How can we improve haemoglobinopathy services?

Thursday 16th January 2020 11:15 – 11.45

Background

- Historically, individuals with sickle cell disorders (SCD) and thalassemia, and their communities, have been under-served
- Exciting time for SCD and thalassemia, with new treatments and new methods of delivery offering hope for a step-change in care
- Growing awareness of how best to support individuals and families affected by haemoglobinopathies
- Listening to patients and carers places emphasis on holistic care not just treating disease symptoms, but maximizing wellbeing and quality of life

How can we improve haemoglobinopathy services?

- 1. Joined up, prompt, appropriate, holistic, **patient-centred care**
- 2. Greater patient support, education and participation
- 3. Expansion of haemoglobinopathy day care support units
- 4. Improved uptake of effective disease modifying agents e.g. Hydroxycarbamide (HU)
- 5. Improved transition from paediatric to adult services
- 6. National Haemoglobinopathy Panel and National MDM
- 7. Peer review; workforce planning
- 8. Research and new treatment modalities (Voxelotor, Crizanlizumab, Luspaticept, gene therapy, stem cell transplantation)

1. Joined up, prompt, appropriate, holistic patient-centred care

• IT solutions

- Local Care Record
- Co-ordinate My Care
- National Haemoglobinopathy Registry, expansion to include Care Plans

• Mind and Body teams

Incorporating psychology, psychiatry, social work and therapies

IMPARTS screening

- Integrating mental & physical healthcare: research, training & clinical services
- King's Health Partners initiative
- Screening questionnaires for patients to complete on tablet during annual review/New patient clinics, including medication compliance, anxiety, depression, sleep, work/social functioning, alcohol and smoking history, electronically linked to Electronic Patient Record

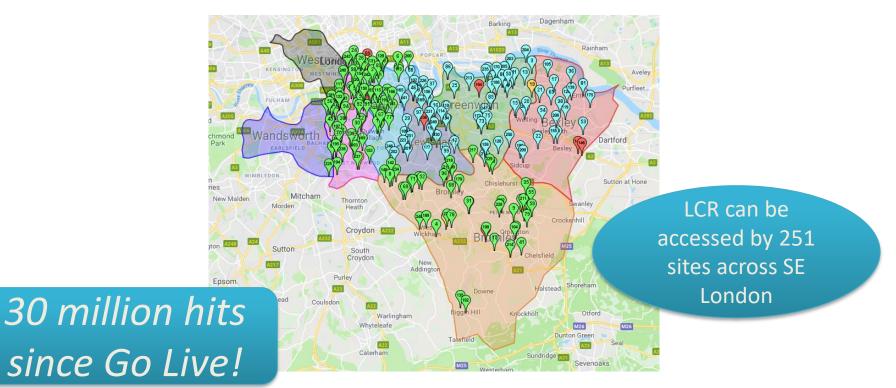
• PREM

- Validated Patient Reported Experience Measure survey
- Act on results, remove / address stigma and inequities

Local Care Record

- Improved secure sharing of patient information electronically between local hospitals and GPs in Lambeth, Southwark and Bromley
- Allows clinicians to review relevant information
- Linked to Connect Care system in Bexley, Greenwich and Lewisham
- Connecting ~15,000 care professionals across SE London, ~ two million patients
- Records are **read only**
- Information from GP record patient summary, problems, diagnosis, medications, warnings, procedures, vaccinations, investigations, examinations (BPs), events (encounters, admissions and referrals), patient demographics
- Information from hospital records appointments, visits, medicines, allergies, test results, referrals, clinic letters, discharge information

Where is Local Care Record live?



Coordinate My Care (CMC)

Role of CMC:

• Electronic patient centred urgent care plan accessible by NHS agencies, LAS, 111, hospices, and patients within London

What information does it hold?

- Diagnosis, medication, key contacts, patient preferences, DNAR status, ceiling of care
- myCMC portal for patients to initiate care plans and view signed off care plans

Users

• GP, community nurses, hospital team, out-of-hours doctors, specialist nurses, London Ambulance Service and NHS 111

Drawbacks

- Not developed specifically for SCD so requested information not always relevant
- LAS system linked to patient address no automatic flag if LAS not called to home address
- Not all patients consent to CMC, fears about how information might be used?

CMC is currently available across London and funded by the 32 CCGs representing London



Single care plan with multiple collaborators across the London area NHS

Probable future roll out to other regions...

