

Train-the-Trainer Workshop Abuja, Nigeria 11th – 13th September 2019

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WELCOME TO THE NHR

The National Haemoglobinopathy Registry (NHR) is a database of patients with red cell disorders (mainly Sickle Cell Disease and Thalassaemia Major) living in the UK. This new database collects data, which is required by the Department of Health from Haemoglobinopathy centres. The central aim of the registry is to improve patient care.



Established 2008

 Following commencement of National Antenatal and Neonatal Screening Programme in 2004

What does it do?

Data collection

All UK patients with major haemoglobinopathies/rare anaemias



What are the benefits of the NHR?

- Enhance monitoring of changing demographics
- Enhance service delivery Funding staff and infrastructure
- Improves patient outcomes
- Resource for research
- Good practice A template for limited resource countries

National Haemoglobinopathy Registry = NHR









Commissioned by NHS England via the Haemoglobinopathies CRG

The NHR Steering Group

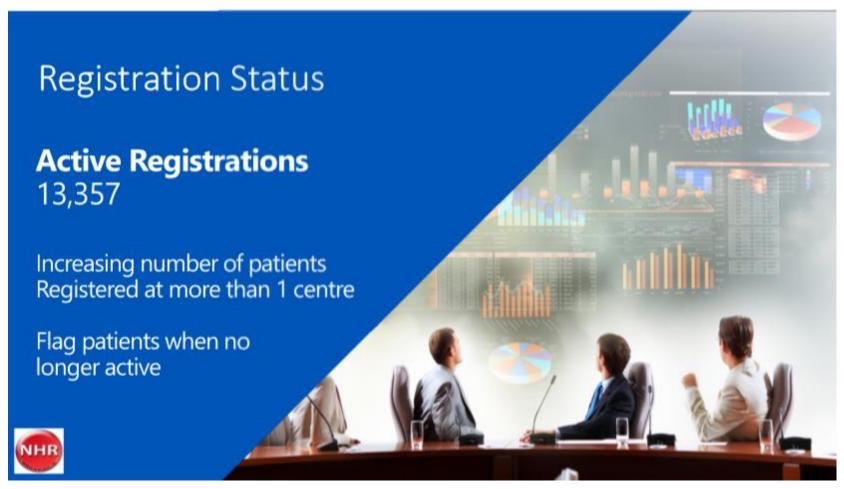
The NHR steering group oversee and guide all activities of the NHR. It has a broad membership giving all stakeholders an input into the running of the registry. Stakeholders include clinicians, commissioners, patient societies, patient representation and NHS England.

Alison Thomas	Consultant Haematologist
Annette Wood	Commissioner
Cathy Coppinger	Screening Programme
Claire Foreman	Commissioner
Elaine Miller	UK Thalassaemia Society Representative
Farrukh Shah	Consultant Haematologist and Interim Chair of NHR
Jo Howard	Consultant Haematologist
John James	Sickle Cell Society
Marilyn Roberts Harewood	Consultant Haematologist – Clinical Chair - On leave
Mary Petrou	UK Thalassaemia Society Representative
Sara Trompeter	Consultant Haematologist
Shivan Pancham	Consultant Haematologist
Subarna Chakravorty	Consultant Paediatric Haematologist
Wale Atoyebi	Consultant Haematologist
Dr Robert Hollingsworth	MDSAS











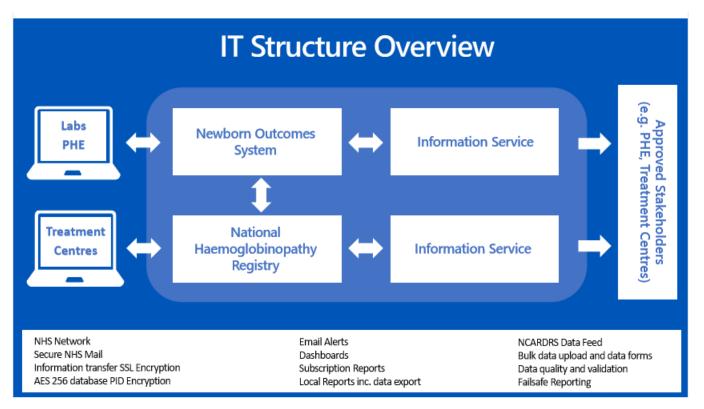
2018 /2019 Report



Total Diagnosis by Gender

Name	Male	Female	Not Specified	Total
Thalassaemia	973	942	0	1915
Sickle Cell	6353	7251	3	13607
Other	221	239	0	460
Total	7547	8432	3	15982





