

Adimea = Accurate Dialysis Measurement User Guide

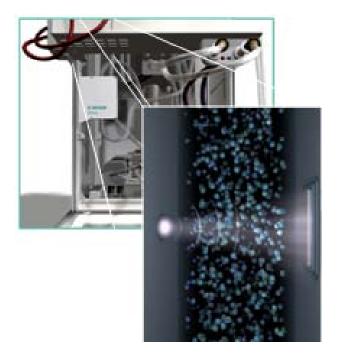
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Adimea = Accurate Dialysis Measurement

- Option for Dialog^{+®} machine generation
- Measuring UV-Light Absorbance in spent dialysate
- Continuous Measurement of change in molar concentration





WARNING Do not use the Adimea option UV-Kt/V for pediatric patients, since the accuracy of this optional feature has not bee proven or validated in the pediatric population.

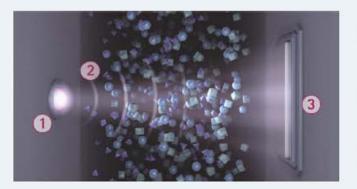


How Does Adimea Work?

Adimea[®] | Technology

The Adimea® measurement principle

Uses the principle of spectroscopy for determining the reduction of urinary excreted substances in the dialysate drain



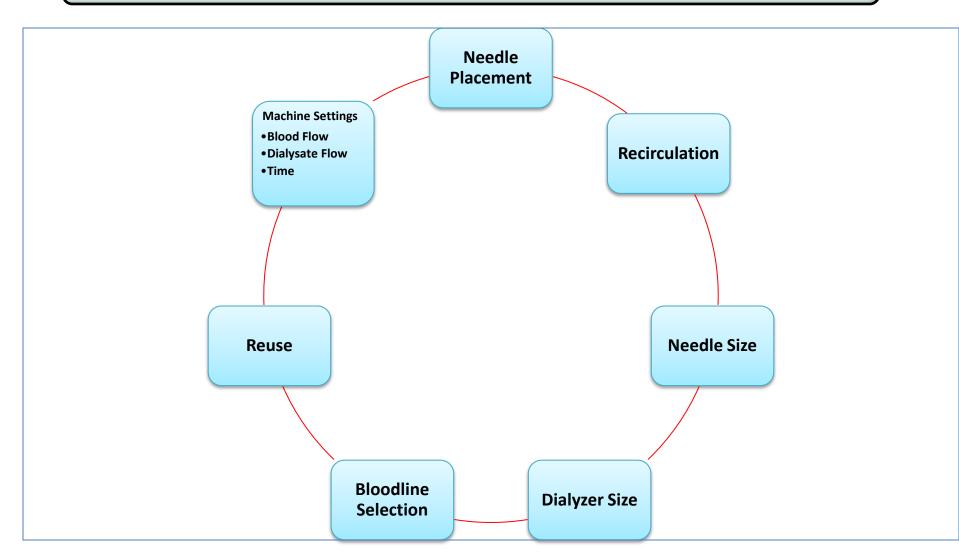
- A light source ① transmits ultraviolet light through the dialysate flowing to the drain.
- The particles contained in the dialysate absorb the light depending on the concentration Q.
- > This absorbtion is detected by a sensor 3.



This provides the system with information about the curve of molar reduction in the urea.



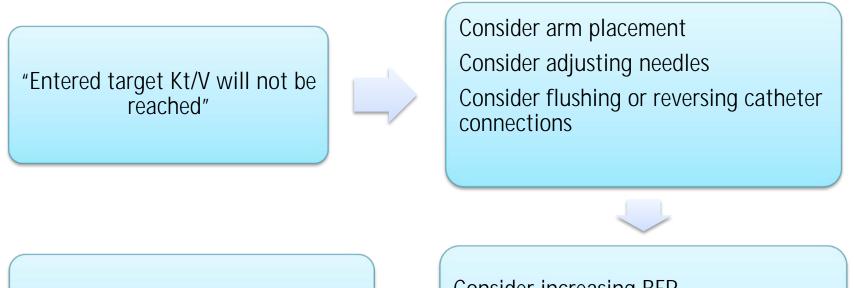
Factors That Influence Adequate Dialysis







Example of Adimea Algorithm to Improve Outcomes



Consider changing dialyzer size for next treatment

Consult with care team

Consider increasing BFR Consider increasing DFR Consider increasing treatment time

