

### **Appendix 1 Chemotherapy regimens and pretreatment**

Two recently reported children with STCLC started with fever combined with gastrointestinal perforation and fever alone, respectively, received chemotherapy (GEPD + DDGP×2 + SMILE; SMILE×2) before transplantation and achieved partial remission after 3 and 4 months, respectively. After partial remission, the patient was pretreated (Flu + Bu/Cy + Vp16) and finally underwent allogeneic hematopoietic stem cell transplantation, and has been followed up for 11 and 22 months, respectively, and has survived without relapse.

GEPD chemotherapy regimen includes gemcitabine, etoposide, pembrolase and dexamethasone; DDGP chemotherapy regimen includes pemetase, gemcitabine, cisplatin and dexamethasone; SMILE chemotherapy regimen includes methotrexate, isocyclophosphamide, dexamethasone, etoposide and mentholase; STCLC, systemic EBV-positive T-cell lymphoma of childhood; EBV, Epstein-Barr virus.