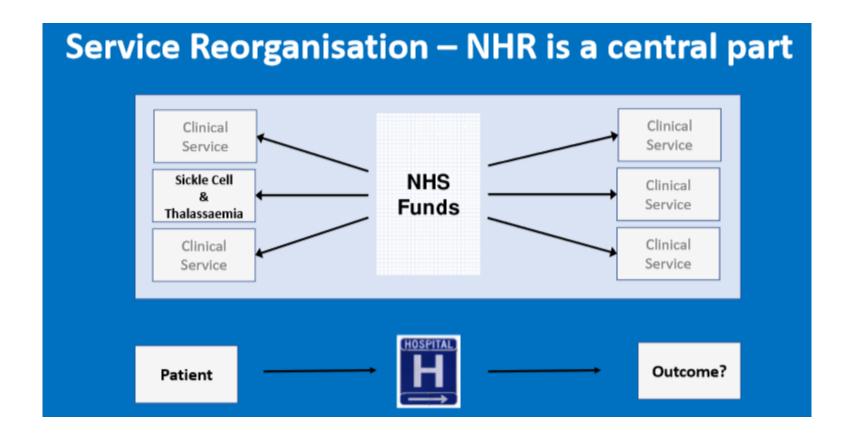
E.g. In Kaduna State

Laboratory = Patrick Yakowa Hospital, Kafanchan

PHE = Primary Health Care Development Agency

Treatment Centre = Barau Dikko Teaching Hospital (BDTH)









The NHR Dataset is broken down into three main data collection types:

Datasets

1. Patient Data

Consent Obtained	Yes / No
NHS number	Unique patient identifier
Title	Patient title e.g. Mr, Mrs etc
Forename	Patient Forename
Surname	Patient Surname
Gender	Male / Female
Date of Birth	Date of Birth of the Patient
Ethnicity	NHS standard list of ethnicities
Post code	Patient post code
GP practice code	Code to identify location of GP Practice
Year of diagnosis	When patient was diagnosed
Diagnosis	Patient diagnosis
Therapy	Treatment method patient receiving e.g Iron Chelation
Therapy type	Specific details of treatment method e.g Deferiprone
Transfusion frequency	If applicable how many transfusions given e.g 0-20, >20-50 etc.
Year of first transfusion	Year first transfusion given to patient
Bone marrow transplant	Yes / No
Receives regular penicillin usage	Yes / No
TCD monitoring	Yes / No
Regular Transfusion	Yes / No
Other Comments	Other Comments

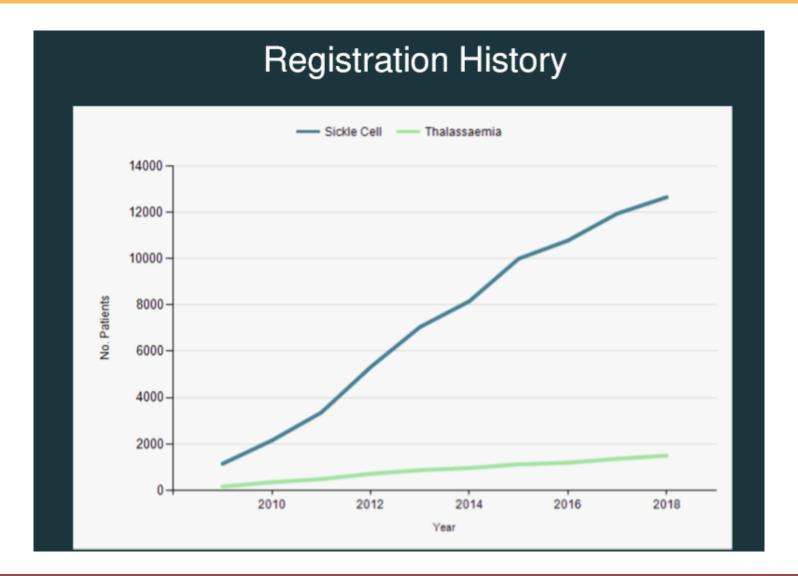
2. Adverse Events

NHR Patient Consent Obtained	Yes / No
NHS Number	Unique Patient Identifier
Gender	Male / Female
Diagnosis	Patient diagnosis
Event Type	The type of event e.g. death
Date of event	The date which the event took place
Age of patient	The patients age in months (up to 1st year), or years
Other Information	Any other relevant information