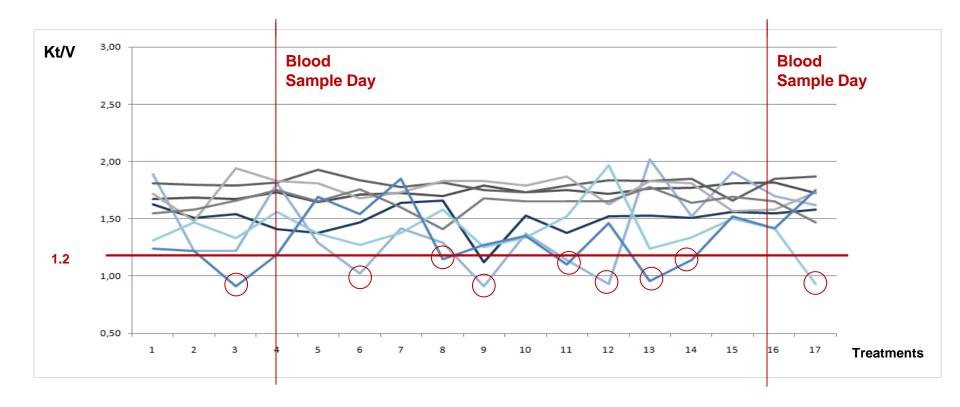




What are your opinions of a single monthly blood sample as an adequate measurement of dialysis dose?



Observational Data (B. Braun) shows:

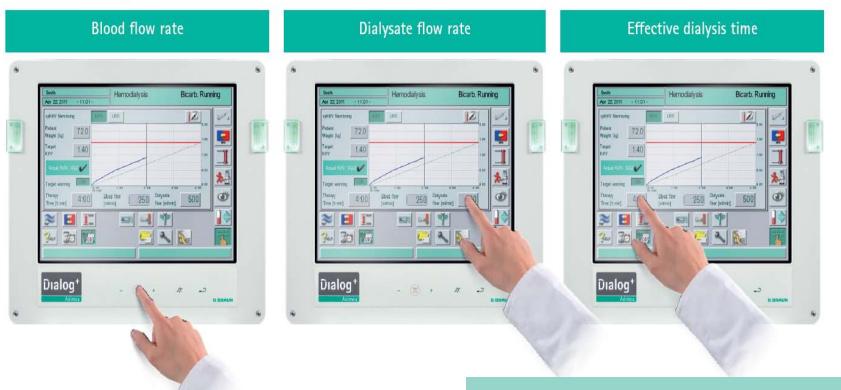


A single Kt/V value does not tell the whole story!



Adjusting Treatment Parameters

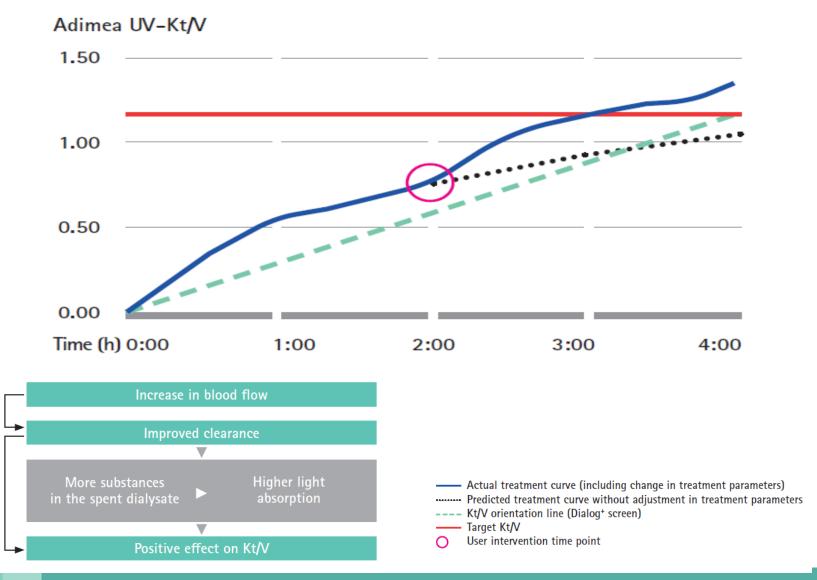
Adimea offers direct control of 3 important clearance influencing factors



Adjustments to treatment parameters luring dialysis sessions must be Ipproved by the physician.

