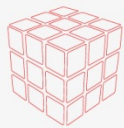


24 / 7 Blood Bank Sustainability in Scottish Hospitals

Rachel Green

Associate Medical Director
Scottish National Blood Transfusion Service

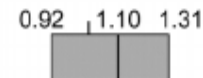


Emergency medical admissions, deaths at weekends and the public holiday effect. Cohort study Emerg Med J 2014;**31**:1 30-34 Published Online First: 23 January 2013

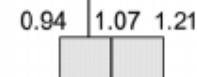


Weekend admission

7 Day

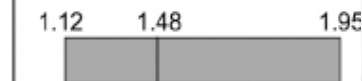


30 Day

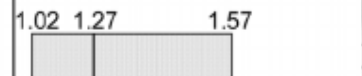


Public holiday admission

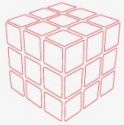
7 Day



30 Day



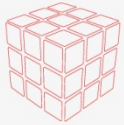
0.5 Less likely to die 1 More likely to die 2



Background

Medical literature first identified an increased death rate for admissions over the weekend period in 2013.

- In 2013 the Scottish Government set out a vision for seven day services.
- A taskforce was set up and met in April 2014
- They agreed that the delivery of appropriate seven day services would improve patient care and clinical outcomes by ensuring the right people were available to deliver the right care, in the right place at the right time.

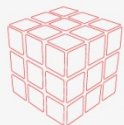


Focused on

- Major Trauma
 - Critical Care
 - Acute Surgery Acute medicine
 - Coronary care
 - Maternity and Neonates
 - Diagnostics and Investigations
 - Primary Care.
- Define what is meant by 7 day services
 - Define the requirement for 7 day service in those areas
 - Gap analysis
 - Identify the steps needed to ensure sustainable 7 day services across NHSScotland

All diagnostic specialties received a questionnaire which unfortunately did not identify blood transfusion separately from other Laboratory disciplines.

SNBTS asked to perform a risk assessment of Scottish blood banks and their ability to sustain a 24/7 service.



External Environment

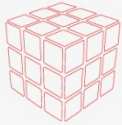
Within Transfusion medicine there has been a steady increase in regulatory burden on laboratory services.

Regulations such as

- The blood safety and quality regulations
- European Blood Directive
- British Committee of Standards in Haematology Guidelines
- ISO-15189(2012) Medical Laboratory Requirement for Quality and Competence
- UK Transfusion Laboratory Collaborative 2014

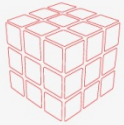
Challenging in an environment where pressure is being place on multi-skilling staff across laboratory disciplines.

How can we ensure long term resilience in the face of the challenges?



SNBTS Action Plan

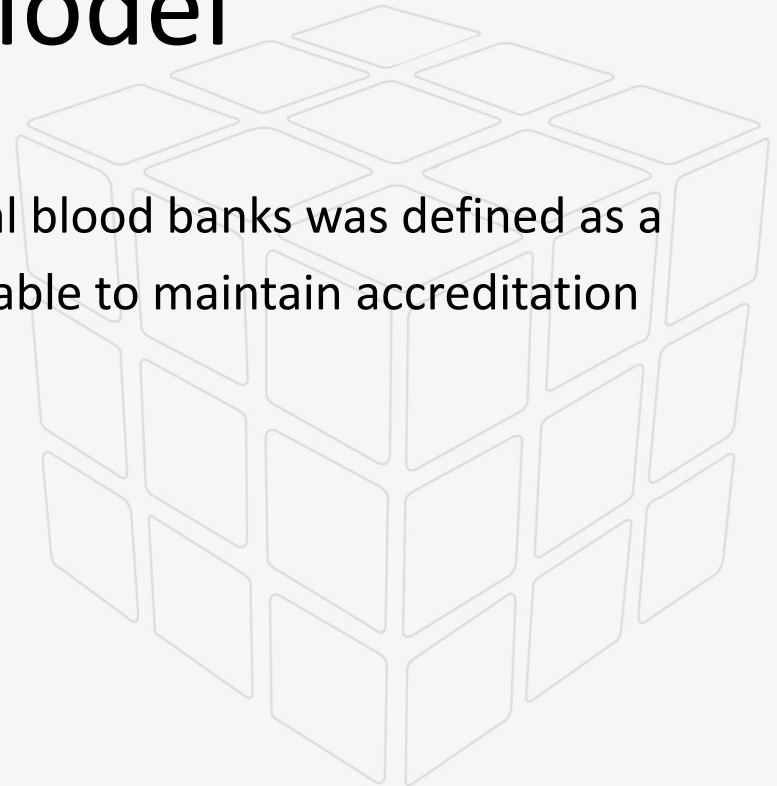
- SNBTS sent out a first questionnaire to all 32 Stock holding Blood Banks across Scotland to assess them against the BSQR
- From those replies a Risk assessment Matrix was developed to allow hospitals to score themselves against the guidelines/recommendations
- Matrix included staffing /activity /training /quality support - currently and at 5 years



Risk Model

The risk of 24/7 sustainability for hospital blood banks was defined as a loss of service provision due to being unable to maintain accreditation (BSQR/UKTLC/UKAS).

- Calculator spreadsheet
- A Likelihood Score Table
- An Impact Score Table



Hospital Name:

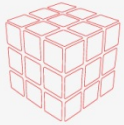
	Factor	Hospital Score	
A.	Activity	Current Situation	Projected Status in 5 years
1	Activity v supporting a high level clinical environment		
	Hospital Definition	0	0
	Does your hospital have an A&E on site- enter Y/N		
	Does it have an Obstetric unit on site- enter Y/N		
	How many major haemorrhages do you have in a week approximately		
2	Level of Service	0	0
3	Manual v automated techniques		
		0	0
4	Inter phases to the Laboratory Information System		
		0	0
5	Level of Investigation for antibody screens		
		0	0
B.	Staffing		
6	Staffing levels that can cover out of hours in the Blood Bank		
		0	0
7	Dedicated Blood Bank staff		
		0	0
8	Multidisciplinary team		
		0	0
9	Lone working		
		0	0
10	Recruitment / Supply of operational staff		
	Operational staff within the Blood bank	0	0
11	Recruitment / Supply of Managers		
	Managerial staff within the Blood bank	0	0
12	Loss of Knowledge/expertise of		
	Operational staff within the Blood bank(AfC Bands 2 - 6)		
13	Managerial staff within the Blood bank(AfC Bands 2 - 6)	0	0
C	Staff Training		
14	Proportion of staff with qualifications that satisfy the UK Transfusion Laboratory Standards		
		0	0
15	Transfusion Refresher Training – What % of staff undertake annual updates/competency re-evaluation		
		0	0
16	Do you think there is a risk to sustaining your blood bank services over the next 5 years		
		0	0
17	Do you think there is a risk to maintaining compliance with the BSQR?		
		0	0
18	Do you think there is a risk to achieving compliance with the UK Transfusion Laboratory Standards?		
		0	0
D	Quality and Training Support		
19	Quality manager		
		0	0
20	Training Support		
		0	0
Likelihood Total		0	0
Impact if regulatory compliance not achieved		0	0

