

Appendix

Table S1. Adhesion Molecules Assays Characteristics.

Protein (units)	ELISA	Minimal detectable level	Inter-assay coefficient of variation (%)
<i>Selectins: leukocytes and platelet adhesion to the endothelium</i>			
L-selectin (ng/mL)	Human soluble L-Selectin/CD62L Immunoassay Kit (R&D Systems, Minneapolis, MN)	0.3 ng/mL	6.7% at a mean concentration of 943 ng/mL for an in-house serum pooled control
P-selectin (ng/mL)	Human soluble P-Selectin/CD62P Immunoassay Kit (R&D Systems, Minneapolis, MN)	0.5 ng/mL	6.7% at a mean concentration of 182.1 ng/mL (Exam 2)
<i>Inter and intra-cellular adhesion proteins</i>			
E-cadherin (ng/mL)	Human E-Cadherin Quantikine ELISA Kit (R&D Systems, Minneapolis, MN)	0.039 ng/mL	7.8% at a mean concentration of 197 ng/mL
ICAM-1 (ng/mL)	Human sICAM-1 Instant ELISA (Bender MedSystems GmbH, Vienna, Austria)	2.17 ng/mL	9.1% at a mean concentration of 261 ng/mL
VCAM-1 (ng/mL)	Human sVCAM-1/CD106 Quantikine ELISA Kit (R&D Systems, Minneapolis, MN)	0.6 ng/mL	3.6% at a mean concentration of 564 ng/mL
<i>Matrix metalloproteinases and protease inhibitors: plaque remodeling, cell mobilization, inflammatory markers cleavage</i>			
MMP-1 (ng/mL)	Human Pro-MMP-1 Quantikine ELISA Kit (R&D Systems, Minneapolis, MN)	0.021 ng/mL	3.5% at a mean concentration of 6.3 ng/mL
MMP-2 (ng/mL)	Total MMP-2 Quantikine ELISA Kit (R&D Systems, Minneapolis, MN)	0.047 ng/mL	3.8% at a mean concentration of 186 ng/mL
SLPI (pg/mL)	Human SLPI Quantikine ELISA Kit (R&D Systems, Minneapolis, MN)	25 pg/mL	8.9% at a mean concentration of 36888 pg/mL
TIMP-2 (ng/mL)	Human TIMP-2 Quantikine ELISA Kit (R&D Systems, Minneapolis, MN)	0.011 ng/mL	4.7% at a mean concentration of 73.3 ng/mL
<i>Chemokines and cytokine receptor: inflammatory cells homing to lymph nodes or inflammation sites</i>			

6Ckine/CCL21 (pg/mL)	Human CCL21/6Ckine Quantikine ELISA (R&D Systems, Minneapolis, MN)	9.9 pg/mL	5.6% at a mean concentration of 493 pg/mL
IL-2sr (ng/mL)	Human IL-2 sR alpha Quantikine ELISA (R&D Systems, Minneapolis, MN)	10 pg/mL	7.7% at a mean concentration of 653 ng/mL
RANTES (pg/mL)	Human CCL5/RANTES Quantikine ELISA Kit (R&D Systems, Minneapolis, MN)	2.0 pg/mL	10.0% at a mean concentration of 63287 pg/mL
SDF-1 α (pg/mL)	Human CXCL12/SDF-1 alpha Quantikine ELISA Kit (R&D Systems, Minneapolis, MN)	18 pg/mL	11.40% at a mean concentration of 2228 pg/mL
<i>Growth factors: cellular growth and proliferation</i>			
HGF (pg/mL)	Human HGF Quantikine ELISA Kit (R&D Systems, Minneapolis, MN)	40 pg/mL	6.2% at a mean concentration of 946 pg/mL (Exam 2)
TGF β -1 (pg/mL)	Human TGF-beta 1 Quantikine ELISA Kit (R&D Systems, Minneapolis, MN)	4.61 pg/mL	9.1% at a mean concentration of 32223 pg/mL

Abbreviations: ICAM-1, intercellular adhesions molecule 1; VCAM-1, vascular cell adhesion molecule 1; MMP-1, matrix metalloproteinase 1; MMP-2, matrix metalloproteinase 2; SLPI, secretory leukocyte protease inhibitor; TIMP-2, tissue inhibitor of metalloproteinases 2; CCL21, chemokine ligand 21; IL-2SR, Interleukin 2 soluble receptor; RANTES, regulated on activation normal T cell expressed and secreted; SDF-1 α , stromal derived factor 1 α ; HGF, hepatocyte growth factor; TGF β -1, transforming growth factor.

Table S2. Unadjusted Mean \pm SD Protein Levels by ABI Category.

