

Discussion

Reply to Comment on “Determination of treosulfan in plasma and urine by HPLC with refractometric detection; pharmacokinetic studies in children undergoing myeloablative treatment prior to haematopoietic stem cell transplantation”

by G. Hempel and J. Boos

[J. Chromatogr. B 853 (2007) 369–370]

Franciszek Główka*

Poznan University of Medical Sciences, Department of Physical Pharmacy and Pharmacokinetics, 6 Świącickiego Street, 60-781 Poznań, Poland

Received 12 April 2007; accepted 16 April 2007

Available online 25 April 2007

The pharmacokinetic parameters of treosulfan were presented as results in determination of treosulfan concentrations in real biological samples to confirm the utility of the elaborated method. Therefore, the pharmacokinetic analysis that more deeply confirms the usefulness of the method than presentation only in determined levels in biological samples has been shown.

The method is still applied in pharmacokinetic studies of treosulfan in children undergoing myeloablative treatment prior to haematopoietic stem cell transplantation.

The pharmacokinetic parameters were calculated using professional pharmacokinetic program Topfit 2.

Even if our results were obtained in studies carried out on five children, they nevertheless can provide grounds for expectation of pharmacokinetics profile of treosulfan in young patients. We decided to present the results, however, in a condensed form, to

assume that it is better to show preliminary results than wait for the next patients; all the more so as it is very difficult to predict the date of the following studies in children.

To give you a reply to the main problem in your comments, we assessed AUC of three children of nearly the same age, with same body mass, physiological conditions and dose, and we received $AUC = 933 \pm 178 \mu\text{g h ml}^{-1}$. The value is very similar to the values $940 \pm 293 \mu\text{g h ml}^{-1}$ [4] and $898 \pm 104 \mu\text{g h ml}^{-1}$ [6] of adults.

Now we are preparing a manuscript concerning pharmacokinetics of treosulfan in children with extended presentation of the results.

Thank you for your interests in our results. In future I propose that you contact us directly by e-mail or other ways. We are open to all your suggestions and remarks that will benefit to all.

DOIs of original articles: [10.1016/j.jchromb.2007.02.060](https://doi.org/10.1016/j.jchromb.2007.02.060),
[10.1016/j.jchromb.2006.12.020](https://doi.org/10.1016/j.jchromb.2006.12.020)

* Tel.: +48 61 8546431; fax: +48 61 8546430.

E-mail address: glowka@amp.edu.pl.