SHOT Bite No. 8:

Serious Hazards of Transfusion July 2021

Massive Haemorrhage Delays

Background: The number of reports submitted to SHOT relating to transfusion delays, including instances of major haemorrhage resulting in patient harm, are increasing year on year. Poor communication, gaps in knowledge and failure to follow the major haemorrhage protocol (MHP) correctly are common themes. Serial delays at different transfusion steps are cumulative and can result in harm or death.

Number of MHP delays reported to SHOT 2016-2020

Figure 1 shows the number of MHP delays reported to SHOT 2016-2020 with patient death reported in 30 cases

Between 2016-2020, there were 20 obstetric and 7 paediatric MHP delays reported to SHOT







Factors contributing to MHP delays

A major cause of transfusion delays is poor communication. Other factors that contribute to transfusion delays are listed below.

Recognition and unfamiliarity: It is not always easy to detect major bleeding, particularly when concealed, as in gastrointestinal bleeding and leaking abdominal aortic aneurysm. Staff experience in managing major haemorrhage may be limited in hospital areas where it occurs only rarely, for example in paediatrics. Elderly patients are often on anticoagulants exacerbating the severity of bleeding. Obstetric haemorrhage can be rapid and massive

Activating the major haemorrhage protocol and accessing help from haematologists: Activation of the MHP requires contact with switchboard, however, bleep or telephone failure, and confusion between staff about who is responsible for alerting porters are all contributing factors in delays

Patient movement and location: Transfer of the patient between different clinical areas results in delays when there is poor communication between staff about the patient's location. This impacts on delivery of samples and components to and from the laboratory. Distance between patient and laboratory can also contribute to delays



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Laboratory delays: The laboratory staff process the sample, check the blood group and antibody screen and as long as the correctly labelled samples have arrived in the lab they can release group-specific or crossmatched components for delivery to the clinical area, however, mislabelled samples can slow this process

Blood transfusion: Blood transfusion to the patient can be delayed by poor or absent venous access

Stand down: Poor communication between lab and clinical area about when the episode is over can delay other work which might have been put on hold

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