

| Cover page  |                                       |
|---|---------------------------------------|
| Meeting   | Trust Board Meeting                   |
| Paper Title   | Transforming Care Institute Update    |
| Date of meeting   | Thursday 1 August 2019                |
| Date paper was written  | Monday 22 July 2019                   |
| Responsible Director  | Paula Clark – Interim Chief Executive |
| Author  | Louise Brennan – Acting KPO Lead      |
| Executive Summary   |                                       |
| <p>This paper describes how the Transforming Care Production System (TCPS) continues to support the implementation of the organisational strategy, improving the experience of patients, their families and our staff.</p> <p>This month's update, as requested by Trust Board is to provide assurance on:</p> <ul style="list-style-type: none"> <li>• Kaizen Promotion Office (KPO) involvement in the improvement plan to address concerns highlighted in the CQC report</li> <li>• Kaizen Promotion Office (KPO) structure and capacity</li> <li>• Trust Value Streams Update and progress</li> </ul> <p><b>Kaizen Promotion Office (KPO) involvement in the improvement plan to address concerns highlighted in the CQC report</b></p> <p>SaTH Guiding Team (Executives/ Non Executives / Kaizen Promotion Office (KPO) Lead / Virginia Mason Institute (VMI) Executive Transformation Sensei) have adjusted their focus to ensure the alignment of SaTH's improvement methodology (TCPS) underpins all of the activity to resolve the 92 CQC 'should dos' and 'must dos'.</p> <p>The SaTH Guiding Team agenda now includes, as a standard agenda item, to discuss and explore continuous improvement, to move out the Trust out of special measures, through Good to Outstanding.</p> <p>The KPO Team continues to support the Improvement Steering Groups (ISG) and the Enablement and Engagement Group.</p> <p>The TCPS methodology is being used to address root causes, and events have been held, or are being planned. The KPO Team have also been providing information and metrics to support the development of key performance indicators.</p> <p><b>Kaizen Promotion Office (KPO) Structure and Capacity</b></p> <p>This paper describes and explores the current KPO structure and capacity.</p> <p>The KPO Lead position remains vacant and therefore has created a potential delay and risk to the progress of the TCPS spread in SaTH.</p> |                                       |

### Trust Value Stream Update and progress

SaTH's Guiding Team are keen to align the organisational priorities and goals to the next value stream. The current value streams are being reviewed by the Value Stream Sponsor Teams, with a plan to transition VS#2 Sepsis, VS#3 Non-Medical Recruitment, VS#4 OPD Ophthalmology and VS#7 Radiology value streams back to the appropriate support groups.

Previously  
considered by

Sustainability Committee Meeting (July 2019)

### The Board (Committee) is asked to:

| <input type="checkbox"/> Approve  | <input type="checkbox"/> Receive   | <input checked="" type="checkbox"/> Note                               | <input type="checkbox"/> Take Assurance                            |
|---|--|--|--|
| To formally receive and discuss a report and approve its recommendations or a particular course of action | To discuss, in depth, noting the implications for the Board or Trust without formally approving it | For the intelligence of the Board without in-depth discussion required | To assure the Board that effective systems of control are in place |

| Link to CQC domain:           |   |                                 |                                     |                                   |
|-------------------------------|---|---------------------------------|-------------------------------------|-----------------------------------|
| <input type="checkbox"/> Safe | <input checked="" type="checkbox"/> Effective | <input type="checkbox"/> Caring | <input type="checkbox"/> Responsive | <input type="checkbox"/> Well-led |

|   |   |  |  |  |
|---|---|--|--|--|
| Link to strategic objective(s)            | <i>Select the strategic objective which this paper supports</i> |  |  |  |
|   | <input checked="" type="checkbox"/>                             | PATIENT AND FAMILY Listening to and working with our patients and families to improve healthcare       |  |  |
|   | <input checked="" type="checkbox"/>                             | SAFEST AND KINDEST Our patients and staff will tell us they feel safe and received kind care           |  |  |
|   | <input checked="" type="checkbox"/>                             | HEALTHIEST HALF MILLION Working with our partners to promote 'Healthy Choices' for all our communities |  |  |
|   | <input checked="" type="checkbox"/>                             | LEADERSHIP Innovative and Inspiration Leadership to deliver our ambitions                              |  |  |
| Link to Board Assurance Framework risk(s) | <input checked="" type="checkbox"/>                             | OUR PEOPLE Creating a great place to work  |  |  |
|   |   |  |  |  |

