Severe Combined Immunodeficiency Panel

|  |  |  |
| --- | --- | --- |
| Marker/Age | % of lymphocytes | Absolute count (cells/cmm) |
| CD3 |  |  |
| 0 – 1 month | 53-84 | 1219-9072 |
| 1 – 3 months | 53-84 | 1378-11172 |
| 3 – 6 months | 51-77 | 1428-9933 |
| 6 months-1year | 49-76 | 1372-9804 |
| 1-2 years | 53-75 | 848-6450 |
| 2-6 years | 56-75 | 896-6450 |
| 6-12 years | 60-76 | 660-4636 |
| 12-18 years | 56-84 | 616-5124 |
| >18 years | 61-79 | 732-3160 |
|  |  |  |
| CD4 |  |  |
| 0 – 1 month | 35-64 | 805-6912 |
| 1 – 3 months | 35-64 | 910-8512 |
| 3 – 6 months | 35-56 | 980-7224 |
| 6 months-1year | 31-56 | 868-7224 |
| 1-2 years | 32-51 | 512-4386 |
| 2-6 years | 28-47 | 448-4042 |
| 6-12 years | 31-47 | 341-2867 |
| 12-18 years | 31-52 | 341-3172 |
| >18 years | 38-54 | 456-2160 |
|  |  |  |
| CD8 |  |  |
| 0 – 1 month | 12-28 | 276-3024 |
| 1 – 3 months | 12-28 | 312-3724 |
| 3 – 6 months | 12-23 | 336-2967 |
| 6 months-1year | 12-24 | 336-3096 |
| 1-2 years | 14-30 | 224-2580 |
| 2-6 years | 16-30 | 256-2580 |
| 6-12 years | 18-35 | 198-2135 |
| 12-18 years | 18-35 | 198-2135 |
| >18 years | 14-28 | 168-1120 |
| CD16,56 |  |  |
| 0 – 1 month | 4-18 | 92-1944 |
| 1 – 3 months | 4-18 | 104-2394 |
| 3 – 6 months | 3-14 | 84-1806 |
| 6 months-1year | 3-15 | 84-1935 |
| 1-2 years | 3-15 | 48-1290 |
| 2-6 years | 4-17 | 64-1462 |
| 6-12 years | 4-17 | 44-1037 |
| 12-18 years | 3-22 | 33-1342 |
| >18 years | 7-24 | 84-960 |
|  |  |  |
| CD19 |  |  |
| 0 – 1 month | 6-32 | 138-3456 |
| 1 – 3 months | 6-32 | 156-4256 |
| 3 – 6 months | 11-41 | 308-5289 |
| 6 months-1year | 14-37 | 392-4773 |
| 1-2 years | 16-35 | 256-3010 |
| 2-6 years | 14-33 | 224-2838 |
| 6-12 years | 13-27 | 143-1647 |
| 12-18 years | 6-23 | 66-1403 |
| >18 years | 7-20 | 84-800 |
|  |  |  |
| CD4:CD8 Ratio |  |
| 0-6 months | 0.9-3.5 |
| 6 months-1 year | 0.8-3.4 |
| 1-2 years | 0.6-3.4 |
| 2-6 years | 0.7-2.1 |
| >6 years | 1.2-2.6 |
|  |  |
| CD3+4+45RA+ |  |  |
| 0 – 1 month | 64-95 | 515-6566 |
| 1 – 3 months | 64-95 | 582-8086 |
| 3 – 6 months | 77-94 | 755-6791 |
| 6 months-1year | 64-93 | 556-6718 |
| 1-2 years | 63-91 | 323-3991 |
| 2-6 years | 53-86 | 237-3476 |
| 6-12 years | 46-77 | 157-2208 |
| 12-18 years | 33-66 | 113-2094 |
| >18 years | 31-76 | 141-1642 |
|  |  |  |
| CD3+8+45RA+ |  |  |
| 0 – 1 month | 80-99 | 221-2994 |
| 1 – 3 months | 80-99 | 250-3687 |
| 3 – 6 months | 85-98 | 286-2908 |
| 6 months-1year | 75-97 | 252-3003 |
| 1-2 years | 71-98 | 159-2528 |
| 2-6 years | 69-97 | 177-2503 |
| 6-12 years | 63-92 | 125-1964 |
| 12-18 years | 61-91 | 121-1943 |
| >18 years | 28-74 | 47-829 |

Pediatric Reference Ranges from Journal of Allergy and Clinical Immunology, vol. 112, No. 5, 11/2003 and studies performed at Michigan Medicine Flow Cytometry Laboratory. Absolute ranges are calculated utilizing absolute lymphocyte count ranges for the same age groups provided by the hematology laboratory