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Anton Amann, David Smith
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Breath Analysis for Clinical Diagnosis and Therapeutic Monitoring

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Editors

 World Scientific

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before purchasing it in order to gage whether or not it would be worth my time, and all praised Breath Analysis For
Clinical Diagnosis Therapeutic Monitoring (With Cd-Rom):

0 of 0 people found the following review helpful. Exhaled breath analysisBy Univ -prof Dr HinterhuberExhaled
breath analysis is a new technique for medical diagnosis withgreat future potential.Already in clinical use is a 13C-

urea based breath test for infection with *Helicobacter pylori* (causing gastric ulcer and gastric cancer). Another clinically used test is the hydrogen breath test for fructose or lactose malabsorption. A breath test for dihydropyrimidine dehydrogenase deficiency is presently introduced into clinical testing (this is important because persons suffering from this deficiency should not get cancer treatment with 5-fluorouracil). A breath test for heart transplant rejection, based on endogenously produced methylated hydrocarbons has been approved by FDA. The determination of nitric oxide in exhaled breath (from the upper airways) is used with asthma patients. Exhaled breath analysis is expected to have an enormous impact on medical diagnostic techniques in the next decade. It is non-invasive, comparatively cheap, and analytical techniques have the potential of miniaturization (leading to matchbox-size analytical devices which can be used by medical practitioners in daily routine). The present book is the only overview of all applications of exhaled breath analysis and all different analytical techniques used in the field. Apart from excellent contributions it has a very carefully prepared index which allows quick search (and, in addition, the book is delivered with an electronic fully searchable version on CD-ROM).

This book describes how the analysis of the trace gases in exhaled breath can be used for non-invasive clinical diagnosis of disease and for monitoring the effectiveness of therapy. This approach offers an important addition to the diagnostic techniques available to medicine, having the advantage that on-line breath analysis can provide information to the clinician immediately and thus facilitate rapid diagnosis and treatment. The book is a compilation of contributions to a conference held in Dornbirn, Austria, 23-26 September 2004 on various aspects of this new topic. Written by the foremost workers in the field, it will provide clinicians and others in the medical fraternity with an up-to-date summary of the status of the subject. The wide scope of the chapters ranges from descriptions of the analytical methods that are available, through the use of breath analysis in the study of physiological phenomena, to the identification of biomarkers of particular injury and disease.