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Supplemental Material Figure Legends

Figure S1: EBV-positive diffuse large B-cell lymphoma in APDS. A diffuse infiltrate of large atypical lymphoid cells and some atypical plasmacytoid cells was present in the cerebellum (1). Immunohistochemical staining showed large B-cells expressing CD20 (2), CD79a, Pax5, and IRF4 but not Bcl6 or CD10. Most neoplastic cells showed positive *in situ* hybridization for EBV EBER (3). Plasmacytoid cells expressed CD138 and showed lambda restricted immunoglobulin light chain *in situ* hybridization (4).

Figure S2: Primary cutaneous anaplastic large cell lymphoma in APDS. A multinodular cutaneous tumour on the chest of an 11 year old boy (1) which regressed to a flat plaque (2) upon 6 weeks treatment with rapamycin. The dermis and subcutis contained a diffuse infiltrate of large atypical lymphoid cells (3,4). Immunohistochemical staining showed large T-cells expressing CD3 (5), CD30 (6), CD2, IRF4, TCR beta and perforin but not CD4, CD8 or ALK.