B	Staffing													
6	Staffing levels that can cover out of hours in the Blood Bank	Score = 1	Score = 2	Score = 3	Score = 4									
		If your number of staff is greater than 20	If your number of staff is between 11 and 20	If your number of staff is between 5 and 10	If your number of staff is Less than 5									
7	Dedicated Blood Bank staff	Score = 1	Score = 2	Score = 3	Score = 4	Score = 5	Score = 6	Score = 7	Score = 8	Score = 9	Score = 10	Score = 11	Score = 12	Score = 13
		The blood bank is staffed 24/7 by staff who are dedicated to transfusion and no other area and are trained in transfusion with transfusion qualifications or demonstrated equivalence in keeping with the UK Transfusion laboratory Standards	The blood bank is staffed 24/7 by staff who are dedicated to transfusion and no other area and are trained in transfusion (in house training but some staff having transfusion qualifications or demonstrated equivalence in keeping with the UK Transfusion laboratory Standards	The blood bank is staffed 24/7 by staff who are dedicated to transfusion/haematology and no other area and are trained in transfusion with the blood bank managers having transfusion qualifications or demonstrated equivalence in keeping with the UK Transfusion laboratory Standards	The blood bank is staffed 24/7 by staff who are dedicated to transfusion/haematology and no other area and are trained in transfusion (in house training only with no transfusion qualifications)	The blood bank is staffed over an extended working day by staff who are dedicated to transfusion and no other area and are trained in transfusion with transfusion qualifications or demonstrated equivalence in keeping with the UK Transfusion laboratory Standards	The blood bank is staffed over an extended working day by staff who are dedicated to transfusion and no other area and are trained in transfusion (in house training but some staff have transfusion qualifications or demonstrated equivalence in keeping with the UK Transfusion laboratory Standards	The blood bank is staffed over an extended working day by staff who are dedicated to transfusion/haematology and no other area and are trained in transfusion with the blood bank managers having transfusion qualifications or demonstrated equivalence in keeping with the UK Transfusion laboratory Standards	The blood bank is staffed during an extended working day by staff who are dedicated to transfusion/haematology and no other area and are trained in transfusion (in house training only with no transfusion qualifications)	The blood bank is staffed during the day (7/8 hrs) by staff who are dedicated to transfusion and no other area and are trained in transfusion with transfusion qualifications or demonstrated equivalence in keeping with the UK Transfusion laboratory Standards	The blood bank is staffed during the day (7/8 hrs) by staff who are dedicated to transfusion/haematology and no other area and are trained in transfusion (in house training but some have transfusion qualifications or demonstrated equivalence in keeping with the UK Transfusion laboratory Standards	The blood bank is staffed during the day (7/8hrs) by staff who are dedicated to transfusion/haematology and no other area and are trained in transfusion (in house training only with no transfusion qualifications)	The blood bank is staffed during the day only(7/8hrs) by staff who are dedicated to transfusion/haematology and no other area and are trained in transfusion with the blood bank managers having transfusion qualifications or demonstrated equivalence in keeping with the UK Transfusion laboratory Standards	There are no dedicated staff. A multi disciplinary team covers blood banking

Service Delivery Impact Guide

The guide is to help assess what the impact might be of not achieving compliance with the Blood Safety and Quality Regulations (BSQR), the UK Transfusion Laboratory Standards Collaborative (UKTLC) and the other accreditation requirements(CPA/UKAS) on providing a Blood bank service

Impact Guide		
Score	Description	Service Delivery
1	Negligible	<p>There may be some interruption to a Blood Bank Service which does not directly impact on the delivery of services to the patient/donor or the ability to continue to provide a clinical service. No obvious harm to the patient/donor/public.</p> <p>Very low impact – no blood bank service disruption including out of hours provision.</p> <p>Competent/trained staff are easily resourced and there is sufficient leadership and funding to manage the situation of any non compliance</p>
2	Minor	<p>There may be some interruption to a Blood Bank service and could impact on the delivery of services to the patient/donor. No obvious harm to the patient/donor/public.</p> <p>low impact – some blood bank service disruption including out of hours provision but it can be easily remedied. Short term solutions required.</p> <p>Competent/trained staff are easily resourced and there is sufficient leadership and funding to manage the situation of any non compliance</p>
3	Moderate	<p>There is an impact on the delivery of Blood bank services to the patient/donor or the ability to continue to provide a clinical service. Services may need to be reviewed and reduced accordingly. Interim solutions will need to be put in place</p> <p>Medium impact – considerable amount of blood bank service disruption including out of hours provision. Additional support and planning may be required within the hospital trust to reorganise workload between sites etc. Longer term solutions required.</p> <p>Maintaining competency is challenging to the expected standards but staff are still able to carry out the relevant tasks. Additional resources will be required but can be found within existing budgets.</p>
4	Major	<p>There is a major impact on the delivery of blood bank services to the patient/donor or the ability to continue to provide a clinical service. Services may need to be stopped or greatly reduced.</p> <p>Major impact – major blood bank service disruption. Out of hours service stopped and may not be sustainable in the long term.</p> <p>A major service provision review would be required to deliver a blood bank service to the patient.</p> <p>Staff competency cannot be maintained to the expected standards and therefore cannot be allowed to undertake their blood bank duties. Additional resources will definitely be required.</p>
5	Catastrophic	<p>There is a severe impact on the delivery of blood bank services to the patient/donor. The blood Bank service will need to be stopped.</p> <p>The workforce does not have the necessary knowledge and skills needed to operate a blood bank service.</p>



Purpose

- To risk assess the current service
- and what using own knowledge the risk in 5 years.



SNBTS Blood Bank Sustainability 2014-15

Map of Blood Banks in Scotland

Blood Bank Dashboard

Blood Bank Rank

Key Risk question responses

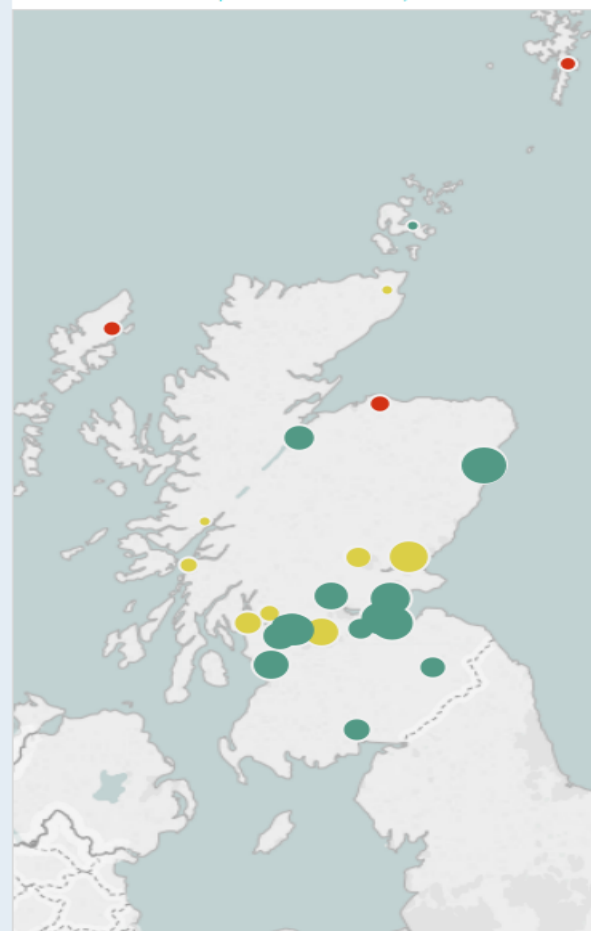
Analysis of Blood Banks requesting assistance

