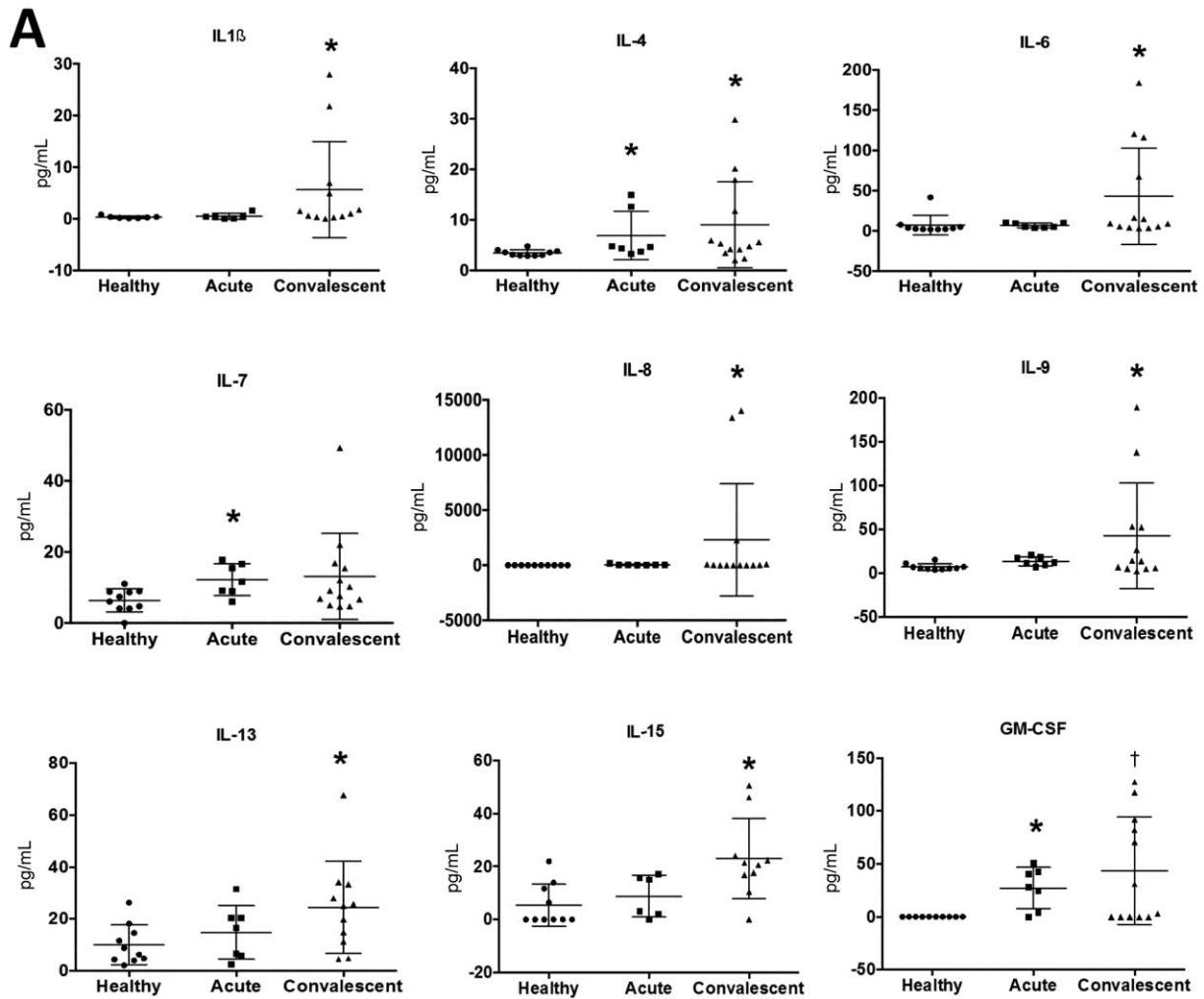
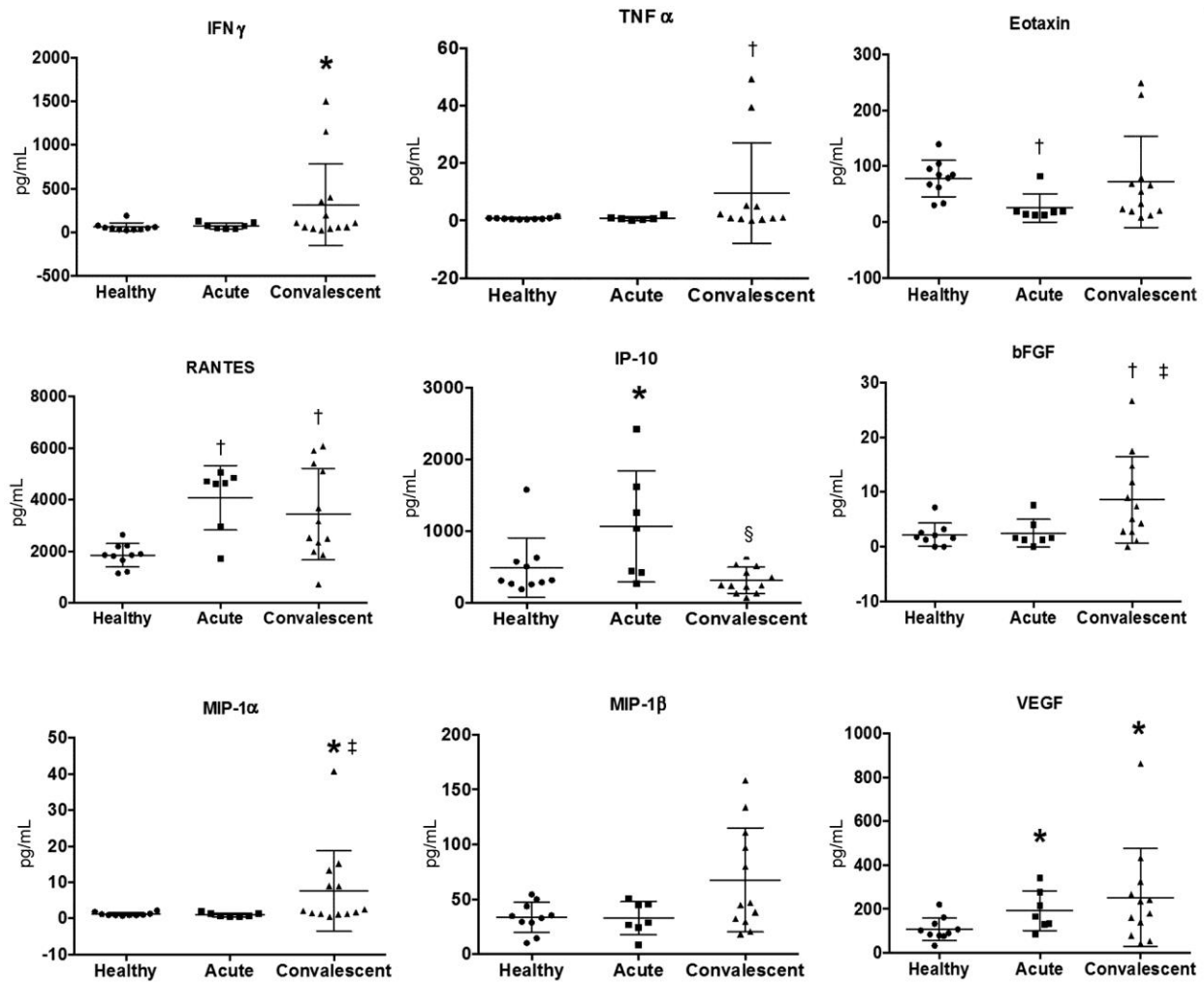


