

**Table 2.** Differential cell counts and lymphocyte subpopulations in blood and bronchoalveolar lavage (BAL) fluid in adults (18–64 years).

Non-smokers <i>n</i> = 34	Peripheral blood <sup>†</sup>		Bronchoalveolar lavage		
	# <sup>‡</sup>	%	%	# <sup>§</sup>	
Leucocytes	5.6 (3.9–7.3)		58 (46–69)	9.8 (4.7–18.0)	Recovery Cells/ml
Monocytes	0.4 (0.3–0.8)	7.8 (6.2–12.8)	95 (90–98)	7.5 (4.1–15.9)	Vitality Macrophages
Lymphocytes	1.7 (1.3–2.4)	33.9 (23.3–41.5)	85.4 (65.3–95.4)	0.9 (0.3–3.7)	Lymphocytes
Neutrophils	3.0 (2.0–4.7)	54.6 (46.6–62.9)	1.3 (0.2–4.3)	0.2 (0–0.4)	Neutrophils
Eosinophils	0.14 (0.05–0.29)	2.6 (1.1–4.8)	0.3 (0.1–3.5)	0.03 (0.01–0.33)	Eosinophils
Basophils	0.03 (0.02–0.08)	0.6 (0.3–1.8)	0 (0–0.2)	0 (0–0.03)	Basophils
CD3 <sup>+</sup>	1.3 (0.9–2.0)	76 (69–85)	0	0	Plasma cells
CD4 <sup>+</sup>	0.8 (0.6–1.4)	47 (37–61)	95 (90–98)	0.9 (0.3–3.5)	CD3 <sup>+</sup>
CD8 <sup>+</sup>	0.4 (0.2–0.6)	24 (15–35)	54 (35–79)	0.5 (0.2–1.7)	CD4 <sup>+</sup>
CD4 <sup>+</sup> /CD8 <sup>+</sup>		1.9 (1.2–3.8)	36 (15–57)	0.3 (0.04–1.7)	CD8 <sup>+</sup>
CD19 <sup>+</sup>	0.2 (0.1–0.4)	12 (8–20)	1.5 (0.6–5.5)	0.02 (0.004–0.09)	CD4 <sup>+</sup> /CD8 <sup>+</sup>
CD3 <sup>+</sup> CD16 <sup>+</sup> CD56 <sup>+</sup>	0.2 (0.1–0.4)	10 (4–17)	2 (0.5–3)	0.04 (0.02–0.15)	CD19 <sup>+</sup>
			5 (2–8)	0.04 (0.02–0.15)	CD3 <sup>+</sup> CD16 <sup>+</sup> CD56 <sup>+</sup>
			36 (24–55)	0.35 (0.08–1.77)	CD103 <sup>+</sup>
			0.15 (0.05–0.27)		CD103 <sup>+</sup> CD4 <sup>+</sup> /CD4 <sup>+</sup>
			0.7 (0.3–3.0)		BAL/PB CD4 <sup>+</sup> /CD8 <sup>+</sup>
Smokers <i>n</i> = 21	Peripheral blood <sup>†</sup>		Bronchoalveolar lavage		
	# <sup>‡</sup>	%	%	# <sup>§</sup>	
Leucocytes	7.1 (4.7–9.0)		55 (37–65)	19.7 (8.1–45.5)	Recovery Cells/ml
Monocytes	0.5 (0.5–0.8)	8.3 (6.2–10.1)	95 (87–98)	19.0 (7.3–44.7)	Vitality Macrophages
Lymphocytes	2.0 (1.5–2.8)	30.9 (20.3–45.9)	96.1 (79.0–98.4)	0.5 (0.2–1.7)	Lymphocytes
Neutrophils	4.1 (2.0–5.8)	60.5 (39.2–69.2)	2.3 (0.7–16.5)	0.2 (0–0.7)	Neutrophils
Eosinophils	0.16 (0.08–0.32)	2.3 (1.2–5.3)	0.9 (0.4–3.1)	0.05 (0–0.25)	Eosinophils
Basophils	0.03 (0.02–0.07)	0.4 (0.3–0.9)	0.2 (0–1.3)	0 (0–0.07)	Basophils
CD3 <sup>+</sup>	1.5 (1.2–2.1)	77 (66–83)	0 (0–0.5)	0	Plasma cells
CD4 <sup>+</sup>	1.0 (0.6–1.4)	46 (39–61)	0	0	CD3 <sup>+</sup>
CD8 <sup>+</sup>	0.5 (0.3–0.8)	23 (17–32)	96 (87–99)	0.6 (0.3–1.5)	CD4 <sup>+</sup>
CD4 <sup>+</sup> /CD8 <sup>+</sup>		1.9 (1.4–3.4)	44 (25–58)	0.2 (0.1–0.6)	CD8 <sup>+</sup>
CD19 <sup>+</sup>	0.3 (0.1–0.4)	13 (7–19)	46 (34–70)	0.2 (0.1–0.9)	CD4 <sup>+</sup> /CD8 <sup>+</sup>
CD3 <sup>+</sup> CD16 <sup>+</sup> CD56 <sup>+</sup>	0.2 (0.1–0.4)	8 (4–14)	0.9 (0.4–1.5)	0.005 (0–0.05)	CD19 <sup>+</sup>
			1 (0.1–2)	0.02 (0.01–0.11)	CD3 <sup>+</sup> CD16 <sup>+</sup> CD56 <sup>+</sup>
			5 (1–12)	0.19 (0.04–0.70)	CD103 <sup>+</sup>
			41 (30–68)		CD103 <sup>+</sup> CD4 <sup>+</sup> /CD4 <sup>+</sup>
			0.19 (0.07–0.41)		BAL/PB CD4 <sup>+</sup> /CD8 <sup>+</sup>
			0.4 (0.1–1.3)		

Differential cell counts and lymphocyte subpopulations, and established reference intervals in BAL fluid fraction II. Values are expressed as median (10th–90th percentiles). <sup>†</sup>Reference intervals in peripheral blood did not differ significantly from the established reference intervals used in our hospital [27]; <sup>‡</sup> $\times 10^6$  cells/ml. <sup>§</sup> $\times 10^4$  cells/ml.