National Chart

Size = RBC Transfused, Colour = Overall Risk status

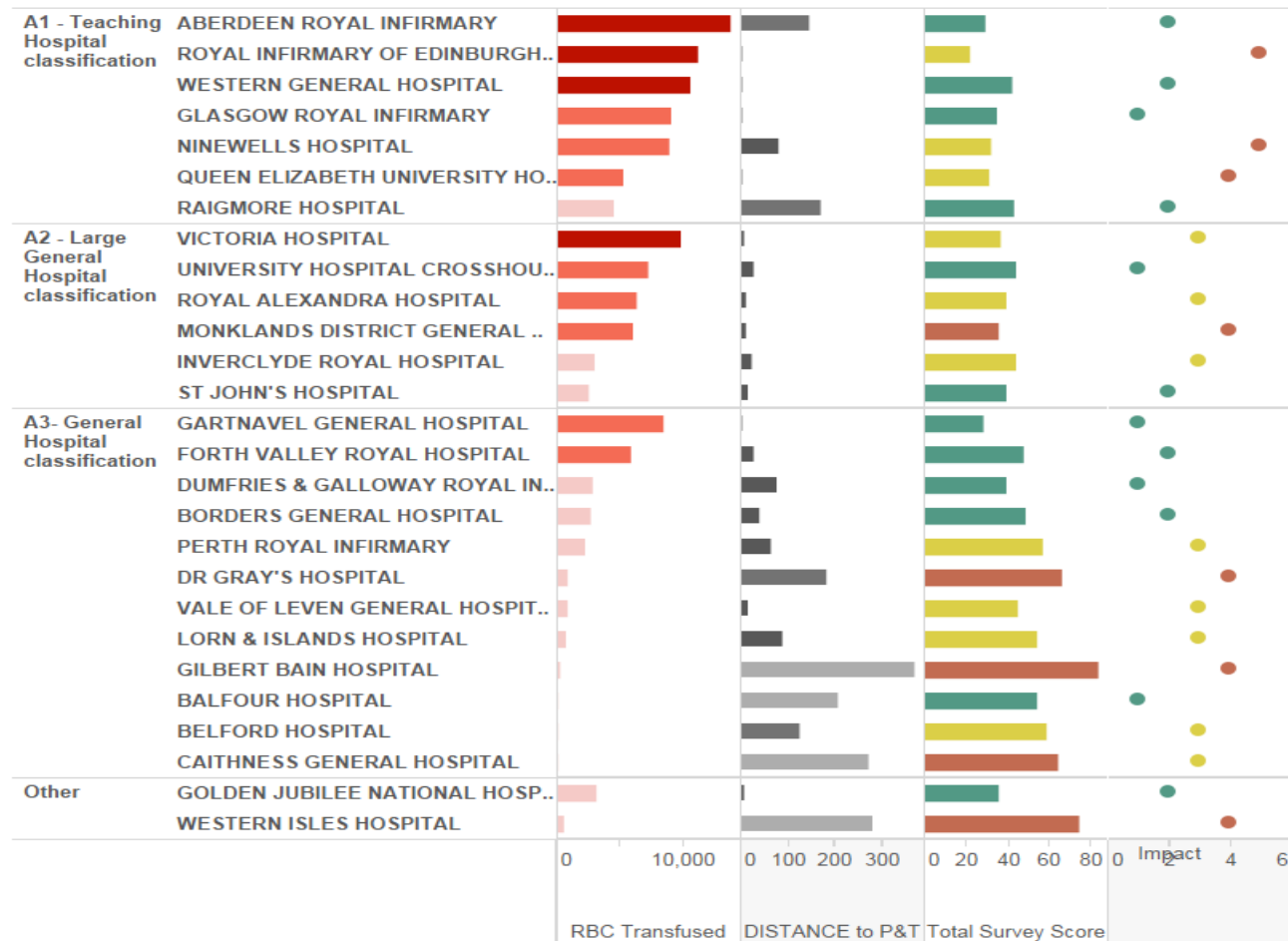
Select to pinpoint your location, or

CTRL + Select to compare more than one)



Select Your Locations

(CTRL + Select to compare more than one)