CMC at a glance



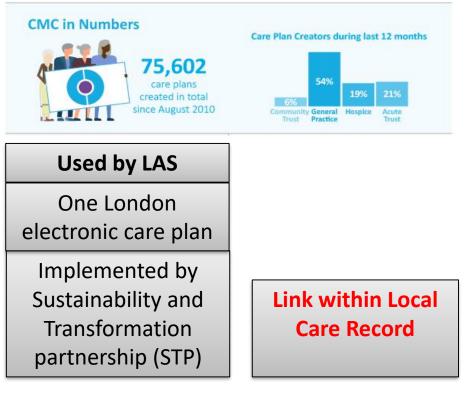
1,411

3,142

new care plans added in August 2019

views of CMC care plans by urgent care in August 2019

Why CMC?



In August 2019...

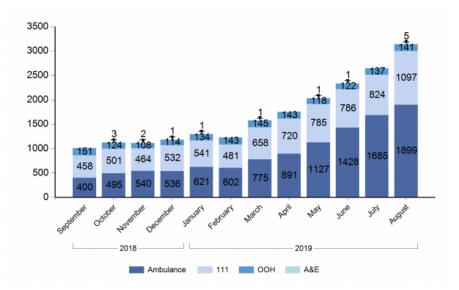
care plans were created

AUGUST 2019

1,411



Care Plan Views Per Month by Urgent Care Service



Benefits

Patient

- Quicker access to appropriate care/medications
- Don't have to repeat story to multiple health care professionals
- Can view their care plan online and input wishes/preferences
- Take ownership of care

Clinician

- Access to vital patient information when patient may be in too much pain to explain
- Improve care management
- Reduce time spent looking up history
- Can set alert if patient seen by urgent care

Urgent Care

- Reduce time spent looking up history
- Care plans available in real-time to enable effective management
- Help decide best on-going care for patient including most appropriate location
- Information available to other providers

| Patient Experience | Quality | Value for money |
|---|---|--|
| More in control Feel listened to Smoother pathway Quicker access to care | Accurate timely management Improved data collection Improved clinician to patient relationship Support MDT working | Reduction in unnecessary admissions Reduction in ED attendances |

PREM results

Adults

| HCP enough knowledge re SCD |
|--|
| Did HCP talk to you in a way that you could understand |
| Did HCP answer your questions clearly |
| Were HCP sympathetic and understanding |
| Did the emergency HCP know enough about SCD |
| Were the emergency HCP sympathetic and understanding |
| Did the emergency staff help ease your pain |
| Was the ward that you stayed on suitable for your age |
| Were there enough doctors and nurses on duty |
| Do you have enough information about your sickle cell |
| Do healthcare staff give enough information to others |
| Do you get info re different Rx options |
| Are you involved enough in decisions re Rx |
| Do you have enough information about your meds |
| Do you have enough infor re coping with pain |
| Do your friends and co-workers know enough re SCD |
| Do you have enough info re support groups |
| Do you get a chance to meet others with SCD for support |
| Have you been offered conselling or psychology |
| Do you have to repeat your story to members of staff |
| Overall how do you think staff look after your condition |
| |

Children

| Did doctors and nurses know enough about SCD |
|--|
| Did docs and nurses talk to you in a way tht you can |
| understand |
| Did doctors and nurses answer your questions clearly |
| Were HCP friendly and helpful |
| Did you rather than your family get a chance to speak to HCP |
| Could you choose to have your parent at the appointment |
| Did emergency HCP know enough about SCD |
| Were emergency healthcare staff friendly and helpful |
| Did emergency HCP make your pain go away |
| Were there enough doc and nurses on the ward |
| Do you have enough info re SCD |
| Do HCP give enough info to school |
| Do you have enough info re treatment options |
| Do you have a say about what happens to your care |
| Do you have enough info re how to use your meds |
| Do you have enough info re coping with pain |
| Do your friends know enough about SCD |
| Do you have enough info re support groups |
| Do you get a chance to meet other people with SCD |
| Are you given enough help to cope with SCD |
| Do you have to repeat your story to HCP |
| |
| Overall have descentible to construct the basis of the ba |

Overall how do you think your SCD is being looked fter by HCI

Carers

| D |
|--|
| HCP enough knowledge re SCD |
| Did HCP talk to you in a way that you could understand |
| Did HCP talk to you in a way that your child could understand |
| Did HCP answer your questions clearly |
| Were HCP sympathetic and understanding |
| Could your child choose to have you with them at this appointment |
| Did emergency HCP know enough about SCD |
| Were Emergency HCP sympathetic and understanding |
| Dis emergency HCP ease yourchild's pain |
| Was the ward suitable for your child's age |
| Were there enough doctors and nurses on duty |
| Do you have enough info about your child's condition |
| Do HCP give enough info to schools |
| Do you have enough info re different Rx options |
| Are you enough involved in your childs healthcare decisions |
| Do you have enough info re when and how to use your child's meds |
| Do you and your child have enough info re coping with pain |
| Do your child's friends know enough about the condition and understand |
| Do you have enough info re support groups |
| Do you get a chance to meet other parents with children with SCD |
| Did you get a chne to see a psychologist or a counsellor |
| Do you ever have to repeat your child's story to different HCP |
| Overall how well do you think your child's sickle call condition is being looked after |

