

## Avoidable Repeat Rate for August 2022 for Newborn Blood Spot Screening - Manchester Laboratory

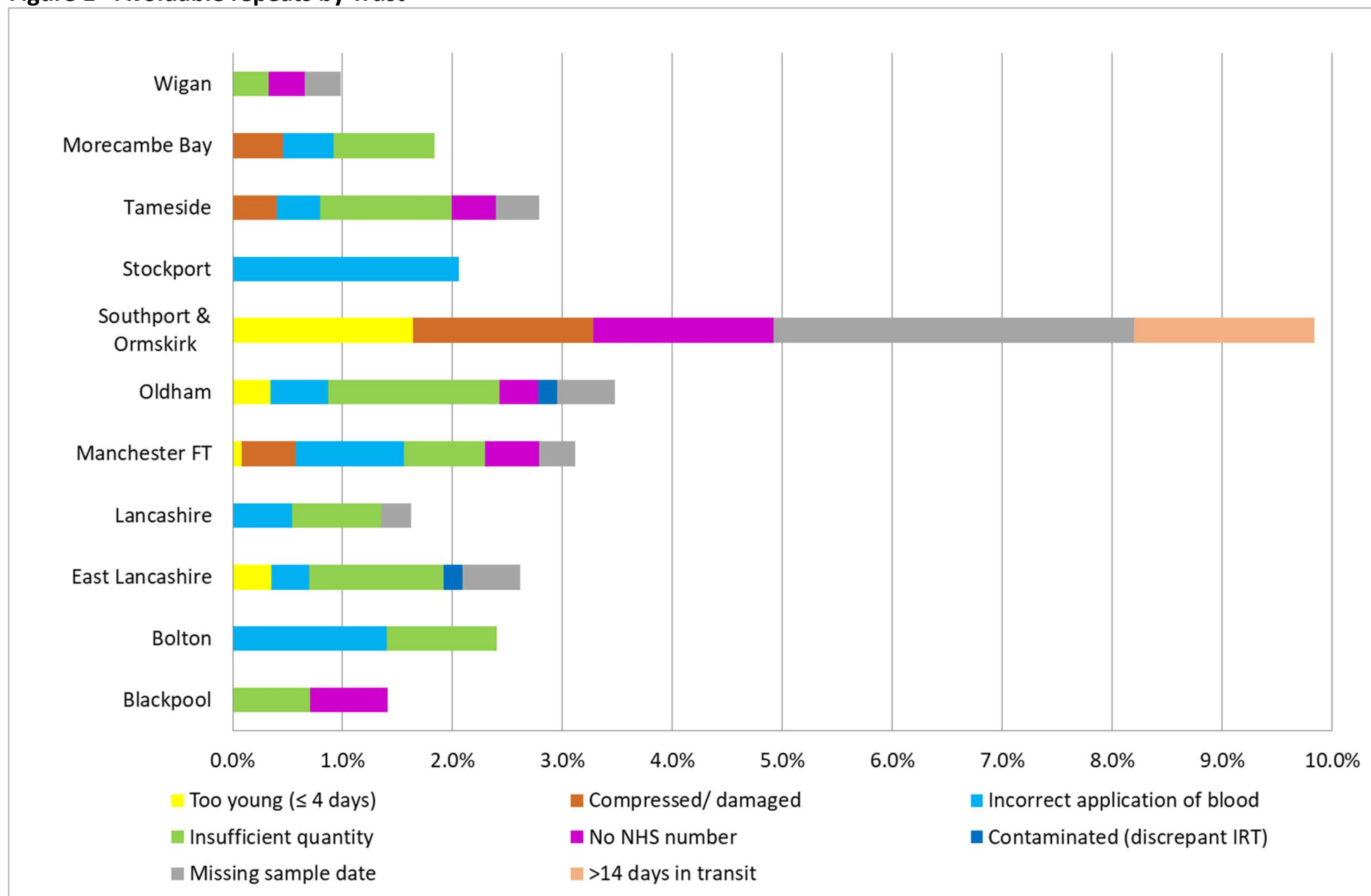
The avoidable repeat rate for samples received during August 2022 is displayed by Trust in Figure 1 and by current hospital (for in-patients) in Figure 2. The raw data is provided in Tables 2 and 3. The avoidable repeat rate is calculated by dividing the total number of avoidable repeats by the number of babies tested (i.e. first samples).