3. Annual Review

Management Plan Date Set Date Completed Todo Action About the patient	Date when management plan was set Date when management plan was completed The action required to be undertaken within the management plan The date when the annual review was due for completion Whether the patient attended or not
Date Completed Todo Action	Date when management plan was completed The action required to be undertaken within the management plan The date when the annual review was due for completion
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About the patient	
About the patient	
Date of Annual Review	
Patient failed to attend	I Whether the patient attended or not
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Height (cm)	The patients height in cm
Weight (kg)	The patients weight in kg
Spleen Size (cm)	The patients spleen size in cm
Centre change in this review period	Yes / No
Patient Status	The patients status e.g. active, no longer seen etc
Date of no longer seen	The date when the patient was no longer seen
Date of death	The date of the patients death
Transferred to	Which centre the patient was transferred to
Date transferred to	The date of when the patient transfer took place
Date transferred to	Specialist Haemoglobinopathy Team (SHTC) or Secondary Care
Centre type	Centre - Local (LHT)
Number of hospital admissions in	The number of times the patient has been admitted during the
this review period	review period
Have they had a transfusion in	
this review period	Yes / No
Has there been a pregnancy in	
this review period	Yes / No
Outcome of pregnancy	e.g. C section, live birth etc
Complications	
Hepatitis C Status	Whether the patient has Hepatitis C
Date of Hepatitis C status	The date of when the status was diagnosed
HIV Status	Whether the patient has HIV
Date of HIV status	The date of when the status was diagnosed
	-
Therapy initiated or continued in	
this review period	
Therapy	Treatment method patient receiving e.g Iron Chelation
Therapy type	Specific details of treatment method e.g Deferiprone
Transfusion frequency	If applicable how many transfusions given e.g 0-20, >20-50 etc.
Therapy start / end date	When therapy was started and completed

Date of Vaccination	The date of when the vaccination took place
Expiry of vaccination	When the vaccination expires
Comments	Any comments related to the vaccination
Serious adverse events in this review period	
Serious Adverse Event	Additional adverse events during the review period not already reported
Reason for ITU admission	Why the patient was admitted
Pulmonary Hypertension Proof	How pulmonary hypertension was proved
Date of serious adverse event	The date of when the serious event took place
Comments	Any further comments relating to the event
Other Complications	
Bone Problems	Whether the patient has had any bone problems e.g. fracture
Endocrinopathy Detail	Detail of endocrinopathy reported e.g. diabetes
Endocrinopathy start date	When the patient was diagnosed with the endocrinopathy
Endocrinopathy continued	Whether the endocrinopathy has still present
Comments	Any further comments relating to the endocrinopathy
Investigations in this Review Period	
Investigation details	What investigation have occurred during the review period e.g. audiometry, blood pressure etc.
Results	
Myocardial	Myocardial test score
Hepatic	Hepatic test score
Liver Iron Concentration	Liver Iron Concentration test score
Medications in this review period	
Medication	Medication that the patient has use during the review period
Medication start date	When the medication was started
Medication end date	When the medication was finished
Medication continued	Whether any further medication is required
Comments	Any comments relating to medications taken







Number of Patients by Diagnosis

Condition	Diagnosis	Patients
Sickle Cell		12,191
	HbSS	8,174
	HbSC	3,192
	SickleB+ thal	456
	SickleB0thal	202
	HbS/HPFH	93
	HbS /D Punjab	26
	HbS/E	19
	HbS beta +	10
	HbS beta0 thal	8