SNBTS Blood Bank Sustainability 2014-15

Map of Blood Banks in Scotland

Blood Bank Dashboard

Blood Bank Rank

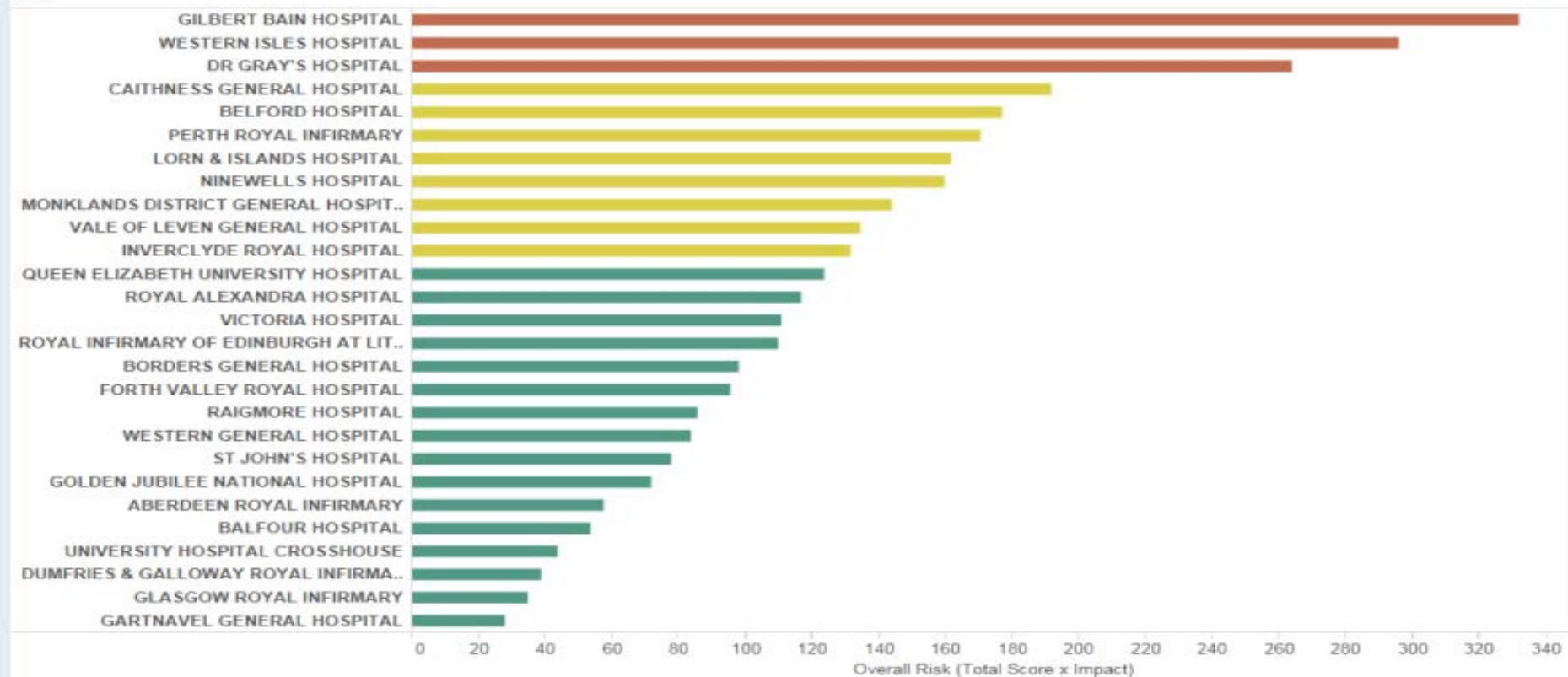
Key Risk question responses

Analysis of Blood Banks requesting assistance

Sites in order of Business Risk

(Total Score x Total Impact)

Risk



SNBTS Blood Bank Sustainability 2014-15

Map of Blood Banks in Scotland

Blood Bank Dashboard

Blood Bank Rank

Key Risk question responses

Analysis of Blood Banks requesting assistance

Key Areas of Concern

Risk List (highest to lowest risk)

Recruitment / Supply of Managerial staff within the Blood bank

Staffing levels that can cover out of hours in the Blood Bank

Recruitment / Supply of Operational staff within the Blood bank

Risk to sustaining your blood bank services over the next 5 years

Risk to achieving compliance with the UK Transfusion Laboratory Standards?

Training Support

Dedicated Blood Bank staff

Manual v automated techniques

Level of Investigation for antibody screens

Multidisciplinary team

Lone working

Proportion of staff with qualifications that satisfy the UK Transfusion Laboratory Standards?

Quality manager

Risk to maintaining compliance with the BSQR?

Interfaces to the Laboratory information System

Loss of Knowledge/expertise of Operational BB Staff

Loss of Managerial Staff within the Blood Bank

Level of Service

Transfusion Refresher Training – What % of staff undertake annual updates/co

Risk level by hospital

ABERDEEN ROYAL INFIRMARY	FORTH VALLEY ROYAL HOSPITAL		GLASGOW ROYAL INFIRMARY	GOLDEN JUBILEE NATIONAL HOSPITAL	
BELFORD HOSPITAL					
	LORN & ISLANDS HOSPITAL		ROYAL ALEXANDRA HOSPITAL	ROYAL INFIRMARY OF EDINBURGH AT LITTLE FRANCE	ST JOHN'S HOSPITAL
BORDERS GENERAL HOSPITAL	MONKLANDS DISTRICT GENERAL HOSPITAL				
CAITHNESS GENERAL HOSPITAL	NINEWELLS HOSPITAL		UNIVERSITY HOSPITAL CROSSHOUSE		
DUMFRIES & GALLOWAY ROYAL INFIRMARY	PERTH ROYAL INFIRMARY		VALE OF LEVEN GENERAL HOSPITAL		
BALFOUR HOSPITAL		GILBERT BAIN HOSPITAL		WESTERN ISLES HOSPITAL	
DR GRAY'S HOSPITAL		RAIGMORE HOSPITAL			

Map of Blood Banks in Scotland

Blood Bank Dashboard

Blood Bank Rank

Key Risk question responses

Analysis of Blood Banks requesting assistance

Key Areas of Concern

Risk List (highest to lowest risk)

Recruitment / Supply of Managerial staff within the Blood bank
Staffing levels that can cover out of hours in the Blood Bank
Recruitment / Supply of Operational staff within the Blood bank
Risk to sustaining your blood bank services over the next 5 years
Risk to achieving compliance with the UK Transfusion Laboratory Standards?
Training Support
Dedicated Blood Bank staff
Manual v automated techniques
Level of Investigation for antibody screens
Multidisciplinary team
Lone working
Proportion of staff with qualifications that satisfy the UK Transfusion Laboratory Standards?
Quality manager
Risk to maintaining compliance with the BSQR?
Interfaces to the Laboratory information System
Loss of Knowledge/expertise of Operational BB Staff
Loss of Managerial Staff within the Blood Bank
Level of Service
Transfusion Refresher Training – What % of staff undertake annual updates/co

Risk level by hospital

	BALFOUR	BELFORD	BORDERS GENERAL	GILBERT BAIN HOSPITAL	INVERCLYDE ROYAL HOSPITAL
		FORTH VALLEY ROYAL			
GLASGOW ROYAL INFIRMARY	PERTH ROYAL		ROYAL		
GOLDEN JUBILEE NATIONAL					
LORN & ISLANDS HOSPITAL	ST JOHN'S HOSPITAL			WESTERN ISLES HOSPITAL	
MONKLANDS DISTRICT GENERAL	UNIVERSITY HOSPITAL				
NINEWELLS HOSPITAL			DR GRAY'S HOSPITAL		VALE OF LEVEN
QUEEN ELIZABETH UNIVERSITY HOSPITAL			ROYAL ALEXANDRA HOSPITAL		

SNBTS Blood Bank Sustainability 2014-15

Map of Blood Banks in Scotland

Blood Bank Dashboard

Blood Bank Rank

Key Risk question responses

Analysis of Blood Banks requesting assistance

Key Areas of Concern

Risk List (highest to lowest risk)

Recruitment / Supply of Managerial staff within the Blood bank
Staffing levels that can cover out of hours in the Blood Bank
Recruitment / Supply of Operational staff within the Blood bank
Risk to sustaining your blood bank services over the next 5 years
Risk to achieving compliance with the UK Transfusion Laboratory Standards?
Training Support
Dedicated Blood Bank staff
Manual v automated techniques
Level of Investigation for antibody screens
Multidisciplinary team
Lone working
Proportion of staff with qualifications that satisfy the UK Transfusion Laboratory Standards?
Quality manager
Risk to maintaining compliance with the BSQR?
Interfaces to the Laboratory information System
Loss of Knowledge/expertise of Operational BB Staff
Loss of Managerial Staff within the Blood Bank
Level of Service
Transfusion Refresher Training – What % of staff undertake annual updates/co

