Supplemental Material

Oxygen Extraction Ratio (OER) as a Measurement of Hemodialysis (HD) Induced Tissue Hypoxia. A Pilot Study

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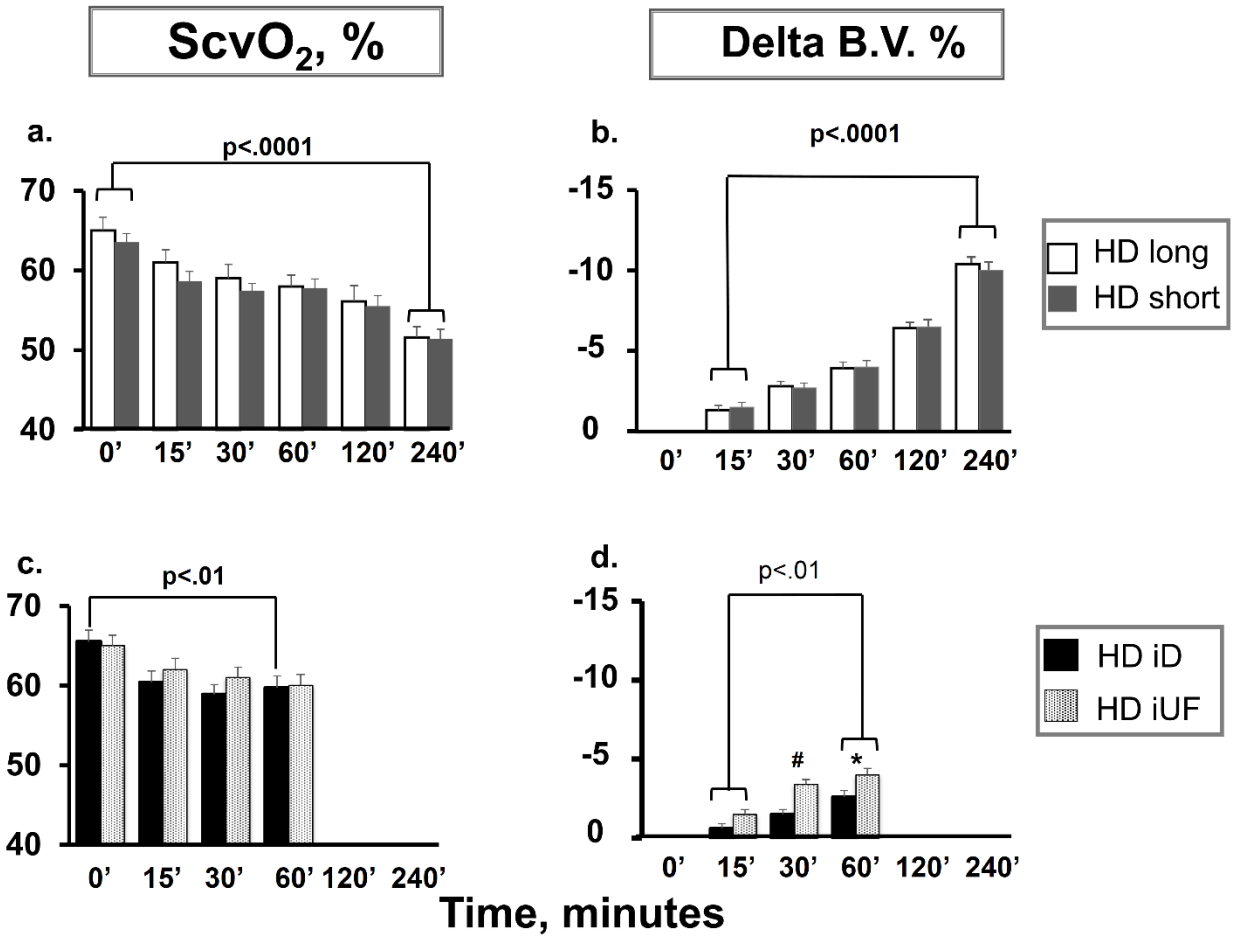
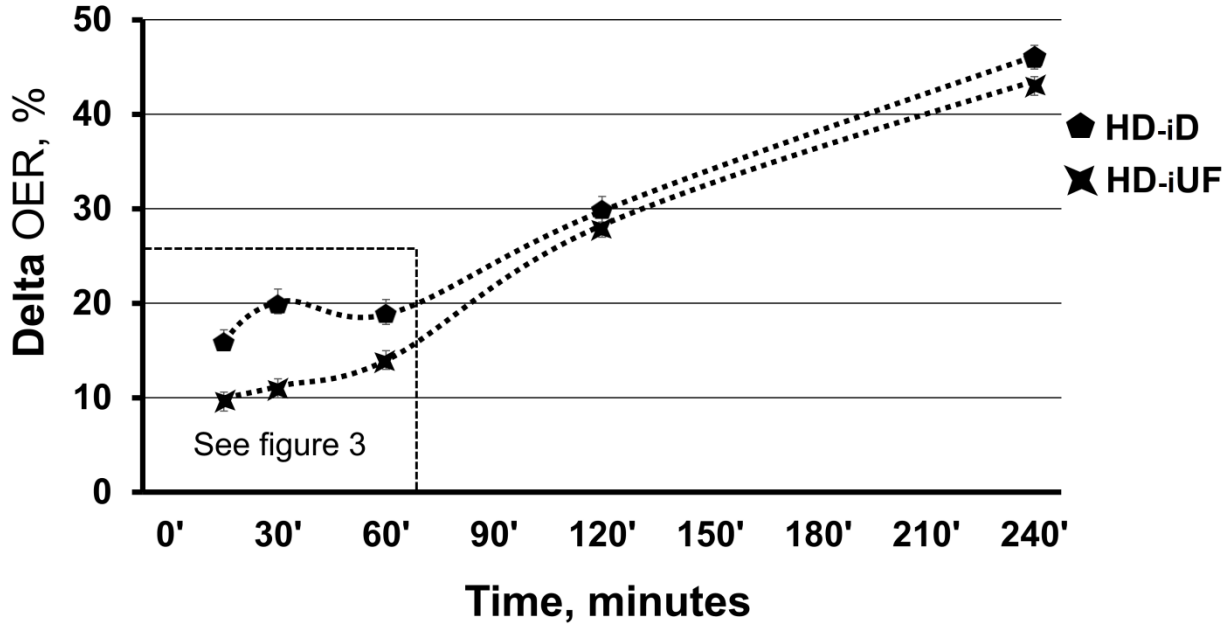
Supplemental table 1. SBP, DBP and SaO_2 (M±SE) during all HD sessions

