

Supplementary material

Supplementary Table 1 Cytokine, chemokine and growth factor concentrations (pg/ml) in HIV-uninfected ALRI cases versus controls

Geometric mean plasma cytokine, chemokine and growth factor concentrations (95% CI; pg/ml)			
	Cases	Controls	<i>p</i>-value
	n= 86*	n= 48*	
<i>Cytokines</i>			
G-CSF	522.5 (461.3-591.8)	382.3 (311.6-469.1)	0.004
GM-CSF	0.45 (0.28-0.73)	0.51 (0.26-0.99)	0.761
IFN-α	159.2 (143.6-176.5)	139.8 (123.3-158.5)	0.123
IFN-γ	68.8 (58.3-81.1)	46.4 (32.7-65.8)	0.023
IL-1β	7.00 (4.89-10.01)	9.88 (6.13-15.92)	0.250
IL-1RA	1087.6 (843.0-1403.1)	924.3 (704.2-1213.3)	0.419
IL-2	7.71 (5.89-10.09)	7.12 (5.03-10.07)	0.717
IL-2R	2184.1 (1972.2-2418.8)	2196.4 (1676.8-2877.0)	0.963
IL-4	34.9 (27.7-43.8)	29.6 (21.1-41.6)	0.412

IL-5	11.9 (8.8-16.1)	6.98 (4.37-11.16)	0.032
IL-6	23.9 (17.0-33.7)	14.1 (9.42-21.1)	0.057
IL-7	36.5 (24.3-54.6)	33.4 (24.1-46.3)	0.741
IL-8	31.4 (21.1-46.8)	20.7 (11.8-36.3)	0.223
IL-10	36.1 (26.1-49.9)	27.6 (16.8-45.3)	0.348
IL-12	494.2 (444.2-549.8)	449.2 (396.8-508.6)	0.264
IL-13	90.5 (70.7-115.8)	66.4 (45.4-97.3)	0.159
IL-15	60.0 (39.9-90.1)	68.9 (41.3-114.9)	0.677
IL-17	6.75 (5.68-8.01)	6.53 (5.29-8.07)	0.818
TNF-α	45.1 (38.1-53.3)	32.9 (21.9-49.4)	0.097

Chemokines

Eotaxin	95.1 (83.7-108.0)	92.4 (75.3-113.6)	0.806
IP-10	169.0 (126.9-225.0)	152.5 (118.9-195.6)	0.633
MCP-1	636.7 (520.8-778.3)	422.5 (341.5-522.9)	0.008
MIG	233.2 (174.7-311.3)	281.4 (219.2-361.4)	0.383
MIP-1α	113.2 (100.0-128.2)	104.8 (82.9-132.7)	0.524

MIP-1β	189.1 (165.0-216.7)	153.3 (122.3-192.1)	0.093
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RANTES	6552.6 (5842.2-7349.3)	7161.2 (6158.2-8327.6)	0.353
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Growth Factors

EGF	19.9 (15.1-26.3)	22.9 (15.1-34.7)	0.572
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FGF-basic	10.6 (7.88-14.1)	10.6 (7.2-15.7)	0.988
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HGF	750.4 (624.4-901.8)	842.6 (643.6-1103.0)	0.467
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VEGF	13.2 (9.55-18.2)	10.7 (6.99-16.47)	0.446
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* n for ALRI cases and controls may vary for each cytokine depending on number of samples excluded because they were above %CV.

Supplementary Table 2 Cytokine, chemokine and growth factor concentrations (pg/ml) in HIV-infected versus HIV-uninfected ALRI cases

Geometric Mean plasma cytokine, chemokine and growth factor concentrations (95% CI; pg/ml)			
	HIV-infected ALRI cases	HIV-uninfected ALRI cases	p-value
	n= 15*	n= 86*	
<i>Cytokines</i>			
G-CSF	375.0 (193.3-727.5)	522.5 (461.3-591.8)	0.094
GM-CSF	0.88 (0.17-4.42)	0.45 (0.28-0.73)	0.309
IFN-α	111.6 (79.9-166.0)	159.2 (143.6-176.5)	0.015
IFN-γ	35.2 (18.9-65.57)	68.8 (58.3-81.1)	0.008
IL-1β	9.24 (3.69-23.2)	7.00 (4.89-10.01)	0.550
IL-1RA	1337.7 (724.3-2470.8)	1087.6 (843.0-1403.1)	0.529
IL-2	5.46 (1.80-10.6)	7.71 (5.89-10.1)	0.324
IL-2R	2413.2 (1698.8-3427.9)	2184.1 (1972.2-2418.8)	0.477
IL-4	12.6 (8.52-18.6)	34.9 (27.7-43.8)	0.001
IL-5	3.75 (1.71-7.77)	11.9 (8.84-16.1)	0.004
IL-6	43.1 (17.8-104.6)	23.9 (167.0-33.7)	0.188

IL-7	21.7 (10.5-44.8)	33.4 (24.1-46.3)	0.303
IL-8	37.3 (10.3-1354.0)	31.4 (21.1-46.8)	0.751
IL-10	46.0 (21.4-98.8)	36.1 (26.1-49.9)	0.564
IL-12	468.2 (383.3-571.8)	494.2 (444.2-549.9)	0.687
IL-13	23.3 (13.2-41.0)	90.5 (70.7-115.8)	<0.001
IL-15	119.8 (48.7-294.7)	60.0 (39.9-90.1)	0.187
IL-17	5.59 (4.44-7.05)	6.75 (5.68-8.01)	0.377
TNF-α	19.6 (10.4-37.0)	45.1 (38.1-53.3)	0.001

Chemokines

Eotaxin	97.4 (75.3-126.0)	95.1 (83.7-108.0)	0.882
IP-10	396.2 (268.2-585.1)	169.0 (126.9-225.0)	0.019
MCP-1	867.8 (497.5-1513.7)	636.7 (520.8-778.3)	0.243
MIG	549.4 (354.6-851.3)	233.2 (174.7-311.3)	0.016
MIP-1α	87.1 (66.2-114.7)	113.24 (100.0-128.2)	0.100
MIP-1β	106.9 (76.6-149.1)	189.1 (165.0-216.7)	0.002
RANTES	8598.7 (6826.1-10831.5)	6552.6 (5842.2-7349.3)	0.064

Growth Factors

EGF	13.5 (6.50-28.0)	19.9 (15.1-26.3)	0.282
FGF-basic	6.66 (2.77-16.0)	10.6 (7.88-14.1)	0.240
HGF	519.7 (313.0-862.8)	750.4 (624.4-901.8)	0.128
VEGF	8.01 (3.20-20.1)	13.2 (9.6-18.2)	0.246

* n for HIV-infected and HIV-uninfected ALRI cases may vary for each cytokine depending on number of samples excluded because they were above %CV.