

## Avoidable Repeat Rate for January 2024 for Newborn Blood Spot Screening - Manchester Laboratory

The avoidable repeat rate for samples received during January is displayed by Trust in Figure 1. 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).

**Acceptable: Avoidable repeat rate is  $\leq$  2.0%**

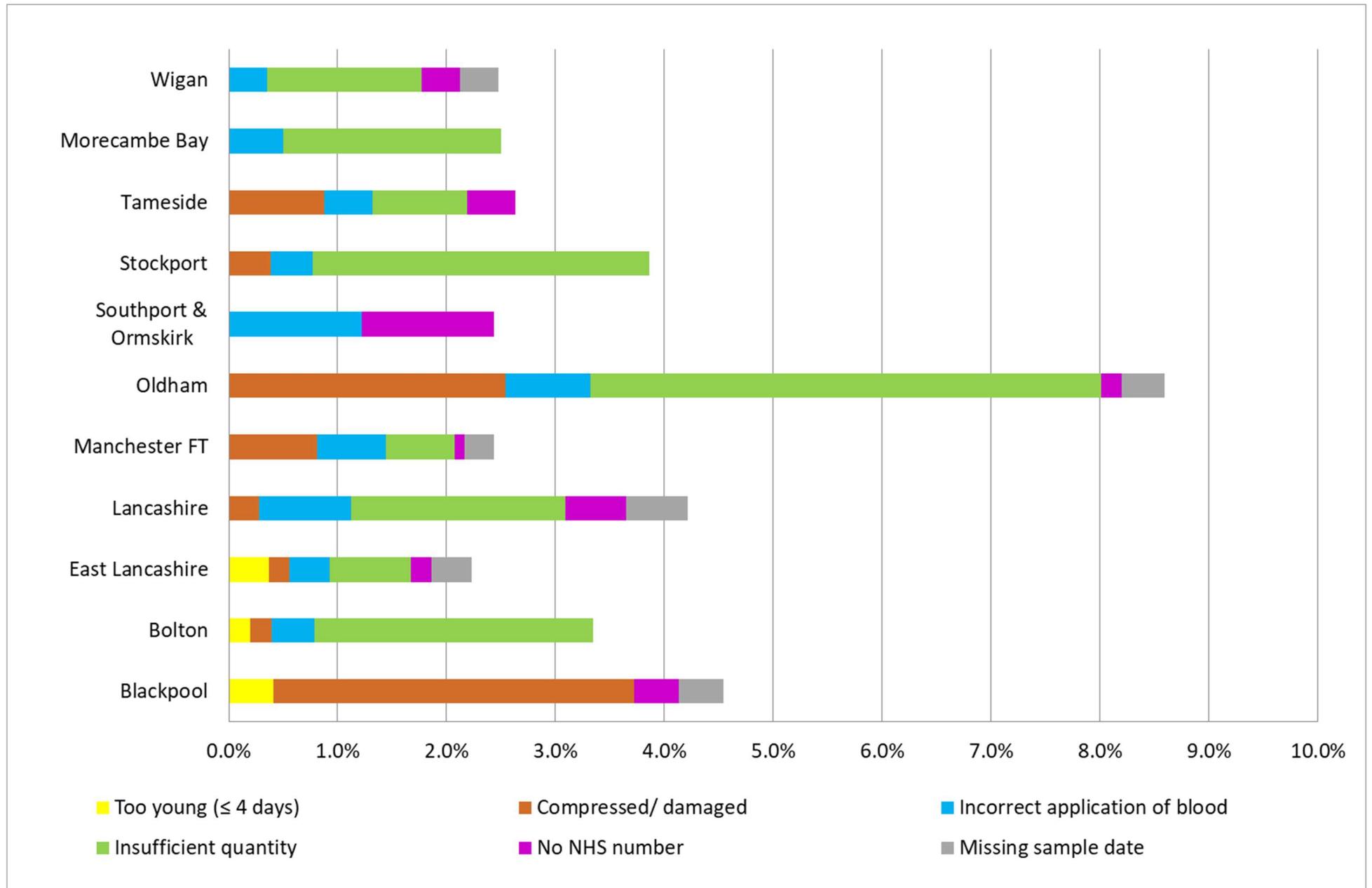
**Achievable: Avoidable repeat rate is  $\leq$  1.0%**

A list of trust codes is provided in Table 1.