	ABI \leq 0.90	0.90 < ABI \leq 1.00	1.00 < ABI \leq 1.40	<i>P</i> Value*
	n = 79	n = 182	n = 2080	
CCL-21, pg/mL	903 \pm 271	901 \pm 303	789 \pm 271	<0.001
E-cadherin, ng/mL	239 \pm 76	238 \pm 82	222 \pm 62	0.001
HGF, pg/mL	1120 \pm 292	1025 \pm 240	973 \pm 250	< 0.001
ICAM-1, ng/mL	267 \pm 94	266 \pm 114	258 \pm 118	0.58
IL-2sr, pg/mL	825 \pm 480	801 \pm 442	707 \pm 328	< 0.001
L-selectin, ng/mL	802 \pm 191	909 \pm 208	895 \pm 194	< 0.001
MMP-1, ng/mL	6.7 \pm 4.7	6.1 \pm 4.6	5.5 \pm 4.2	0.02
MMP-2, ng/mL	203 \pm 30	196 \pm 32	195 \pm 31	0.12
P-selectin, ng/mL	32 \pm 9.6	30 \pm 9.2	29 \pm 9.2	0.002
RANTES, pg/mL	4877 \pm 4783	4958 \pm 5,218	4211 \pm 3892	0.03
SDF-1 α , pg/mL	2023 \pm 536	1964 \pm 455	1,935 \pm 441	0.17
SLPI, pg/mL	52,193 \pm 13,175	48,669 \pm 12,595	45,775 \pm 10,457	< 0.001
TGF β -1, pg/mL	4186 \pm 2286	4290 \pm 2498	3911 \pm 2284	0.07
TIMP-2, ng/mL	83 \pm 12	82 \pm 12	81 \pm 13	0.11
VCAM-1, ng/mL	737 \pm 219	782 \pm 223	728 \pm 222	0.01

**P* Values calculated by ANOVA.

Abbreviations as in Table S1.

Table S3. Cellular Adhesion Protein Correlations (Pearson coefficients).

Protein	MMP-1	P-selectin	TIMP-2	CCL-21	HGF	MMP-2	SLPI	SDF-1α	TGFβ-1	RANTES	VCAM-1	E-cadherin	L-selectin	ICAM-1	IL-2sr
MMP-1	1.00	0.13	-0.05	0.07	0.07	-0.06	0.05	0.00	0.12	0.11	0.01	0.04	-0.04	0.02	0.00
	-	0.00	0.18	0.09	0.08	0.13	0.18	1.00	0.00	0.01	0.89	0.28	0.38	0.66	0.92
P-selectin		1.00	-0.06	0.01	0.22	-0.10	0.11	-0.05	0.06	0.11	0.02	0.09	-0.03	0.16	0.10
		-	0.16	0.78	<0.001	0.02	0.02	0.26	0.12	0.01	0.59	0.02	0.40	<0.001	0.02
TIMP-2			1.00	0.16	0.25	0.76	0.07	0.29	-0.05	-0.03	0.35	0.16	0.08	0.12	0.12
			-	<0.001	<0.001	<0.001	0.08	<0.001	0.19	0.50	<0.001	<0.001	0.05	0.00	0.00
CCL-21				1.00	0.31	0.12	0.30	0.26	0.09	0.06	0.33	0.23	0.09	0.22	0.30
				-	<0.001	0.00	<0.001	<0.001	0.03	0.12	<0.001	<0.001	0.03	<0.001	<0.001
HGF					1.00	0.13	0.23	0.25	0.15	0.16	0.40	0.28	0.10	0.42	0.29
					-	0.00	<0.001	<0.001	0.00	<0.001	<0.001	<0.001	0.02	<0.001	<0.001
MMP-2						1.00	0.06	0.25	-0.06	-0.04	0.27	0.10	0.01	0.06	0.00
						-	0.17	<0.001	0.11	0.39	<0.001	0.01	0.76	0.16	0.92
SLPI							1.00	0.16	0.13	0.17	0.29	0.28	0.03	0.19	0.26
							-	0.00	0.00	<0.001	<0.001	<0.001	0.50	<0.001	<0.001
SDF-1α								1.00	0.04	0.07	0.45	0.04	0.15	0.12	0.23
								-	0.35	0.06	<0.001	0.29	0.00	0.00	<0.001
TGFβ-1									1.00	0.76	0.11	0.11	-0.07	0.06	0.07
									-	<0.001	0.01	0.01	0.09	0.16	0.07
RANTES										1	0.11	0.11	-0.07	0.07	0.09
										-	0.009	0.009	0.09	0.07	0.02
VCAM-1											1	0.43	0.31	0.47	0.50
											-	<0.001	<0.001	<0.001	<0.001
E-cadherin												1	0.04	0.30	0.37
												-	0.33	<0.001	<0.001
L-selectin													1	0.27	0.25
													-	<0.001	<0.001
ICAM-1														1	0.40
														-	<0.001
IL-2sr															1
															-

Figure S1. Subject Selection.

