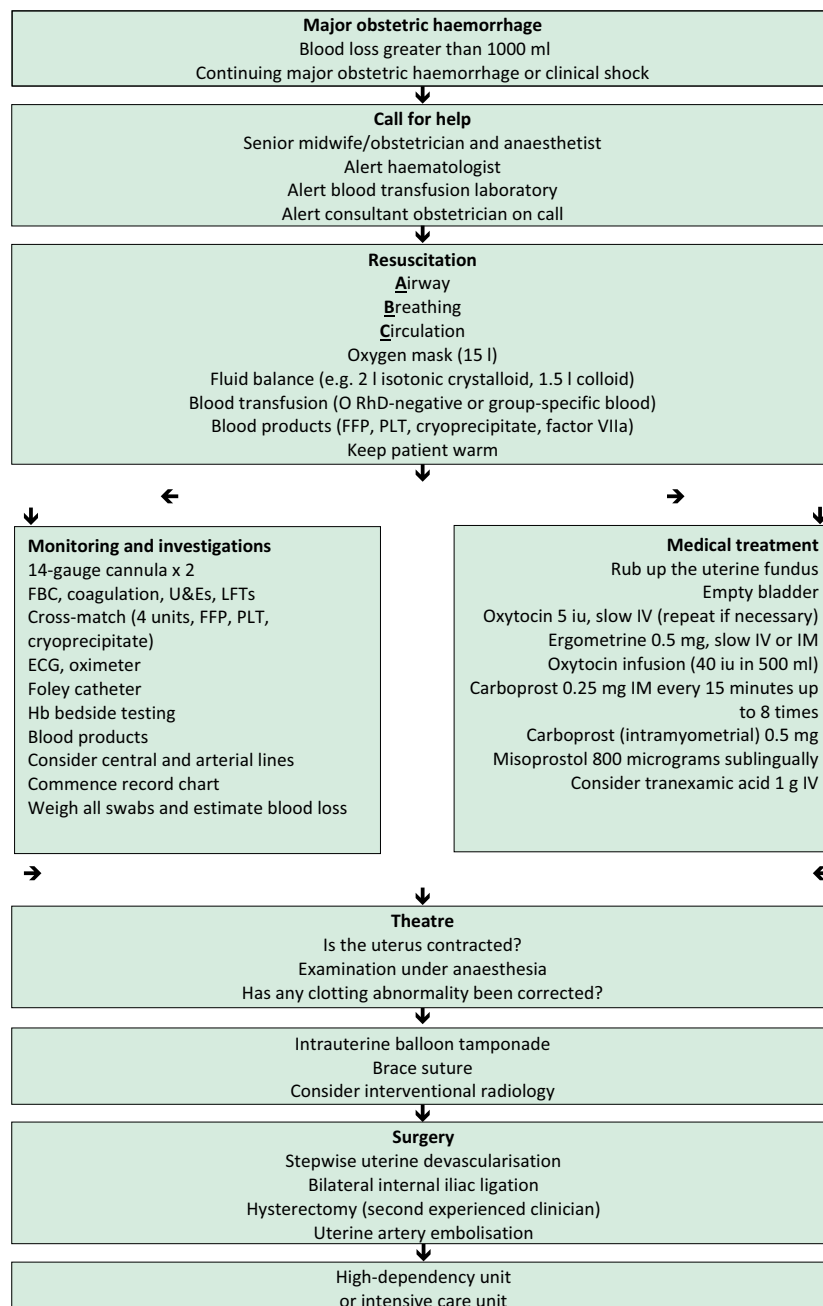


### Appendix III: A flow chart of the different steps for the management of major PPH

Resuscitation, monitoring, investigation and treatment should occur simultaneously



**Abbreviations:** ECG electrocardiogram; FBC full blood count; FFP fresh frozen plasma; Hb haemoglobin; IV intravenous; IM intramuscular; LFTs liver function tests; PLT platelets; PPH postpartum haemorrhage; RhD rhesus D; U&Es urea and electrolytes.

