significance of Fecal Lactoferrin and Multiplex ...

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Fecal lactoferrin is a useful marker for more severe dehydration and bacterial etiology in patients with **acute diarrhea**. **Fecal multiplex PCR** can detect more causative organisms than conventional stool cultures in patients with **acute diarrhea**. Keywords: **Acute diarrhea**, **Fecal lactoferrin**, **Fecal leukocytes**, Multiplex polymerase chain reaction

Cited by: 6

Author: Hae Mi Lee, Seungok Lee, Bo In Lee, Do...

Publish Year: 2015

The Distribution of Enteric Infections Utilizing Stool ...

<https://pubmed.ncbi.nlm.nih.gov/29696481>

The Distribution of Enteric Infections Utilizing **Stool Microbial Polymerase Chain Reaction** Testing in Clinical Practice Dig Dis Sci . 2018 Jul;63(7):1900-1909. doi: 10.1007/s10620-018-5087-3.

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Author: Jordan E Axelrad, Andrew Joelson, Yael ...

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Diagnostic determination of Norovirus infection as one of ...

<https://www.ncbi.nlm.nih.gov/pubmed/30722749>

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[Diagnostic determination of Norovirus infection as one of ...](#)

<https://www.ncbi.nlm.nih.gov/pubmed/30722749>

Here, we used **multiplex polymerase chain reaction** as a diagnostic tool to verify Norovirus as the **diarrhea**-related pathogen in HIV-infected **patients** with unknown etiological information. **Stool** specimens obtained from 81 HIV-infected **patients** with **diarrhea** were analyzed by BioFire FilmArray Gastrointestinal (GI) panel.

Cited by: 1 **Author:** Siyuan Yang, Min Li, Jingwei Cheng, Gan...

Publish Year: 2019

[Use of BioFire FilmArray gastrointestinal PCR panel ...](#)

<https://bmcgastroenterol.biomedcentral.com/articles/10.1186/s12876-020-01394-w> ▾

Rapid and accurate diagnostic tools are needed for appropriate management of **infectious diarrhea**. We evaluated the impact of the introduction of rapid **multiplex** PCR testing using the FilmArray gastrointestinal (GI) panel (BioFire Diagnostics, LLC, Salt Lake City, UT) at our institution, and compared the results to those of standard **stool** cultures. The most common pathogens detected by the ...