



# NBTC Update

South West Regional Transfusion  
Committee meeting

22<sup>nd</sup> May 2024

**Dr Stuart Cleland**

**Chair of the South West RTC**

# RTC Chairs

Some regions have been proactive with patient involvement in their committees

Role of Deputy Chair for RTC's strongly encouraged to allow for continuity and succession planning.

# Transfusion 2024 – NBTC update

NHSBT have approved 2 additional years funding to cover 2024/6

Education webpage went live in April

<https://nationalbloodtransfusion.co.uk/education>

IT link between National Haemoglobinopathy Registry and NHSBT went live 12th March

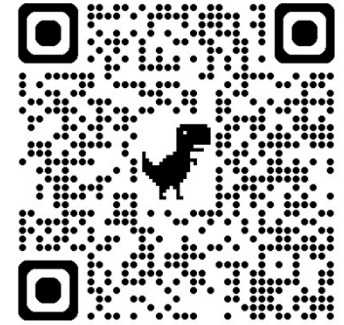
Hospital Blood Data Integration project - aim to automate hospital stocks and wastage data, pilot phase in April

- Aim to recruit 15 hospitals for pilot

Electronic requesting and reporting of fetal RhD results.

- Request to trusts to consider moving to e-requesting.

Strategic engagement with NHSE head of Pathology Transformation + LIMS supplier senior teams



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# T2024 deliverables and scope

**Deliverables within NHSBT's scope (blue text)**



**Stronger Patient Blood Management Collaboration**

A1 Develop a tool for PBM self-assessment by hospitals

**A2 Resources to support clinical transfusion practice; NHSBT PBM team, NCA, and BSMS**

Develop and implement a national competency framework for Transfusion Practitioners

A3 Inclusion of transfusion in national patient quality and safety initiatives



**Increased Transfusion Laboratory Safety**

**B1 Scientific and technical education and training including development of the consultant clinical scientist role**

B2 Laboratory staffing: capacity planning

**B3 Integrated services: RCI remote interpretation pilot**

B4 Pathology networks: defined standards for laboratory transfusion practice

B5 Regulatory/compliance alignment: a unified standard by MHRA/UKAS

B6 Adverse event reporting: Collaboration between SHOT and MHRA to improve reporting



**Enhanced Information Technology**

**C1 Transfusion IT**

- a. defined standards for hospital transfusion IT within Pathology networks
- b. pilot electronic requests for NHSBT reference laboratory tests
- c. design a blueprint for managing inventory and define an approach for roll out to hospitals
- d. develop standards for routine collection of data on blood utilisation

