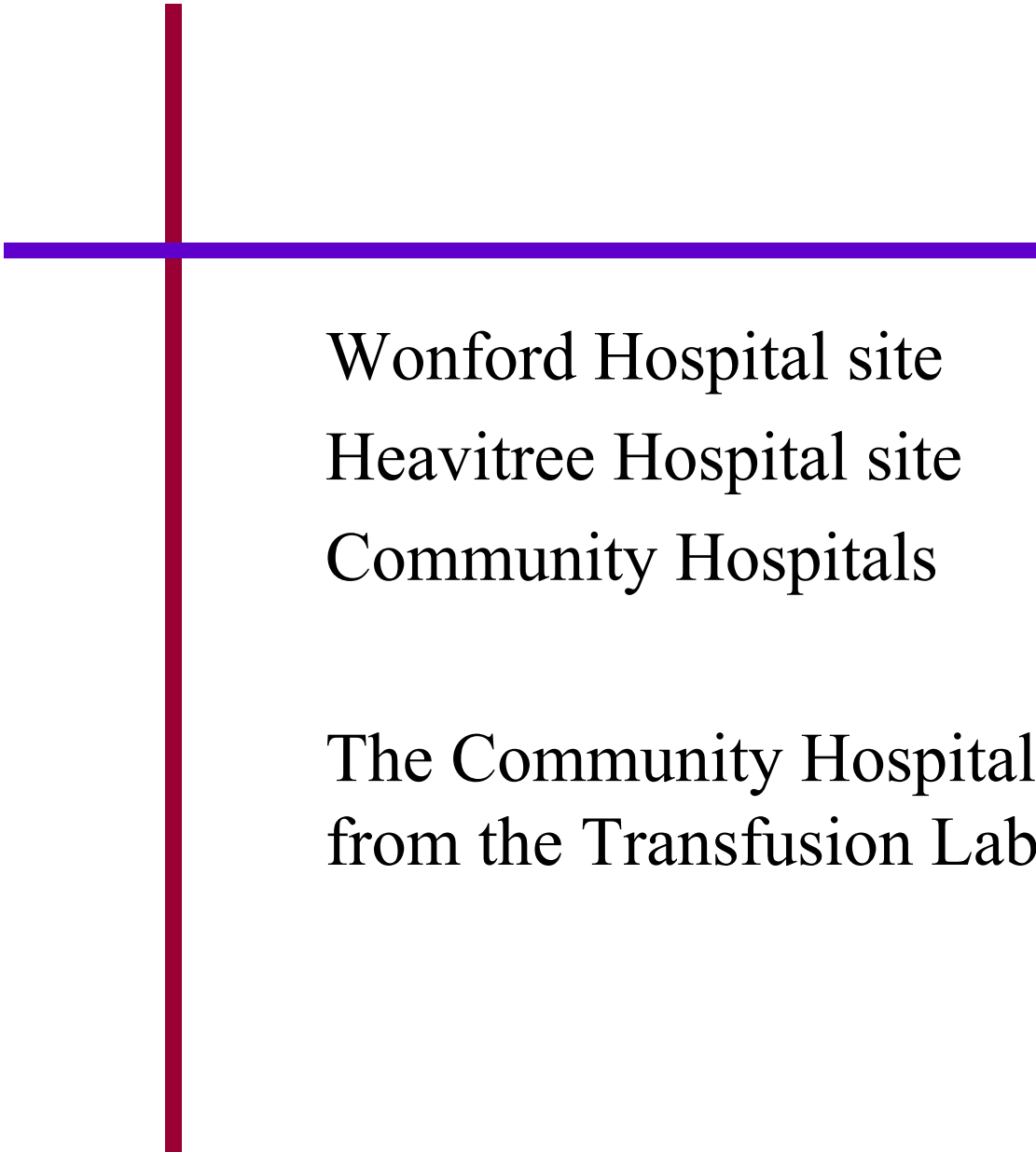




# Managing Satellite and Remote Blood Banks

Steve Elcoate



Wonford Hospital site	4 satellites
Heavitree Hospital site	3 satellites
Community Hospitals	11 satellites

The Community Hospitals are up to 25 miles from the Transfusion Laboratory



# My problem in Exeter

Maintaining a safe red cell storage facilities with minimum financial investment and minimum use of laboratory staff time