|  |  |
|--|--|
| Equality Impact Assessment               | <input checked="" type="radio"/> Stage 1 only (no negative impact identified)<br><input type="radio"/> Stage 2 recommended (negative impact identified and equality impact assessment attached for Board approval)   |
| Freedom of Information Act (2000) status | <input checked="" type="radio"/> This document is for full publication<br><input type="radio"/> This document includes FOIA exempt information<br><input type="radio"/> This whole document is exempt under the FOIA |
| Financial assessment                     | <i>Is there a financial impact associated with the paper?</i>  |

## Main Paper

### Situation

#### **Kaizen Promotion Office (KPO) involvement in the improvement plan to address concerns highlighted in the CQC report**

The KPO Team continue to support the Trust's Quality Improvement Plans (QIP), and as the organisation continues to improve, there is a 'pull' for the KPO Team to provide bespoke training on topics within the TCPS methodology to support the actions within the QIP.

To facilitate this work:

- A member of the KPO Team is a core member of each CQC work stream
- TCPS methodology will underpin improvements of the 'must do' and 'should do' recommendations
- A Senior KPO Team member is a core member of both the CQC PMO and Engagement and Enablement Group.
- SaTH Guiding Team has reviewed priorities to support this work and 3 value streams will transition into operational management teams to create the KPO and GTM capacity to give the necessary focus.

The KPO Team plan to provide the PMO Team with bespoke training on elements of TCPS so that they are able to suggest and champion the methodology through the Improvement Steering Group (ISG) meetings. The KPO Team are also keen to support pre CQC inspection engagement.

#### **Kaizen Promotion Office (KPO) Structure and Capacity**

- KPO capacity will be challenged in the short term as our KPO Lead left the Trust at the end of March 2019. The recruitment process has not resulted in appointment to the position therefore the KPO Lead role remains vacant. The senior KPO Specialist continues to act up into the role whilst the job description and person specification is reviewed and the position is re-advertised
- Secondments within the KPO Team are going well.
- Following the successful recruitment of a KPO Specialist, they have now commenced in post. The KPO Specialist will undergo Advanced Lean Training in September 2019, with a plan to be fully accredited during the next 4-6 months.
- The new Trust Executives who have recently commenced in post within the Trust have now received their onboarding packs to support their TCPS journey.
- Over 4530 staff have now received 30 minutes or more of TCPS training.
- Over 1100 staff have now used the methodology to make improvements within the Trust.
- Over 50 participants will commence their 2019/20 Lean for Leaders training in July 2019.

#### **Trust Value Stream Update and Progress**

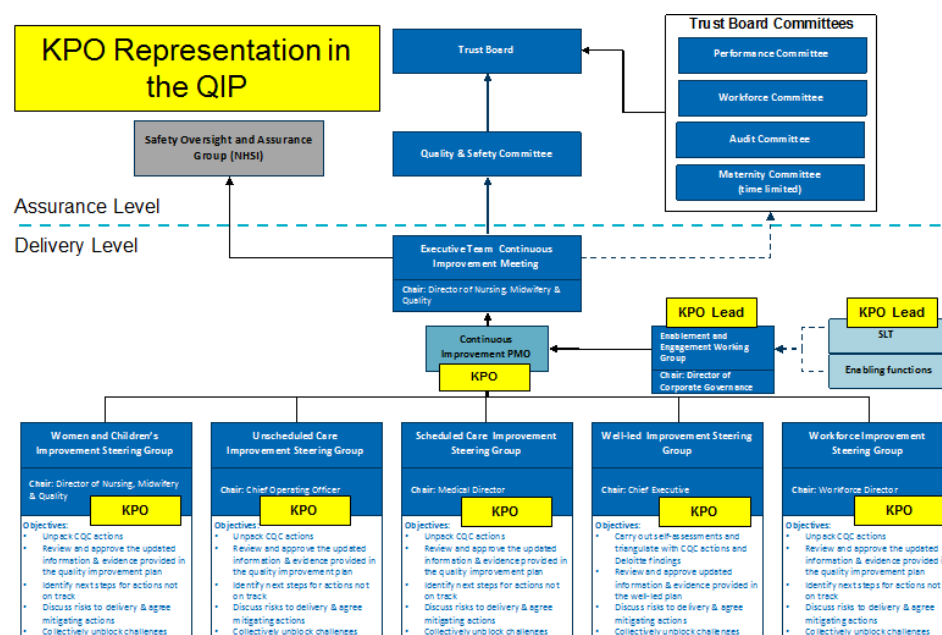
SaTH Guiding Team are keen to align the organisational priorities and goals to the next value stream. Current value streams are being reviewed by the Value Stream Sponsor Teams with a plan to transition VS#2 Sepsis, VS#3 Non-Medical Recruitment, VS#4 OPD Ophthalmology and VS#7 Radiology value streams back to the appropriate support groups.