C2 Vein to vein electronic tracking



**Further Research and Innovation**

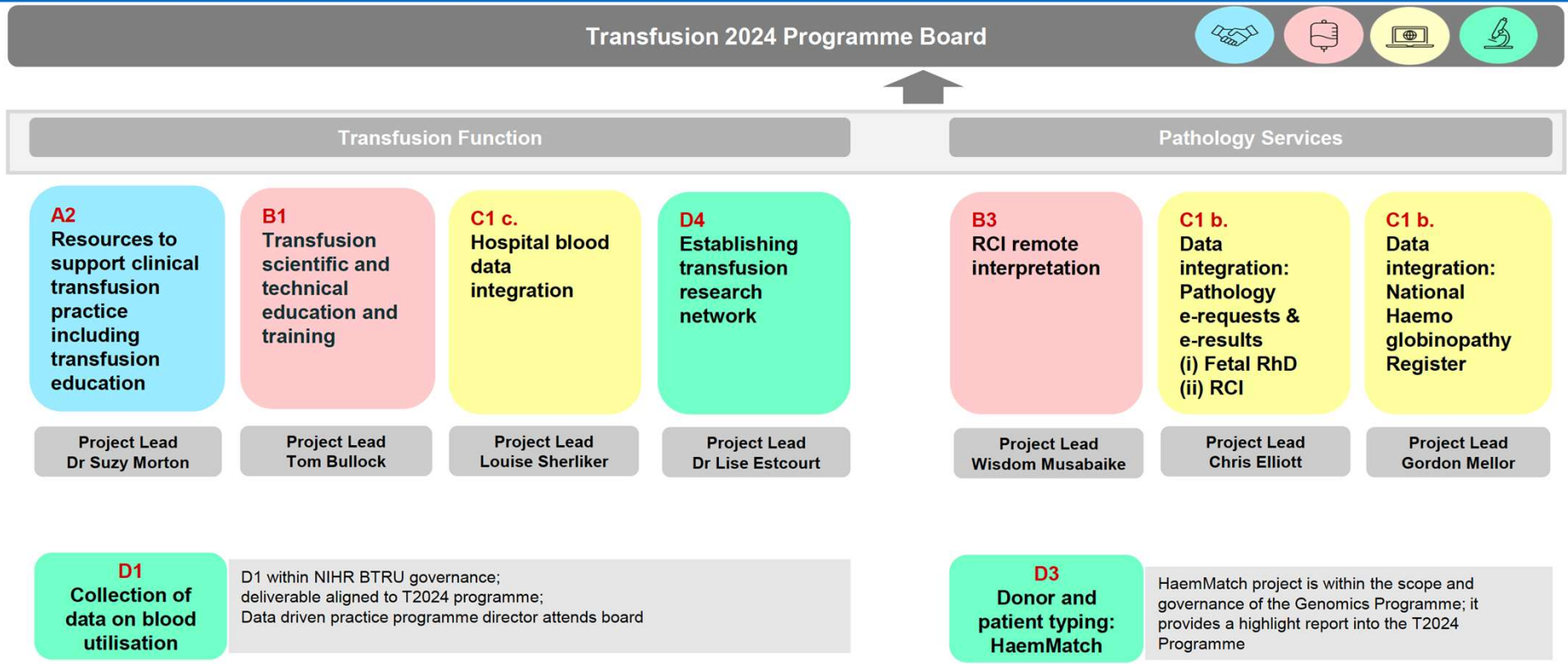
**D1 Data driven transfusion practice**

**D2 Component development: agree pathway for development (complete)**

**D3 Donor and patient typing define and develop a pilot of genotypically matched blood for multi transfused patients**

**D4 Transfusion Research: perform an options appraisal on the benefits of establishing a clinical trials network**

# Delivery Structure



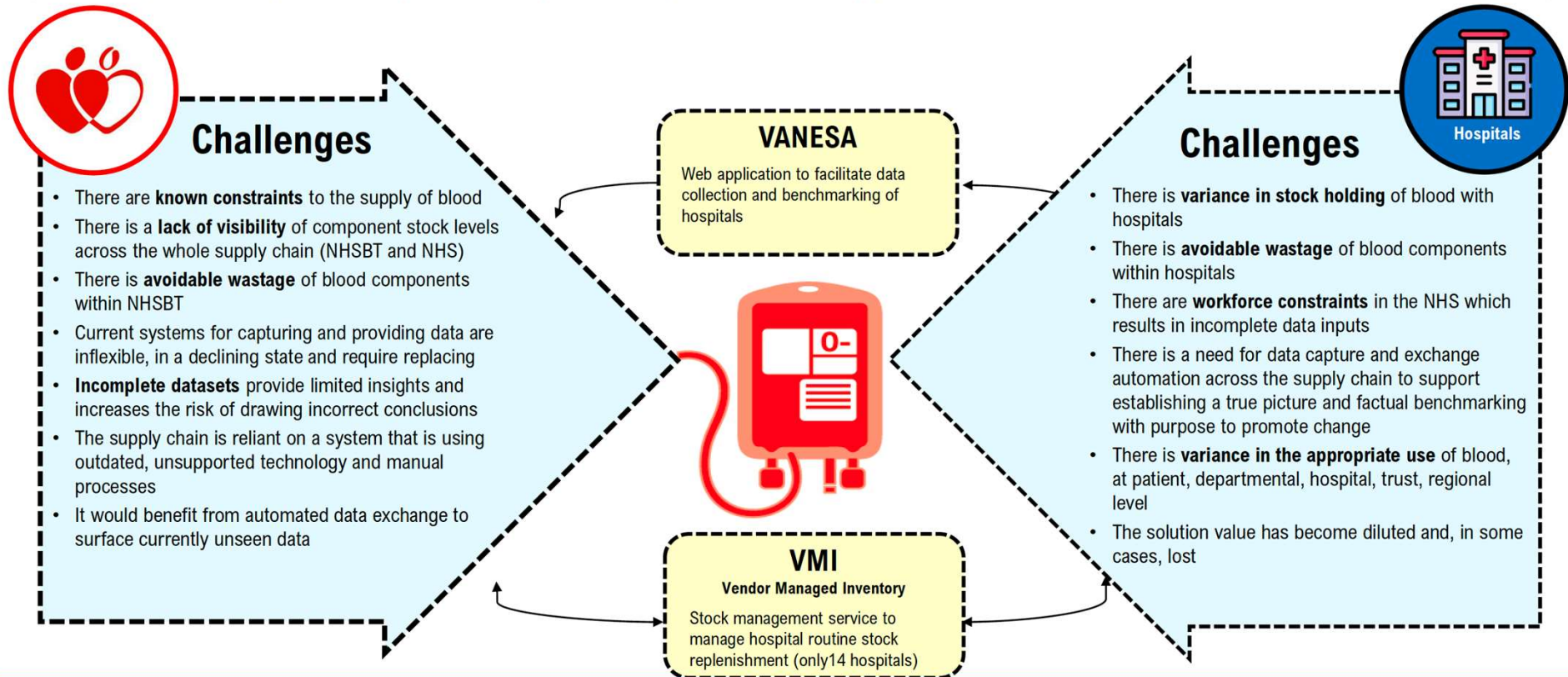
# Progress to date

| Project  | Status | Progress   |
|--|--------|--|
| A2a Education to support clinical transfusion practice |        | <ul style="list-style-type: none"> <li>• Education strategy developed and approved</li> <li>• Transfusion Practitioners Workshop held to discuss professional development framework</li> <li>• Agree broad minimum standards for undergraduate education provision</li> <li>• Survey to understand transfusion content of undergraduate medical courses shared with the UK/NI Council</li> </ul> |
| B1 Scientific/ technical education/ training           |        | <ul style="list-style-type: none"> <li>• Education webpages – final review underway and approval of quality of content</li> <li>• University survey responses on the transfusion content of Biomedical Science degrees reviewed</li> <li>• Draft recommendations produced from the survey of hospital laboratory staff</li> </ul>  |