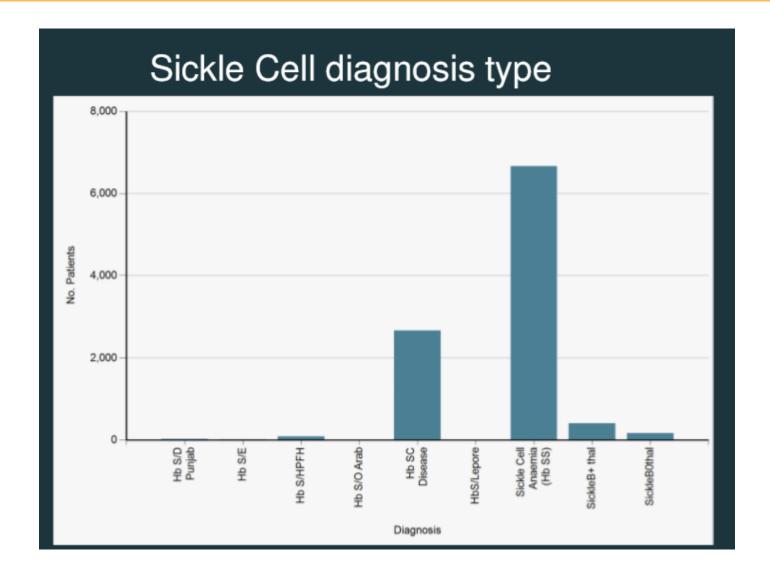




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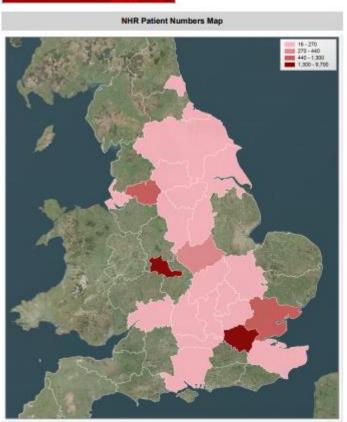


Number of Patients at Each Centre

Centre	Sickle	Thal	Other	Total
Guy's and St Thomas	1,081	25	26	1,132
Kings College Hospital	911	26	5	942
Royal London	730	109	29	868
Manchester University NHS Foundation Trust	617	149	41	807
North Middlesex	541	48	1	590
Birmingham - City Hospital	451	88	15	554
The Whittington Hospital NHS Trust	318	220	6	544
Newham University Hospital	498	10	6	514
Queens Hospital (BHR)	438	36	15	489
University College London Hospitals	282	159	44	485
Imperial College Healthcare NHS Trust	410	59	14	483



