Supplementary Table 1 Baseline characteristics of type 2 diabetes with on online hemodiafiltration, mean ± SD/median ± IQR

Clinical variables	
Age (years)	72.66 ± 8.98
Sex (M/W) (%)	52.8/47.2
Time in Hemodialysis (years)	2.77 ± 3.27
Diabetes duration (years)	18.50 ± 6.67
Previous kidney transplant (%)	3.8
Hypertension (%)	100
Hypercholesterolemia (%)	71.4
Heart failure (%)	45.7
Diabetic retinopathy (%)	57.1
Diabetic polyneuropathy (%)	40
Peripheral vascular disease (%)	20
Cerebrovascular disease (%)	40
Abdominal waist (cm) (W/M)	W: 83.46 ± 15.62, M: 80.44 ± 10.55
Dry weight (kg)	69.25 ± 15.19
BMI (kg/m^2)	27.13 ± 5.95
Obesity by BMI (%)	24
WHtR	0.51 ± 0.82
Obesity by WHtR (%)	52
Analitical variables	
Hemoglobin (g/L)	11.19 ± 1.21
Ferritin (ng/mL)	389 ± 243.29
HbA1c (%) (mmol/moL)	6.98 ± 1.38 (52.9 ± 15.1)
Triglycerides (mg/dl)	154.60 ± 100.62
Parathyroid hormone (pg/mL)	369.62 ± 289.71
Calcium (mg/dL)	8.80 ± 0.58
Phosphorus (mg/dL)	4.37 ± 1.18
Ca × Pi Index	37.45 ± 10.45
Albumin (g/dL)	3.71 ± 0.34

Systemic Immune-inflammation Index; MF-BIA	688.54 ± 558.38
TBW (L)	35.04 ± 5.48
Intracellular water (L)	21.09 ± 3.62
ECW (L)	14.25 ± 2.54
ECW/TBW ratio	0.395 ± 0.013
VFA (cm^2)	99.03 ± 55.93
VFA > 100 cm^2 (%)	44
Total phase angle (degrees)	4.46 ± 1.76
Chest phase angle (degrees)	7.15 ± 2.43
Skeletal muscle index	W: 7.59 ± 0.90, M: 7.60 ± 1.35
Ol-HDF	4 hours
Vascular Access (AVF/CVC) (%)	42.9/57.1
Dialyzers (PES/HP) (%)	100
Dialyzer (1.9/2.1m^2) (%)	68.8/31.3
Weight pre-post HD (kg)	2.32 ± 0.68
Substitution Volume (L)	28.26 ± 7.57
Arterial Pressure (mmHg)	-126.19 ± 108.47
Venus Pressure (mmHg)	157.61 ± 22.54
Blood Flow Rate (Qb) (mL/min)	381.14 ± 20.85
Kt/V	2.06 ± 0.35

Supplementary Table 2 Univariate analysis of clinical predictors of differences in time in range > 5%

Variable	**B (coefficient)**	**S.E.**	**Wald**	***P* value**	**Exp(B)**
Body index mass	–0.061	0.348	0.030	0.86	0.810
Waist-to-height ratio	–12.704	5.47	5.38	0.020	0.000
VFA (continuous)	–0.020	0.008	5.59	0.018	0.980
VFA >100 cm^2	–2.47	0.914	7.35	0.007	0.040
Abdominal waist	–0.079	0.03	5.97	0.014	0.92

Kt/V	0.20	0.992	00.043	0.83	1.23
Qb	–0.019	0.018	1.14	0.28	0.981
ECW/TBW ratio	51.69	33.26	2.41	0.120	0.000
Systemic immune-inflammation Index	0.002	0.001	2.54	0.11	1.002
Total phase angle	-0.79	0.45	2.98	0.084	0.45
Age	-0.372	2.29	0.026	0.871	0.689
Diabetes duration	-0.135	0.94	0.020	0.88	0.87
Insulin regime	1.21	0.68	3.16	0.075	3.36

Supplementary Table 3 Multivariate logistic regression analysis of clinical predictors of high glycemic variability (differences in time in range) in type 2 diabetes patients on hemodialysis

Variable	B	SE	Wald	*P* value	OR (Exp(B))	95%CI for OR
VFA > 100 cm²	-2.56	1.06	5.84	0.016	0.077	0.010-0.61
ECW/TBW ratio	-38.48	65.41	0.34	0.55	0.000	0.61-9.17
Insulin regime	1.90	1.22	2.43	0.11	6.74	0.61-73.505
Total phase angle	-1.24	1.10	1.29	0.25	0.28	0.033-2.47
Constant	20.41	29.90	0.46	0.49	734205686	-

Supplementary Table 4 Coordinates of the receiver operating characteristic to analyze the cutt-off of visceral fat area

Coordinates of the curve		
Test result variable(s): Visceral fat area		
Positive if greater than or equal to[1]	**Sensitivity**	**1 - Specificity**
15.7000	1.000	1.000
21.6000	1.000	0.933
30.6000	1.000	0.867
37.7500	1.000	0.800
41.0500	1.000	0.733
44.8500	1.000	0.667

49.4500	1.000	0.600
51.1500	1.000	0.533
53.5000	1.000	0.467
55.9500	0.941	0.467
56.9000	0.941	0.400
59.9500	0.882	0.400
62.9000	0.882	0.333
64.2000	0.824	0.333
67.0500	0.765	0.333
72.7000	0.765	0.267
78.5500	0.765	0.200
81.2500	0.706	0.200
83.3500	0.647	0.200
96.3000	0.647	0.133
113.0000	0.588	0.133
121.2000	0.529	0.133
127.1500	0.471	0.133
130.9000	0.412	0.133
138.0000	0.353	0.133
154.9500	0.294	0.133
166.6000	0.235	0.133
175.2000	0.176	0.133
184.9500	0.176	0.067
193.1500	0.059	0.067
203.2000	0.000	0.067
208.0000	0.000	0.000

[1]The smallest cutoff value is the minimum observed test value minus 1, and the largest cutoff value is the maximum observed test value plus 1. All the other cutoff values are the averages of two consecutive ordered observed test values.

Visceral fat area associated with increased differences in time in range > 5%.