2. Greater patient participation, support and education

- Address barriers preventing those with SCD from receiving effective treatment e.g. HU
 - Shared decision making tools to facilitate patients to make informed choices about care
 - Regular local support groups
 - Patient consultation for patient information leaflets
 - Education and awareness events
 - Improved access to benefits and social support

Shared decision making tool:

Developed with input from patient groups to ensure relevancy and appropriate language

Hydroxycarbamide = Hydroxyurea (HU) in sickle cell disease (SCD) Shared decision making tool

What is HU?

- A disease modifying medication taken long-term as once daily capsule(s) by mouth to reduce the severity of sickle cell disease by gradually improving symptoms and blood results over several months
- If treatment is stopped, the beneficial effects wear off within about two months

Who should be offered HU?

- BSH Guideline, May 2018 HbSS and HbSB^o infants from 9 months - offer regardless of clinical severity HbSS and HbSB^o children, adolescents and adults - consider regardless of
- clinical severity
- >3 pain episodes in a year, interfering with daily activities and quality of life (QOL)
- Severe or repeated acute chest syndromes
- After a transfusion program for children & adults with previous ischaemic stroke
- · Sickle kidney disease with protein in the urine despite medication · Low oxygen saturations and pulmonary hypertension and
- Anaemia causing symptoms which interfere with daily activities and QOL

Published studies of benefits of hydroxycarbamide in SCD

- 9 year follow up (MSH study JAMA 2003: 289:1645.). 40% reduction in mortality.
- 17.5 year follow up (Am J Hematol 2010; 85:403), 50% reduction in mortality
- BABY HUG trial (Lancet 2011; 377:1663) showed treatment is safe and effective from 9 months of age

After HU

Benefits:

- Improved survival
- Fewer and less severe pain episodes Fewer hospital admissions, transfusions, chest crises
- Less organ damage and jaundice
- Improved wellbeing, higher haemoglobin, improved exercise tolerance

Before HU



Yellow jaundice of eves usually disappears or improves with HU treatment

Safety concerns?

- >30 years clinical experience and trials show:
- No significant long-term toxicities in SCD
 - No increase in cancer, stroke or leukaemia in HU-treated SCD

Monitoring

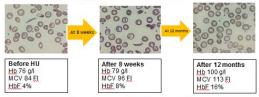
- Blood tests 2 weeks after starting treatment or a significant (>10%) dose change, and then at least every 12 weeks
- · Monitor full blood count, reticulocyte count, kidney and liver function

Fertility

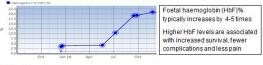
- Contraception during treatment and for three months after stopping treatment
- Normal births despite mother or father taking HU
- · No effect on female fertility
- Some males have a reduced sperm count on or after HU treatment consider sperm banking

Blood film changes on hydroxycarbamide:

Reduced numbers of sickle cells on blood film Higher haemoglobin (more red blood cells) Larger red blood cells (higher mean cell volume – MCV) Higher foetal haemoglobin HbF (and lower sickle haemoglobin)



Increasing foetal haemoglobin during treatment hydroxycarbamide:



Side effects:

- · Well tolerated with no significant long-term toxicities
- . Occasional gut discomfort, which is avoided by taking at night after food
- Rarely thinning of hair, which reverses when the medicine is stopped
- Reversible reduction in blood cells, which is why regular blood test are needed
- Darkening of nails and skin, which depends on the dose and reverses after stopping





3. Expansion of haemoglobinopathy support units

- Outpatient/day treatment to avoid Emergency Department (ED) use in high prevalence units
- Potential to avoid reported poor ED experiences
- Rapid review by usual specialist Haemoglobinopathy pathy team
- Potential to avoid admissions

4. Improved uptake of effective disease modifying agent Hydroxycarbamide (HU)

- Virtual/telephone clinics to support patients and avoid unnecessary hospital visits
 - e.g. blood monitoring
- Home delivery of specialist medications to avoid wait in pharmacy

Telephone Nurse Led Hydroxycarbamide Clinics:

Current vs New Pathway

Previous Pathway

- Wait in Phlebotomy = 30-60 mins
- Wait for blood results = 1.5 hours
- Wait to be seen by Dr = 30-60 mins
- Reviewed and given prescription = 15 minutes
- Attends pharmacy to collect meds = 1.5 hours

- New Pathway
- Blood test at 'quiet phlebotomy time' or
 Supportive Therapy Unit HSU = 20 minutes
- Telephoned with results review = 5 mins
- Home delivery of hydroxycarbamide

