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(PBPK) modeling is a

mathematical modeling

technique for

predicting the

absorption,

distribution,

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metabolism and excretion (ADME) of synthetic or natural chemical substances in humans and other animal species. PBPK modeling is used in pharmaceutical research and drug development, and in health risk assessment for cosmetics or general chemicals.

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modelling -

Wikipedia

Physiologically based pharmacokinetic

(PBPK) modeling is a

computational process

that simulates the

absorption,

distribution,

metabolism, and

excretion of a

substance in the body

of an organism based

on the

interrelationships

among key

physiological,

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biochemical, and

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factors using

mathematical

equations.

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Description.

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(PBPK) Modeling:

Methods and

Applications in

Toxicology and Risk

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Assessment presents foundational principles, advanced techniques and applications of PBPK modeling.

Contributions from experts in PBPK modeling cover topics such as

pharmacokinetic principles, classical physiological models, the application of physiological models for dose-response and risk assessment, the use of in vitro

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information, and in
silico methods.

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(PBPK) modeling is

becoming increasingly

important in human

health risk

assessments and in

supporting

pharmacodynamic

modeling for toxic

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responses. Organized

by classes of

compounds and

modeling purposes so

users can quickly

access information,

this is the first

comprehensive

reference of its kind.

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Modeling : Science

...

Abstract. Nonalcoholic
steatohepatitis (NASH),

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the progressive form of nonalcoholic fatty liver disease, is increasing in prevalence.

NASH-related alterations in hepatic protein expression (e.g., transporters) and in overall physiology may affect drug exposure by altering drug disposition and elimination. The aim of this study was to build a physiologically-based pharmacokinetic (PBPK) model to

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predict drug exposure

in NASH by

incorporating

NASH-related changes

in hepatic transporters.

Principles

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(PBPK) Model of ...

One scientific approach

used to better

understand the health

effects of chemicals is

known as

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PBPK model is used to relate the amount of chemical exposure to the amount of chemical found in the blood and organs at different points in time.

PHYSIOLOGICALLY-BASED PHARMACOKINETIC (PBPK) MODELS

Here, the predictive performance of physiologically based pharmacokinetic (PBPK) food effect

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models was assessed via de novo mechanistic absorption models for 30 compounds using controlled, pre-defined in vitro, and modeling methodology.

Compounds for which absorption was known to be limited by intestinal transporters were excluded in this analysis.

Use of

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Pharmacokinetic

(PBPK) ...

Physiologically-based pharmacokinetic (PBPK) modeling is increasingly used to predict drug disposition and drug-drug interactions (DDIs).

However, accurately predicting the pharmacokinetics of transp...

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Physiologically-based pharmacokinetic (PBPK) modeling has become increasingly widespread within the pharmaceutical industry over the last decade, but without one dedicated book that provides the information researchers need to learn these new techniques, its ...

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Physiologically-Base d Pharmacokinetic (PBPK) Modeling and ...

This guidance outlines the recommended format and content for a sponsor or applicant to submit physiologically based pharmacokinetic (PBPK) analyses to the FDA to support applications including,...

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...

Modeling and simulation of drug disposition has emerged as an important tool in drug development, clinical study design and regulatory review, and the number of physiologically based pharmacokinetic (PBPK) modeling related publications

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and regulatory

submissions have risen

dramatically in recent
years.

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(PBPK) models are

computational tools

that are increasingly

used to address risk

assessment issues,

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particularly in

quantifying the

relationship between

measures of external

exposure and internal

dose.

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Industry

We readjusted a

physiologically based

pharmacokinetic

(PBPK) model for

peroral exposure to

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BPA and extended it to include dermal exposure. We experimentally assessed hepatic and intestinal glucuronidation kinetics of BPS, BPF, and BPAF to parametrize the model for these BPs and calibrated the BPS model with a biomonitoring study.

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Pharmacokinetic (PBPK) Modeling of

••
A growing number of regulatory submissions include physiologically based pharmacokinetic (PBPK) models that require the use of specialised software platforms. While PBPK modelling is presently mentioned in several existing EMA guidelines, this is the first to specifically provide detailed advice

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**Guideline on the
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Physiologically based pharmacokinetic (PBPK) modelling has gained a lot of attention when compared to the one- and two-compartmental modelling in establishing a relationship between

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the in vitro and in vivo
parameters.

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(PBPK) modeling is

increasingly used to

predict drug disposition

and drug-drug

interactions (DDIs).

However, accurately

predicting the

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pharmacokinetics of transporter substrates and transporter-mediated drug-drug interactions (tDDIs) is still challenging.

Examination of Physiologically-Based Pharmacokinetic (PBPK ...

Description: There is still space available to register in EHS 720:

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(PBPK) Modeling with

Dr. Qiang Zhang!. The

health effects of

environmental or

pharmaceutical

chemicals depend on

the concentrations of

the xenobiotics and

their metabolites in the

target tissues.

Pharmaceutical

EH 720: Introduction

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(PBPK) modeling and simulation is a tool that can help predict the pharmacokinetics of drugs in humans and evaluate the effects of intrinsic (e.g., organ dysfunction, age, genetics) and extrinsic (e.g., drug-drug interactions) factors, alone or in combinations, on drug exposure.

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