### Background

#### **Kaizen Promotion Office (KPO) involvement in the improvement plan to address concerns highlighted in the CQC report**

The KPO Team continues to support the delivery of actions linked to the CQC 'must do' and 'should do' actions.

The KPO Team attend the Improvement Steering Group (ISG) meetings, as well as the Engagement and Enablement Group.



A program of activity is starting to be developed by the ISG Groups, identifying how the TCPS methodology can support improvements across the Trust. To date, some of the activities have been completed and others are planned.

There are further opportunities for the KPO Team to support with future work and we have seen an interest to use the TCPS structure to develop a KPI to evidence sustainability.

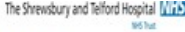
| Improvement Steering Group | Use of TCPS/KPO Support  |
|----------------------------|--|
| Women's and Children's     | <ul style="list-style-type: none"> <li>➤ KPO representation at ISG (Fortnightly)</li> <li>➤ Standard QI/Peoplelink Boards (Completed)</li> <li>➤ Process flow of the complaints process (TBC)</li> <li>➤ Set up reduction with implementation of community midwife kit bags (completed)</li> <li>➤ Standardised handovers (Completed)</li> <li>➤ Standard work for leaders developed. (Completed)</li> </ul>   |
| Unscheduled Care           | <ul style="list-style-type: none"> <li>➤ KPO representation at ISG (Fortnightly)</li> <li>➤ Refocus Value Stream Sponsor Development day to include QIP actions (14<sup>th</sup> June)</li> <li>➤ Documentation Kaizen Event day (18<sup>th</sup> June)</li> <li>➤ 5S session to support environmental improvements in ED (17<sup>th</sup>/18<sup>th</sup> June)</li> <li>➤ Sepsis value stream work supporting KPI metrics to evidence roll out of sepsis boxes. (Ongoing)</li> </ul> |
| Scheduled care             | <ul style="list-style-type: none"> <li>➤ KPO representation at ISG (Fortnightly)</li> <li>➤ 5S event- End Of Life Equipment (Completed May 2019)</li> <li>➤ Roll out of Sepsis Value Stream Work supported by Sepsis Nurse</li> </ul>  |
| Well Led                   | <ul style="list-style-type: none"> <li>➤ KPO representation at ISG</li> <li>➤ Innovation session to explore align the transformation cultural continuum with Key Lines of Enquiries. (TBC)</li> <li>➤ Innovation session about standard work (TBC)</li> <li>➤ Kaizen strategy event (TBC)</li> <li>➤ Review of Patient Safety Value Stream work and develop</li> </ul>   |

|                           |  |
|---------------------------|--|
|                           | roll out plan  |
| Workforce                 | <ul style="list-style-type: none"> <li>➤ KPO representation at ISG (Fortnightly)</li> <li>➤ Kaizen event- on boarding (September 2019)</li> <li>➤ Rapid Process Improvement Event- Medical Job Planning (October 2019)</li> <li>➤ Roll out plan of the Recruitment Value Stream work</li> </ul>  |
| Enablement and Engagement | <ul style="list-style-type: none"> <li>➤ KPO representation at ISG (Monthly)</li> <li>➤ Peoplelink Board training sessions (Ongoing)</li> <li>➤ Peoplelink report out video (available on intranet)</li> <li>➤ Input to Improving together newsletter (monthly)</li> <li>➤ Supporting the development of the SaTH Staff App</li> <li>➤ Supporting Learning Disability Academy planning meetings</li> </ul> |