| B3 RCI remote interpretation                           |        | <ul style="list-style-type: none"> <li>• Engagement with hospitals</li> <li>• Piloting with eight hospitals</li> <li>• Results of pilot and future actions to be presented to Programme Board April 2024</li> </ul>  |
| C1b Fetal RHD/ RCI e-requesting and e-reporting        |        | <ul style="list-style-type: none"> <li>• Live with seven hospitals (three on WinPath and four on EPIC)</li> <li>• Discussions continuing to take place with other LIMS providers</li> <li>• Further roll out over next year</li> </ul>   |
| C1b Interface with NHR                                 |        | <ul style="list-style-type: none"> <li>• Developments completed</li> <li>• Initial data validation completed</li> <li>• Went live for Phase 1 on March 12th</li> </ul>   |
| C1c Hospital blood data integration project            |        | <ul style="list-style-type: none"> <li>• Business case approved for 2-year proof of concept pilot</li> <li>• Working with Pathology Networks to be part of pilot</li> <li>• Continue with stakeholder engagement</li> </ul>  |
| D4 Establishing a Transfusion Research Network         |        | <ul style="list-style-type: none"> <li>• Options appraisal completed with broad stakeholder engagement</li> <li>• Business case presented at Programme Board outlining future proposals</li> <li>• Progress to initial set-up before discussions with UK Forum for potential wider roll-out</li> </ul>   |

