

Supplementary article data

Cobalt ions induce chemokine secretion in a variety of systemic cell lines

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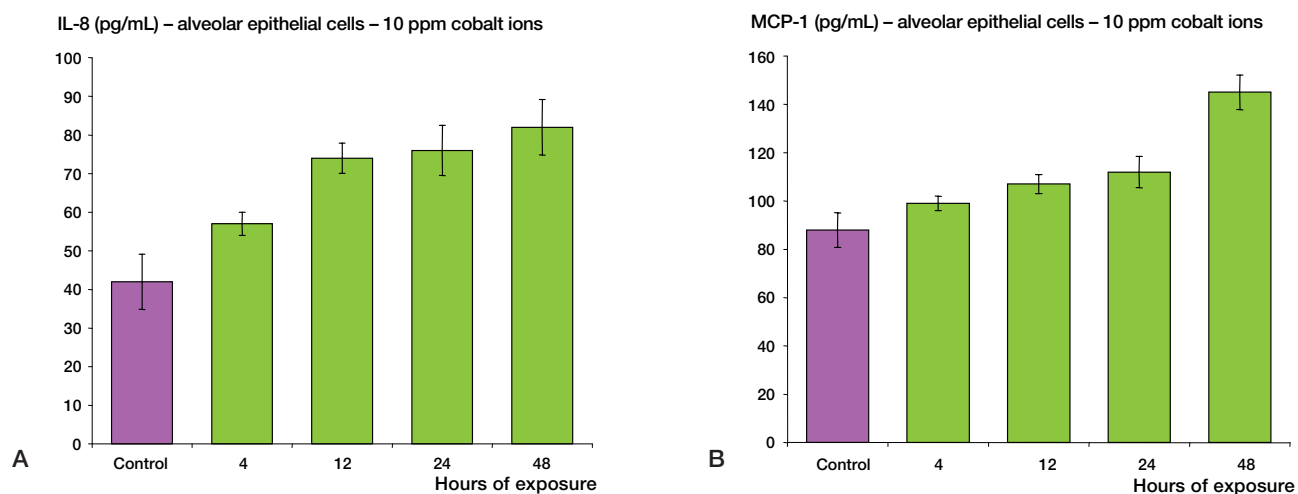


Figure 5. Cobalt ions (10ppm) have no effect on the secretion of IL-8 and MCP-1 chemokines in human alveolar cells. Alveolar epithelial cells were treated with 10 ppm cobalt ions for 4, 12, 24 and 48h along with a negative control. A: No significant was observed increase in the secretion of IL-8 protein post exposure at 12, 24 and 48h relative to the control sample ($p > 0.05$). B: No significant increase was observed in the secretion of MCP-1 protein at 12, 24 and 48h compared to negative control ($p > 0.05$).