### Kaizen Promotion Office (KPO) Structure and Capacity


The KPO Team is going through a period of change and despite the KPO Lead position remaining vacant, the KPO Team have continued to meet the demands and expectations of the organisation and remained focused on supporting quality improvements at SaTH.

The A3 (below) has been created by the KPO Team, in collaboration with key stakeholders, to identify our current and future state for TCPS. The A3 helps to guide the improvement work and identify possible associated risks. The next key piece of work is to align the improvement work with the organisational priorities, to evaluate stakeholder engagement and future proof the sustainability of TCPS at SaTH.


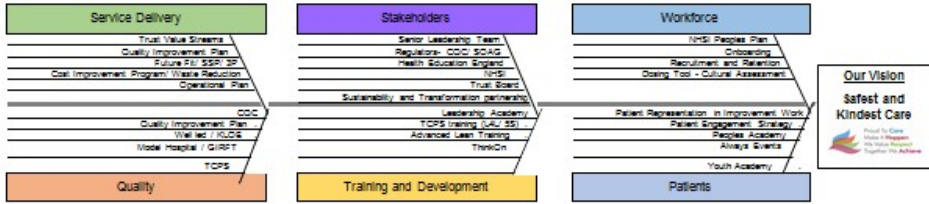






The Shrewsbury and Telford Hospital NHS Trust

## A3



TRANSFORMING CARE INSTITUTE

|  |  |   |                                |
|--|--|---|--------------------------------|
| <b>A3 Topic:</b><br><i>How continuous improvement can help address the challenges at SaTH and improve the quality of care for our patients.</i>  |  | <b>Date:</b><br>June 2019   | <b>Plan owner:</b><br>KPO Lead |
| <b>Contributors:</b><br>Tony Fox, Edwin Borman, Ben Reid   |  | <b>Contributors:</b><br>Paula Davies, Nigel Lee, Julie Waters, KPO Leads (Partnership trusts)   |                                |
| <b>Background:</b><br>The Trusts approach to quality improvement requires a cultural investment in continuous improvement to create a sustainable long term improvement approach which will take the organisation from our current rating of 'inadequate' to 'outstanding'. Utilising our Transforming Care Production System (TCPS) methodology, we will robustly address the CQC actions as well as provide the structure for continuous quality improvement.<br><b>Objectives and Priorities for 2019/20</b> <ul style="list-style-type: none"> <li>To move beyond Special Measures</li> <li>To achieve our agreed performance trajectories</li> <li>Be a sustainable organisation</li> </ul> |  | <b>Future State:</b> <ul style="list-style-type: none"> <li>Quality Improvement Board</li> <li>Dosing Formulation</li> <li>Stakeholder engagement</li> <li>Engagement with STP</li> <li>Engagement with the Board</li> <li>Post Partnership with VMI</li> <li>Patient Engagement Strategy</li> <li>Sustainability of Kaizen at SaTH</li> <li>Support OD plan</li> <li>Digitalisation at SaTH</li> <li>Kaizen to be the core business at SaTH</li> </ul> |                                |
| <b>Current State:</b><br>   |  | <b>Plan:</b> <ul style="list-style-type: none"> <li>Structure of KPO team</li> <li>On boarding of new leaders</li> <li>PDSA of training offer</li> <li>Support visits to showcase the work</li> <li>Incorporate ThinkON</li> <li>Support Always events</li> <li>Support Quality Improvement Plan (PMO)</li> <li>Support development of Quality Improvement Board</li> </ul>   |                                |
| <b>Target Metrics:</b> <ul style="list-style-type: none"> <li>To move beyond Special Measures</li> <li>To achieve our agreed performance trajectories</li> <li>Be a sustainable organisation</li> <li>Value stream metrics linked to patient quality outcomes</li> <li>Metrics for continuous improvement</li> </ul>   |  | <b>Barriers:</b> <ul style="list-style-type: none"> <li>Influence at board</li> <li>Focus on cost savings at expense of continuous improvement</li> <li>Target culture unclear</li> <li>Unsettled KPO team</li> <li>Limited ability to accredit leaders</li> </ul>  |                                |
| <b>Analysis:</b><br><div style="display: flex; align-items: center;"> <div style="flex: 1;"> <p><b>Fishbone Diagram / Ishikawa Diagram</b></p> <p>Identifying where continuous improvement can support delivery of the trust vision of safest and kindest care for patients.</p> </div> <div style="flex: 4;">  </div> </div>  |  |   |                                |

