

METHODS FOR COLLECTING AND USING PLACENTA CORD BLOOD STEM

CELLS

An innovative method of collecting cord blood stem cells from an isolated mammalian non-exsanguinated or partially exsanguinated placenta by placental perfusion is described. Placental perfusion can include perfusing the isolated placenta with a pulsatile flow of perfusion solution, for example, using a pulsatile or peristaltic pump or device. The stem cells can then be isolated from the perfusate. The perfusion solution can include an anticoagulant. The isolated mammalian placenta need not be treated with an anticoagulant prior to perfusing. The isolated placenta can be free from an anticoagulant prior to perfusing.

Figure 1