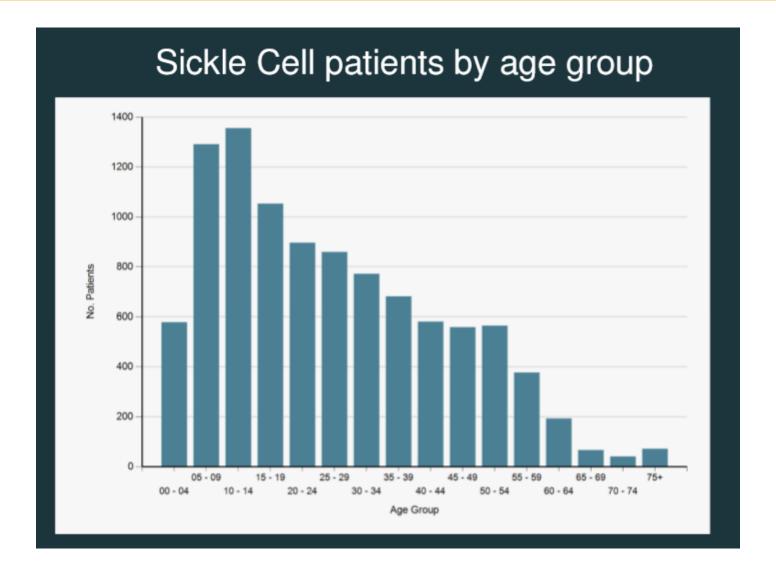




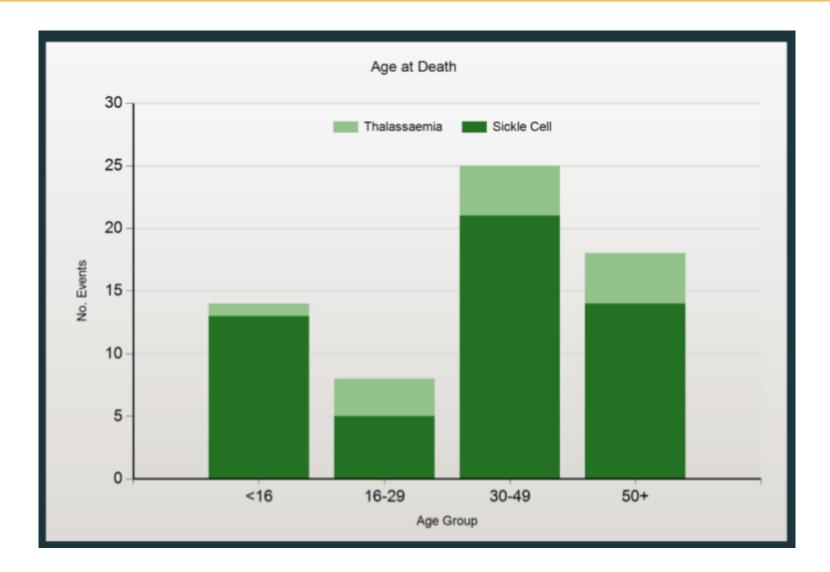


Area	Patients
Greater London	9610
West Midlands	1615
Greater Manchester	1158
Essex	597
Leicestershire	296
South Yorkshire	257
Nottinghamshire	232
North Yorkshire	185
Buckinghamshire	171
Northamptonshire	164
Merseyside	156

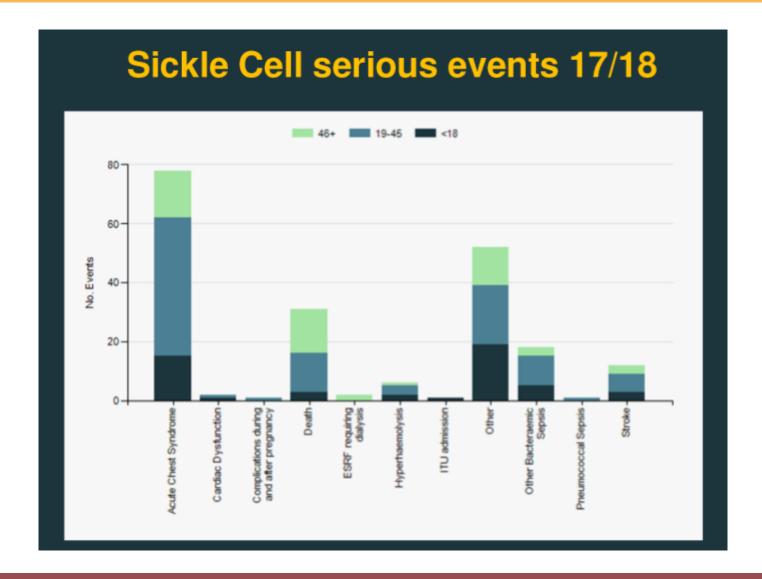






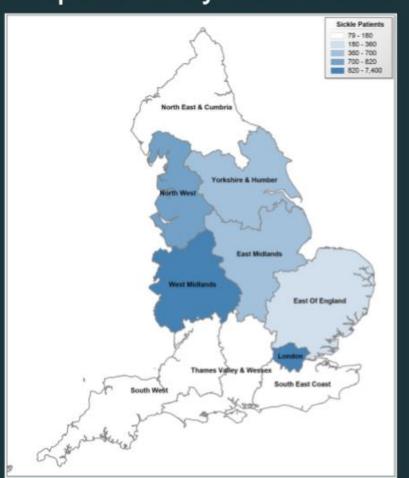








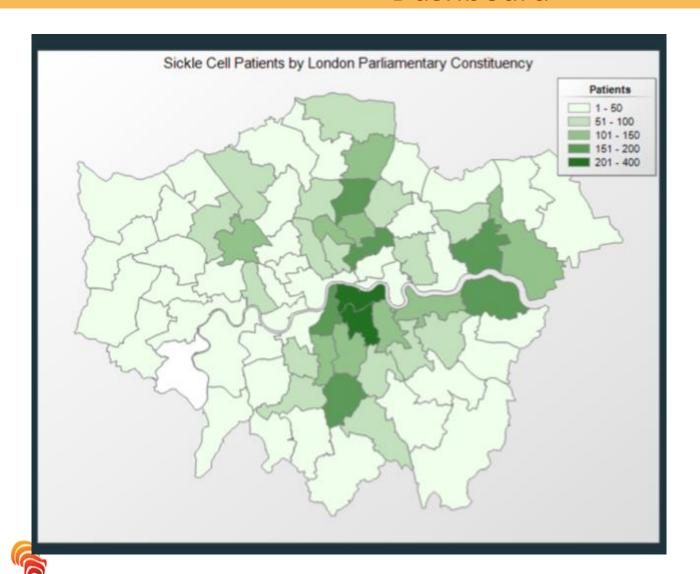
Sickle Cell patients by Commissioning Hub



