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Breath Analysis for the Diagnosis and Monitoring of Sepsis and Other Serious Inflammatory States

Tech ID: 23376 / UC Case 2013-720-0

BRIEF DESCRIPTION

Researchers at the University of California, Irvine have developed a breath analysis method to diagnose if a subject is undergoing systemic bacterial infection.

FULL DESCRIPTION

The promise of breath analysis to diagnose a patient and his or her response to medication is attractive since it does not require the invasive procedure of phlebotomy and, unlike blood, it poses minimal biohazard risk to health care or laboratory workers. Breath analysis for diagnostic purposes may be done in real-time or the breath may be collected and later assessed at a remote location.

Sepsis and other serious inflammatory states are of particular interest as target conditions for diagnostic breath analysis and for monitoring a patient’s status. When a patient’s status is rapidly changing, and resuscitative and therapeutic maneuvers need to be instituted and then assessed, real-time data on progression or resolution of sepsis and systemic inflammation is of critical importance.

This breath analysis method to diagnose systemic bacterial infection may also be used in the diagnosis of sepsis.

PATENT STATUS

Country	Type	Number	Dated	Case
United States Of America	Issued Patent	10,031,126	07/24/2018	2013-720

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OTHER INFORMATION

KEYWORDS

Breath analysis, Sepsis, Bacterial, Infectious

CATEGORIZED AS

- » Medical
 - » Devices
 - » Diagnostics
 - » Disease: Infectious Diseases

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2013-720-0

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