### Multiple Donor Chimerism (with previous HSCT)

A recipient had an HSCT for high risk AML using an allogeneic marrow (Donor X) graft source. Six months later, the recipient had relapsed AML. The chimerism results on the marrow sample at the time of relapse revealed 5% donor and 95% host. The recipient was transplanted using PBSC product from a different donor (Donor Y). The Day 100 chimerism results following the 2nd HSCT using a PBSC sample revealed the presence of both donors (3% Donor X from the previous HSCT, 95% Donor Y from the current HSCT, and 2% Host). The sum of each donor plus the host should equal 100%.

The above multiple donor chimerism study illustrates how to report this situation, even though the current HSCT only had one donor.