

Accepted Manuscript

Title: A modeling tool for the personalization of pharmacokinetic predictions

Author: Roberto Andrea Abbiati Davide Manca

PII: S0098-1354(16)30061-8

DOI: <http://dx.doi.org/doi:10.1016/j.compchemeng.2016.03.008>

Reference: CACE 5392



To appear in: *Computers and Chemical Engineering*

Received date: 29-9-2015

Revised date: 11-3-2016

Accepted date: 13-3-2016

Please cite this article as: Abbiati, R. A., and Manca, D., A modeling tool for the personalization of pharmacokinetic predictions, *Computers and Chemical Engineering* (2016), <http://dx.doi.org/10.1016/j.compchemeng.2016.03.008>

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.

1 Highlights

2

- 3 • Therapeutic drug monitoring calls for personalized pharmacokinetic models
- 4 • Just two blood withdrawals allow determining an individualized pharmacokinetics
- 5 • Model pharmacokinetics is individualized by applying a personal correction factor
- 6 • A correction factor for personalized medical treatments
- 7 • Remifentanil case study and comparison with Westmoreland, Egan, Dahaba papers

8

9

10

11

12

13 **A modeling tool for the personalization of**

14 **pharmacokinetic predictions**

15

16

17

17 Roberto Andrea Abbiati, Davide Manca *

18

19

20

21 *PSE-Lab*, Process Systems Engineering Laboratory, Dipartimento di Chimica, Materiali e Ingegneria Chimica “Giulio
22 Natta”, Politecnico di Milano, Piazza Leonardo da Vinci 32, 20133 Milano, Italy

23

24

25

26

26 Prepared for “Computers and Chemical Engineering”

27

28

28 First Submission: September 29th, 2015

Download English Version:

<https://daneshyari.com/en/article/6595220>

Download Persian Version:

<https://daneshyari.com/article/6595220>

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