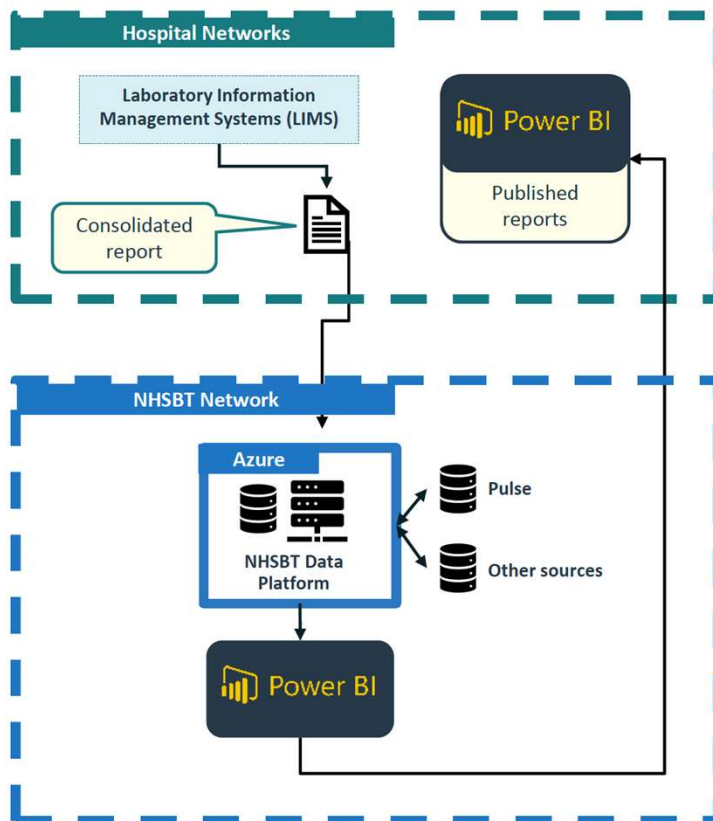


# Hospital Blood Data integration Project (HBDIP): Drivers for Change

Current systems and processes present multiple challenges across the supply chain



# HBDIP: Proposed Architecture & Requirements



## Actions Required for Successful Pilot

### **NHS Blood and Transplant will:**

- Collaborate and fund the development of a report from each LIMS to extract the required data in a standardised format, at scheduled intervals
- Create and publish reports relating to each hospital's usage and wastage of blood, improving on those currently offered
- Engage with hospital IT teams to establish connectivity between NHSBT and the hospital (anticipated to be SFTP connections)
- Engage with hospital IG teams to ensure correct governance is in place

### **Hospitals will need to:**

- Provide a nominated individual to act as point of contact
- Conduct testing to validate contents of the consolidated report
- Grant NHSBT authority to liaise directly with hospital IT & IG teams (see above)



# Hospital Blood Data Integration Project pilot

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Blood and Transplant

- The pilot will be over a 24-month period and will provide evidence for future business case
- We would like to aim for 15 hospitals to establish proof of concept; to prove operational security and reporting capability
- We would like to utilise existing Pathology Networks configuration to enable support for the pilot- working specifically with 3 networks

# NBTC Indication Codes for Transfusion - Adults

Version 3

1



**INDICATION CODES FOR TRANSFUSION IN ADULTS – A SUMMARY OF  
PUBLISHED RECOMMENDATIONS  
2024 Update**

Due to be badged with BSH approval and released shortly.

# RTC Social Media



## NBTC Social Media Communications options February 2024

| Options                      | Activity   | Work required  | Notes   |
|------------------------------|--|--|---|
| Cease all Twitter activity   | Use NBTC website alone for news and communications         | Communication to transfusion community.<br>Option to improve site to include a staff only section for NBTC comms (financial cost). | Single point of information for NBTC.<br>Financial implication  |
| National account             | Cease RTC accounts and set up central NBTC Twitter account | Central governance.<br>Content build and approval<br>Admin support.<br>Monitoring comments   | Standalone account increases NBTC branding and messaging.<br>Comments can be deactivated on Twitter<br>Needs regular activity to maintain a following |
| Increase activity            | 7 active RTC Twitter accounts                              | Admin and setting up accounts.<br>Maintaining activity and governance as above   | Able to tailor news and events to regional activity   |
| Stay the same                | 3 active RTC Twitter accounts                              | Governance to move from PBMPs to someone else.<br>Content build and approval<br>Admin support.<br>Monitoring comments              |   |
| Merge with PBM/NHSBT account |  | NHSBT social media review due 2024 – future landscape of PBM accounts unclear.<br>Mixed messaging.                                 | Rejected due to changes within NBTC2 and branding issues.   |