**Table 1**

<b>Code</b>	<b>Trust Name</b>
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-ROA	MANCHESTER UNIVERSITY NHS FOUNDATION TRUST – NORTH MANCHESTER
OL-RW6	NORTHERN CARE ALLIANCE
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

**Figure 1 - Avoidable repeats by Trust – January 2024**



**Table 2 – Avoidable repeats by Trust for January 2024**

Maternity Unit	Number of first samples received/ babies tested	Too soon after transfusion (<72 hours)*	Too young for reliable screening (≤ 4 days)	Blood spot 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	242	0	1	0	8	0	0	0	0	1	0	1	0	11	4.5%
Bolton NHS FT	508	2	1	0	1	0	2	13	0	0	0	0	0	17	3.3%
East Lancashire Hospitals NHS Trust	538	3	2	0	1	0	2	4	0	1	0	2	0	12	2.2%
Health Visitor	98	0	0	0	3	0	3	6	1	0	0	0	0	13	13.3%
Lancashire Teaching Hospitals NHS FT	356	2	0	0	1	0	3	7	0	2	0	2	0	15	4.2%
Manchester University NHS FT - SMH, RMCH, WH, NMGH	1109	3	0	0	9	0	7	7	0	1	0	3	0	27	2.4%
Not stated	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
Oldham (NCA)	512	0	0	0	13	0	4	24	0	1	0	2	0	44	8.6%
Southport & Ormskirk Hospital NHS Trust	82	0	0	0	0	0	1	0	0	1	0	0	0	2	2.4%
Stockport NHS FT	259	0	0	0	1	0	1	8	0	0	0	0	0	10	3.9%
Tameside And Glossop Integrated Care NHS FT	228	0	0	0	2	0	1	2	0	1	0	0	0	6	2.6%
University Hospitals of Morecambe Bay NHS FT	200	0	0	0	0	0	1	4	0	0	0	0	0	5	2.5%
Wrightington, Wigan and Leigh NHS FT	283	1	0	0	0	0	1	4	0	1	0	1	0	7	2.5%
<b>Grand Total</b>	<b>4416</b>	<b>11</b>	<b>4</b>	<b>0</b>	<b>39</b>	<b>0</b>	<b>26</b>	<b>79</b>	<b>1</b>	<b>9</b>	<b>0</b>	<b>11</b>	<b>0</b>	<b>169</b>	<b>3.8%</b>

\*Not included in calculation of avoidable repeats

**Table 3 – Avoidable repeats by current hospital (in-patients) for January 2024**

Current Hospital	Number of first samples received/ babies tested	Too soon after transfusion (<72 hours)*	Too young for reliable screening (≤ 4 days)	Blood spot 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
Burnley General Hospital	44	3	1	0	1	0	1	1	0	1	0	2	0	7	15.9%
Royal Bolton Hospital	44	2	0	0	1	0	1	1	0	0	0	0	0	3	6.8%
Blackpool Victoria Hospital	24	0	1	0	0	0	0	0	0	0	0	0	0	1	4.2%
Furness General Hospital	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
North Manchester General Hospital	17	1	0	0	2	0	0	0	0	0	0	0	0	2	11.8%
Not in hospital	3983	0	2	0	28	0	13	63	1	6	0	7	0	120	3.0%
Ormskirk & District General	6	0	0	0	0	0	0	0	0	1	0	0	0	1	16.7%
Royal Albert Edward Infirmary	17	1	0	0	0	0	0	2	0	0	0	0	0	2	11.8%
Royal Blackburn Hospital	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
Royal Lancaster Infirmary	14	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	55	0	0	0	3	0	2	6	0	0	0	0	0	11	20.0%
Royal Preston Hospital	30	2	0	0	0	0	1	2	0	0	0	0	0	3	10.0%
Stepping Hill Hospital	24	0	0	0	0	0	0	3	0	0	0	0	0	3	12.5%
St Mary's Hospital, Manchester	115	2	0	0	1	0	7	1	0	1	0	2	0	12	10.4%
Tameside General Hospital	12	0	0	0	1	0	1	0	0	0	0	0	0	2	16.7%
Wythenshawe Hospital	23	0	0	0	2	0	0	0	0	0	0	0	0	2	8.7%
<b>Grand Total</b>	<b>4416</b>	<b>11</b>	<b>4</b>	<b>0</b>	<b>39</b>	<b>0</b>	<b>26</b>	<b>79</b>	<b>1</b>	<b>9</b>	<b>0</b>	<b>11</b>	<b>0</b>	<b>169</b>	<b>3.8%</b>

\*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 January was 3.8% which is higher than December (2.7%). The most common reason for rejection of samples was insufficient blood, followed by a compressed/damaged sample. No Maternity Units met the achievable or acceptable standards.