## Red cell storage incidents,

- only one SHOT incident relating to storage
- RD&Exeter 38 incidents in 31 months
  - red cells not returned 6
  - left out of blood bank 22
  - put in drugs fridge 2
  - transport errors 8
- cost of wasted red cells £5,369  
(Total transfusion incidents in period - 142)

## Incidents categories

- HRC - 8, (A lack of task co-ordination within a healthcare team)
- HRI - 27 (Failures that result for faulty task planning and execution)
- HRV - 2 (Not making a correct assessment of the situation)
- OC - 1 (Culture, group establishes own methods of working)
- All the incidents were categorised as low risk or medium risk

# Requirements for Red Cell Storage

- storage at the correct temperature
- blood bank alarm system
- security of blood bank contents
- red cells returned promptly when not required
- control of the collection of red cells
- audit trail for the red cells

**(BS 4376 (1991) Electrically operated blood storage refrigerators)**

Royal Devon and Exeter Healthcare



NHS Trust

# Requirements for Remote Blood Bank

- named responsible person on site
- training programme
- shared Standard Operating Procedure
- independent alarm check and maintenance
- very occasional site visit
- error management system

## Sanvo Blood Bank Refrigerator

### XXXX Hospital

Site : XXXX Hospital

Serial Number : 502822

Purchased : 06/05/1995

The Sanyo Blood Bank Refrigerator is situated in the First Treatment Room, Medical Ward.

The responsible person on site is the Modern Matron, xxxxx, telephone 01234 123456.

The responsible person in the Blood Transfusion Department is Blood Transfusion Manager, Steve Elcoate, telephone 01392 402461.

**Daily** Staff will be responsible for the following :- check that the temperature on the indicating thermometer is between 2°C and 6°C, check that the chart recorder is recording a temperature between 2°C and 6°C, check that the blood bank alarm is working by pressing the test button and record these results in the book. Check that any blood not required is being returned on the date indicated on the bottom of the label and that the Emergency O Rh Neg blood is in the refrigerator. Inform the Blood Transfusion Department if there are problems with any of the above.

**Monthly** Clean the inside and the outside of the blood bank with a mild detergent. Change the temperature recording chart, see “Sanyo Blood Refrigerator - Changing the Chart” for full details.

**Every Four Months** The refrigeration unit will be serviced under a contract arranged by the Estates Department.

**Every Six Months** The alarm system will be tested and calibrated under a contract organised by the Blood Transfusion Department.

**The Alarm System** The alarm system is an integral part of the blood bank refrigerator and will sound if the temperature is outside the limits 3°C to 7°C or the power is switched off.

**If the alarm sounds take immediate action, find out what is causing the malfunction and correct if possible, (e.g. door open).**

If the fault cannot be rectified contact the Community Unit Estates Hot Line, 01392 449794, (between 08:00-09:15 and 13:30-15:00), or, out of office hours, the duty engineer via the Wonford Hospital Telephone Switchboard, 01392 411611.

If further help is required phone the Blood Transfusion Department, 01392 402467, or out of office hours contact the MLSO on call for blood transfusion via the Wonford Hospital Telephone Switchboard. If necessary move the blood for blood products to the Blood Transfusion Department at RD&E Wonford.

The audible alarm can be permanently inhibited using the switch on the control panel. Inhibit the alarm by switching the buzzer switch off.

**Leave the alarm switch in the on position**, so that the warning lamp continues to indicate a malfunction. **Reset the alarm system as soon as the fault has been rectified** and the temperature is within the normal range of 3°C to 7°C

C by switching the alarm switch off then on again. The warning lamp will then go out.

## **Blood Transfusion Transport, Receipt and Record Keeping**

**Receipt of Blood** At delivery the person receiving the blood will enter the date and time received, the patient's name, hospital number, blood unit number and the blood group of the unit of blood in the register and the blood will immediately be put in the blood bank refrigerator.

**Blood Usage Records** The date and time that a unit of blood is taken for use will be recorded in the register by the nurse/authorised collecting the blood.

**Return or Transfer of Blood** All blood that has not been used will be returned to the Blood Transfusion Department on its dereserve date. The date and time that a unit of blood is returned to the Blood Transfusion Department will be recorded in the register.

## **Blood Transfusion Records**

The completed register will be stored for 11 years.

