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computing techniques of dialysis

## **Table of Contents: Modeling and control of dialysis systems.**

Dialysis is a treatment that filters and purifies the blood using a machine. This helps keep your body in balance when the kidneys can't perform this function. Get the facts on the three ...

## **Dialysis: Purpose, Types, Risks, and More**

In the less-intensive group assigned to IHD, sequential dialysis could be used to control the fluid balance (ultrafiltration alone on days when dialysis was not performed). In IHD the prescribed dose based on formal urea kinetic modeling ( $Kt/V$ ) derived from chronic hemodialysis patients was 1.2 to 1.4, which is the target recommended to improve ...

## **Dialysis Adequacy - an overview | ScienceDirect Topics**

The dialysis tubing is made up of cellulose fibers. This is shaped in a flat

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tube. In this experiment, the selective permeability of dialysis tubing to glucose, starch and iodine (potassium iodide) will be tested. This experiment consists of two tests; the test for starch and the test for reducing sugar.

## **Selective Permeability of Dialysis Tubing Lab: Explained ...**

|a Modeling and control of dialysis systems. |n Volume 2, |p Biofeedback systems and soft computing techniques of dialysis |h [electronic resource] / |c Ahmad Taher Azar (ed.). 246: 3: 0 |a Biofeedback systems and soft computing techniques of dialysis 260 |a Berlin ; |a New York : |b Springer, |c c2013. 300

## **Staff View: Modeling and control of dialysis systems.**

Modeling and control of dialysis systems. Volume 2, Biofeedback systems and soft computing techniques of dialysis. [Ahmad Taher Azar;] -- This book is the first text of its kind that presents both the traditional and the modern aspects



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of dialysis modeling and control in a clear, insightful and highly comprehensive writing style.

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assess the dialysis process accurately, modelling of urea kinetics is required that simulates the movement of urea to, from and within the body during and between dialyses.

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**Urea kinetic modelling: a measure of dialysis adequacy**

The protocols were as follows: A standard dialysis group with dialysate sodium of 138 mEq/L (served as the control group), high sodium dialysate (patient dialyzed using a steady dialysate sodium of 144 mEq/L), sodium modeling using a step function design (dialysate sodium declined from 152 to 140 mEq/L in the last 30 min of dialysis ...

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