<u>Waiting time from start to finish = >5 hours</u>

• Waiting from start to finish = 25 minutes

Benefits

- Improved outpatient clinic capacity
- Decreased waiting time for consultant-led follow up appointments
- Reduced unnecessary waiting in hospital
- Reduced unnecessary face-to-face follow up appointments
- Good for patients with work/study/family commitments
- Increased uptake of hydroxycarbamide, with consequent improved clinical outcomes

5. Improved transition from paediatric to adult services

- Specialist Transition CNS
 - Named and easily contactable, focussed on 14-24 age group
- Ready, steady, go!
 - Prepare for transfer, inform decisions on timing of discharge from paediatric services
- Transition pack
 - Gym bag with NHR card, Care Plan, ARV, thermometer, dosette box, pen and notebook, team details and contacts, GP info (vaccinations, prophylactic antibiotics, emergency management)
- Transition videos, open days / workshops
- Transition/Teenage clinics
 - Paed and adult staff, based in adult clinic environment
 - After school/college hours

Transition from children's to adult's services

Specialist Transition CNS



Open day / workshop





Dosette box

and pen

6. Haemoglobinopathy Coordinating Centre and National Haemoglobinopathy Panel

- KHP successful in bid to host National Haemoglobinopathy Panel (NHP)
- Prof Baba Inusa is interim Chair
- Main aims:
 - Improve experience of all haemoglobinopathy patients
 - Reduce inequalities
 - Improving timely access to high quality specialist care
 - Improve delivery of care
 - Increase standardisation among providers and commissioners

What are Haematology Coordinating Centre and National Haemoglobinopathy Panel?

Haemoglobinopathy Coordinating Centre

<u>Aim</u>

 Reduce levels of morbidity and mortality and improve experience of all haemoglobinopathy patients by reducing inequities and improving timely access to high quality expert care

<u>Means</u>

- Support provision of specialist and nonspecialist haemoglobinopathy services
- Provide expert opinion and management for complex patients
- Provide coordinated leadership, improving clinical care by supporting local Specialist Haemoglobinopathy Teams

National Haemoglobinopathy Panel

<u>Aim</u>

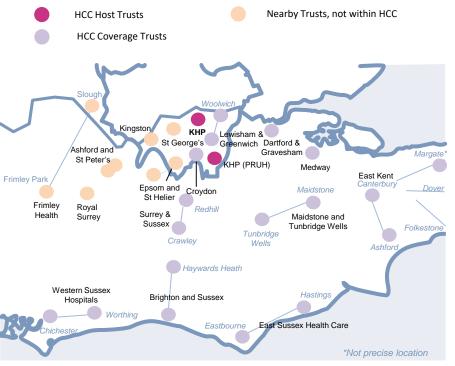
 Improve delivery of haemoglobinopathy care and increase standardization among providers and commissioners

Means:

- Coordinate actions taken at SHT and HCC levels, increasing access to specialist knowledge and reduce unwarranted variation
- Drive innovation and quality by monitoring relevant data at a national level
- Promoting access to novel therapies and clinical trials for all patients, regardless of geography

KHP Haematology Coordination Centre and National Panel Map of HCC Coverage

- KHP deliver the largest SCD Service in Europe:
 - Key contributor to national SCD guidelines
 - Largest portfolio of clinical trials
 - Audited performance for hydroxycarbamide, pain management, and acute chest condition
 - Operate STSTN MDT
- Large specialist workforce (adults/paediatrics):
 - ➢ 9 SCD consultants (5/4)
 - 13 specialist nurses (8/5)
 - 8 psychologists (5/3)
 - 4 community nurse specialists
 - 1 benefits advisor



Source: 210619 - HCC Tender - Lot 8

HCC functions:

- Use existing structures to **support local services** with access to expert quality advice and care
- Host Multidisciplinary Team Meetings via telephone/video conference
- **Develop educational programme** to support guideline implementation
- Support local providers in **data collection and audit** to ensure quality and reduction in variation
- Develop **plan for improving emergency pathways** through education including use of digital tools to improve access to education, advice and best practice for local providers
- **Deliver outreach clinics** through virtual model to increase frequency
- **Publish quarterly newsletter** and **administer website** resource to inform local providers and to improve access of information for patients and families
- **Promote patient participation in service development** and use digital tools to ensure access from the wider network

