Engraftment kinetics and graft failure after single umbilical cord blood transplantation using myeloablative conditioning regimen

Myeloablative conditioning

Single umbilical cord blood transplantation

Day 0

Acute leukemia patient (n=1268)

Probability of neutrophil engraftment

Day 10

Day 21 peak engraftment

Day 31 21% engraftment

Day 42 5% engraftment

Subsequent transplantation (autologous rescue, related or unrelated donor, UCB or Haplo) should not be postponed after day 42

Graft failure patient

Ruggeri et al., Haematologica, 2014