Commissioning Hub

= Nigerian States





We can engage our lawmakers as advocates





- Support commissioning and management of specialist centres
- Development of hand held records
- Evolve into a patient management system
- Year of care funding
- Overall improving outcomes







Conclusion

The National Haemoglobinopathy Registry (NHR) is vital to support the management and improvement of the Haemoglobinopathy service





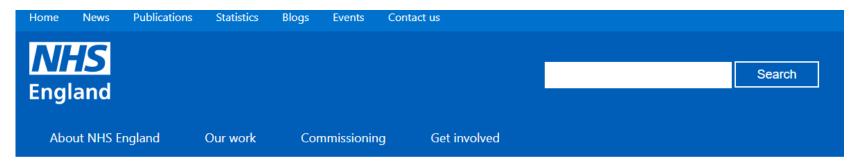
UK Haemoglobinopathy Dashboard

- Commissioned by NHS England
- Quality surveillance reporting system
- Identical standards across the UK
- Continuously monitored
- Data flow from NHR



Poor performance – Investigations/sanctions





NHS commissioning Specialised services National Programmes of Care and Clinical Reference Groups Internal Medicine Cancer Mental Health Trauma Women and Children Blood and Infection

Home > NHS commissioning > Specialised services > National Programmes of Care and Clinical Reference Groups > Specialised services quality dashboards

Specialised services quality dashboards

Specialised Services Quality Dashboards (SSQD) are designed to provide assurance on the quality of care by collecting information about outcomes from healthcare providers. SSQDs are a key tool in monitoring the quality of services, enabling comparison between service providers and supporting improvements over time in the outcomes of services commissioned by NHS England.

For each SSQD, there is a list of agreed measures for which data is to be collected. These measures are included in a 'Metric Definition Set'.

