Table D-30. Evidence table for studies addressing management of PPH (Gronvall 2012)

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| --- | --- | --- | --- |
| **Study**  **Description** | **Intervention** | **Inclusion/Exclusion**  **Criteria & Population** | **Outcomes** |
| **Author:**  Gronvall et al.,  201235  **Country:**  Finland  **Enrollment period:**  Oct 2008 to  June 2011  **Birth setting:**  Hospital  **Facility characteristics:**  Tertiary care  **Funding:**  Helsinki University Hospital research grants  **Design:**  Case series, retrospective | **Intervention:**  Bakri balloon tamponade (BBT)  **Groups:**  **G1:** intervention  **N at enrollment:**  **G1:** 50  **N at follow-up:**  **G1:** 50  **Duration of treatment:** NR  **Timing of treatment:** NR  **Order of treatment:** NR  **Length of follow-up:** NR | **Operational definition of PPH:**  Massive PPH (blood loss > 1000 mL)  Expected high risk of PPH (blood loss < 1000 mL)  **Definition of success of treatment**: Hemostasis achieved after balloon placement  **Method of blood loss measurement:** NR  **Severity:** NR  **Inclusion criteria:**  Women who delivered at Helsinki University hospital during study period and who had tamponade after delivery  **Exclusion criteria:** NR  **Maternal age, yrs, mean:**  **G1:** 31.3 (range 19-47)  **Parity, n:**  0  **G1:** 30  1-2  **G1:** 16  ≥ 3  **G1:** 4  **Weeks gestation, mean (range):**  **G1:** 38+6 range (31+6 to 42+2)  **Single pregnancy, n (%):** NR  **Multiple pregnancy, n (%):** NR  **Race/ethnicity:** NR  **BMI:** NR  **Baseline hemoglobin:** NR  **SES:** NR  **Mode of birth, n:**  Vaginal  **G1:** 29 (11 spontaneous, 10 induced, 8 vacuum extraction)  Cesarean, elective  **G1:** 9  Cesarean, emergency  **G1:** 9  Cesarean, crash  **G1:** 3  **Risk factors, n:**  History of cesarean  **G1:** 30  **Primary etiology of PPH, n:**  Atony  **G1:** 8  Cervical rupture  **G1:** 7  Vaginal rupture a/o paravaginal hematoma  **G1:** 11  Placenta previa  **G1:** 9  Placeta retention  **G1:** 15 (5 had placenta accrete) | **Blood loss, before insertion of balloon, n**  < 1000 mL  **G1:** 6  1000-2500 mL  **G1:** 18  2500-5000 mL  **G1:** 16  5000-10,000 mL  **G1:** 6  > 10,000 mL  **G1:** 4  **Transfusion:** NR  **ICU admission:** NR  **Anemia:** NR  **Length of stay:** NR  **Mortality:** NR  **Uterine preservation, n:**  Bilateral uterine artery embolization  **G1:** 3  Hysterectomy after AE  **G1:** 1  Hysterectomy after tamponade failure  **G1:** 2  Supravaginal uterine amputation  **G1:** 3  **Future fertility:** NR  **Breastfeeding:** NR  **Psychological impact:** NR  **Harms of intervention (complications), n:** Groin hematoma after embolization  **G1:** 1  Wound infection after cesarean, mild  **G1:** 2  Wound infection after episiotomy, mild  **G1:** 1  Readmission for placental retention  **G1:** 2  **Confounders:** NR  **Effect modifiers:** NR |

**Comments:** Authors state complications not due to tamponade