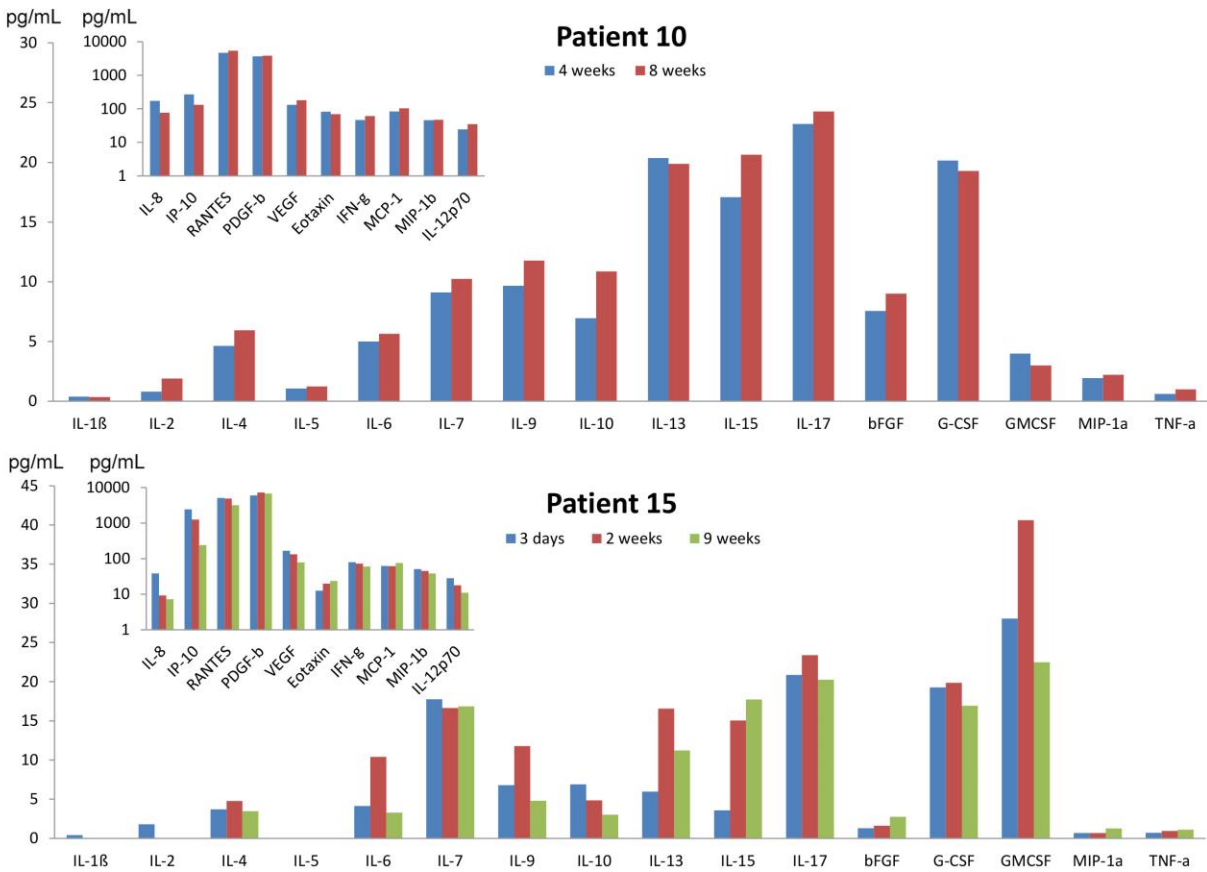
Increased Proinflammatory Cytokine Levels in Prolonged Arthralgia in Ross River Virus Infection

