

Avoidable Repeat Rate for November 2020 for Newborn Blood Spot Screening - Manchester Laboratory

The avoidable repeat rate for samples received during November 2020 is displayed by Trust in Figure 1 and by current hospital (for in-patients) in Figure 2. The raw data is provided in Tables 2 and 3. The avoidable repeat rate is calculated by dividing the total number of avoidable repeats by the number of babies tested (i.e. first samples).

12 samples (first samples and repeats) received in November had no Trust code (0.3%). Please write the Trust code for your maternity unit/ neonatal unit in the PCT field (old style card) or the 'Trust of sample taker' field (new style card) to improve the accuracy of the figures. A list of trust codes is provided in Table 1. Alternatively maternity units could stamp cards with the code prior to issuing to midwives/neonatal units, depending on local arrangements. It would also be helpful if health visitors could write 'HV' in the PCT field (old style card) or 'Trust of sample taker' field (new style card) so that we can provide data specific to health visitors.

Table 1

Code	Trust Name
RXL	BLACKPOOL TEACHING HOSPITALS NHS FOUNDATION TRUST
RMC	BOLTON NHS FOUNDATION TRUST
RXR	EAST LANCASHIRE HOSPITALS NHS TRUST
RXN	LANCASHIRE TEACHING HOSPITALS NHS FOUNDATION TRUST
RW3	MANCHESTER UNIVERSITY NHS FOUNDATION TRUST – ST. MARY'S & RMCH
RM2	MANCHESTER UNIVERSITY NHS FOUNDATION TRUST - WYTHENSHAW
NM-RW6	PENNINE ACUTE HOSPITALS NHS TRUST – NORTH MANCHESTER
OL-RW6	PENNINE ACUTE HOSPITALS NHS TRUST – OLDHAM
RVY	SOUTHPORT AND ORMSKIRK HOSPITAL NHS TRUST
RWJ	STOCKPORT NHS FOUNDATION TRUST
RMP	TAMESIDE HOSPITAL NHS FOUNDATION TRUST
RTX	UNIVERSITY HOSPITALS OF MORECAMBE BAY NHS FOUNDATION TRUST
RRF	WRIGHTINGTON, WIGAN AND LEIGH NHS FOUNDATION TRUST

In this document North Manchester and Oldham will be referred to as separate maternity units, although they are currently part of the same Trust.