Information downloaded from the National Haemoglobinopathy Register



Haemoglobinopathy Quality Dashboard 2018/19

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Indicator Reference Number	Domain	There	Мехеля	Rationale	Name of Indicator I Description	Numerator	Denominator	Period Type	Глединосу	Data Source Numerator	Data Source Denominator	Target	Interpretation Guidance	Motes.	2	02	03	01
HAEWOI.	Domain 3: Helping people to recover in the management from epitudes of the health or following linkery	Clinical process	Serious executi entrondi costo MHR protein and executive del administrative executive marchidative processing a contractive processing and a contractive processi	Evidence that each adverse ever's has been andverse ever's has been andverse ever's has been and a service of the each of the every to self-set case input to national mixture of all advence oversit.	Properties of Serious exects extrest on 10 NHA. system and on-viewed within the date of the control of the con	Number of adverse events reported that have a less residence with the rethreck well and the rethreck well and the rethreck rethress case review.	Total marker of addresse events reported on MER, within the reporting period	6 month rolling	Cuarterly	Provider submitted data	Provider submitted data		Higher is better	Soiles in Cident i Formation: Soiles in Cident i registre parenting in the SEA's, SEAD National Ticente registre parenting in the SEA's, SEAD National Ticente would for Proporting and Learning from Sealines in Cidents in the Sealines in Cidents in the Sealines in Cident in the Sealines in Cidents in Sealines in Sealine	Jan 18- Jun 18			
HAEMIO2	Domain 3: Helping people to recover from ephodes of fill health or following linjury	Clinical process	Tions Cranial Doppler (TCD) monitoring	TCD being delivered to at risk group plan exercises that nutice all guidelines on frequency, methodology and training are being followed.	Proportion of children (aged between 2 and 36 years old) within at risk group (\$/\$ and \$/bes 0 This) receiving trans cranial doppler monitoring within Trust	Number of children having TIDD monitoring within national guidelines	Total number who are eligible for TCD receivering	6 month rolling	Counterly	Provider submitted data	Provider submitted data		Higher is better				Jul 18 - Dec 18	
HAEMOSI	Domain 3: Helping people to recover from epicodes of ill health or following injury	Clinical process	Timel irans of pain reflet in sidde cell disease	Indicator to measure that potients are given pain nellef within half an hour of presentation with sickle crisis, as per NCE guidelines.	Percentage of patients given poin relief within half an hour of presentation with sickle crists, as per NACE guidelines	Number of patients achieving this standard	Total number of events (patients presenting with sickle cribid, within the reporting period.	Annual	Annual	Provider submitted data	Provider submitted data		Higher is better	Arexual reporting. If a specialist centre is supervising of ther Trusts then a minimum of an audit from those centres of this areas by. This should only installed park mind glasma zaru supercy with either within Erre specicy department or acute a diministra unit.				Apr 18 - May 39
HAEM04A	Dornain 3: Helping people to recover from ephodes of ill health or following injury	Clinical process	Screening to access to specialist care	Indicator to measure that all patients with possible sickle disorders identified by neonatal screening have entered care pathway.	Proportion of patients with possible sickle disorders identified by neonatal screening who have been entered onto care pathway	Number of patients entened onto care pathway	Total number of identified patients, within reporting period	Annual	Arreal	Provider submitted data	Provider submitted data		Higher is better					Apr 18 - Mar 19
наемочв	Domain 3: Helping people to recover from episodes of all health or following injury	Clinical process	Screening to access to specialist care.	Indicator to measure the mamber of children beginning penicilin at or before 3 months of age, as per screening programme guidelines.	Percentage of eligible children beginning pericilin at or before 3 months of age as per screening programme guidelines	Number of children beginning pericillin within screening guidelines	Total number of children eligible to begin penicillin within reporting period	Annual	Annual	Provider submitted data	Provider submitted data		Higher is better					Apr 18 - Mar 19
HACIVICS	Domain 3: Helping people to recover from episodes of all health or following injury		Annual review via NHS.	each year into annual neview system of NHR.	Duta entry each year into annual review system of NHR	Number of arrusal reviews undertaken by the centre as recorded by NHR entry within that year	Total number of registered patients eligible for annual reviews on NHR by that centre	Annual	Annual	Provider submitted data	Provider submitted data		Higher is better					Apr 18 - Mar 19
HAEMOGAI	Donain 2: Enhancing quality of life for people with long-term conditions	Clinical process	Assessment of adequacy of chelation, aimed predom inantly at thasseenia, if any high risk sickle included glease identify in return		Proportion of eligible patients on long term transfusion who receive cardiac MRI	Number of eligible patients (actubs and children) on long term transfusion patients who receive cardiac MRI	Number of patients (adults and children) eligible for cardiac IMRI, within the reporting period	Annual	Azzeal	Provider submitted data	Provider submitted data			if any high risk Sistile included, please note in the indicator comments, frotin.				Apr 18 - Mar 19
HAENVOSAI	Domain 2: Enhancing quality of life for people with long-term conditions	Clinical process	Assessment of adequacy of chelation, aimed predion inarthy at theosemia, if any high risk sickle included please identify in return	Measures adequacy of chelation; Caroliac MRI of amore than 20 ms.	Proportion of patients receiving cardiac MRI who achieved more than 20 ms	Number of those who had MRI who achieved figure more than 20 ms	Number of patients who received cardiac IVRI within reporting period	Annual	Azzoul	Provider submitted data	Provider submitted data			if any high risk Skills included, please note in the indicator conveners, inclusi				Apr 18 - Mar 19



Shared commitment to quality

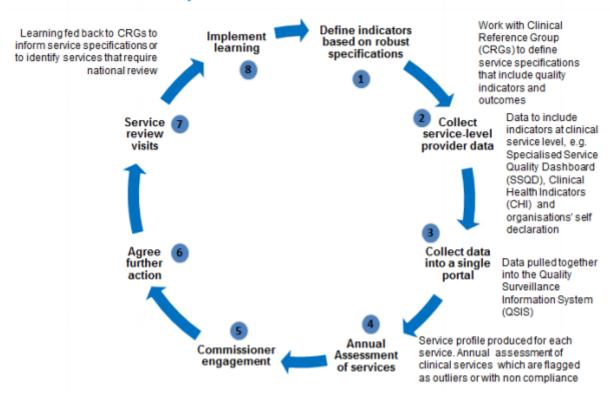
Our single shared definition of quality

which as national bodies we have committed to embed at every level of our work and in all our interactions.





