Adimea offers direct control of 3 important clearance influencing factors

Blood flow rate

Dialysate flow rate

Effective dialysis time

Changes in blood flow and/or dialysate flow influence clearance. A longer dialysis time means more time to remove urinary excreted substances. The case studies on the following pages demonstrate theoretically what effects changes in these parameters have on the treatment outcome.¹


Adjustments to treatment parameters during dialysis sessions must be approved by the physician.
Increasing blood flow increases Kt/V

- **Increased blood flow**
- **Improved clearance**
- **More substances in the spent dialysate**
- **Higher light absorption**
- **Positive effect on Kt/V**

- **Actual treatment curve (including change in treatment parameters)**
- **Predicted treatment curve without adjustment in treatment parameters**
- **Kt/V orientation line (Dialog+ screen)**
- **Target Kt/V**
- **User intervention time point**
Reducing blood flow while reducing access recirculation increases Kt/V.

- Reducing blood flow
- Reducing access recirculation
- Improved clearance
  - More substances in the spent dialysate
  - Higher light absorption
- Positive effect on Kt/V

- Blue line: Actual treatment curve (including change in treatment parameters)
- Dotted line: Predicted treatment curve without adjustment in treatment parameters
- Dashed line: Kt/V orientation line (Dialog® screen)
- Red line: Target Kt/V
- Circle: User intervention time point

UV light absorption

Time (h): 0:00, 1:00, 2:00, 3:00, 4:00

Adimea UV-Kt/V

Time (h): 0:00, 1:00, 2:00, 3:00, 4:00
Increasing dialysate flow increases Kt/V

- **UV light absorption**
  - 0 %
  - 25 %
  - 50 %
  - 75 %
  - Time (h): 0:00, 1:00, 2:00, 3:00, 4:00

- **Adimea UV-Kt/V**
  - 0.00
  - 0.50
  - 1.00
  - 1.50
  - Time (h): 0:00, 1:00, 2:00, 3:00, 4:00

**Increase dialysate flow**

- **Improved clearance**

- **More substances in the spent dialysate**

- **Higher light absorption**

- **Positive effect on Kt/V**

- **Legend**:
  - Blue line: Actual treatment curve (including change in treatment parameters)
  - Dashed line: Predicted treatment curve without adjustment in treatment parameters
  - Dotted line: Kt/V orientation line (Dialog screen)
  - Red line: Target Kt/V
  - Pink circle: User intervention time point
Extending dialysis time increases Kt/V

Steadily falling Kt/V values

If a steadily falling Kt/V value is displayed in the Kt/V table, stenosis could be developing. Check if other treatment parameters (blood flow/dialysate flow/treatment time) are consistent. If yes: check patient’s vascular access for stenosis.