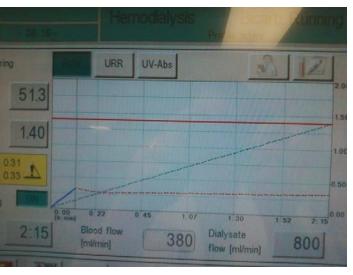


Blood Flow Rate

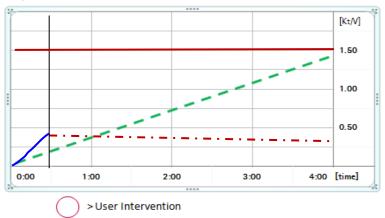


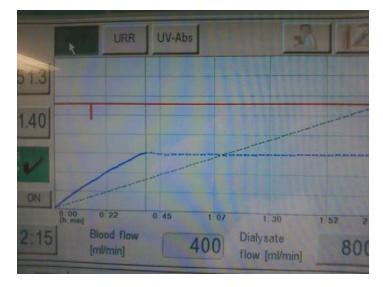


Alarm with Low Kt/V Projection

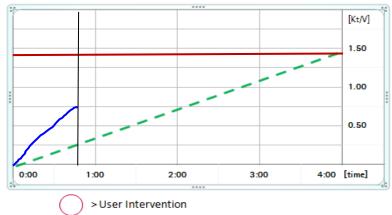


Kt/V





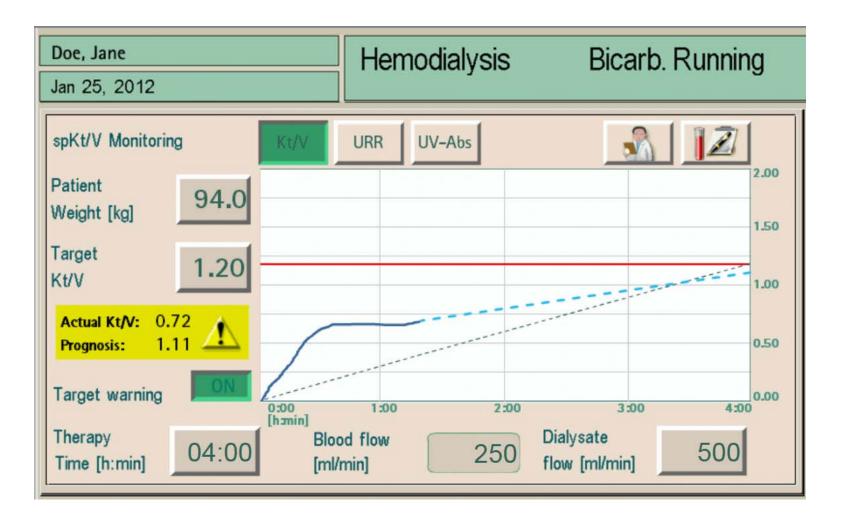
Kt/V



Increased Blood Flow and Alarm Turned Off

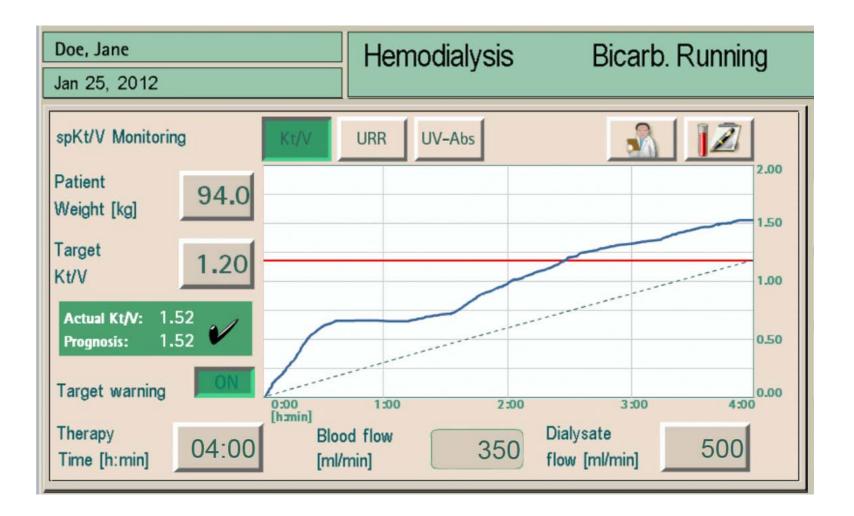


