# ERA-EDTA CME COURSE

**International Centre of Biocybernetics**

## Dialysis Adequacy and Kinetic Modelling

**October 12-14, 2012, Warsaw, Poland**

### Program

<table>
<thead>
<tr>
<th>Day 1</th>
<th>Friday, 12th October 2012</th>
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<tr>
<td>13.30 – 18.00 Registration Open</td>
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<tr>
<td>14.00 – 15.30 Pre-Course Introductory Lectures (optional):</td>
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<tr>
<td>Basis of Mathematical Modeling in Dialysis</td>
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<tr>
<td>14.00 – 14.30 How to start modeling of hemodialysis?</td>
<td>Malgorzata Debowska</td>
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<td>14.30 – 15.00 Classical membrane modeling for peritoneal dialysis: applications and limitations</td>
<td>Joanna Stachowska-Pietka</td>
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<td>15.00 - 15.30 Application of the three-pore modeling to peritoneal dialysis</td>
<td>Magda Galach</td>
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<td>16.00 – 16.30 Welcome and Introduction</td>
<td>Jan Wojcicki, Bengt Lindholm</td>
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<td>16.30 - 17.30 Opening Lectures</td>
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<tr>
<td>16.30 – 17.00 Clinical value of monitoring dialysis adequacy</td>
<td>Zofia Wankowicz</td>
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<td>17.00 – 17.30 When to start dialysis?</td>
<td>James Tattersall</td>
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<td>17.30 - 19.30 Welcome Reception</td>
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<th>Day 2</th>
<th>Saturday, 13th October 2012</th>
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<tr>
<td>9.00 - 10.30 General Adequacy Session</td>
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<tr>
<td>9.00 – 9.30 Adequacy of PD based on kinetic modeling: An overview</td>
<td>Olaf Heimburger</td>
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<td>9.30 – 10.00 Adequacy measurement in HD: An overview</td>
<td>James Tattersall</td>
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<tr>
<td>10.00 – 10.30 Adequacy of fluid removal in dialysis patients: An overview</td>
<td>Simon Davies</td>
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10.30 – 11.00  Meet the teacher combined with coffee break

11.00 – 12.30  Peritoneal Dialysis Session I
   11.00 – 11.30  How do we measure PD adequacy in the clinic?
   Olof Heimburger
   11.30 – 12.00  Peritoneal membrane assessment and biomarkers in PD
   Raymond Krediet
   12.00 – 12.30  The three pore model for PD
   Bengt Rippe

12.30 – 14.00  Lunch

14.00 – 15.00  Peritoneal Dialysis Session II
   14.00 – 14.30  Modeling of peritoneal transport
   Joanna Stachowska-Pietka
   14.30 – 15.00  Optimizing the short and long peritoneal dwells
   Bengt Rippe

15.00 – 15.30  Epidemiology Lecture
   How is dialysis practiced in Europe today?
   Boleslaw Rutkowski

15.30 – 16.00  Meet the teacher combined with coffee break

16.00 – 17.30  Hemodialysis Session I
   16.00 – 16.30  How do we measure HD adequacy in the clinic?
   James Tattersall
   16.30 – 17.00  Kt/V and UKM: Concepts and pitfalls
   Frantisek Lopot
   17.00 – 17.45  Evaluation of middle molecule, beta-2-microglobulin and protein-bound solute clearance
   Alp Akonur

Day 3  Sunday, 14th October 2012

8.30 – 9.30  Meet the expert session and coffee/tea
   8.30 – 9.30  Informal discussions on the topic and expert of your choice
   PD: Bengt Rippe, Olof Heimburger, Ray Krediet, Simon Davies
   HD: James Tattersall, Daniel Schneditz, Frantisek Lopot

9.30 – 10.30  Kinetic Modeling Session I
   9.30 – 10.00  Kinetics of glucose and insulin during hemodialysis
   Daniel Schneditz
   10.00 – 10.30  Kinetics of glucose and insulin during peritoneal dialysis
   Magda Galach

10.30 – 11.00  Meet the teacher combined with coffee break

11.00 – 12.30  Kinetic Modeling Session II
   11.00 – 11.30  Physiologically based kinetic modeling in hemodialysis
   Daniel Schneditz
   11.30 – 12.00  Modeling of phosphate kinetics during dialysis sessions I
   Frantisek Lopot
   12.00 – 12.30  Modeling of phosphate kinetics during dialysis sessions II
   Alp Akonur

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12.30 – 13.30  Lunch

13.30 – 15.00  Kinetic Modeling Session III
  13.30 – 14.00  How to assess fluid status in dialysis patients?
                 Simon Davies
  14.00 – 14.30  Modeling of fluid transport in dialysis
                 Jacek Waniewski
  14.30 – 15.00  Adequacy assessment: renal and dialytic clearances
                 Małgorzata Debowska

15.00 – 15.15  Closing Remarks