# RTC education – national programme

- Education topics to be selected by NBTC working group and approved by NBTC
- Topics for 24/25: -
  - RCI (e.g., compatibility, urgent transfusion in tricky patients)
  - Obstetrics, Neonates
  - Haemoglobinopathies
  - Major haemorrhage and bleeding
  - Refusal of blood and alternatives including patient blood management.
  - Complications of transfusion including transfusion reactions
  - Plasma and Platelets

# Blood & Transfusion Research Unit.

## 1. National database

formed from patient records (governance)

→ PBM database

→ National transfusion database

Aim to onboard sites in the next 12-13 months

Identification of KPIs – what is already being collected

## 2. Health Economics

Where can data assist to reduce blood wastage?



# NHSBT Transfusion Training for Anaesthetists

- Anaesthetists second largest group who transfuse blood after haematology
- First dedicated online transfusion training package.
- Aims to promote transfusion practice (Transfusion 2024)
- Nine modules
- Covers importance of consent, particular in those who decline transfusion

<https://forms.office.com/e/6BZp4d0qek>



|   | Name of Module                           | Time to complete (mins) |
|---|--|-------------------------|
| 1 | Blood Donation                           | 12                      |
| 2 | Donor Testing                            | 8                       |
| 3 | Blood Group Systems                      | 12                      |
| 4 | Introduction to ABO Group Systems        | 22                      |
| 5 | Introduction to Antigen                  | 14                      |
| 6 | Antigens and Antibodies                  | 14                      |
| 7 | Introduction to Patient Blood Management | 16                      |
| 8 | Hazards of Transfusion                   | 11                      |
| 9 | Coagulation                              | 12                      |
|   | Total                                    | 121                     |



National  
Patient  
Safety Alert



Medicines & Healthcare products  
Regulatory Agency

## Reducing risks for transfusion-associated circulatory overload

|  |          |               |                      |
|--|----------|---------------|----------------------|
| Date of Issue:   | 4-Apr-24 | Reference No: | NatPSA/2024/004/MHRA |
| This alert is for action by: NHS and independent (acute and specialist) organisations where transfusions occur |          |               |                      |

### 1. Review and update policies, procedures and processes: -

- All transfusions are BSH, SHOT and NICE compliant
- TACO risk assessment used
- Consent to include TACO risk
- Guidance on management of TACO
- TACO investigation tool

### 2. Review, update, implement training

- TACO risk assessment
- Management of severe chronic anaemia in non-bleeding patient.
- Recognition and prompt management.
- Empower biomedical scientists to question prescribing.