A list of trust codes is provided in Table 1.

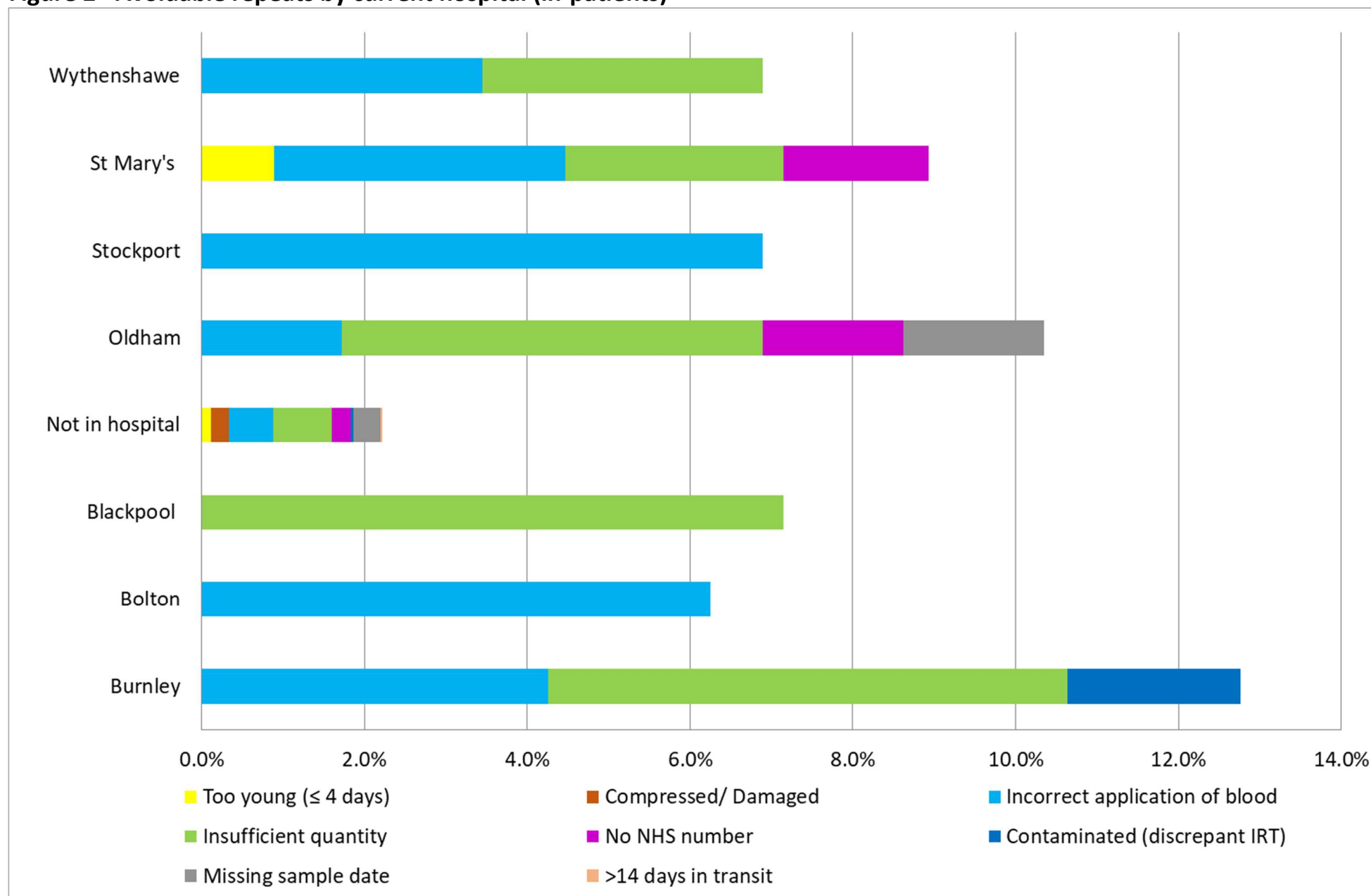
**Table 1**

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-ROA	MANCHESTER UNIVERSITY NHS FOUNDATION 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

**Figure 1 - Avoidable repeats by Trust**



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



There were no avoidable repeats for FUR, NMGH, OGDH, RAEI, RBH, RLI, RMCH, RPH and TGH.

