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An algorithm for the management of coagulopathy from postpartum hemorrhage, using fibrinogen concentrate as first-line therapy

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1 **An algorithm for the management of coagulopathy from postpartum hemorrhage,**
2 **using fibrinogen concentrate as first-line therapy**

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9 **Keywords:** obstetrical disseminated intravascular coagulation (DIC), freeze-dried
10 fibrinogen, transfusion protocol; postpartum hemorrhage; coagulopathy

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16 **ABSTRACT**

17 **Background:** We constructed an algorithm for the management of coagulopathy from
18 massive postpartum hemorrhage. Fibrinogen concentrate was administered
19 preferentially, and the dose of both fibrinogen concentrate and fresh frozen plasma
20 given was determined by the plasma fibrinogen concentration and prothrombin time.
21 The efficacy of the algorithm and the amount of fibrinogen concentrate and fresh frozen
22 plasma transfused were determined.

23 **Methods:** The study was conducted in a single teaching perinatal center. Nineteen
24 patients were included between April 2011 and March 2014 (patient group). For a
25 historical comparison group, we retrospectively analyzed the records of 19 patients who
26 had been treated for coagulopathy from massive postpartum hemorrhage between April
27 2006 and March 2011 (control group).

28 **Results:** Blood loss was significantly lower in the patient group. No adverse events
29 were associated with this management in either group. The dose of fibrinogen
30 concentrate administered was significantly higher and that of fresh frozen plasma

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