Risk level by hospital

ABERDEEN ROYAL INFIRMARY	DUMFRIES &	FORTH VALLEY ROYAL HOSPITAL		BALFOUR HOSPITAL	BELFORD HOSPITAL
GLASGOW ROYAL INFIRMARY	GOLDEN JUBILEE NATIONAL HOSPITAL			CAITHNESS GENERAL HOSPITAL	GILBERT BAIN HOSPITAL
NINEWELLS HOSPITAL	ST JOHN'S HOSPITAL	VICTORIA HOSPITAL			
ROYAL ALEXANDRA HOSPITAL	UNIVERSITY HOSPITAL CROSSHOUSE	WESTERN GENERAL HOSPITAL		PERTH ROYAL INFIRMARY	
BORDERS GENERAL HOSPITAL		LORN & ISLANDS HOSPITAL		WESTERN ISLES HOSPITAL	QUEEN
DR GRAY'S HOSPITAL		RAIGMORE HOSPITAL			ROYAL

SNBTS Blood Bank Sustainability 2014-15

Map of Blood Banks in Scotland

Blood Bank Dashboard

Blood Bank Rank

Key Risk question responses

Analysis of Blood Banks requesting assistance

Key Areas of Concern

Risk List (highest to lowest risk)

Recruitment / Supply of Managerial staff within the Blood bank
Staffing levels that can cover out of hours in the Blood Bank
Recruitment / Supply of Operational staff within the Blood bank
Risk to sustaining your blood bank services over the next 5 years
Risk to achieving compliance with the UK Transfusion Laboratory Standards?
Training Support
Dedicated Blood Bank staff
Manual v automated techniques
Level of Investigation for antibody screens
Multidisciplinary team
Lone working
Proportion of staff with qualifications that satisfy the UK Transfusion Laboratory Standards?
Quality manager
Risk to maintaining compliance with the BSQR?
Interfaces to the Laboratory information System
Loss of Knowledge/expertise of Operational BB Staff
Loss of Managerial Staff within the Blood Bank
Level of Service
Transfusion Refresher Training – What % of staff undertake annual updates/competency updates?

Risk level by hospital

DR GRAY'S HOSPITAL	FORTH VALLEY ROYAL HOSPITAL	VALE OF LEVEN GENERAL HOSPITAL				
WESTERN GENERAL HOSPITAL	RAIGMORE HOSPITAL	UNIVERSITY HOSPITAL				
			LORN & ISLANDS HOSPITAL	QUEEN	ROYAL	
			MONKLANDS DISTRICT GENERAL HOSPITAL			
PERTH ROYAL INFIRMARY		VICTORIA HOSPITAL	NINEWELLS HOSPITAL	ST JOHN'S HOSPITAL		
				WESTERN ISLES HOSPITAL		
BORDERS GENERAL HOSPITAL		ROYAL ALEXANDRA HOSPITAL				GILBERT BAIN HOSPITAL
INVERCLYDE ROYAL HOSPITAL						

Map of Blood Banks in Scotland

Blood Bank Dashboard

Blood Bank Rank

Key Risk question responses

Analysis of Blood Banks requesting assistance

Key Areas of Concern

Risk List (highest to lowest risk)

Recruitment / Supply of Managerial staff within the Blood bank
Staffing levels that can cover out of hours in the Blood Bank
Recruitment / Supply of Operational staff within the Blood bank
Risk to sustaining your blood bank services over the next 5 years
Risk to achieving compliance with the UK Transfusion Laboratory Standards?
Training Support
Dedicated Blood Bank staff
Manual v automated techniques
Level of Investigation for antibody screens
Multidisciplinary team
Lone working
Proportion of staff with qualifications that satisfy the UK Transfusion Laboratory Standards?
Quality manager
Risk to maintaining compliance with the BSQR?
Interfaces to the Laboratory information System
Loss of Knowledge/expertise of Operational BB Staff
Loss of Managerial Staff within the Blood Bank
Level of Service
Transfusion Refresher Training – What % of staff undertake annual updates/co

Risk level by hospital

BORDERS GENERAL HOSPITAL	FORTH VALLEY ROYAL HOSPITAL	INVERCLYDE ROYAL HOSPITAL	BALFOUR HOSPITAL	DR GRAY'S HOSPITAL
LORN & ISLANDS HOSPITAL	ROYAL	ST JOHN'S HOSPITAL		
MONKLANDS DISTRICT GENERAL HOSPITAL			GILBERT BAIN HOSPITAL	WESTERN ISLES HOSPITAL
RAIGMORE HOSPITAL	VALE OF LEVEN GENERAL HOSPITAL			
CAITHNESS GENERAL HOSPITAL	PERTH ROYAL INFIRMARY			
GLASGOW ROYAL INFIRMARY	UNIVERSITY HOSPITAL CROSSHOUSE		GARTNAVEL GENERAL HOSPITAL	
GOLDEN JUBILEE NATIONAL HOSPITAL	VICTORIA HOSPITAL		NINEWELLS HOSPITAL	

Map of Blood Banks in Scotland

Blood Bank Dashboard

Blood Bank Rank

Key Risk question responses

Analysis of Blood Banks requesting assistance

Key Areas of Concern

Risk List (highest to lowest risk)

Recruitment / Supply of Managerial staff within the Blood bank
Staffing levels that can cover out of hours in the Blood Bank
Recruitment / Supply of Operational staff within the Blood bank
Risk to sustaining your blood bank services over the next 5 years
Risk to achieving compliance with the UK Transfusion Laboratory Standards?
Training Support
Dedicated Blood Bank staff
Manual v automated techniques
Level of Investigation for antibody screens
Multidisciplinary team
Lone working
Proportion of staff with qualifications that satisfy the UK Transfusion Laboratory Standards?
Quality manager
Risk to maintaining compliance with the BSQR?
Interfaces to the Laboratory Information System
Loss of Knowledge/expertise of Operational BB Staff
Loss of Managerial Staff within the Blood Bank
Level of Service
Transfusion Refresher Training – What % of staff undertake annual updates/co

Risk level by hospital

BALFOUR HOSPITAL	BORDERS GENERAL HOSPITAL	CAITHNESS GENERAL HOSPITAL	ABERDEEN ROYAL INFIRMARY	BELFORD HOSPITAL	FORTH VALLEY ROYAL HOSPITAL
DR GRAY'S HOSPITAL	DUMFRIES & GALLOWAY ROYAL INFIRMARY	INVERCLYDE ROYAL HOSPITAL	GOLDEN JUBILEE NATIONAL HOSPITAL		NIWEWELL S HOSPITAL
PERTH ROYAL INFIRMARY		WESTERN GENERAL HOSPITAL	QUEEN ELIZABETH UNIVERSITY HOSPITAL		ST JOHN'S HOSPITAL
UNIVERSITY HOSPITAL CROSSHOUSE			RAIGMORE HOSPITAL		VALE OF LEVEN GENERAL HOSPITAL
GILBERT BAIN HOSPITAL	WESTERN ISLES HOSPITAL			LORN & ISLANDS	ROYAL
			GLASGOW ROYAL INFIRMARY	VICTORIA HOSPITAL	

SNBTS Blood Bank Sustainability 2014-15

Map of Blood Banks in Scotland

Blood Bank Dashboard

Blood Bank Rank

Key Risk question responses

Analysis of Blood Banks requesting assistance

Key Areas of Concern

Risk List (highest to lowest risk)

Recruitment / Supply of Managerial staff within the Blood bank
Staffing levels that can cover out of hours in the Blood Bank
Recruitment / Supply of Operational staff within the Blood bank
Risk to sustaining your blood bank services over the next 5 years
Risk to achieving compliance with the UK Transfusion Laboratory Standards?
Training Support
Dedicated Blood Bank staff
Manual v automated techniques
Level of Investigation for antibody screens
Multidisciplinary team
Lone working
Proportion of staff with qualifications that satisfy the UK Transfusion Laboratory Standards?
Quality manager
Risk to maintaining compliance with the BSQR?
Interfaces to the Laboratory information System
Loss of Knowledge/expertise of Operational BB Staff
Loss of Managerial Staff within the Blood Bank
Level of Service
Transfusion Refresher Training – What % of staff undertake annual updates/competence?