Blood Flow Rate



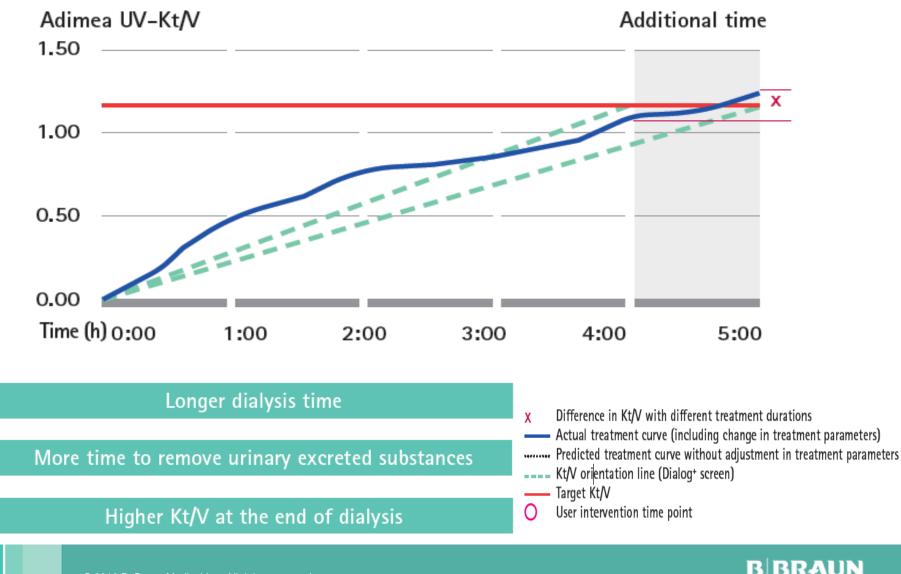


Increased Blood Flow Rate





Extending Dialysis Treatment Time

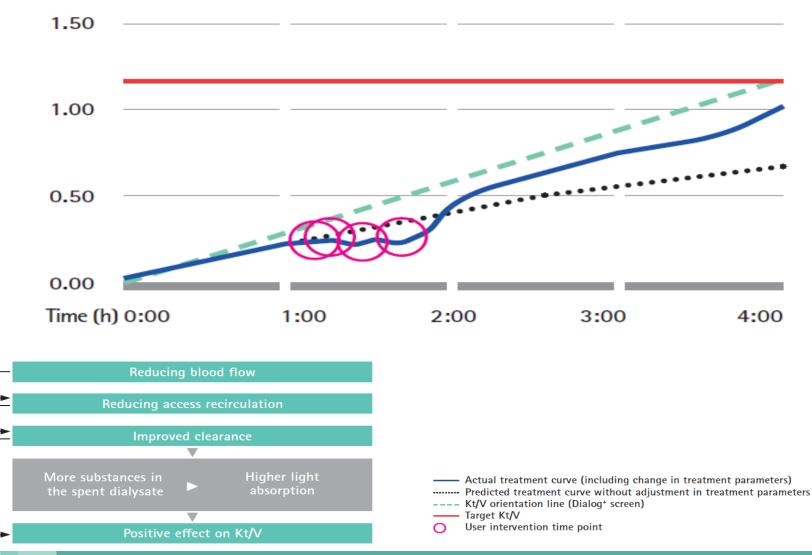


SHARING EXPERTISE

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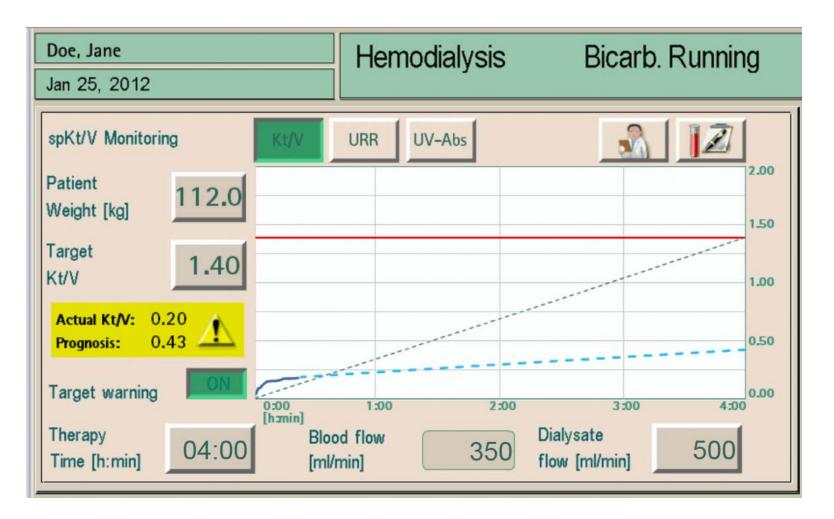
Reducing Blood Flow Rate for Recirculation

