Table D-36. Evidence table for studies addressing management of PPH (Kayem 2011a)

| **Study**  **Description** | **Intervention** | **Inclusion/Exclusion**  **Criteria & Population** | **Outcomes** |
| --- | --- | --- | --- |
| Author:  Kayem et al.,  201140  Country: UK  Enrollment period: September 2007 to March 2009  Birth setting:  Consultant-led maternity units  Facility characteristics:  NR  Funding:  Wellbeing of Women.  AXA Research Fund.  National Coordinating Centre for Research Capacity Development of the National Institute for Health  Research.  Policy Research Programme  in the Department of Health part funded UKOSS (Independent study from which this paper reports)  Design:  Prospective cohort study  Note: See related study, Kayem 201141 | **Intervention:**  Uterine compression sutures  Pelvic vessel ligation  Interventional radiological techniques Recombinant factor VIIa (rFVIIa)  **Groups:**  **G1:** Uterine compression sutures  **G2:** Pelvic vessel ligation  **G3:** Interventional radiological techniques  **G4:** Recombinant factor VIIa (rFVIIa)  **N at enrollment:**  **G1:** 199  **G2:** 20  **G3:** 22  **G4:** 31  N at follow-up: NR  Duration of treatment: NR  Timing of treatment : NR  Order of treatment: NR  Length of follow-up: NR  Primary treatment of women managed with different second-line therapies, n (%):  Uterotonic prophylaxis  G1: 195 (98)  G2: 20 (100)  G3: 22 (100)  G4: 30 (97)  Primary uterotonic treatments:  Oxytocin  G1: 195 (98)  G2: 16 (80)  G3: 18 (82)  G4: 28 (90)  Ergometrine  G1: 106 (53)  G2: 6 (30)  G3: 6 (27)  G4: 11 (35)  Misoprostol  G1: 127 (64)  G2: 8 (40)  G3: 9 (41)  G4: 18 (58)  Carboprost  G1: 142 (71)  G2: 12 (60)  G3: 11 (50)  G4: 17 (55)  Uterine balloon or packing  before second-line therapy  procedure  G1: 38 (19)  G2: 6 (30)  G3: 8 (36)  G4: 15 (48) | **Operational definition of PPH:** NR  **Definition of success of treatment**:  No requirement for either a further therapy to  treat PPH or hysterectomy  **Method of blood loss measurement:** NR  **Severity:** NR  Inclusion criteria:   * Woman giving birth and undergoing treatment   for PPH with the following procedures: uterine compression sutures, rFVIIa, interventional  radiology including intra-arterial balloon occlusion  and arterial embolization or pelvic vessel ligation during the study period.  Exclusion criteria:   * Women who had a PPH treated successfully by   intra-uterine balloon tamponade, and who were not managed with any of the other therapies  **Maternal age, yrs, n (%):** <35  **G1:** 128 (64)  **G2:** 12 (60)  **G3:** 12 (55)  **G4:** 21 (68)  ≥35  **G1:** 71 (36)  **G2:** 8 (40)  **G3:** 10 (45)  **G4:** 10 (32)  **Parity, n (%):** Nulliparous  **G1:** 92 (46)  **G2:** 3 (15)  **G3:** 6 (27)  **G4:** 9 (29)  Multiparous  **G1:** 107 (54)  **G2:** 17 (85)  **G3:** 16 (73)  **G4:** 22 (71)  **Weeks gestation:** NR  **Single pregnancy:** NR  **Multiple pregnancy, n (%):**  **G1:** 19 (10)  **G2:** 1 (5)  **G3:** 1 (5)  **G4:** 0  **Race/ethnicity:** NR  **BMI** **(kg/m2), n (%):**  **<30**  **G1:** 149 (80)  **G2:** 15 (79)  **G3:** 12 (71)  **G4:** 25 (89)  **≥30**  **G1:** 37 (20)  **G2:** 4 (21)  **G3:** 5 (29)  **G4:** 3 (11)  **Baseline hemoglobin:** NR  **SES:** NR  **Mode of birth, n (%):**  