

# Medical Flashlight

01/2010

<b>Title</b>	<b>High-flux or low-flux dialysis: a position statement following publication of the Membrane Permeability Outcome study</b>
<b>Author(s)</b>	<b>J Tattersall, B Canaud, O Heimbürger, L Pedrini, D Schneditz, W Van Biesen and European Renal Best Practice advisory Board</b>
<b>Journal</b>	<i>NDT advance access published December 22, 2009</i>
<b>Introduction</b>	<p>In 2009 J Am Soc Nephrol published the results of the Membrane Permeability Outcome study, a European prospective, randomised, controlled, multi-centre trial investigating the effect of high-flux dialysis vs low-flux dialysis on patient survival. Recently, Tattersall et al. published a position statement in NDT. The aim of the statement was to <b>update the current European Best Practice Guideline (EBPG)</b> regarding the question whether the use of high-, compared to a low-flux dialyser membrane has a measurable effect on survival, solely due to the results of the MPO study.</p>
<b>Results</b>	<p>The revised guidance should be read as:</p> <p><b><u>Synthetic high-flux membranes should be used to delay long-term complications of haemodialysis therapy in patients at high risk (serum albumin &lt; 40 g/l) (level 1A: strong recommendation, based on high-quality evidence). In view of underlying practical considerations, and the observation of a reduction of an intermediate marker (beta-2-microglobulin), synthetic high-flux membranes should be recommended even in low-risk patients (level 2B: weak recommendation, low quality evidence).</u></b></p> <ul style="list-style-type: none"> <li>• This new recommendation is the consequence of the results of the MPO study regarding improved survival with high-flux membranes in high-risk patients (serum albumin &lt; 40 g/l). This recommendation is supported by a high grade of clinical evidence (current guideline has to be upgraded).</li> <li>• The evidence level is also level 1A for the effect of flux on serum beta-2-microglobulin.</li> <li>• Though less strongly supported by clinical data, high-flux membranes should also be recommended in low-risk patients, since many patients have a low albumin at start of dialysis. In addition high-flux membranes effectively reduce middle molecule substances and their price is not substantially higher.</li> </ul>
<b>Summary</b>	<p>Due to the results of the MPO study, the evidence level of the existing EBP guidelines regarding recommendation to use high-flux membranes should be upgraded and high-flux membranes should be recommended to high risk and low risk patients.</p>