Risk level by hospital

BALFOUR HOSPITAL		DR GRAY'S HOSPITAL		FORTH VALLEY ROYAL HOSPITAL		GILBERT BAIN HOSPITAL	
BELFORD HOSPITAL		LORN & ISLANDS HOSPITAL		UNIVERSITY HOSPITAL CROSSHOUSE		VICTORIA HOSPITAL	
BORDERS GENERAL HOSPITAL							
CAITHNESS GENERAL HOSPITAL		ST JOHN'S HOSPITAL		WESTERN GENERAL HOSPITAL			
ABERDEEN ROYAL INFIRMARY	GOLDEN JUBILEE NATIONAL	QUEEN	ROYAL	RAIGMORE HOSPITAL			
DUMFRIES & GALLOWAY ROYAL	INVERCLYDE ROYAL HOSPITAL	ROYAL INFIRMARY OF EDINBURGH					
GARTNAVEL GENERAL HOSPITAL	NINEWELLS HOSPITAL						
GLASGOW ROYAL INFIRMARY	PERTH ROYAL INFIRMARY	VALE OF LEVEN GENERAL HOSPITAL		MONKLANDS DISTRICT GENERAL HOSPITAL			

Map of Blood Banks in Scotland

Blood Bank Dashboard

Blood Bank Rank

Key Risk question responses

Analysis of Blood Banks requesting assistance

Key Areas of Concern

Risk List (highest to lowest risk)

Recruitment / Supply of Managerial staff within the Blood bank
Staffing levels that can cover out of hours in the Blood Bank
Recruitment / Supply of Operational staff within the Blood bank
Risk to sustaining your blood bank services over the next 5 years
Risk to achieving compliance with the UK Transfusion Laboratory Standards?
Training Support
Dedicated Blood Bank staff
Manual v automated techniques
Level of Investigation for antibody screens
Multidisciplinary team
Lone working
Proportion of staff with qualifications that satisfy the UK Transfusion Laboratory Standards?
Quality manager
Risk to maintaining compliance with the BSQR?
Interfaces to the Laboratory information System
Loss of Knowledge/expertise of Operational BB Staff
Loss of Managerial Staff within the Blood Bank
Level of Service
Transfusion Refresher Training – What % of staff undertake annual updates/co

Risk level by hospital

BALFOUR HOSPITAL	BELFORD HOSPITAL	CAITHNESS GENERAL HOSPITAL	DUMFRIES & GALLOWAY ROYAL INFIRMARY	FORTH VALLEY ROYAL HOSPITAL	GOLDEN JUBILEE NATIONAL HOSPITAL		
DR GRAY'S HOSPITAL	GARTNAVEL GENERAL HOSPITAL	INVERCLYDE ROYAL HOSPITAL	LORN & ISLANDS HOSPITAL				
MONKLANDS DISTRICT GENERAL HOSPITAL	ROYAL ALEXANDRA HOSPITAL					PERTH ROYAL INFIRMARY	
QUEEN ELIZABETH UNIVERSITY HOSPITAL							
RAIGMORE HOSPITAL							
GILBERT BAIN HOSPITAL		WESTERN ISLES HOSPITAL		ABERDEEN ROYAL INFIRMARY	ROYAL		
				BORDERS GENERAL HOSPITAL			
				GLASGOW ROYAL INFIRMARY		VICTORIA HOSPITAL	

SNBTS Blood Bank Sustainability 2014-15

Map of Blood Banks in Scotland

Blood Bank Dashboard

Blood Bank Rank

Key Risk question responses

Analysis of Blood Banks requesting assistance

Key Areas of Concern

Risk List (highest to lowest risk)

Recruitment / Supply of Managerial staff within the Blood bank
Staffing levels that can cover out of hours in the Blood Bank
Recruitment / Supply of Operational staff within the Blood bank
Risk to sustaining your blood bank services over the next 5 years
Risk to achieving compliance with the UK Transfusion Laboratory Standards?
Training Support
Dedicated Blood Bank staff
Manual v automated techniques
Level of Investigation for antibody screens
Multidisciplinary team
Lone working
Proportion of staff with qualifications that satisfy the UK Transfusion Laboratory Standards
Quality manager
Risk to maintaining compliance with the BSQR?
Interfaces to the Laboratory information System
Loss of Knowledge/expertise of Operational BB Staff
Loss of Managerial Staff within the Blood Bank
Level of Service
Transfusion Refresher Training – What % of staff undertake annual updates/competency

Risk level by hospital

DR GRAY'S HOSPITAL	GILBERT BAIN HOSPITAL	WESTERN ISLES HOSPITAL			
					QUEEN
				ROYAL	ROYAL
GLASGOW ROYAL INFIRMARY		PERTH ROYAL INFIRMARY	ST JOHN'S HOSPITAL	VICTORIA HOSPITAL	
			UNIVERSITY HOSPITAL	WESTERN GENERAL HOSPITAL	
			VALE OF LEVEN GENERAL		
BORDERS GENERAL HOSPITAL	LORN & ISLANDS HOSPITAL		BALFOUR HOSPITAL	FORTH VALLEY ROYAL HOSPITAL	
DUMFRIES & GALLOWAY ROYAL INFIRMARY			CAITHNESS GENERAL HOSPITAL		
	GARTNAVEL GENERAL HOSPITAL				

Map of Blood Banks in Scotland

Blood Bank Dashboard

Blood Bank Rank

Key Risk question responses

Analysis of Blood Banks requesting assistance

Key Areas of Concern

Risk List (highest to lowest risk)

Recruitment / Supply of Managerial staff within the Blood bank
Staffing levels that can cover out of hours in the Blood Bank
Recruitment / Supply of Operational staff within the Blood bank
Risk to sustaining your blood bank services over the next 5 years
Risk to achieving compliance with the UK Transfusion Laboratory Standards?
Training Support
Dedicated Blood Bank staff
Manual v automated techniques
Level of Investigation for antibody screens
Multidisciplinary team
Lone working
Proportion of staff with qualifications that satisfy the UK Transfusion Laboratory Standards?
Quality manager
Risk to maintaining compliance with the BSQR?
Interfaces to the Laboratory information System
Loss of Knowledge/expertise of Operational BB Staff
Loss of Managerial Staff within the Blood Bank
Level of Service
Transfusion Refresher Training – What % of staff undertake annual updates/co