National Panel

| Structure and governance | Governing Board of NHP will include all HCCs, all relevant clinical specialists, and patients and will review relevant data, develop NHP activities, provide an escalation route, and facilitate NHP MDT structure |
|--------------------------|---|
| Operational Roles | Four main roles: Education (annual education days, quarterly training, review of complex cases, etc.) Defining and sharing best practice through a working group Maintaining lists of centres providing innovative therapies and conducting research Coordinating peer review of outcomes to reduce inequalities and increase consistency |
| Effectiveness Metrics | Participant feedback from training sessions Volumes of patients accessing & aware of innovative therapies and clinical trials Number and percentage of SHT & HCC clinicians referring to NHP |
| MDT Structure | NHP will lead two-tiered MDT structure, with monthly videoconferences for complex cases, and shorter turnaround email-MDT providing expert opinion |
| Mobilisation | Widespread consultation and transparency on roles, job descriptions, referral processes and criteria |

7. Peer review & Workforce planning

- Peer review
 - Assessment of outcomes, processes and delivery of care
 - Collaborative peer to peer reviews, self reporting with inspection of all underperforming units, and a proportion of self reported compliant units
- Workforce planning
 - Sufficient expert medical and nursing staff to look after expanding cohort
 - Training and investment in psychologists, psychiatry, social workers, CNSs and doctors, including community teams

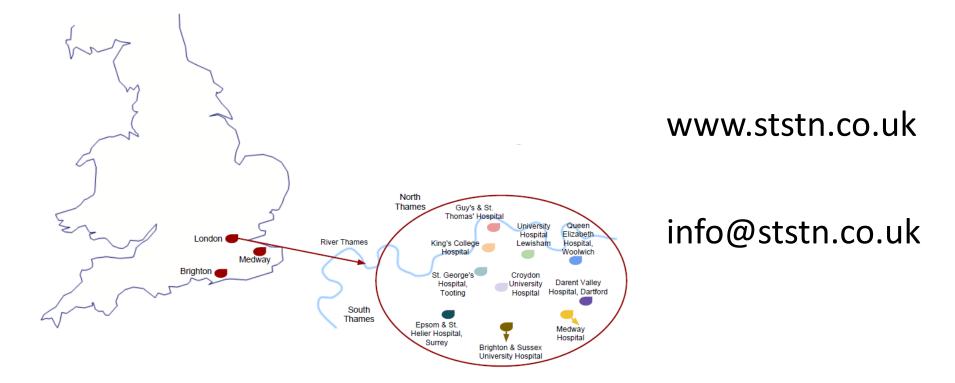
8. Research and new treatment modalities

- Voxelotor, Crizanlizumab
- Gene therapy, stem cell transplantation
 - Where will treatments fit into clinical practice?
 - How can we ensure equitable access?
 - Ennsure appropriate use?
 - National panel to screen all gene therapy, stem cell transplantation referrals

Stakeholder views

- October 2019 stakeholder group workshop discussed current and future delivery of care
- Included doctors, nurses, psychologists and administrators from KHP (King's Health partners) and STSTN (South Thames Sickle and Thalassaemia Network
- Vigorous wide-ranging discussion on degree of centralisation of services deliverable to best serve patients - each option had advantages and disadvantages
- Plan to consult widely across Network including patient representatives to ensure all stakeholders are engaged and aligned

South Thames Sickle Cell and Thalassaemia Network (STSTN)



King's Health Partners



We bring together 40,000 staff working in the NHS and university sectors.

We are teaching nearly 30,000 students across our partnership.

Nearly 4.8 million patient contacts are made by our partner hospitals every year.



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1 – Strengths and Challenges

- KHP offer access to specialist services, including outreach from KHP and a high quality community service
 - High level of collaboration and multi- disciplinary working
 - Transition between paediatric and adult services
 - Joint specialist clinics to address comorbidities (liver, renal, orthopaedic, obstetric, pain, neurology, respiratory)
 - Working across disciplinary or organisational boundaries can be challenging

STSTN Network Issues

- **Staffing:** Gaps in staffing particularly around certain roles welfare support, admin support, social work, physios, psychological support and CNS, lack of equity in manpower
- Resources and funding: generally challenging, absence of dedicated wards, geographically inconsistent automated apheresis resources
- **Patient Experience:** long clinic waits, inconvenient pharmacy, multiple clinics/investigations, poor ED experience, perception of inadequate specialist knowledge on non-specialist wards

2. Model for future care based on degree of centralisation

Centralised Hub

- Centralise as much delivery at central hub as possible, from which all tertiary care would be managed and coordinated
- Patients travel to hub for annual review
- Emergency patients conveyed via ambulance to hub
- Hub has dedicated inpatient and outpatient spaces for SCD, and dedicated TYA inpatient facilities
- Hub would co-locate all research and most clinical staff, allowing for delivery at scale