## Appendix IV: Obstetric early warning chart

### OBSTETRIC EARLY WARNING CHART. FOR MATERNITY USE ONLY

NAME: \_\_\_\_\_ DOB: \_\_\_\_\_

CHI: \_\_\_\_\_ WARD: \_\_\_\_\_

**CONTACT DOCTOR FOR EARLY INTERVENTION IF PATIENT TRIGGERS ONE RED OR TWO YELLOW SCORES AT ANY ONE TIME**

| Date :                            |                         |              |  |  |  |  |  |  |  |  |  |  |                     |              |     |
|-----------------------------------|-------------------------|--------------|--|--|--|--|--|--|--|--|--|--|---------------------|--------------|-----|
| Time :                            |                         |              |  |  |  |  |  |  |  |  |  |  |                     |              |     |
| RESP (write rate in corresp. box) | >30                     |              |  |  |  |  |  |  |  |  |  |  |                     | >30          |     |
|                                   | 21-30                   |              |  |  |  |  |  |  |  |  |  |  |                     | 21-30        |     |
|                                   | 11-20                   |              |  |  |  |  |  |  |  |  |  |  |                     | 11-20        |     |
|                                   | 0-10                    |              |  |  |  |  |  |  |  |  |  |  |                     | 0-10         |     |
| Saturations                       | 90-100%                 |              |  |  |  |  |  |  |  |  |  |  |                     | 90-100%      |     |
|                                   | <90%                    |              |  |  |  |  |  |  |  |  |  |  |                     | <90%         |     |
| O2 Conc.                          | %                       |              |  |  |  |  |  |  |  |  |  |  |                     | %            |     |
| Temp                              | 39                      |              |  |  |  |  |  |  |  |  |  |  |                     | 39           |     |
|                                   | 38                      |              |  |  |  |  |  |  |  |  |  |  |                     | 38           |     |
|                                   | 37                      |              |  |  |  |  |  |  |  |  |  |  |                     | 37           |     |
|                                   | 36                      |              |  |  |  |  |  |  |  |  |  |  |                     | 36           |     |
|                                   | 35                      |              |  |  |  |  |  |  |  |  |  |  |                     | 35           |     |
| HEART RATE                        | 170                     |              |  |  |  |  |  |  |  |  |  |  |                     | 170          |     |
|                                   | 160                     |              |  |  |  |  |  |  |  |  |  |  |                     | 160          |     |
|                                   | 150                     |              |  |  |  |  |  |  |  |  |  |  |                     | 150          |     |
|                                   | 140                     |              |  |  |  |  |  |  |  |  |  |  |                     | 140          |     |
|                                   | 130                     |              |  |  |  |  |  |  |  |  |  |  |                     | 130          |     |
|                                   | 120                     |              |  |  |  |  |  |  |  |  |  |  |                     | 120          |     |
|                                   | 110                     |              |  |  |  |  |  |  |  |  |  |  |                     | 110          |     |
|                                   | 100                     |              |  |  |  |  |  |  |  |  |  |  |                     | 100          |     |
|                                   | 90                      |              |  |  |  |  |  |  |  |  |  |  |                     | 90           |     |
|                                   | 80                      |              |  |  |  |  |  |  |  |  |  |  |                     | 80           |     |
|                                   | 70                      |              |  |  |  |  |  |  |  |  |  |  |                     | 70           |     |
|                                   | 60                      |              |  |  |  |  |  |  |  |  |  |  |                     | 60           |     |
|                                   | 50                      |              |  |  |  |  |  |  |  |  |  |  |                     | 50           |     |
|                                   | 40                      |              |  |  |  |  |  |  |  |  |  |  |                     | 40           |     |
|                                   | Systolic blood pressure | 200          |  |  |  |  |  |  |  |  |  |  |                     |              | 200 |
|                                   |                         | 190          |  |  |  |  |  |  |  |  |  |  |                     |              | 190 |
|                                   |                         | 180          |  |  |  |  |  |  |  |  |  |  |                     |              | 180 |
| 170                               |                         |              |  |  |  |  |  |  |  |  |  |  |                     | 170          |     |
| 160                               |                         |              |  |  |  |  |  |  |  |  |  |  |                     | 160          |     |
| 150                               |                         |              |  |  |  |  |  |  |  |  |  |  |                     | 150          |     |
| 140                               |                         |              |  |  |  |  |  |  |  |  |  |  |                     | 140          |     |