Figure 1 - Avoidable repeats by Trust

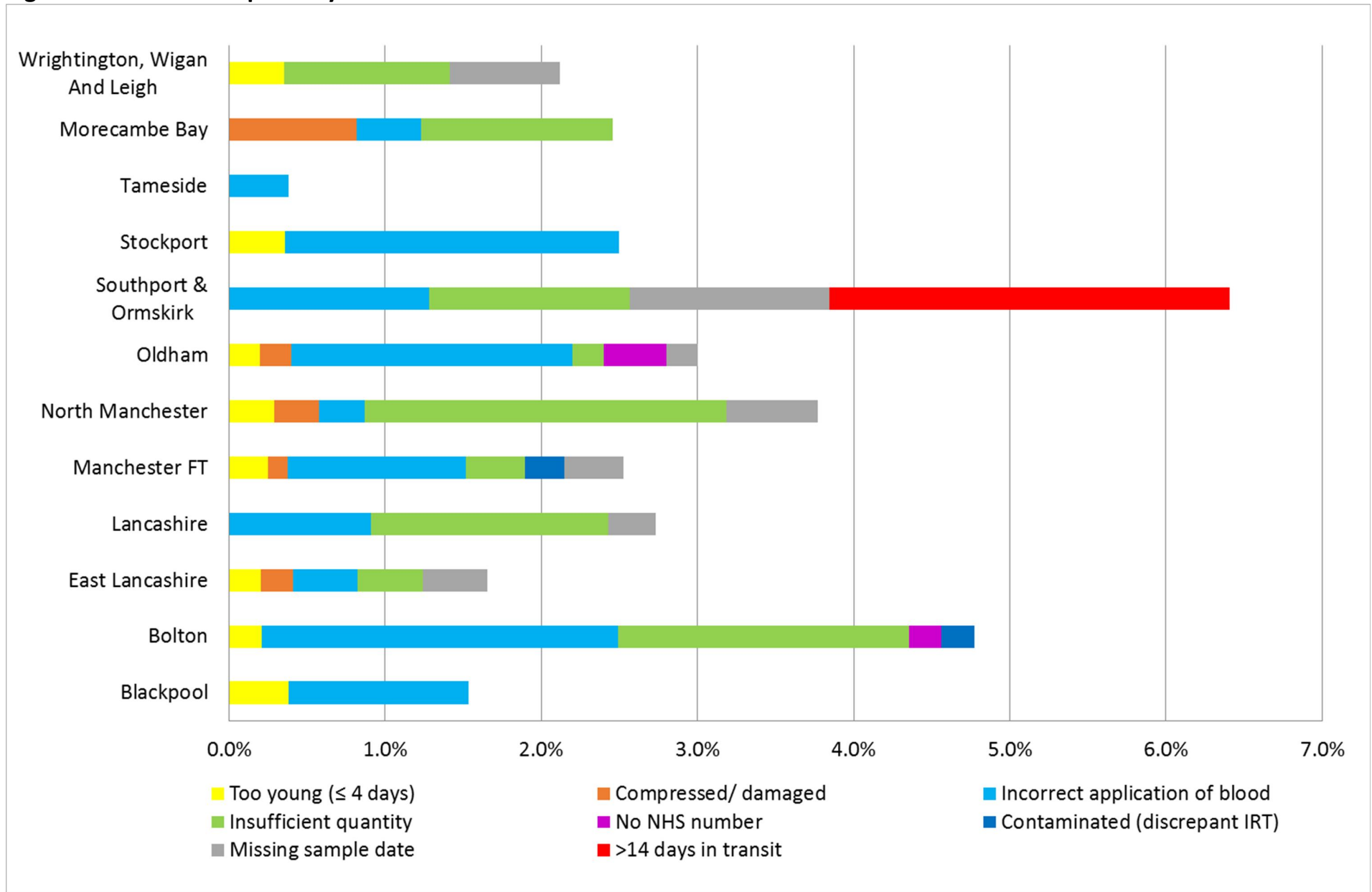
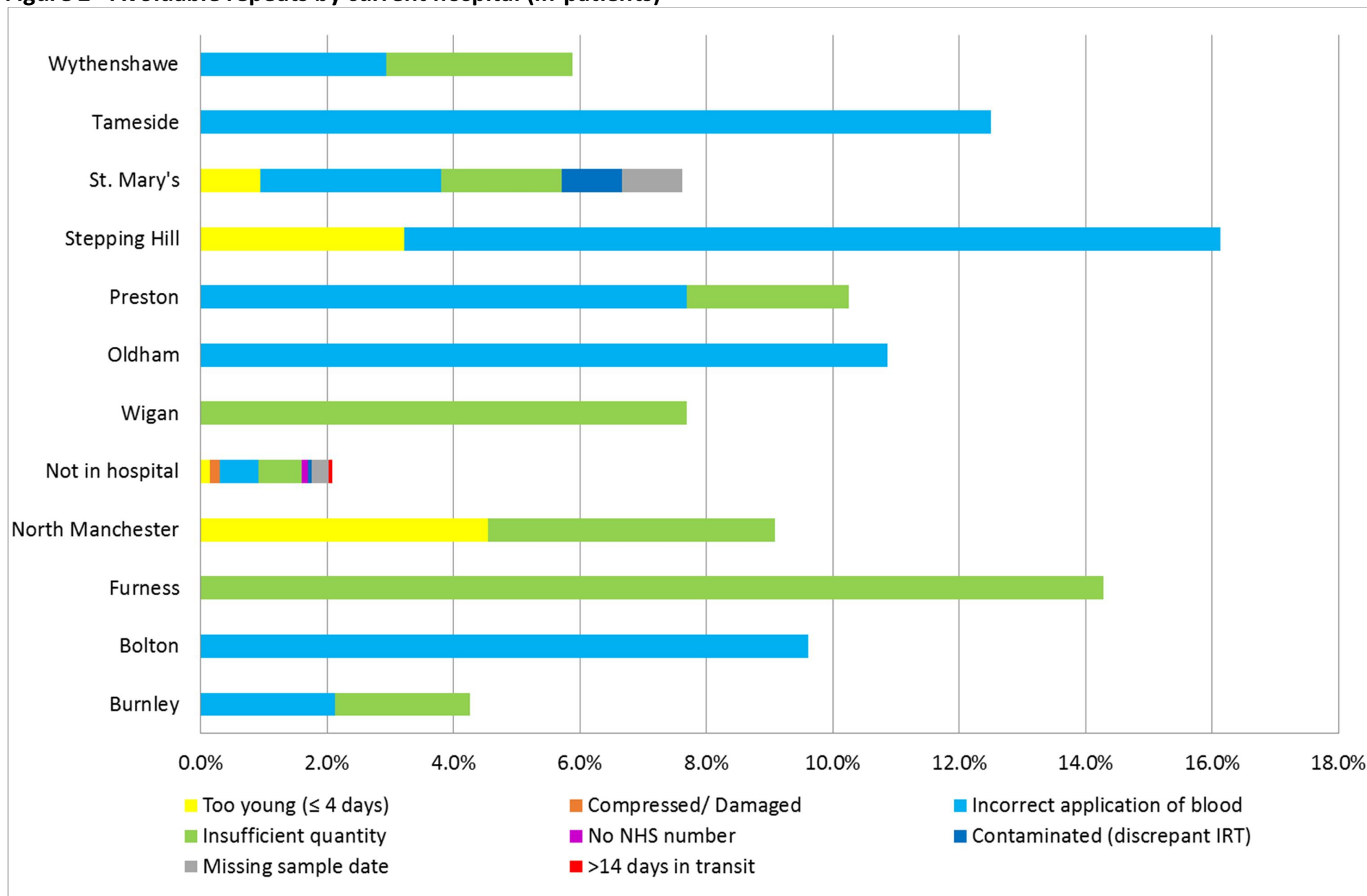


