**Table D-72. Evidence table for studies addressing management of PPH (Ledee 2001)**

| **Study** **Description** | **Intervention** | **Inclusion/Exclusion** **Criteria & Population** | **Outcomes** |
| --- | --- | --- | --- |
| Author:Ledee et al., 200173Country:FranceEnrollment period: 1983 to 1998Birth setting: HospitalFacility characteristics: Tertiary care university hospital Funding:Agency/NRDesign: Retrospective cohort study | **Intervention:** Hospitalization in ICU for intractable PPHInitial treatment: simple bimanual compression, oxytocin followed by prostaglandin (PGE2) IV and maternal resuscitation.Follow-up treatments: embolizing the selective pelvic vessels or ligating the hypogastric arteries **Groups (based on primary second-line attempt to arrest hemorrhage):****G1:** Bilateral hypogastric artery ligation**G2:** Embolization**G3:** HysterectomyN at enrollment: **G1:** 48**G2:** 8**G3:** 5Duration of treatment: NRTiming of treatment: Initial treatment: simple bimanual compression, oxytocin followed by prostaglandin (PGE2) IV and maternal resuscitation.Follow-up treatments: embolizing the selective pelvic vessels or ligating the hypogastric arteries Order of treatment: G1: 4 women required hysterectomy post-ligationG2: 1 women required methotrexate, 1 required ligation, 1 required hysterectomy post-embolizationG3: 1 required embolizationLength of follow-up: NR | **Operational definition of PPH:** Intractable PPH: cases that did not respond to usual treatment within 60 minutes or worsening of maternal condition**Definition of success of treatment:** NR**Method of blood loss measurement:** Estimated by volume of blood transfused**Severity:** Intractable PPHInclusion criteria: * Patients hospitalized for intractable PPH between 1983 and 1998

Exclusion criteria: NR**Maternal age:** NR**Parity:** NR **Weeks gestation:** NR**Single pregnancy:** NR**Multiple pregnancy:** NR**Race/ethnicity:** NR**BMI:** NR**Baseline hemoglobin:** NR**SES:** NR**Mode of birth, n (%):** Cesarean**G1+ G2:** 41/56 (73)Vaginal**G1+G2:** 15/56 (27)**Risk factors:** NR**Primary etiology of PPH, n (%):** Group 1 Received < 4 units RBCs n=22Atony: 8/22Group 2 Received 4-7 units RBCs n=16Atony: 8/16Group 3 Received 8-20 units RBCs n=13Atony: 5/13Group 4 Received > 20 units RBCs n=10Atony: 8/22 | **Blood loss:** NR**Transfusion, n:** Received < 4 units RBCs**G1:** 21**G2:** 1**G3:** 0Received 4-7 units**G1:** 10**G2:** 5**G3:** 1 Received 8-20 units**G1:** 11**G2:** 1**G3:** 1 Received > 20 units**G1:** 6**G2:** 1**G3:** 3**ICU admission:** NR**Anemia:** NR**Length of stay:** NR**Mortality:** Maternal deaths, total**G1+G2+G3:** 7Maternal deaths post hysterectomy**G3:** 5Uterine preservation**G1+G2+G3:** 10 total hysterectomiesFuture fertility: **G1:** 7 pregnancies among 10 women desiring pregnancy 1-4 years post-ligation**G2:** 1 pregnancy 1 year post-embolization (number desiring pregnancy NR)**Breastfeeding:** NR**Psychological impact:** NR**Harms of intervention:** NR**Confounders:** NR**Effect modifiers:** NR |

**Comments:** Details for each maternal death (n=7) reported separately in the text.