

Pilot study of a novel serum mRNA gene panel for diagnosis of acute septic arthrit



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Sepsis-induced acute kidney injury - PubMed Central (PMC)

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Acute kidney injury (AKI) is a common sequel of sepsis in the intensive care unit. It is being suggested that sepsis-induced AKI may have a distinct pathophysiology and identity. Availability of biomarkers now enable us to detect AKI as early as four hours after it's inception and may even help us ...

Emerging urinary biomarkers in the diagnosis of acute ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2600533>

The search for novel acute kidney injury biomarkers. ... AKI developed in 99 patients but the diagnosis using serum creatinine was delayed by 2–3 days after CPB. ... Japan). One pilot study examined the role of urinary L-FABP in contrast-induced AKI, defined as an increase in serum creatinine of > 0.5 mg/dl or a relative increase of > 25% at ...

Cited by: 116

Author: Prasad Devarajan

Publish Year: 2008

Biomarkers for Acute Respiratory Distress syndrome and ...

<https://journal-inflammation.biomedcentral.com/articles/10.1186/s12950-018-0202-y> ▾

Jan 15, 2019 · Acute lung injury (ALI) affects over 10% of patients hospitalised in critical care, with acute respiratory distress syndrome (ARDS) being the most severe form of ALI and having a mortality rate in the region of 40%. There has been slow but incremental progress in identification of biomarkers that contribute to the pathophysiology of ARDS, have utility in diagnosis and monitoring, and that are ...

Cited by: 2

Author: Savino Spadaro, Mirae Park, Cecilia Turri...

Publish Year: 2019

Author: Savino Spadaro

Deep sequencing of circulating exosomal microRNA allows ...

<https://www.nature.com/articles/s41698-018-0071-0>

Dec 12, 2018 · This pilot study utilized a relatively small patient group, and further testing is needed to determine whether the miRNA panel can reliably diagnose GBM in large, independent patient cohorts.

Cited by: 6

Author: Saeideh Ebrahimkhani, Saeideh Ebrahim...

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Pilot study of recombinant human soluble tumor ... - Tsimberidou - 被引用次数: 90

... the validity of blood-based gene expression profiles for ... - Tsuang - 被引用次数: 242

... gene: analysis of GAPDH mRNA expression in a panel ... - Barber - 被引用次数: 694

Acute Septic Arthritis - NCBI

https://www.ncbi.nlm.nih.gov › pmc › articles › PMC126863 › 翻译此页

作者: ME Shirliff - 2002 - 被引用次数: 446 - 相关文章

Acute septic arthritis may develop as a result of hematogenous seeding, direct ... While diagnosis rests on isolation of the bacterial species from synovial fluid samples, ... A recent study of 165 cases of acute hematogenous osteomyelitis or septic mutations of the collagen adhesin gene showed that septic arthritis occurred ...

缺少字词: Pilot mRNA panel

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https://www.ncbi.nlm.nih.gov › pubmed › 翻译此页

作者: T Hügler - 2008 - 被引用次数: 107 - 相关文章

6 Abstract

7 BACKGROUND

8 Septic arthritis is an orthopedic emergency requiring immediate surgical intervention.
 9 Current diagnostic standard of care is an invasive joint aspiration. Aspirations provide
 10 information about the inflammatory cells in the sample within a few hours, but there is
 11 often ambiguity about whether the source is infectious (e.g. bacterial) or non-infectious
 12 (e.g. gout). Cultures can take days to result, so decisions about surgery are often made
 13 with incomplete data. Novel diagnostics are thus needed.

14 The "Sepsis MetaScore" (SMS) is an 11-mRNA host immune blood signature that can
 15 distinguish between infectious and non-infectious acute inflammation. It has been
 16 validated in multiple cohorts across heterogeneous clinical settings.

17

18 AIM

19 To study whether the SMS holds diagnostic validity in determining the etiology of acute
 20 arthritis.

21

22 METHODS

23 We conducted a blinded, prospective, non-interventional clinical study of the SMS. All
 24 patients undergoing work-up for a septic primary joint were enrolled. Patients proceeded
 25 through the normal standard-of-care pathway, including joint aspiration and
 26 inflammatory labs [white blood cell (WBC), erythrocyte sedimentation rate (ESR), C-
 27 reactive protein (CRP)]. Venous blood was also drawn into PAX gene RNA-stabilizing
 28 tubes and mRNAs were measured using Nano String nCounter™. SMS was calculated
 29 blinded to clinical results.

30

31 RESULTS

32 A total of 20 samples were included, of which 11 were infected based on aspiration or
 33 intra-operative cultures. The SMS had an area under the ROC curve (AUROC) of 0.87 for
 34 distinguishing between infectious and non-infectious acute inflammation. The AUROC of

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