

# Parallel loop binding compression suture, a modified procedure for pernicious placenta previa complicated with placenta increta: a retrospective study. (with video)

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## Abstract

**Abstract Objective.** To evaluate the efficacy and safety of parallel loop binding suture of the lower uterus during cesarean section in pernicious placenta previa complicated with placenta increta. **Design.** A retrospective study **Setting.** Qilu Hospital of Shandong University **Population.** Patients with pernicious placenta previa between November 2014 and December 2020 at the Qilu Hospital of Shandong University were eligible. **Methods.** The degree of placental invasion was evaluated using preoperative color Doppler ultrasonography and/or magnetic resonance imaging (MRI). **Main outcome measures.** Postpartum hemorrhage was evaluated as the primary outcome. Additionally, neonatal outcomes were evaluated. **Results.** Of the 38 patients, only 3 (7.89%) underwent hysterectomy due to massive blood loss. With parallel loop binding compression suture, the volume of blood lost ranged from 500 - 6000 (mean:  $2152.63 \pm 1169.37$ ) mL and the volume of blood transfused was between 400 - 3200 ( $1431.58 \pm 699.85$ ) mL. The mean gestational age was 36 weeks and 2 days (range: 32+6 to 39+6 weeks). The average operation time was  $109.78 \pm 33.49$  min, and the average fetal childbirth time was  $14.05 \pm 5.60$  min. The rate of NICU admission was 36.84% (14/38). The postoperative menstrual cycle and menstrual flow both returned to normal levels. All infants at our hospital were safely discharged after treatment. **Conclusion.** Parallel loop binding compression suture is an effective, swift, practical, and safe method to reduce postpartum bleeding in women with pernicious placenta previa, complicated with placenta increta.

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