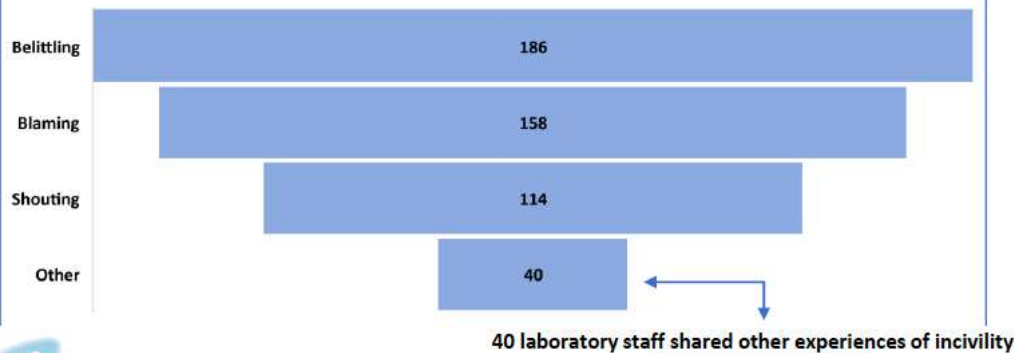
### 3. Undertake regular audit

**Actions to be completed by 4<sup>th</sup> October 2024**

2023 SHOT and UKTLC Transfusion Laboratory Culture Survey (NHS, Independent hospitals and UK Blood Services) Summary

Just under half of transfusion staff 228/479 (47.6%) had faced incivility in the workplace. These were mostly belittling, blaming, shouting and false accusations

Q16: If you selected 'Yes' (re. incivility) please select all which apply



40 laboratory staff shared other experiences of incivility



- ▲ 81.6% laboratory staff had been belittled
- ▲ 69.3% laboratory staff had been blamed
- ▲ 50% laboratory staff experienced shouting

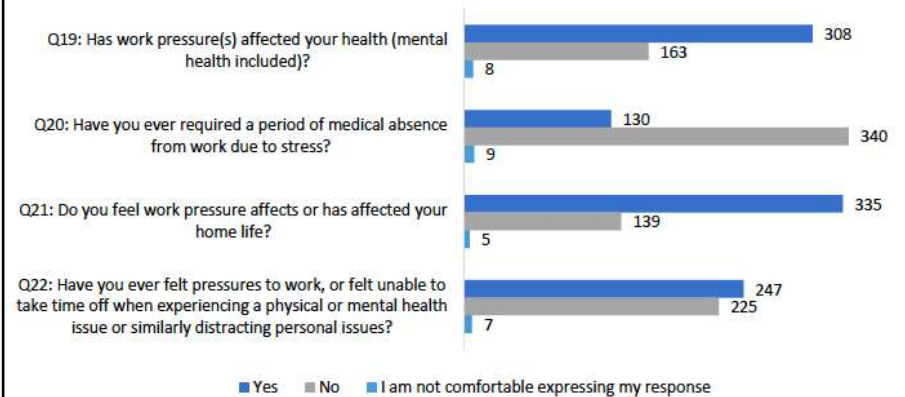
- ▲ False accusations
- ▲ Rudeness
- ▲ Aggression
- ▲ Ignoring
- ▲ Bullying



April 2024

Almost half, 225/479 (47.0%), of laboratory staff had either considered or moved roles or organisations due to concerns regarding safety culture

Personal impact from work pressures



- ▲ 64.3% laboratory staff's health including mental health had been affected by work pressures
- ▲ 70.0% laboratory staff feel that that work pressures had affected their home life

# **Transfusion Transformation Updated Symposium and Strategy**

- **National Blood Transfusion Committee, NHS Blood and Transplant & NHS England**
  - Wide stakeholder representation including Regional Transfusion Committees and Hospital Transfusion Committees, SHOT, Regulatory and commissioning bodies, Royal Colleges, Lab Managers and TP groups, UKTLC, Patient groups
- **Symposium 10<sup>th</sup> June 2024 at the Royal College of Surgeons**
- **Transfusion Strategy**

# Transfusion Transformation Symposium

## 10<sup>th</sup> June 2024

### **Introduction Stephen Powis**

#### **Session1: Preventing Inappropriate Blood Use**

1. Lessons from the Amber Alert
2. Evidence for Tranexamic Use in Surgery
3. Addressing anaemia
4. A new surgical pre-op pathway checklist

Panel Discussion

#### **Session 2: Improving safety and resilience**

1. Lessons from SHOT
2. IT connectivity and traceability
3. NHS digital transformation & transfusion
4. Alignment to Pathology Transformation

Panel Discussion

#### **Session3: Innovation to enhance patient care**

1. Lessons from the Infected Blood Inquiry
2. The untapped potential of Transfusion Practitioners
3. Better matched blood
4. Better data and metrics to support patient care

