Analytical Chemistry for Assessing Medication Adherence

Description: The lack of adherence to medication is a growing public health problem worldwide and is costing many patients their good health and healthcare systems billions of dollars. A new volume in the Emerging Issues in Analytical Chemistry series, Analytical Chemistry for Assessing Medication Adherence introduces the concept of medication adherence/compliance and reports international perspectives on medication adherence while highlighting its importance. It then describes the opportunities for analytical chemistry to assess medication adherence and thereby provide an evidence base for clinicians to improve patient health outcomes. The authors highlight the strengths and weaknesses of each of the analytical techniques cited in addition to categorizing the findings in terms of the biological samples used to assess adherence and identifying methods to extract biological samples prior to analysis. The final chapter provides the authors' perspective in this area, emphasising the importance of medication optimization for individual patients.

The Emerging Issues in Analytical Chemistry series is published in partnership with RTI International and edited by Brian F. Thomas. Please be sure to check out our other featured volumes:


- Surveys the strengths, weaknesses, and appropriateness of existing instruments and techniques and points the way toward a program of therapeutic optimization
- Brings together data scattered amongst professional journals and other sources in a single convenient volume
- Presents the problem of adherence and the authors' evaluation of possible solutions based on the analysis of patient bio-samples

Contents: Chapter 1: Medication adherence
What is medication adherence?
Consequences of non-adherence
Factors affecting medication adherence
Methods for assessing medication adherence

Chapter 2: Opportunities and challenges for analytical chemistry in the assessment of medication adherence
Opportunities
Challenges
Biological sample matrices

Chapter 3: Analytical chemistry methods for the assessment of medication adherence
Sample preparation
Immunoassay systems for organic active pharmaceutical ingredients
Chromatography based methods for organic active pharmaceutical ingredients
Mass spectrometry and chromatography
Analytical methods for inorganic active pharmaceutical ingredients
Polymerase chain reaction (PCR) analysis
Test facilities
Instrumentation for service provision

Chapter 4: Application of bioanalytical methods to assess medication adherence in clinical settings
Survey of published examples of the direct application of analytical chemistry to assess medication adherence in a range of conditions.
The applications include immunosuppression, cardiovascular disease, diabetes, cancer, HIV/AIDS, hepatitis C, malaria, bipolar disorder, depression, pain management and others.

Chapter 5: Medication adherence: Where do we go from here?
Identifying perceived challenges
Ways forward

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