Vaginal birth  **G1:** 17 (9)  **G2:** 3 (15)  **G3:** 7 (32)  **G4:** 15 (48)  Caesarean section during labour  **G1:** 96 (48)  **G2:** 5 (25)  **G3:** 4 (18)  **G4:** 5 (16)  Caesarean section before labour  **G1:** 86 (43)  **G2:** 12 (60)  **G3:** 11 (50)  **G4:** 11 (35)  **Risk factors, n (%):**  History of cesarean:  **G1:** 57 (29)  **G2:** 9 (45)  **G3:** 11 (50)  **G4:** 11 (35)  Previous uterine surgery:  **G1:** 33 (17)  **G2:** 4 (20)  **G3:** 1 (5)  **G4:** 5 (17)  Placenta praevia diagnosed  before labour:  **G1:** 19 (10)  **G2:** 4 (20)  **G3:** 8 (36)  **G4:** 6 (19)  Placenta accreta suspected  before labour:  **G1:** 3 (2)  **G2:** 1 (5)  **G3:** 4 (18)  **G4:** 2 (6)  Multiple gestation  **G1:** 19 (10)  **G2:** 1 (5)  **G3:** 1 (5)  **G4:** 0  Induction of labour:  Yes  **G1:** 53 (27)  **G2:** 1 (5)  **G3:** 3 (14)  **G4:** 13 (42)  No  **G1:** 146 (73)  **G2:** 19 (95)  **G3:** 19 (83)  **G4:** 18 (58)  Use of oxytocin during labour:  Yes  **G1:** 57 (51)  **G2:** 2 (25)  **G3:** 3 (27)  **G4:** 8 (40)  No  **G1:** 54 (48)  **G2:** 6 (75)  **G3:** 8 (73)  **G4:** 12 (60)  **Primary etiology of PPH, n (%):**  Atony  **G1:** 126 (63)  **G2:** 5 (25)  **G3:** 2 (9)  **G4:** 13 (42)  Placenta accreta  **G1:** 17 (9)  **G2:** 1 (5)  **G3:** 4 (18)  **G4:** 4 (13) Placenta previa without accreta  **G1:** 13 (7)  **G2:** 4 (20)  **G3:** 4 (18)  **G4:** 3 (10)  Uterine tear  **G1:** 22 (11)  **G2:** 6 (30)  **G3:** 3 (14)  **G4:** 3 (10)  Other  **G1:** 21 (11)  **G2:** 4 (20)  **G3:** 9 (41)  **G4:** 8 (26)  Disseminated intravascular coagulation  **G1:** 24 (12)  **G2:** 3 (15)  **G3:** 3 (14)  **G4:** 12 (39) | **Blood loss:** NR  **Transfusion, n (%):**  Red cells  **G1:** 168 (87)  **G2:** 19 (95)  **G3:** 21 (95)  **G4:** 30 (100)  Fresh frozen plasma  **G1:** 124 (66)  **G2:** 17 (85)  **G3:** 16 (73)  **G4:** 30 (100)  Platelets  **G1:** 65 (35)  **G2:** 13 (65)  **G3:** 9 (41)  **G4:** 24 (80)  Cryoprecipitate  **G1:** 47 (26)  **G2:** 11 (55)  **G3:** 6 (29)  **G4:** 24 (80)  **Success rates, n (%), 95% CI:**  After Uterotonic only, n=205  **G1:** 120 (75), 67-81  **G2:** 5 (36), 13-65  **G3:** 12 (86), 57-98  **G4:** 5 (31), 11-59 After failure of intrauterine tamponade, n=67 **G1:** 20 (53), 36–69  **G2:** 1 (17), 0–64  **G3:** 7 (87), 47–100  **G4:** 4 (27 ), 8–55  **Additional treatment, n (%), 95% CI:**  After Uterotonic only  **G1:** 16 (10), 6–16  **G2:** 7 (50), 23–77  **G3:** 0 (0), 0–23  **G4:** 4 (25), 7–52  After failure of intrauterine tamponade  **G1:** 10 (26), 13–43  **G2:** 5 (83), 36–100  **G3:** 1 (12), 0–53  **G4:** 4 (27), 8–55  **Uterine preservation, total n (%), 95% CI:**  Hysterectomy after Uterotonic only  **G1:** 32 (20), 14-27  **G2:** 6 (43), 18-71  **G3:** 2 (14), 0-43  **G4:** 7(44), 20-70  Hysterectomy after failure of intrauterine tamponade  **G1:** 14 (37), 22–54  **G2:** 3 (50), 12–88  **G3:** 0 (0), 0–37  **G4:** 7 (47), 21–73  **ICU admission:** NR  **Anemia:** NR  **Length of stay:** NR  **Mortality, total n:** 0  **Future fertility:** NR  **Breastfeeding:** NR  **Psychological impact:** NR  **Harms of intervention, total n:**  Acute Respiratory Syndrome  5  Pulmonary oedema  11  Cardiac arrest  5  Other  6  **Confounders:** NR  **Effect modifiers:** NR |