Risk level by hospital

LORN & ISLANDS HOSPITAL	VALE OF LEVEN GENERAL HOSPITAL	BELFORD HOSPITAL	CAITHNESS GENERAL HOSPITAL
PERTH ROYAL INFIRMARY	BALFOUR HOSPITAL	DR GRAY'S HOSPITAL	
WESTERN ISLES HOSPITAL		GILBERT BAIN HOSPITAL	
FORTH VALLEY ROYAL HOSPITAL	GLASGOW ROYAL INFIRMARY		UNIVERSITY HOSPITAL CROSSHOUSE
QUEEN ELIZABETH UNIVERSITY HOSPITAL	GOLDEN JUBILEE NATIONAL HOSPITAL	ROYAL ALEXANDRA HOSPITAL	
DUMFRIES & GALLOWAY ROYAL		ST JOHN'S HOSPITAL	BORDERS GENERAL HOSPITAL
		ROYAL	

Map of Blood Banks in Scotland

Blood Bank Dashboard

Blood Bank Rank

Key Risk question responses

Analysis of Blood Banks requesting assistance

Key Areas of Concern

Risk List (highest to lowest risk)

Recruitment / Supply of Managerial staff within the Blood bank
Staffing levels that can cover out of hours in the Blood Bank
Recruitment / Supply of Operational staff within the Blood bank
Risk to sustaining your blood bank services over the next 5 years
Risk to achieving compliance with the UK Transfusion Laboratory Standards?
Training Support
Dedicated Blood Bank staff
Manual v automated techniques
Level of Investigation for antibody screens
Multidisciplinary team
Lone working
Proportion of staff with qualifications that satisfy the UK Transfusion Laboratory Standards?
Quality manager
Risk to maintaining compliance with the BSQR?
Interfaces to the Laboratory information System
Loss of Knowledge/expertise of Operational BB Staff
Loss of Managerial Staff within the Blood Bank
Level of Service
Transfusion Refresher Training – What % of staff undertake annual updates/co

Risk level by hospital

ABERDEEN ROYAL INFIRMARY	INVERCLYDE ROYAL HOSPITAL	LORN & ISLANDS HOSPITAL	MONKLANDS DISTRICT GENERAL HOSPITAL	PERTH ROYAL INFIRMARY
DR GRAY'S HOSPITAL				
	RAIGMORE HOSPITAL	WESTERN GENERAL HOSPITAL	BELFORD	
DUMFRIES & GALLOWAY ROYAL INFIRMARY				
	ROYAL ALEXANDRA HOSPITAL			
GILBERT BAIN HOSPITAL		CAITHNESS GENERAL HOSPITAL		
	ST JOHN'S HOSPITAL			
GLASGOW ROYAL INFIRMARY		GARTNAVEL GENERAL HOSPITAL		
FORTH VALLEY ROYAL HOSPITAL	NINEWELLS HOSPITAL	BALFOUR HOSPITAL	ROYAL INFIRMARY OF	VALE OF LEVEN GENERAL HOSPITAL
		QUEEN ELIZABETH		VICTORIA HOSPITAL

SNBTS Blood Bank Sustainability 2014-15

Map of Blood Banks in Scotland

Blood Bank Dashboard

Blood Bank Rank

Key Risk question responses

Analysis of Blood Banks requesting assistance

Key Areas of Concern

Risk List (highest to lowest risk)

Recruitment / Supply of Managerial staff within the Blood bank
Staffing levels that can cover out of hours in the Blood Bank
Recruitment / Supply of Operational staff within the Blood bank
Risk to sustaining your blood bank services over the next 5 years
Risk to achieving compliance with the UK Transfusion Laboratory Standards?
Training Support
Dedicated Blood Bank staff
Manual v automated techniques
Level of Investigation for antibody screens
Multidisciplinary team
Lone working
Proportion of staff with qualifications that satisfy the UK Transfusion Laboratory Standards?
Quality manager
Risk to maintaining compliance with the BSQR?
Interfaces to the Laboratory information System
Loss of Knowledge/expertise of Operational BB Staff
Loss of Managerial Staff within the Blood Bank
Level of Service
Transfusion Refresher Training – What % of staff undertake annual updates/competence?

Risk level by hospital

BORDERS GENERAL HOSPITAL	PERTH ROYAL INFIRMARY	QUEEN ELIZABETH UNIVERSITY HOSPITAL	UNIVERSITY HOSPITAL CROSSHOUSE	VICTORIA HOSPITAL
FORTH VALLEY ROYAL HOSPITAL				
GOLDEN JUBILEE NATIONAL HOSPITAL	BALFOUR HOSPITAL	DR GRAY'S HOSPITAL	GILBERT BAIN HOSPITAL	
	BELFORD HOSPITAL			
LORN & ISLANDS HOSPITAL	CAITHNESS GENERAL HOSPITAL	MONKLANDS DISTRICT GENERAL HOSPITAL	ROYAL ALEXANDRA HOSPITAL	VALE OF LEVEN GENERAL HOSPITAL
ABERDEEN ROYAL INFIRMARY	GLASGOW ROYAL INFIRMARY	ROYAL	ST JOHN'S	WESTERN ISLES HOSPITAL
DUMFRIES & GALLOWAY ROYAL	NINEWELLS HOSPITAL			
GARTNAVEL GENERAL HOSPITAL	RAIGMORE HOSPITAL	WESTERN GENERAL HOSPITAL		