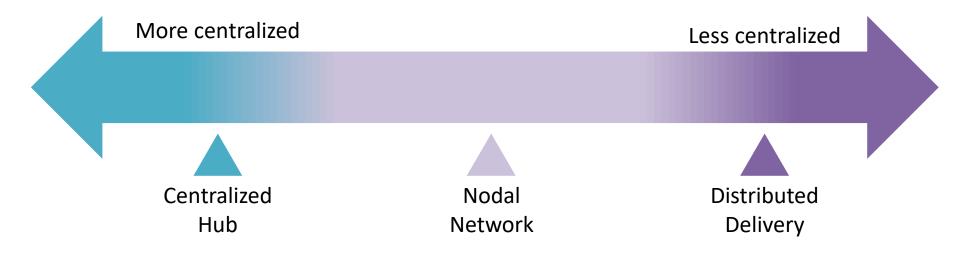
Nodal Network

- Assets across Network, creating pockets of delivery at scale
- Ambulance takes patients to nearest 'Node' where bulk of tertiary care is managed and coordinated, with links to main hub
- Expand day case / day unit provision at Nodes and use digital technologies to link to hub

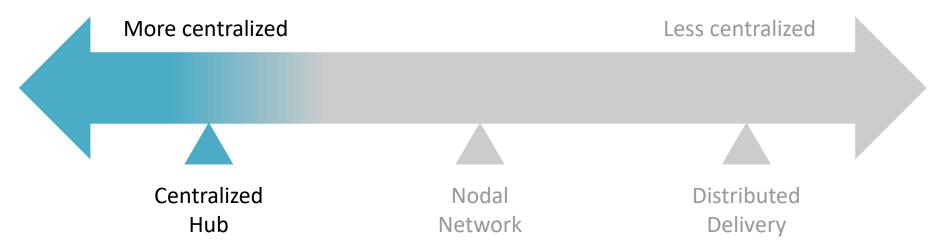
• Distributed Delivery

- Use digital technology and Networks links to keep patients in local areas and empower local delivery
- Additional training for Haematologists and nurses with SCD caseloads to provide uniformly high level of care, even in low prevalence areas
- Invest in mobile capacity (e.g. mobile apheresis) to increase geographic availability of facilities

Degree of centralisation is key to considering the model for service delivery

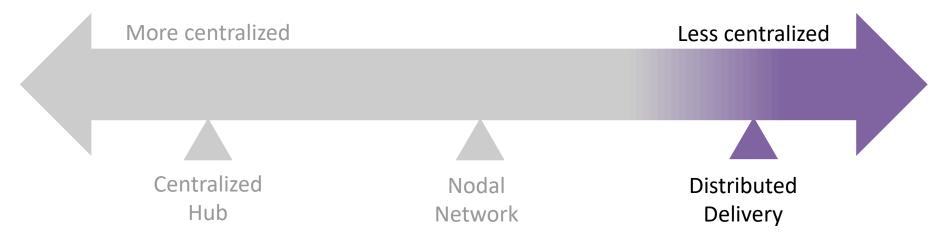


Centralized Hub model sees as much delivery at a single central site as possible



Centralise as much SCD delivery at a central hub as possible, from which all tertiary care would be managed and coordinated. Patients travel to hub for annual review, and emergency patients travel via ambulance to hub. Hub has dedicated inpatient and outpatient spaces for SCD, including dedicated TYA inpatient facilities. Hub would co-locate all research and most clinical staff, allowing for delivery at scale.

Distributed delivery keeps assets, staff and patients dispersed across the geography



Using digital technologies and Networks links, keep patients in their local areas and empower local delivery. Emphasise additional training for Haematologists and nurses with SCD caseloads to provide a uniformly high level of care, even where local SCD population is modest (increasing access). Invest in mobile capacity (e.g. mobile apheresis) to increase geographic availability of these facilities.

No perfect model – all have drawbacks

| Model | Clinician description | | Deliverability | | Strengths | | Weaknesses / Challenges |
|-------------|---|---|---|-------------|---|---|--|
| Centralised | Coordination delivered from central hub(s), supports the network Coordinates research TYA Unit Walk in day unit Automated apheresis capacity Specialist clinics Expertise and experience Pain management – no PCA local Acute care, community team based in the hub Choice of patients – complex v simple Congestion, travel and tests Increased capacity Home delivery | • | Hard to find location and capacity, requires investment Far from patients presents challenges | • • • | Improves coordination within hospital Central hub has scale to support the network Scale for specialised delivery (i.e. TYA dedicated ward) Increased capacity Scale for out of hours care | : | Weak on emergency care Requires management of research ethics/consents for all patients Location and capacity are challenges Patient migration makes location of hub more risky – patient population won't stay in locations for ever |
| Nodal | Develops comms and overseeing coordinating guidelines Makes use of digital delivery Much overlap between Nodal and distributed | • | Most deliverable – do nodal plus 'Care closer to home' | • • • | Works well with outreach (Transcranial Doppler mentioned specifically) Improves access to referral clinics Better for emergency care – scale but close to patients Helps support equitable access to research and trials Creates sites for education | • | Creates more layers of bureaucracy and thus difficulty Patient migration makes location of nodes more risky – patient population won't stay in locations for ever Not all nodes may have scale for quality out of hours care |
| Distributed | Day unit transfusions Integrated service between acute and community Emergency consults might be helpful (moves towards Nodal) Community sickle centre Pharmacy F810 Acute pain Community nursing Much overlap between Nodal and distributed | • | Resources spread too thin Likely preferred by patients | • | Patients likely to prefer distributed Reduces organisational siloes Emphasizes digital delivery (like Skype), which are likely to be preferred by younger SCD individuals | • | De-skill staff and spreads resources thinly Hard to do education Hard to deliver out of hours care |



