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:** 301-2**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:** 9Cesarean, emergency**G1:** 9Cesarean, crash**G1:** 3**Risk factors, n:** History of cesarean**G1:** 30**Primary etiology of PPH, n:** Atony**G1:** 8Cervical rupture**G1:** 7Vaginal rupture a/o paravaginal hematoma**G1:** 11Placenta previa**G1:** 9Placeta retention**G1:** 15 (5 had placenta accrete) | **Blood loss, before insertion of balloon, n**< 1000 mL**G1:** 61000-2500 mL**G1:** 182500-5000 mL**G1:** 165000-10,000 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:** 3Hysterectomy after AE**G1:** 1Hysterectomy after tamponade failure**G1:** 2Supravaginal uterine amputation**G1:** 3**Future fertility:** NR **Breastfeeding:** NR**Psychological impact:** NR**Harms of intervention (complications), n:**Groin hematoma after embolization**G1:** 1Wound infection after cesarean, mild**G1:** 2Wound infection after episiotomy, mild**G1:** 1Readmission for placental retention**G1:** 2**Confounders:** NR**Effect modifiers:** NR |

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