**Supplemental Table. Examples of therapies used for HLH and MAS.**

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| **Target** | **Therapeutic Mechanism** | **Example** |
| Lymphocyte/macrophage  | cytotoxicity | Etoposide, alemtuzumab |
| Corticosteroids | Numerous immunosuppressive | Dexamethasone |
| T cell inhibition | Cytokine inhibition | Cyclosporine, tacrolimus |
| IL-1 | IL-1 receptor antagonist | Anakinra, canakinumab |
| IL-6 | Sink for IL-6 | Siltuximab |
| IL-6R | IL-6 receptor antagonist | Tocilizumab |
| CD28 | CTLA4-Ig | Abatacept, belatacept |
| JAK1/2/3 | JAK inhibitor | Tofacitinib, baricitinib, ruxolitinib |