Figure 2 - Avoidable repeats by current hospital (in-patients)



There were no avoidable repeats for Blackpool, Ormskirk, Blackburn and Lancaster and RMCH.

Table 2 – Avoidable repeats by Trust for November 2020

Row Labels	Number of first samples received/ babies tested	Too soon after transfusion (<72 hours)*	Too young for reliable screening (≤ 4 days)	Bloodspot card damaged in transit	Bloodspot compressed/ damaged	Expired bloodspot card	Incorrect application of blood on card	Insufficient quantity	>14 days in transit	No NHS number	Contaminated (discrepant IRT)	Missing sample date	DOB missing	Number of Avoidable Repeat Requests	Avoidable Repeat Requests Rate
Blackpool Teaching Hospitals NHS FT	261	0	1	0	0	0	3	0	0	0	0	0	0	4	1.5%
Bolton NHS FT	482	1	1	0	0	0	11	9	0	1	1	0	0	23	4.8%
East Lancashire Hospitals NHS Trust	484	0	1	0	1	0	2	2	0	0	0	2	0	8	1.7%
Lancashire Teaching Hospitals NHS FT	329	0	0	0	0	0	3	5	0	0	0	1	0	9	2.7%
Manchester University NHS FT - SMH & RMCH	791	4	2	0	1	0	9	3	0	0	2	3	0	20	2.5%
North Manchester (Pennine Acute Hospitals NHS Trust)	345	0	1	0	1	0	1	8	0	0	0	2	0	13	3.8%
Not Stated	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
Health Visitor	38	0	0	0	0	0	0	0	0	1	0	0	0	1	2.6%
Oldham (Pennine Acute Hospitals NHS Trust)	500	2	1	0	1	0	9	1	0	2	0	1	0	15	3.0%
Southport & Ormskirk Hospital NHS Trust	78	0	0	0	0	0	1	1	2	0	0	1	0	5	6.4%
Stockport NHS FT	280	0	1	0	0	0	6	0	0	0	0	0	0	7	2.5%
Tameside And Glossop Integrated Care NHS FT	261	0	0	0	0	0	1	0	0	0	0	0	0	1	0.4%
University Hospitals of Morecambe Bay NHS FT	244	0	0	0	2	0	1	3	0	0	0	0	0	6	2.5%
Wrightington, Wigan and Leigh NHS FT	283	0	1	0	0	0	0	3	0	0	0	2	0	6	2.1%
Grand Total	4388	7	9	0	6	0	47	35	2	4	3	12	0	118	2.7%