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South London and Maudsley

3. Model of interventions explored within a 5-category framework

Interventions assessed from patient perspective, focusing on stage of journey the change will impact:

| Category | Intervention |
|---|---|
| Acute-Issue Management | Acute-issue management – reducing severity and/or duration of acute crises when they do occur |
| Acute-Issue Avoidance | Acute-issue avoidance – reducing likelihood of acute crises |
| Long-term conditions | Long-term conditions – avoidance and improved management of co- morbidities and sequelae of SCD, improving life expectancy and quality of life |
| Non-Acute Support | Non-acute support – improving outcomes and experience for individuals with SCD generally |
| New Treatment Modalities and Research Opportunities | New treatment modalities and research opportunities – potential for new methods to change how SCD is treated or managed |

Workshop: acute management

| Category | Intervention | Description and Impact |
|---------------------------|--|---|
| | Improve access to Sickle Day Unit | Extend hours and improve pathway clarity into Day Unit (from ED, ambulance conveyance) |
| | | Sufficient cohort in catchment would make consultant coverage for Unit feasible |
| | Improve rapid access to pain relief | Continued training for ED and LAS regarding rapid analgesia |
| Acute-Issue Management | Shorten IP spells with management protocols, patient information | Pan-Thames/Network pain and management protocols, better patient information sharing, integrating psychologist and social support to reduce delays to discharge |
| | sharing, psycho-social support | Improved education and training of health care providers |
| | Make new therapies available | Make latest drugs and treatments available to patients |
| | Improve Hydroxycarbamide access | Assist patients and clinicians in overcoming misconceptions around cancer/sterility |
| | Reduce patient burden through changes to OP clinics, MDT, GP- | Outpatient clinics with extended hours, one stop clinics with access to MDT and specialist diagnostics |
| | training | Training/information for GPs |
| Acute-Issue Avoidance | Access to automated apheresis | Avoid acute deterioration, improve disease control |
| Avoluance | Haematology units with integrated psychology, social, benefits support | Proactively address underlying psycho-social issues, such as housing or disability benefit payments |
| | Make new therapies and drugs available as soon as possible | Reduce frequency of acute issues and admissions |

Workshop: non-acute management

| Category | Intervention | Description and Impact | |
|----------------------|---|---|--|
| | Specialist Joint Clinics | Aligning delivery of care for the increasing level of co-morbidities through more specialist joint clinics, build expertise. Chronic complications are more common cause of mortality than acute Sickle episodes at KHP | |
| Long-term conditions | Reducing patient burden through changes to OP clinics, MDT, and GP-training | Making better use of digital/online/phone-based methods to help patients manage their condition, sensitive to needs and capabilities of each individual | |
| | Improve treatment of long-term complications | Help with chronic pain and potential opioid dependency through MDT support; pain specialists, psychologists, physiotherapists, community nurses | |
| | | Provide better infection management, vaccination and awareness for need for prompt treatment of infections, in view of hypersplenism and increased infection risk associated with SCD | |
| | Increase psychological support, educate patients, family and staff | Education and increased psychological support to decrease stigma around psychological support; blood transfusions; opioids and other pain-relief | |
| | | Improve psychological support to staff when dealing with challenging patients | |
| | Improve access to relevant patient information for patients, clinicians | Digital methods to improve access to information across the Network , particularly the Outpatient area to reduce DNA rates (via text message, personal call, etc.) | |
| Non-Acute Support | | Helping disseminate relevant information in standard formats to help all patients, regardless of impediments to reading, appropriate, up-to-date information | |
| | Provide age-appropriate care | Expand TYA unit to support transition from paediatric to adult services, which reduces risk at a critical period | |
| | | Appoint TYA lead to help coordinate support with in-post Welfare Support Officer | |
| | | Assist with co-morbidities through expanded multi-speciality clinics, education and clear referral pathways to specialist clinics | |