Adimea UV-Kt/V



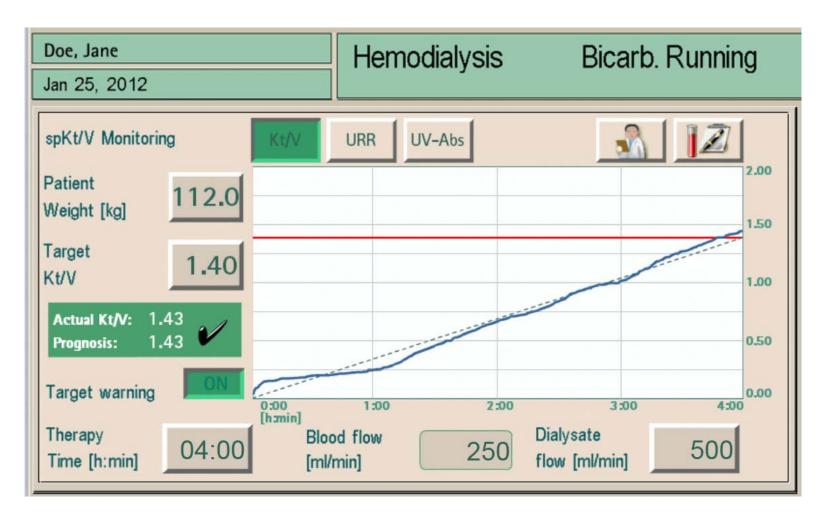


Recirculation



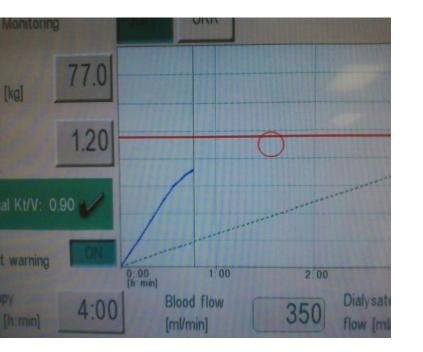


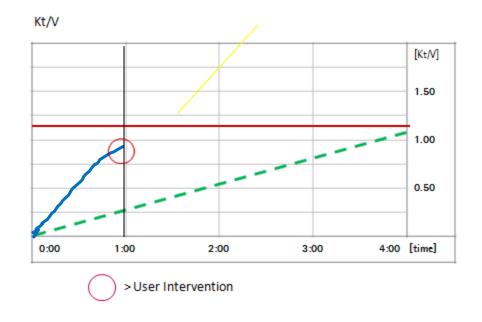
Recirculation-Decreased BFR





Recirculation

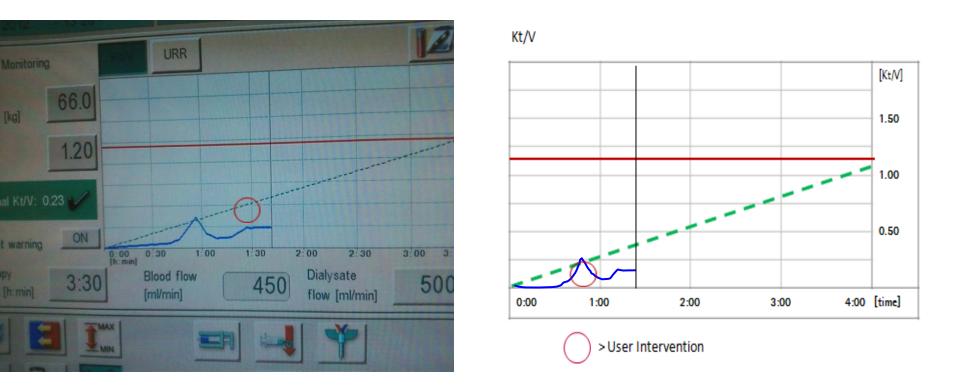




Graph shows significant recirculation



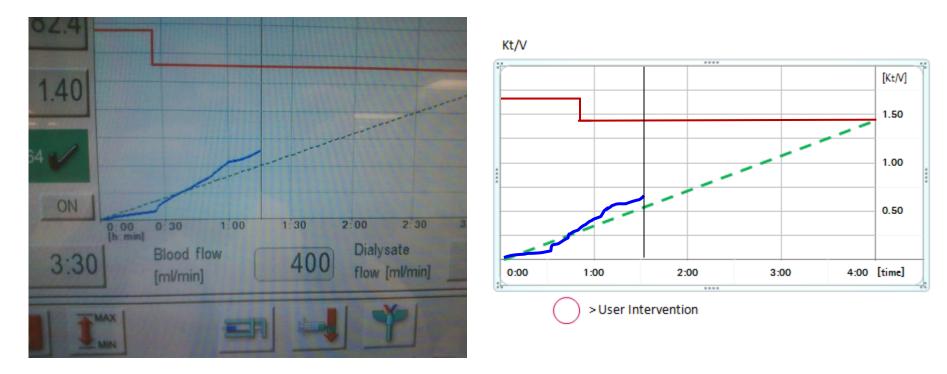
Arm Placement Problem



This graph was taken on a patient who had his arm in a chair. The patient's arm was repositioned up and out of the chair. Needles were checked for placement and line reversal. Note the sudden upswing at approximately 40 minutes after arm repositioning.



Arm Placement Position

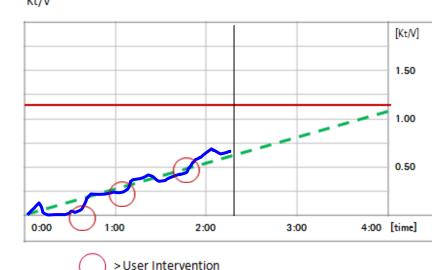


Arm position changed during first 30 minutes of treatment



Catheter Patient





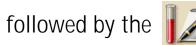
> Patient on a problem catheter



Adimea used in conjunction with the Patient Card Reader provides details at a glance

Go to Adimea by pressing the







Smith			eparation	Acknowledge data!			
Sep 17, 2008 -	13 00 -		-				
Therapy Date and time	Target Kt/V	Patient Weight (kg)	Actual Therapy time	Average Blood flow	Average Dialysate flow	Act. URR (%)	Act KT/V
17.09.2008 9:00	1.40	72.0	04:04	400	700	77	1.45
15.09.2008 9:00	1.40	72.4	04:00	400	700	80	1.43
13.09.2008 9:02	1.40	72.8	04:03	400	720	79	1.48
10.09.2008 8.59	1.40	71.9	04:05	400	750	78	1.40