*Not included in calculation of avoidable repeats

Table 3 – Avoidable repeats by current hospital (in-patients) for November 2020

Current Hospital	Number of first samples received/ babies tested	Too soon after transfusion (<72 hours)*	Too young (≤ 4 days)	Damaged in transit	Compressed/ Damaged	Expired card	Incorrect application of blood	Insufficient quantity	>14 days in transit	No NHS number	Contaminated (discrepant IRT)	Missing sample date	DOB Missing	Number of Avoidable Repeat Requests	Avoidable Repeat Requests Rate
Burnley General Hospital	47	0	0	0	0	0	1	1	0	0	0	0	0	2	4.3%
Royal Bolton Hospital	52	1	0	0	0	0	5	0	0	0	0	0	0	5	9.6%
Blackpool Victoria Hospital	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
Furness General Hospital	7	0	0	0	0	0	0	1	0	0	0	0	0	1	14.3%
North Manchester General Hospital	22	0	1	0	0	0	0	1	0	0	0	0	0	2	9.1%
Not in hospital	3938	0	6	0	6	0	24	27	2	4	2	11	0	82	2.1%
Ormskirk & District General	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
Royal Albert Edward Infirmary	13	0	0	0	0	0	0	1	0	0	0	0	0	1	7.7%
Royal Blackburn Hospital	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
Royal Lancaster Infirmary	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
Royal Manchester Childrens Hospital	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
Royal Oldham Hospital	46	2	0	0	0	0	5	0	0	0	0	0	0	5	10.9%
Royal Preston Hospital	39	0	0	0	0	0	3	1	0	0	0	0	0	4	10.3%
Stepping Hill Hospital	31	0	1	0	0	0	4	0	0	0	0	0	0	5	16.1%
St Mary's Hospital, Manchester	105	4	1	0	0	0	3	2	0	0	1	1	0	8	7.6%
Tameside General Hospital	8	0	0	0	0	0	1	0	0	0	0	0	0	1	12.5%
Wythenshawe Hospital	34	0	0	0	0	0	1	1	0	0	0	0	0	2	5.9%
Grand Total	4388	7	9	0	6	0	47	35	2	4	3	12	0	118	2.7%

*Not included in calculation of avoidable repeats

Tips to help avoid rejection of samples:

- Collect sample on day 5 (date of birth is day 0)
- Check the expiry date on the card
- Wash the baby's heel with water to reduce the risk of a contaminated IRT result
- Ensure that blood spots are the size of the guide circles on the card
- Allow the blood to drop onto the card rather than touching the filter paper to the baby's heel
- Some brands of lancet device are more effective than others
- Extra blood spots, in addition to the 4 indicated by the guide circles, can be collected elsewhere on the card
- Repeat the test at the same visit if the spots are too small or have not soaked through to the back of the card
- Make sure there is a valid NHS number on the card

Conclusion

The avoidable repeat rate for November was 2.7% which is an improvement on October (2.9%). The most common reason for rejection was incorrect application of blood (multi-spotting), followed by insufficient blood and missing sample date. 3 out of 12 maternity units met the acceptable threshold for standard 6, including Tameside who met the achievable threshold.