Workshop: new treatments and research

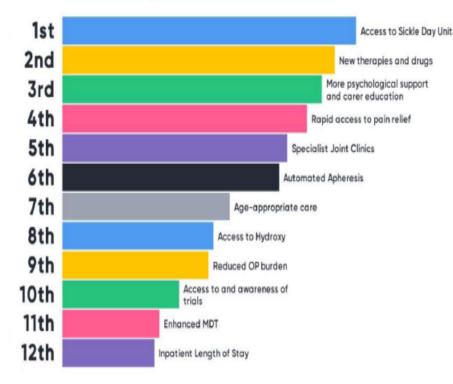
| Category | Intervention | Description and Impact | | | |
|---|--|--|--|--|--|
| | Ensure resources are available to perform research in clinical and psychological environment | Research should translate to evidence based practice and improved patient outcomes and | | | |
| | Improve access to and awareness of clinical trials among patients | Patients are not always aware of trials and clinicians/researchers can face difficulty in recruiting | | | |
| New Treatment Modalities and Research | Haematopoietic Stem Cell Transplant Transplants (HSCT) and gene therapy | Pioneering new treatments such as Haematopoietic Stem Cell Transplant, gene therapy, and cellular therapies such as Gene therapy will open a non-drug-based avenue for managing and potentially curing SCD and thalassaemia | | | |
| Opportunities | Increase access and availability of other new drugs | Increasing access – trial or otherwise – to novel drugs such as: Endari (oral L-glutamine powder) – reduces oxidative stress and acute complications, prevention of acute vaso-occlusive events Voxelotor –daily oral therapy with potential to improve haemolytic anaemia and oxygen delivery Crizaluzimab & Inclacumab –monoclonal antibody treatments could reduce vaso-occlusive crises¹ | | | |

Workshop: electronic voting results

- Ranking of each intervention by clinicians
- More needs to be done to capture patient voice

| Category | Intervention | Count | Rank |
|---------------------------------|--|-------|----------------------|
| | Improve access to Sickle Day Unit | 15 | 3 rd |
| | Improve rapid access to appropriate pain relief | 13 | 5 th (T) |
| Acute-Issue Management | Shorten IP spells by thorough management protocols, patient information exchange, and MDT psycho-social support | 12 | 10 th (T) |
| | Make new therapies and pain-relief drugs available | 13 | 5 th (T) |
| | Improve Hydroxycarbamide access from current levels of ~20% (18.6% GSTT adults) | 13 | 5 th (T) |
| 0 I | Reducing the patient burden through changes to OP clinics, MDT, and GP-training | 8 | 17 th |
| Acute-Issue Avoidance | Improve the availability of automated apheresis | 12 | 10 th (T) |
| Avoluance | Enhancing MDT Haematology units with integrated psychology, social, and benefits support | 13 | 5 th (T) |
| | Make new therapies and drugs available to SCD patients as soon as possible | 12 | 10 th (T) |
| | Specialist Joint Clinics focusing on the complications SCD patients face | 21 | 1 st |
| Long-term conditions | Reducing the patient burden through changes to OP clinics, MDT, and GP-training | 13 | 5 th (T) |
| | Improve treatment of long-lasting side effects of SCD | 9 | 16 th |
| | Increase psychological support and educate patients and family, and staff especially around Mind & Body support and MDT staff | 11 | 13 th (T) |
| Non-Acute Support | Improve access to relevant patient information for patients, clinicians and other care providers to support their care and wellbeing | 3 | 19 th |
| | Provide age-appropriate care to patients | 18 | 2 nd |
| | Ensure resources are available to do research in both the clinical and psychological environment | 7 | 18 th |
| New Treatment Modalities and | Improve access to and awareness of clinical trials among patients | 11 | 13 th (T) |
| Research Opportunities | Haematopoietic Stem Cell Transplant Transplants (HSCT) and gene therapy | 11 | 13 th (T) |
| | Increase access and availability of other new drugs | 14 | 4 th |

Intervention Ranking



'Count' of votes given to each intervention

Ranking of interventions conducted at end of session via Mentimeter.com, allowing secret voting via smartphone

Conclusion

- Services could be improved by combining:
 - Holistic patient-centred care facilitated by information technology
 - Greater patient support, education and participation
 - Expansion of haemoglobinopathy day care units
 - Increased use of Hydroxycarbamide
 - Improved transition from paediatric to adult services
 - National strategies: National Haemoglobinopathy Panel and MDM, Peer review and workforce planning
 - Research
 - New treatments (Voxelotor, Crizanlizumab, Luspaticept)
 - Gene therapy, stem cell transplantation

Any questions?