Map of Blood Banks in Scotland

Blood Bank Dashboard

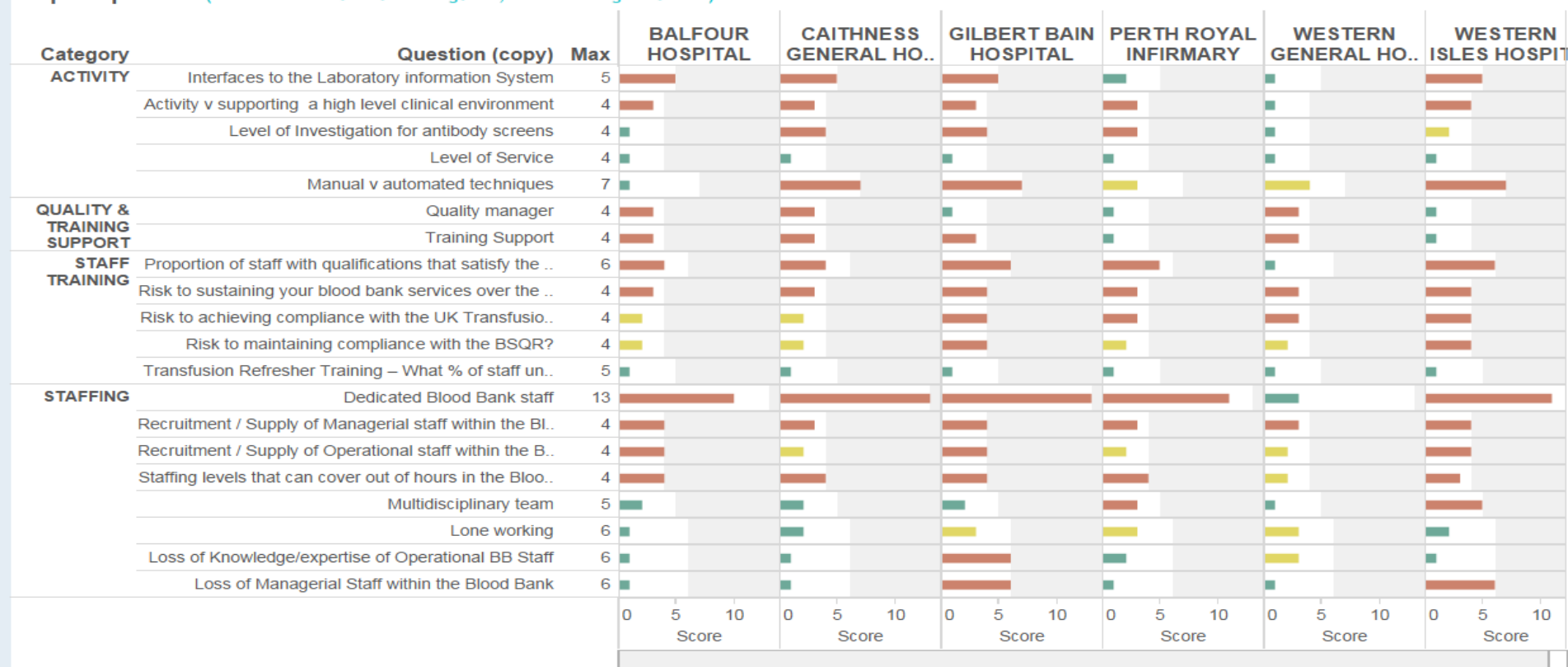
Blood Bank Rank

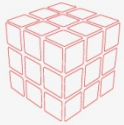
Key Risk question responses

Analysis of Blood Banks requesting assistance

Blood Banks Requesting Assistance

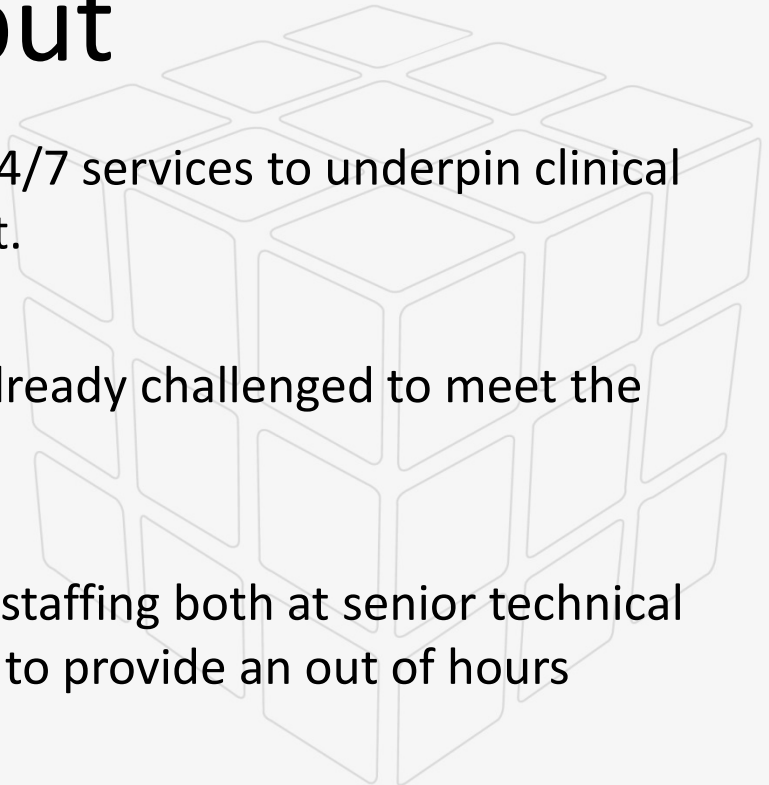
Help Requested (Size = number of score categories, Colour = degree of risk)

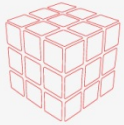




Output

- Hospital Blood Banks are providing 24/7 services to underpin clinical services on their sites where relevant.
- Several Hospitals feel that they are already challenged to meet the regulatory requirements.
- The biggest areas of concern involve staffing both at senior technical levels and sufficiency of trained staff to provide an out of hours service.

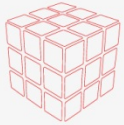




Actions

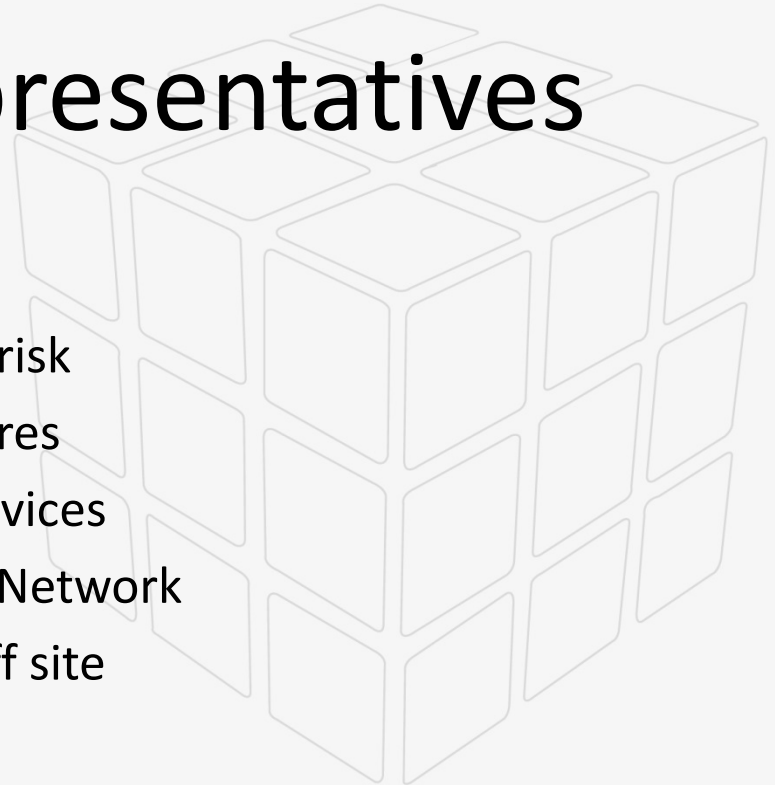
- Share results with individual hospitals.
- Prepare report for SGHD.
- Establish what hospitals would seek help with to ensure resilience going forward.

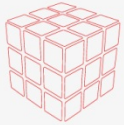




Engagement with Laboratory Representatives

- Validated outputs
- Actions which might mitigate risk
- National Policies and Procedures
- Centralisation of specialist services
- Transfusion Managed Clinical Network
- Availability of 24/7 services off site
- On line transfusion training
- QA support especially for remote and rural





Future Actions

SNBTS will seek resource to undertake review of issues and what it can provide to assist