| 130                               |                         |              |  |  |  |  |  |  |  |  |  |  |                     | 130          |     |
| 120                               |                         |              |  |  |  |  |  |  |  |  |  |  |                     | 120          |     |
| 110                               |                         |              |  |  |  |  |  |  |  |  |  |  |                     | 110          |     |
| 100                               |                         |              |  |  |  |  |  |  |  |  |  |  |                     | 100          |     |
| 90                                |                         |              |  |  |  |  |  |  |  |  |  |  |                     | 90           |     |
| 80                                |                         |              |  |  |  |  |  |  |  |  |  |  |                     | 80           |     |
| 70                                |                         |              |  |  |  |  |  |  |  |  |  |  |                     | 70           |     |
| 60                                |                         |              |  |  |  |  |  |  |  |  |  |  |                     | 60           |     |
| 50                                |                         |              |  |  |  |  |  |  |  |  |  |  |                     | 50           |     |
| Diastolic blood pressure          |                         | 130          |  |  |  |  |  |  |  |  |  |  |                     |              | 130 |
|                                   | 120                     |              |  |  |  |  |  |  |  |  |  |  |                     | 120          |     |
|                                   | 110                     |              |  |  |  |  |  |  |  |  |  |  |                     | 110          |     |
|                                   | 100                     |              |  |  |  |  |  |  |  |  |  |  |                     | 100          |     |
|                                   | 90                      |              |  |  |  |  |  |  |  |  |  |  |                     | 90           |     |
|                                   | 80                      |              |  |  |  |  |  |  |  |  |  |  |                     | 80           |     |
|                                   | 70                      |              |  |  |  |  |  |  |  |  |  |  |                     | 70           |     |
|                                   | 60                      |              |  |  |  |  |  |  |  |  |  |  |                     | 60           |     |
|                                   | 50                      |              |  |  |  |  |  |  |  |  |  |  |                     | 50           |     |
|                                   | 40                      |              |  |  |  |  |  |  |  |  |  |  |                     | 40           |     |
|                                   | Passed Urine            | Y or N       |  |  |  |  |  |  |  |  |  |  |                     | Y or N       |     |
|                                   | Lochia                  | Normal       |  |  |  |  |  |  |  |  |  |  |                     | Normal       |     |
|                                   |                         | Heavy / Foul |  |  |  |  |  |  |  |  |  |  |                     | Heavy / Foul |     |
|                                   | Proteinuria             | 2+           |  |  |  |  |  |  |  |  |  |  |                     | 2+           |     |
|                                   |                         | > 2+         |  |  |  |  |  |  |  |  |  |  |                     | > 2+         |     |
|                                   | Liquor                  | Clear / Pink |  |  |  |  |  |  |  |  |  |  |                     | Clear / Pink |     |
|                                   |                         | Green        |  |  |  |  |  |  |  |  |  |  |                     | Green        |     |
| NEURO RESPONSE (-)                | Alert                   |              |  |  |  |  |  |  |  |  |  |  | Alert               |              |     |
|                                   | Voice                   |              |  |  |  |  |  |  |  |  |  |  | Voice               |              |     |
|                                   | Pain / Unresponsive     |              |  |  |  |  |  |  |  |  |  |  | Pain / Unresponsive |              |     |
| Pain Score (no.)                  | 2-3                     |              |  |  |  |  |  |  |  |  |  |  | 2-3                 |              |     |
|                                   | 0-1                     |              |  |  |  |  |  |  |  |  |  |  | 0-1                 |              |     |
| Nausea (-)                        | YES (-)                 |              |  |  |  |  |  |  |  |  |  |  | YES (-)             |              |     |
|                                   | NO (-)                  |              |  |  |  |  |  |  |  |  |  |  | NO (-)              |              |     |
| Looks unwell                      | YES (-)                 |              |  |  |  |  |  |  |  |  |  |  | YES (-)             |              |     |
| Looks unwell                      | NO (-)                  |              |  |  |  |  |  |  |  |  |  |  | NO (-)              |              |     |
| Total Yellow Scores               |                         |              |  |  |  |  |  |  |  |  |  |  |                     |              |     |
| Total Red Scores                  |                         |              |  |  |  |  |  |  |  |  |  |  |                     |              |     |

