

# Review of: "Decontamination of Two Umbilical Cord Blood Grafts Prior to Autologous Administration"

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**Potential competing interests:** No potential competing interests to declare.

Umbilical cord blood is a valuable resource for obtaining stem cells and immune cells. At present, it is used in leukemia and graft versus host diseases. However, a certain proportion of umbilical cord blood will be polluted during collection and cryopreservation procedures. Therefore, decontamination of umbilical cord blood is needed when autologous transplantation is carried out. Here, the authors prove that 1-2 hours of antibiotic treatment of thawed umbilical cord blood may be an effective method for bacterial purification without affecting stem cells viability in umbilical cord blood. However, there are some concerns in this paper. In the part of materials and methods, flow cytometry, reagents, and stem cell expansion are not described in detail. The methods of data collection, analysis and statistics are not mentioned. Figures 1 and 2 are not showed in the text, and pictures lack bar charts. Figure 3 is not appropriate in discussion part. The affiliation, materials and methods, main texts and references are not formal. In general, the data in this paper derived from two cases that may not draw reliable conclusions.