

We have moved into an exciting era of electronic or computer crossmatch.





Your Blood Saves Lives

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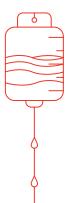


Electronic
Crossmatch (EXM)

INF-MLD-078 • 1059802 Rev 0 (03/06/2019) • Registration No. 2000/026390/0

What is Electronic crossmatch?

We have moved into an exciting era of electronic or computer crossmatch. The issuing of blood without full crossmatching and using a computer interface to assign a unit of blood to the patient. A blood sample is drawn only to confirm the blood group and antibody screen.







Why EXM?

- Improved turnaround times (TAT)
- Small volume blood sample for testing
- Reduced human error (automated testing platform) – improved blood safety
- Improved efficiency

To introduce SMART FRIDGES in future: Blood vending machines placed at hospitals and interfaced with SANBS IT system.

EXM is done; doctor receives confirmation and code to collect blood from smart fridge (blood vending machine)

When can we not perform EXM?

High-risk groups are excluded:

- All patients with positive antibody screen and history of clinical antibodies
- Inconclusive ABO and RH grouping
- Emergency un-crossmatched blood
- Patients younger than 1 year
- Patients who had incompatible haemopoietic stem cell transplant; had incompatible organ transplant
- Patients with Sickle Cell Anaemia
- Patients having Bypass surgery



What is required to perform EXM?



- Current sample
- Patient identification
- Historic data
- Clinical information or diagnosis.



How is EXM being monitored?

- Turnaround Times (TAT)
- Adverse events or transfusion reaction reported by Haemovigilance team



Future steps?

- 1. Doctors blood request via an app
- 2. EXM done
- 3. Confirmation and access code sent to the requesting doctor
- 4. Collection of blood from smart fridges (operating like a vending machine) using the code