

Perioperative autologous blood transfusion in elective total hip prosthesis operations

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The aim of this study was to determine if acute perioperative normovolaemic haemodilution with retransfusion of the autologous blood at the end of operation would reduce or eliminate the need for homologous (banked) blood. Forty patients scheduled for total hip prosthesis replacement (THPR) were randomly divided into two groups: Group A, 20 patients from whom 900 ml of blood was taken 20 min preoperatively, the volume being replaced with 1000 ml of gelatin solution (Haemaccol®). Group B, 20 patients who were undergoing the same operation but from whom no blood was taken. Both groups were allowed a fall in haematocrit (Hct) to 0.25 before transfusion was started. A standard formula to calculate allowable blood loss plus intraoperative Hct measurements were used to achieve the haemodilution. There was no significant difference in blood loss between the two groups. Transfusion requirement was the same in the two groups. In this study, autotransfusion by the withdrawal of 900 ml of blood is inadequate to reduce the transfusion requirement further than that which can be achieved by haemodilution alone.

Blood transfusion is performed worldwide with the source of the blood being determined by each country's resources and medical services. In Britain there has been a growing demand for autologous blood transfusion (1). The American Council for Scientific Affairs has pointed out the safety of autologous blood transfusion in its various forms (2). In Australia, too, trials have been performed to explore the potential of autotransfusion (3).

The impetus for this demand comes from the knowledge of the risks of homologous blood transfusion (4-7), and the public anxiety about the risk of HIV transmission (8). Information regarding immunosuppression and tumour recurrence with homologous blood transfusion is also increasing (9). Further impetus comes from the extensive work by Messmer and his colleagues who

for many years have suggested that haemodilution is not only safe in selected patients, including the elderly (10-14), but have gone on to demonstrate an 'optimum haematocrit' in the surgical patient (15). The lack of adverse cardiovascular and respiratory side-effects during haemodilution has been well documented (16,17).

Clinical trials have demonstrated the benefits of pre-donation of autologous blood in the weeks before surgery (18,19), but there have been few trials which have looked at acute autotransfusion with normovolaemic haemodilution being allowed in the control group.

The aims of this study was to determine if acute perioperative autotransfusion conveyed any benefits with respect to a decrease in homologous blood requirements over normovolaemic haemodilution alone.

Patients and methods

All patients were to undergo total hip prosthesis replacement (THPR). They were assessed by another anaesthetist and deemed fit for the procedure. The criteria for inclusion in the study were: no clinical or ECG evidence of myocardial ischaemia, a history of exercise tolerance which indicated an ability to increase cardiac output by 50%, normal renal function, weight > 50 kg, haemoglobin (Hb) > 11 g/dl and normal coagulation status (assessed by preoperative activated partial thromboplastin time (APTT), prothrombin time (PT), platelets and fibrinogen levels). Ethical committee approval was obtained and all patients gave informed consent to take part in the study.

Three types of THPR (Charnley, Spectron and PCA) were performed by nine surgeons, divided evenly between the two groups. Three anaesthetic techniques were used (Table I) according to the preference of the consultant. The distribution of techniques was similar in the two groups.

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