Quality Surveillance Process





TCD monitoring Hb SS & Hb SC Patients aged between 2 and 17

Patients	TCD monitoring		
3605	2171 (60%)		



SSQD Dashboard





17/07/2019

https://www.qst.england.nhs.uk/teams/1795/specialised_services_quality_dashboards/surveys/90053

Q4 2018/2019 - SSQD Q4 2018/2019 Dashboard

Ref	Description	Period	Num	Denom	Value	Nat Avg	Chart	Trend
HAEM02	Proportion of children (aged between 2 and 16 years old) within at risk group (\$/5 and 5/bets 0 Thal) receiving Trans cranial doppler monitoring within Trust	Oct 18 to Mar 19	20.0	20.0	100.0	90.1	6	
HAEM03i	Proportion of patients given pain relief within half an hour of presentation with sickle crisis, as per NICE guidelines	Apr 18 to Mar 19	15.0	39.0	38.5	54.9	 	
HAEM04A	Proportion of patients with possible sickle disorders identified by neonatal screening who have been entered onto care pathway	Apr 18 to Mar 19	0.0	0.0		98.4	Insufficient data to produce chart.	
HAEM04B	Percentage of eligible children beginning penicillin at or before 3 months of age as per screening programme guidelines	Apr 18 to Mar 19	0.0	0.0		92.5	Insufficient data to produce chart.	
HAEM05	Data entry each year into annual review system of NHR	Apr 18 to Mar 19	87.0	88.0	98.9	79.4		•
HAEM06Ai	Proportion of eligible patients on long term transfusion who receive cardiac MRI	Apr 18 to Mar 19	*	*	100.0	82.2	6	•
HAEM06Aii	Proportion of patients receiving cardiac MRI who achieved more than 20 ms	Apr 18 to Mar 19	*	*	33.3	84.5		
HAEM06Bi	Proportion of eligible patients who receive MRI for liver iron - sickle only	Apr 18 to Mar 19	7.0	7.0	100.0	83.8		•



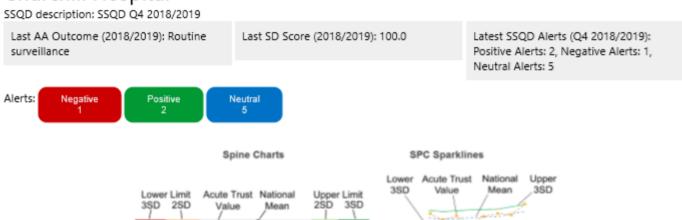
17/07/2019

https://www.gst.england.nhs.uk/teams/1795/specialised_services_guality_dashboards/surveys/90053





Specialised Services for Haemoglobinopathy Care (All Ages) at Churchill Hospital





Action plan to improve performance



Adult Haemoglobinopathy Service

The audit tool requires review, as not everyone presenting always requires analgesia within 30mins, but because assessment and prior analgesia is currently inadequately documented, this is difficult to quantify.

What can we do to reduce delay in prescription and raise the profile of SCD management?

Action plan:

	Adult Plan	By whom by when	Done
1.	Contact triage, email data and outline a plan: Assessing nurses to take more detailed assessment of pain, analgesia use: drug, time, dose; length of crisis Triage to contact Haem SPR to request preprescription of appropriate first dose analgesia before patient arrives.	SH, 14/7/2019	Yes
	Plan meeting with triage in Sept To review data and co-develop plan. Review criteria of 'chest pain' referral to ED Review possibility of haem SpR prescribing first dose when patients need to present to the ED and that this is handed over the ED staff	SH,14/7/19	Yes
	Promote further teaching for triage re SCD management	SH, , July 19	Awaiting triage response
	Advise SpR's of pre-prescription plan	NR, new and existing SpR's 9/19	
	Continue: ward case based teaching, at new starter orientation, new SHO induction(haem), new SpR induction(haem)	SH/NR ongoing	Ongoing
2	Develop SCD specific assessment tool for joint use across adults and paedes?	SH/LM Oct 19	





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