

Accepted Manuscript

Title: Therapeutic drug monitoring for individualised risk reduction in psychopharmacotherapy

Author: Gregor Schütze, Markus Schwarz

PII: S0165-9936(16)30016-4

DOI: <http://dx.doi.org/doi: 10.1016/j.trac.2016.05.027>

Reference: TRAC 14770

To appear in: *Trends in Analytical Chemistry*



Please cite this article as: Gregor Schütze, Markus Schwarz, Therapeutic drug monitoring for individualised risk reduction in psychopharmacotherapy, *Trends in Analytical Chemistry* (2016), <http://dx.doi.org/doi: 10.1016/j.trac.2016.05.027>.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

5

Therapeutic Drug Monitoring for individualised risk reduction in psychopharmacotherapy

Gregor Schütze, Markus Schwarz

10 Institut für Laboratoriumsmedizin, Klinikum der Universität München

Correspondence:

Prof. Dr. med. Markus J. Schwarz

Institut für Laboratoriumsmedizin

15 Klinikum der Universität München

Marchioninstr. 15

D-81377 Munich, Germany

Tel.: +49-89-4400-76246

Fax: +49-89-4400-76220

20 E-mail: Markus.Schwarz@med.uni-muenchen.de

Highlights:

- This review highlights the state of the art of performing Therapeutic drug-monitoring (TDM) in psychopharmacology / psychopharmacotherapy;
- 25 • Especially in TDM of antipsychotics and antidepressants pharmacological / pharmacokinetic interpretation is required;
- Basic principles of pharmacokinetic interpretation are described;
- Methodologic issues of chromatography and mass spectrometry related to TDM of psychopharmacologic drugs are discussed;
- 30 • Clinical case studies illustrate the principles of TDM accompanied with pharmacological interpretation;

Abstract

Psychopharmacological treatment is an integral part of modern psychiatry. However, 35 there are several issues regarding safety, tolerability, adherence and response to treatment. Psychiatry was one of the first medical disciplines introducing routine therapeutic drug monitoring (TDM) to increase safety, tolerability and efficacy of pharmacological treatment. During the past decades, TDM in psychiatry includes measuring the concentrations of the administered drug and its major metabolite in 40 serum or plasma and a pharmacological interpretation of the results is required. Typical

Download English Version:

<https://daneshyari.com/en/article/5141748>

Download Persian Version:

<https://daneshyari.com/article/5141748>

[Daneshyari.com](https://daneshyari.com)