

Food and Drug Administration  
Center for Drug Evaluation and Research

Summary Minutes of the  
**Advisory Committee for Pharmaceutical Science and Clinical Pharmacology**

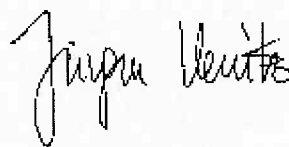
March 19, 2005

Food and Drug Administration  
Center for Drug Evaluation and Research  
Advisory Committee Conference Room, Room 1066  
5630 Fishers Lane  
Rockville, MD

I certify that I attended the March 19, 2008 meeting of the Advisory Committee for Pharmaceutical Science and Clinical Pharmacology and that these minutes accurately reflect what transpired.



Mimi T. Phan, PharmD, R.Ph  
Designated Federal Officer, ACPS-CP



Jürgen Venitz, M.D., Ph.D.  
Acting Chair, ACPS-CP

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The Advisory Committee for Pharmaceutical Science and Clinical Pharmacology of the Food and Drug Administration, Center for Drug Evaluation and Research met on March 19, 2008 at the Food and Drug Administration, Center for Drug Evaluation and Research Advisory Committee Conference Room, Rm. 1066, 5630 Fishers Lane, Rockville, MD. Prior to the meeting, the members and the invited consultants had been provided the background materials from the FDA. The meeting was called to order by Jürgen Venitz, M.D., Ph.D. (Acting Chair); the conflict of interest statement was read into the record by Mimi T. Phan, Pharm.D., R.Ph. (Designated Federal Official). There were approximately seventy (70) persons in attendance. There was no speaker for the Open Public Hearing session.

**Issue:** The committee discussed and provided comments on the Renal Impairment Concept Paper. Key issues discussed were the effects of renal impairment on CYP/transporter, methods of evaluation of renal function and the effects of hemodialysis on drug clearance.

**Attendance:**

**ACPS-CP Committee Members Present (Voting):**

Marilyn E. Morris, PhD; Elizabeth Topp, PhD

**Special Government Employee Consultants (Voting):**

Jeffrey S. Barrett, PhD, FCP; Michael D. Caldwell, MD, PhD; Edmund V. Capparelli, PharmD; David A. Flockhart, MD, PhD; Kathleen Giacomini, PhD; Merrill Goozner; Gregory L. Kearns, PharmD, PhD; Juan J.L. Lertora, MD, PhD; Donald E. Mager, PharmD, PhD; Bruce Mueller, PharmD, FCCP; Mary V. Relling, PharmD; Domenic Sica, MD; Jürgen Venitz, MD, PhD (Acting Chair)

**Industry Representative (Non-Voting):**

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Mukul A. Agrawal, PhD (Acting Industry Representative), Philip Mayer, PhD (Acting Industry Representative)

**FDA Participants (Non-Voting):**

Shiew-Mei Huang, PhD; Lawrence Lesko, PhD; John Strong, PhD; Shen Xiao, MD; Derek Zhang, PhD

**Guest Speakers (Non-Voting)**

Vincent Pichette, MD, PhD; William E. Smoyer, MD; John A. Wagner, MD; PhD

**Designated Federal Official:**

Mimi T. Phan, PharmD, RPh

*The agenda was as follows:*

Call to order

Jürgen Venitz, M.D., Ph.D.  
Acting Chair, ACPS-CP

Conflict of Interest Statement

Mimi Phan, Pharm.D.  
Designated Federal Official, ACPS-CP

***Topic 3: Renal Impairment Concept Paper***

When to conduct a study in renal impairment?

Shiew-Mei Huang, Ph.D.  
Deputy Director, Office of Clinical  
Pharmacology (OCP), CDER,

FDA

Effect of Renal Impairment on CYP/transporter

Vincent Pichette, M.D., Ph.D.  
University of Montreal, Québec, Canada

Methods of Evaluation of Renal Function

Shen Xiao, M.D.  
Division of Cardio-Renal Drug

Products,

Office of New Drugs (OND), CDER,

FDA

Effect of Hemodialysis on drug clearance

William Smoyer, M.D.  
The Research Institute at Nationwide  
Children's Hospital, Columbus, Ohio

Break

PhRMA Perspectives

John A. Wagner, M.D., Ph.D.  
Merck & Co., Inc.

Open Public Hearing

Advisory Committee Discussion & Recommendations

Jürgen Venitz, M.D., Ph.D.



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*chronic kidney disease should be considered in assessing the need for such a study for a given indication.*

- 2) *The reduced PK Study may provide false negative (i.e., reduced metabolism offset by decreased plasma protein binding, leading to apparent equivalence in systemic exposures) or false positive (e.g., non-obvious drug-drug interactions) conclusions and should not be recommended; it could be replaced by a population PK screen.*
- 3) *eGFR method for pediatrics should be included*
- 4) *Recommend plasma protein binding studies for highly plasma protein bound drugs with an emphasis on the measurements of active metabolites/metabolite-safety information.*

**(Please see the transcript for detailed discussion)**

4. What studies in hemodialysis patients does the committee recommend for drugs intended for chronic administration?

*The committee recommended the following studies in hemodialysis patients: Acute dialysis study, Interval dialysis study and peritoneal dialysis study.*

*In addition, the committee suggested that the Agency update and standardize hemodialysis (HD) requirements and consider in vivo PK in intermittent HD population and in vitro drug removal for various devices with continuous renal replacement therapy. (Please see the transcript for detailed discussion)*

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**The meeting adjourned for the day at approximately at 12:00 p.m.**