

Supplementary data

Table 1. Primer pairs for various cytokines

Gene	Primer/probe	Sequence
TNF- α	Primer(forward)	5'-CCCCAGGGACCTCTCTCTAATC-3'
	Primer (reverse)	5'-GGTTTGCTACAACATGGGCTACA-3'
IL-6	Primer(forward)	5'AGAGTAGTGAGGAACAAGCCAGAG-3'
	Primer (reverse)	5'-GGCATTGTGGTGGTCAGG-3'
IL-8	Primer (forward)	5'-CTGGCCGTGGCTCTCTTGG-3'
	Primer (reverse)	5'-GGGTGGAAAGGTTGGAGTA TGTC-3'
IL-10	Primer (forward)	5'-GCTGGAGGACTTAAGGGTTACCT-3'
	Primer (reverse)	5'-CTTGATGTCTGGGTCTGGTTCT-3'

Table 2. Baseline characteristics of predialysis CKD patients

	uremic non-dialysis group (total N = 16)
Age (mean ± S.D.)	60.8 ± 14.2
Sex, Male, n, (%)	9 (56%)
Underlying disease, n, (%)	DM: 10 (63%), HTN 15 (94%) glomerulonephritis 1(6%)
Mean eGFR (mean ± S.D.) stage, n, (%)	13.4 ± 7.8 Stage IV: 11 (69%), stage V: 5 (31%)
co-morbidity n, (disease entety)	ischemic heart disease: 2(angina) Cerebrovascular accident 1(MCA infarct) Liver disease: 2(child-class A Liver Cirrhosis)

Table 3 comparing with paired group patients

	HD(n=27)†	HDF (n= 9)	P value
Gender, male, n(%)	18(67%)	6(67%)	0.665
Age(yr)	59.3 ± 12.6	59.1 ± 14.7	0.886
DM, n (%)	18(67%)	6(67%)	0.665
HTN, n (%)	21(78%)	7(78%)	0.690
Co-morbidity n (%)	angina(6), old MI(1),	angina(2), old MI(0),	0.602
Dialysis duration (months)	60.2 ± 48.7	63.0 ± 41.5	0.615
URR (%)	71.7 ± 5.1	75.7 ± 7.2	0.117
KT/V	1.5 ± 0.3	1.7 ± 0.3	0.117
WBC(/µL)	6729 ± 1993	7157 ± 2811	0.774
Blood neutrophil %	65.6 ± 9.3	70.2 ± 8.8	0.357
Blood monocyte %	7.7 ± 2.5	5.9 ± 3.2	0.066
Hemoglobin (g/dL)	10.2 ± 0.8	10.5 ± 0.6	0.117
BUN (mg/dL)	71.4 ± 17.4	59.8 ± 19.2	0.062
Creatinine (mg/dL)	10.3 ± 2.5	10.2 ± 2.4	0.971
CO2 (mmol/L)	19.5 ± 2.9	21.1 ± 1.6	0.260
Albumin (mg/dL)	3.9 ± 0.3	3.9 ± 0.2	0.667
Phosphate (mg/dL)	4.6 ± 1.0	4.6 ± 1.5	0.472
Ca (mg/dL)	8.9 ± 0.8	8.7 ± 0.5	0.565
CRP (mg/dL)	3.9 ± 3.8	2.7 ± 2.6	0.330
PTH (pg/ml)	173.0±183.0	216.8±151.5	0.218
Beta2M (mg/dL)	25.9 ± 10.1	20.3 ± 6.2	0.096

monocyte % (flow cytometry assay)	5.9 ± 3.7	3.8 ± 1.7	0.222
CD14⁺CD16⁺Mo.%(/ total monocyte)	23.6 ± 13.0	11.2 ± 5.2	0.006
CD14⁺CD16⁺Mo.%(/ total WBC)^{††}	20.8 ± 21.4	8.7 ± 7.3	0.050
CD14⁺⁺CD16⁺Mo.%(/total monocyte)	5.0 ± 3.5	5.8 ± 3.6	0.569
CD14⁺CD16⁺Mo.%(/ total WBC)^{††}	4.6 ± 3.9	4.3 ± 5.3	0.508
TNF-α (pg/ml)	95.6 ± 101.5	10.4 ± 21.8	0.010
IL-10 (pg/ml)	5.9 ± 13.1	2.7 ± 3.2	0.946
IL-6 (pg/ml)	641 ± 1377	17 ± 30	0.040
IL-1β (pg/ml)	29.3 ± 51.3	3.4 ± 8.4	0.021
IL-8 (pg/ml)	1595 ± 1827	80 ± 110	0.001

[†]We selected 27 HD patients who have similar baseline characteristics (sex, age, dialysis duration, DM, co-morbidity) with on-line HDF patients (3 fold selection)

^{††}Monocyte count was normalized to total WBC count