**Supplementary Figure Legends**

**S.Fig. 1:** Forest plots of subgroup analysis based CTX dose. **A**: Total CD34+ cells collection. **B**: CD34+ cells amount collected on the first day. **C**: Rate of collection ⩾ 4x106/kg CD34+ cells. **D**: Rate of collection ⩾ 2x106/kg CD34+ cells. **E**: Fever rate during mobilization.

**S.Fig. 2:** Forest plots of non-survival data. **A**: Response to CR after ASCT. **B**: Response to VGPR after ASCT. **C**: Days of neutrophil recovery to 0.5x109/L after ASCT. **D**: Days of platelet recovery to 20x109/L after ASCT. **E**: Treat-related mortality. **F**: Units of red blood cells infusion needed during ASCT. **G**: Days in hospital during ASCT. **H**: Rate of fever during ASCT. **I**: Rate of pneumonitis during ASCT. **J**: Lymphocytes recovery at day 15 after ASCT (109/L).

**S.Fig. 3:** Forest plots of survival data. **A**: Event-free survival (EFS) with multivariate data. **B**: Overall survival (OS) with multivariate data. **C**: Progression-free survival (EFS) with multivariate data. **D**: Median OS time. **E**: Median EFS time. **F**: Median PFS time. **G**: 1-year OS. **H**: 3-year OS. **I**: 5-year OS. **J**: 1-year PFS. **K**: 3-year PFS. **L**: 5-year PFS. **M**: 1-year EFS. **N**: 5-year EFS.

**S.Fig. 4:** Forest plots of the recalculated pooled effects with one study omitted each time for non-survival data. **A**:Total CD34+ cells collection. **B**: CD34+ cells collection on the first day. **C**: Rate of collection ⩾ 4x106/kg CD34+ cells. **D**: Rate of collection ⩾ 2x106/kg CD34+ cells. **E**: Apheresis times during mobilization. **F**: Admission rate during mobilization. **G**: Fever rate during mobilization. **H**: Response to VGPR or better after ASCT. **I**: Response to CR after ASCT. **J**: Response to VGPR after ASCT. **K**: Days of neutrophil recovery to 0.5x109/L after ASCT. **L**: Days of platelet recovery to 20x109/L after ASCT. **M**: Lymphocytes recovery at day 15 after ASCT (109/L). **N**: Units of platelet infusion needed during ASCT. **O**: Treat-related mortality. **P**: Units of red blood cells infusion needed during ASCT. **Q**: Days in hospital during ASCT. **R**: Rate of fever during ASCT. **S**: Rate of pneumonitis during ASCT.

**S.Fig. 5:** Forest plots of the recalculated pooled effects with one study omitted each time for survival data. **A**:Overall survival (OS) with univariate data. **B**: OS with multivariate data. **C**: Event-free survival (EFS) with univariate data. **D**: EFS with multivariate data. **E**: Progression-free survival (PFS) with univariate data. **F**: PFS with multivariate data. **G**: Median OS times. **H**: Median EFS times. **I**: Median PFS times. **J**: 1-year OS. **K**: 3-year OS. **L**: 5-year OS. **M**: 1-year PFS. **N**: 3-year PFS. **O**: 5-year PFS. **P**: 1-year EFS. **Q**: 3-year EFS. **R**: 5-year EFS.

**S.Fig. 6:** Funnel plots for publication bias. **A**:Total CD34+ cells collection. **B**: Rate of collection ⩾ 4x106/kg CD34+ cells.