**Table 2 – Avoidable repeats by Trust for August 2022**

Maternity Unit	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	283	0	0	0	0	0	0	2	0	2	0	0	0	4	1.4%
Bolton NHS FT	499	0	0	0	0	0	7	5	0	0	0	0	0	12	2.4%
East Lancashire Hospitals NHS Trust	573	0	2	0	0	0	2	7	0	0	1	3	0	15	2.6%
Lancashire Teaching Hospitals NHS FT	369	0	0	0	0	0	2	3	0	0	0	1	0	6	1.6%
Manchester University NHS FT - SMH, RMCH, WH, NMGH	1221	2	1	0	6	0	12	9	0	6	0	4	0	38	3.1%
Health Visitor	53	0	0	0	0	0	3	1	0	0	0	0	0	4	7.5%
Not Stated	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
Oldham (NCA)	576	1	2	0	0	0	3	9	0	2	1	3	0	20	3.5%
Southport & Ormskirk Hospital NHS Trust	61	0	1	0	1	0	0	0	1	1	0	2	0	6	9.8%
Stockport NHS FT	243	0	0	0	0	0	5	0	0	0	0	0	0	5	2.1%
Tameside And Glossop Integrated Care NHS FT	251	0	0	0	1	0	1	3	0	1	0	1	0	7	2.8%
University Hospitals of Morecambe Bay NHS FT	218	0	0	0	1	0	1	2	0	0	0	0	0	4	1.8%
Wrightington, Wigan and Leigh NHS FT	305	0	0	0	0	0	0	1	0	1	0	1	0	3	1.0%
<b>Grand Total</b>	<b>4653</b>	<b>3</b>	<b>6</b>	<b>0</b>	<b>9</b>	<b>0</b>	<b>36</b>	<b>42</b>	<b>1</b>	<b>13</b>	<b>2</b>	<b>15</b>	<b>0</b>	<b>124</b>	<b>2.7%</b>

\*Not included in calculation of avoidable repeats

**Table 3 – Avoidable repeats by current hospital (in-patients) for August 2022**

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	2	3	0	0	1	0	0	6	12.8%
Royal Bolton Hospital	48	0	0	0	0	0	3	0	0	0	0	0	0	3	6.3%
Blackpool Victoria Hospital	28	0	0	0	0	0	0	2	0	0	0	0	0	2	7.1%
Furness General Hospital	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
North Manchester General Hospital	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
Not in hospital	4187	0	5	0	9	0	23	30	1	10	1	14	0	93	2.2%
Ormskirk & District General	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
Royal Albert Edward Infirmary	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
Royal Blackburn Hospital	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
Royal Lancaster Infirmary	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
Royal Manchester Childrens Hospital	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
Royal Oldham Hospital	58	1	0	0	0	0	1	3	0	1	0	1	0	6	10.3%
Royal Preston Hospital	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
Stepping Hill Hospital	29	0	0	0	0	0	2	0	0	0	0	0	0	2	6.9%
St Mary's Hospital, Manchester	112	2	1	0	0	0	4	3	0	2	0	0	0	10	8.9%
Tameside General Hospital	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
Wythenshawe Hospital	29	0	0	0	0	0	1	1	0	0	0	0	0	2	6.9%
Grand Total	4653	3	6	0	9	0	36	42	1	13	2	15	0	124	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 August was 2.7% which is higher than July (2.4%). The most common reason for rejection of samples was insufficient blood, followed by incorrect application of blood (multi-spotting). Four Maternity Units met the standard, and Wigan met the achievable threshold.