## Appendix V: Example obstetric haemorrhage chart

Time of call-out: ..... Call-out by: ..... Date: .....

| Team member                               | Name | Time arrived |
|---|------|--------------|
| On-call obstetric consultant              |      |              |
| On-call obstetric registrar               |      |              |
| On-call obstetric ST1-2/GPVTs/FY          |      |              |
| On-call anaesthetic consultant            |      |              |
| On-call anaesthetic registrar             |      |              |
| On-call operating department practitioner |      |              |
| Alert blood transfusion laboratory        |      |              |
| On-call gynaecology ST1-2/GPVTs/FY        |      |              |
| Senior midwife                            |      |              |
| Midwife                                   |      |              |
| Porter                                    |      |              |
| Cell saver technician                     |      |              |

| Drug              | Dose   | Time |
|-------------------|--|------|
| Oxytocin          | 5 iu slow IV   |      |
| Ergometrine IV    | 500 micrograms/1 ampule (if normal BP) IM                                |      |
| Oxytocin infusion | 40 iu in 500 ml physiological saline IV via infusion pump at 125 ml/hour |      |
| Carboprost        | 0.25 mg IM (dose 1)  |      |
| Carboprost        | 0.25 mg IM (dose 2)  |      |
| Carboprost        | 0.25 mg IM (dose 3)  |      |
| Carboprost        | 0.25 mg IM (dose 4)  |      |
| Carboprost        | 0.25 mg IM (dose 5)  |      |
| Carboprost        | 0.25 mg IM (dose 6)  |      |
| Carboprost        | 0.25 mg IM (dose 7)  |      |
| Carboprost        | 0.25 mg IM (dose 8)  |      |
| Misoprostol       | 800 micrograms SL or 1000 micrograms PR                                  |      |
| Tranexamic acid   | 1 g IV   |      |

| Blood sent                     | Time   | Observations |
|--------------------------------|--|--------------|
|                                | Time   | BP           |
| FBC                            |  |              |
| Cross-match units              |  |              |
| Coagulation screen             |  |              |
| Placenta delivered             | Yes <input type="checkbox"/> No <input type="checkbox"/> |              |
| Urinary catheter with urometer |  |              |
| Fluids                         |  |              |
| Type                           | Volume   | Time         |
|                                |  |              |
|                                |  |              |
|                                |  |              |
|                                |  |              |
|                                |  |              |

| Initial management                 | Time |
|------------------------------------|------|
| Oxygen given                       |      |
| Bed head down                      |      |
| IV cannula no. 1                   |      |
| IV cannula no. 2                   |      |
| Further interventions              | Time |
| Transfer to theatre                |      |
| Intrauterine balloon tamponade     |      |
| Brace suture                       |      |
| Interventional radiology called    |      |
| Stepwise uterine devascularisation |      |
| Bilateral internal artery ligation |      |
| Hysterectomy                       |      |

**Abbreviations:** **BP** blood pressure; **FBC** full blood count; **FY** Foundation Year doctor; **GPVTs** trainee in general practice; **IM** intramuscular; **IV** intravenous; **PR** per rectum; **SL** sublingual; **ST** specialty trainee.

Adapted from the Chelsea and Westminster Hospital Haemorrhage pro forma.

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The final version is the responsibility of the Guidelines Committee of the RCOG.

The review process will commence in 2019, unless otherwise indicated.

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