

Supplement Table 1. Motility kinetic values of SU- and DGC-sperm (n=7)

Variable		0 hour	2 hours	4 hours	6 hours
VAP (µm/s)	SU	46.9±4.3	58.5±5.9	56.0±6.1	62.2±6.7
	DGC	55.9±5.9	58.5±5.7	62.9±6.9	67.6±5.0
VSL (µm/s)	SU	38.3±3.5	48.5±5.2	45.4±4.9	50.5±6.0
	DGC	43.9±4.3	47.4±4.7	50.2±5.3	52.6±3.5
VCL (µm/s)	SU	70.9±6.2	84.9±7.8	82.4±7.9	92.4±8.6
	DGC	83.3±7.4	89.6±7.4	96.5±9.5*	104.0±7.2*
ALH (µm)	SU	3.6±0.3	4.2±0.4	4.0±0.4	4.5±0.4
	DGC	4.1±0.5	4.4±0.4	4.8±0.5	5.1±0.5
BCF (Hz)	SU	16.7±1.9	16.8±3.0	16.6±1.8	15.6±2.6
	DGC	13.6±2.6	14.9±2.7	14.3±2.6	15.8±3.6
STR (%)	SU	79.8±2.2	79.1±1.9	79.2±1.5	77.4±2.0
	DGC	76.1±1.4	78.6±1.4	78.2±1.0	75.5±1.8
LIN (%)	SU	52.9±2.4	55.2± 2.2	54.6±2.3	53.1±2.1
	DGC	51.9±1.5	52.9±1.5	52.7±1.2	50.5±1.5

Values are presented as mean±standard error of mean.

SU: swim-up, DGC: density gradient centrifugation, VAP: average path velocity, VSL: straight line velocity, VCL: curvilinear velocity, ALH: amplitude of lateral head displacement, STR: straightness (VSL/VAP), LIN: linearity (VSL/VCL).

*p<0.05 vs. SU.