08.09.2008 9:05	1.40	72.0	04:00	410	700	77	1.42
06.09.2008 9:10	1.40	72.2	04:04	420	720	77	1.43
03.09.2008 9:00	1.40	72.3	04:02	410	740	77	1.44

- The above data for the last 25 patient treatments is stored on the patient card
- Weight gains, access issues and clearance trends can be detected at an early stage



Kt/V History Utilizing Patient Card

This function gives the clinician the ability to compare the current Kt/V or URR curve with a history curve of their choice which can be displayed together on the main Adimea screen

- ✤ A list with the previous 12 therapies will appear
- ✤ Select "Doctor" icon

Sep 07, 2010 -	17 22 -	Hemodialysis	Bicarb. Run	ning
spKt/V Monitoring	Kt/V	URR UV-Abs	A Z	100
Patient Weight [kg]	5.0	[Friday, 18.06.2010	
Target 1	.20		None	MIN
Kt/V			Average curve	
Actual Kt/V: 1.25			Friday, 18.06.2010	. =
-	ON		Wednesday, 16.06.2010	×-
raiger warning	0:00 [h:min]	1:00	Monday, 14.06.2010	
Time [h:min]		nin] 26		3
NN E			CANCEL SO.K.	

- Select the therapy you would like to see on the screen.
- The Kt/V curve of the selected therapy is displayed together with the actual one as a black dashed line (1, below).
- > Also possible with URR and UV absorbance curves.



Questions



For additional clinical resources please visit us online at: www.BBraunUSA.com/Clinical



Thank you for your time