	Time, min	0’	15’	30’	60’	120’	240’	p
HD-long	S.B.P., mmHg	121±4	122±5	120±3	118±3	115±4	122±5	n.s
	D.B.P., mmHg	65±3	64±2	65±2	65±2	65±2	66±2	n.s
	SaO_2, %	97.3±0.3	97.3±0.4	97.1±0.3	97.3±0.3	97.3±0.3	93.3±0.3	n.s
HD-short	S.B.P., mmHg	119±4	119±4	118±4	118±2	115±3	120±4	n.s
	D.B.P., mmHg	64±2	64±2	65±2	65±2	65±2	67±3	n.s
	SaO_2, %	97.3±0.2	97.2±0.3	97.2±0.3	97.2±0.3	97.6±0.3	97.6±0.3	n.s
HD-iD	S.B.P., mmHg	122±5	121±5	119±4	120±4			n.s
	D.B.P., mmHg	64±2	64±2	65±2	64±3			n.s
	SaO_2, %	97.0±0.2	97.0±0.3	96.6±0.3	97.1±0.3			n.s
HD-iUF	S.B.P., mmHg	121±4	119±4	120±5	116±4			n.s
	D.B.P., mmHg	63±2	64±2	63±2	64±2			n.s
	SaO_2, %	97.4±0.2	97.0±0.4	96.9±0.3	97.1±0.3			n.s

ANOVA; SBP: systolic blood pressure; DBP: diastolic blood pressure; SaO_2: arterial oxygen saturation;



Supplemental Figure 1. Comparison between HDLong and HDShort and between iD and iUF of ScvO2 and BV changes during sessions. a. and b. = ScvO2 and BV changed significantly (Anova, $p<0.001$) during HDLong and HDShort, but without differences between them. c. = ScvO2 dropped significantly during 60' of iD (Anova $p<0.01$) but not during iUF. However, non difference was evident between the two methods; d. = BV changed significantly with both iD (anova, $p<0.01$) and iUF ($p<0.01$), and the drop was significantly greater with iUF after 30' ($p<0.01$) and 60' ($p<0.05$). Bonferroni post-hoc test, iD vs iUF: *$p<0.05$; # $p<0.01$.



Supplemental Figure 2. After 1h of iD and iUF, standard HD treatment was resumed and resulted in a gradual, progressive approaching of the two OER curves, which reached final comparable values (44±2 and 42±2% respectively).