Panel discussion



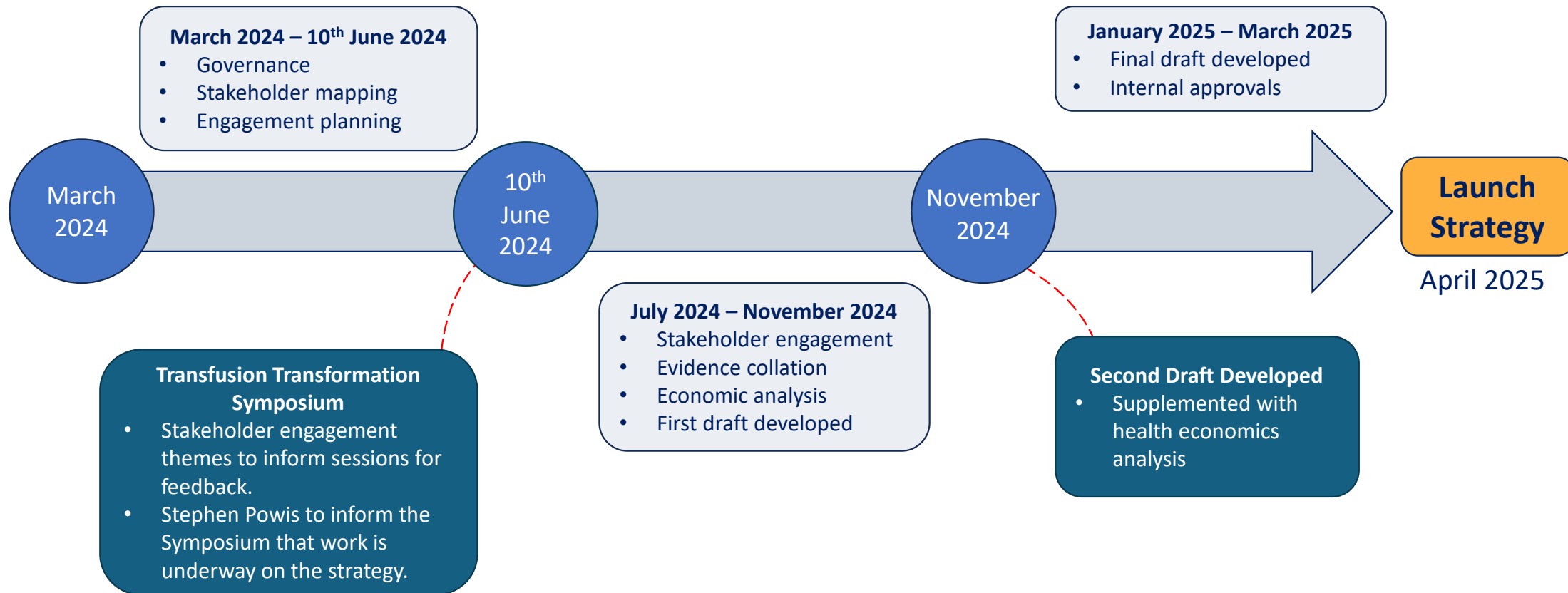
# Transfusion Transformation Strategy

3 key areas of focus :

- **Patient Blood Management – promoting appropriate use**
  - Key metrics
  - Benchmarking
  - Identifying and tackling barriers to improved practice
- **Digital Capability and Integration**
  - Electronic blood management systems within hospitals (inc developing standards for data collection)
  - Digital integration to include:
    - Blood supply management (data integration systems)
    - Diagnostic capability
- **Stabilising patient-facing Clinical and Scientific Workforce:**
  - enhanced focus on workforce development with refreshed alignment to pathology networks and integrated care systems.

Innovation across all 3 areas

# Suggested Timeline



# Asks from NBTC

Register for electronic requesting/reporting of free fetal RhD

Consider joining Hospital Blood Data Integration project

Use newly updated Indication codes for transfusion

Promote Transfusion training for anaesthetists online course

Register for National Haemoglobinopathy Registry

Come to Transfusion Transformation Symposium

Register for NICE QS 138 tool