Technical Appendix



B

Technical Appendix Figure 1. Changes in cytokine, chemokine, and growth factor levels in the acute and prolonged arthralgia (convalescent) phase of Ross River virus infection. A) Serum levels of IL-4, IL-7 and GM-CSF were elevated during the acute phase of the infection, whereas IL-1 β , IL-4, IL-6, IL-8, IL-9, IL-13, IL-15, and GM-CSF demonstrated notable increases during the prolonged arthralgic convalescent phase when compared with healthy controls. B) Increased serum concentrations of RANTES, IP-10, and VEGF during the acute phase, with decreased eotaxin levels at that time. Concentrations of IFN- γ , TNF- α , RANTES, bFGF, MIP1 α (but not MIP1 β), and VEGF were elevated in the arthralgic convalescent phase when compared with healthy controls. IP-10, bFGF, and MIP1 α concentrations also showed changes in the convalescent phase when compared with the acute phase. * $p < 0.05$, † $p < 0.01$, acute-phase or convalescent-phase serum versus healthy controls; ‡ $p < 0.05$, § $p < 0.01$ convalescent-phase versus acute-phase serum (by Kruskal-Wallis test). bFGF, basic fibroblast growth factor; IFN, interferon; IP, interferon- γ -induced protein; MIP, macrophage inflammatory protein; RANTES, regulated on activation, normal T cell expressed and secreted; TNF, tumor necrosis factor; VEGF, vascular endothelial growth factor.



Technical Appendix Figure 2. Serum cytokine, chemokine, and growth factor level changes in 2 individual patients over time. In the 2 patients depicted, several parameters were lower in the convalescent phase than in the acute phase.