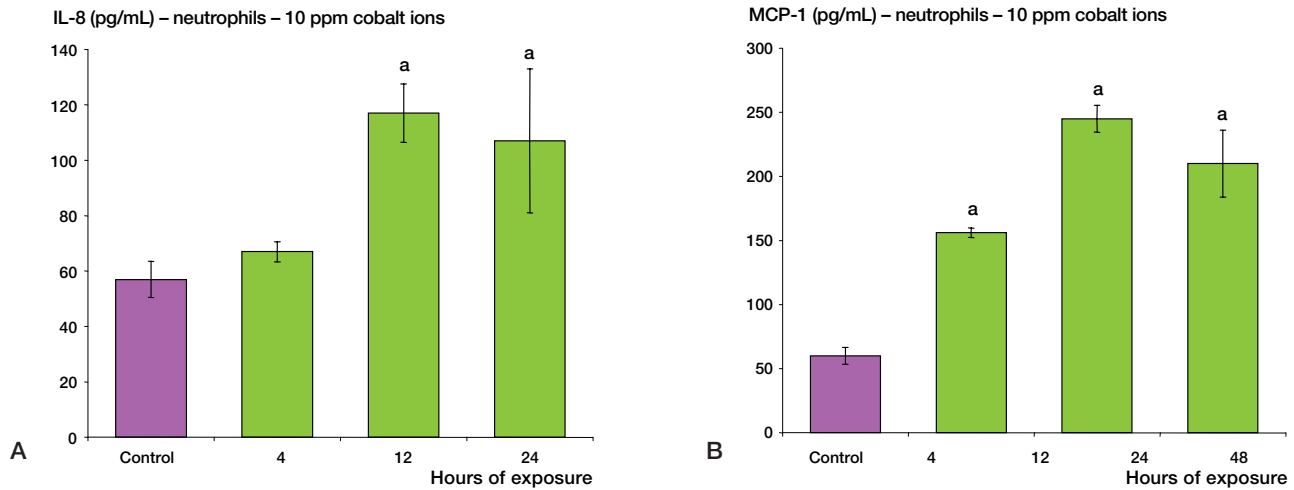


Figure 6. Cobalt ions (10ppm) induce enhanced secretion of IL-8 and MCP-1 chemokines in human neutrophils. Neutrophils were treated with 10 ppm cobalt ions for 4, 12 and 24h along with a negative control. A: There is a significant increase in the secretion of IL-8 protein post exposure at 12 and 24h relative to the control sample (a = p<0.001). B: There is also a significant increase in the secretion of MCP-1 protein at 12, and 24h compared to negative control (a = p<0.001).

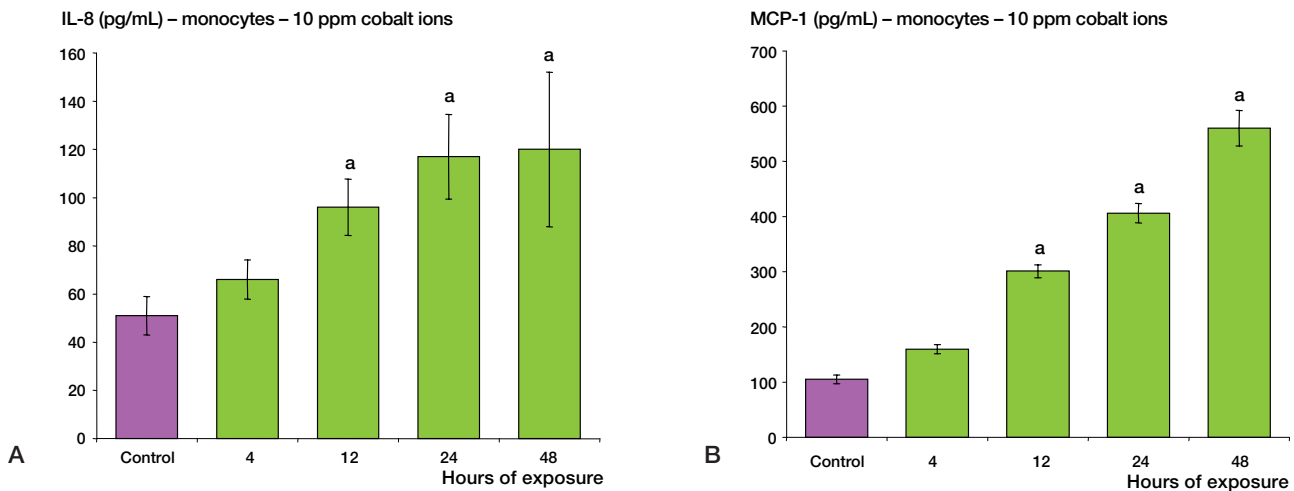


Figure 7. Cobalt ions (10ppm) induce enhanced secretion of IL-8 and MCP-1 chemokines in human monocytes. Neutrophils were treated with 10 ppm cobalt ions for 4, 12, 24 and 48h along with a negative control. A: There is a significant increase in the secretion of IL-8 protein post exposure at 12, 24 and 48h relative to the control sample (a = p<0.001). B: There is also a significant increase in the secretion of MCP-1 protein at 12, 24 and 48h compared to negative control (a = p<0.001).