### Assessment

#### Kaizen Promotion Office (KPO) Structure and Capacity

The partnership with Virginia Mason Institute is now in its fourth year.

The purpose of the partnership was to support the development of TCPS at SaTH. This included

setting up a KPO Team and coaching support to get SaTH to a position of being self-sustaining. To become self-sustaining would mean that as an organisation there are staff trained to deliver Advanced Lean Training (ALT) and able to assess and accredit staff through Rapid Process Improvement Weeks (RPIW).

Currently at SaTH there is only one member of staff (Senior KPO Specialist) that is part way through being able to deliver ALT and to assess/accredit. This would mean we are not yet at a place of self-sustaining and would require support and commitment from the organisation to continue the KPO development.

The KPO Lead position remains vacant meaning that the KPO Team is not up to full capacity.

The KPO Team are keen to support at pace the improvements required at SaTH but there is a risk that this may be delayed due to the unfilled position in the KPO Team.

July, 2019

KPO TEAM DEVELOPMENT RECORD

| NAME                | Role                         | ALT<br>trained | ALT<br>TEACH<br>Part 1&2 | SDD<br>LEAD | VST<br>Sponsor<br>DET | TL<br>Accredited | WSL<br>Accredited | Assessor<br>for TL and<br>WSL | L4L<br>ODACH | Teach<br>L4L S1 | Teach<br>L4L S2 | Teach<br>L4L S3 | Teach<br>L4L S4 | Teach<br>L4L S5 | Teach<br>L4L S6 | L4L<br>GENRA | RPIW Away<br>Team<br>Member |
|---------------------|------------------------------|----------------|--------------------------|-------------|-----------------------|------------------|-------------------|-------------------------------|--------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|-----------------------------|
| VACANT POSITION     | KPO Lead                     |                |                          |             |                       |                  |                   |                               |              |                 |                 |                 |                 |                 |                 |              |                             |
| Louise Brennan      | Senior KPO Specialist        | Y              | Y-Part 1                 | Y           | Y                     | Y                | Y                 | Y - Team Lead only            | Y            | Y               | Y               | Y               | Y               | Y               | Y               | Y            | Y                           |
| Richard Stephens    | KPO Specialist               | Y              | N                        | Y           | Y                     | Y                | Y                 | Y                             | Y            | Y               | Y               | Y               | Y               | Y               | Y               | Y            | YVM 2018                    |
| Maria Claire Wigley | KPO Specialist               | Y              | N                        | Y           | Y                     | Y                | Y                 | Y                             | Y            | Y               | Y               | Y               | Y               | Y               | Y               | Y            | Y                           |
| Richard Tudor       | KPO Specialist (DIN)         | N              | N                        | N           | N                     | N                | N                 | N                             | N            | N               | N               | N               | N               | N               | N               | N            | YVM 2017                    |
| Carla Webster       | KPO Facilitator              | N              | N                        | N           | N                     | N                | N                 | N                             | N            | N               | N               | N               | N               | N               | N               | N            | Y                           |
| Rachel Hammer       | KPO Administrator            | N              | N                        | N           | N                     | N                | N                 | N                             | N            | N               | N               | N               | N               | N               | N               | N            | YVM 2018                    |
| Vivienne Herbert    | KPO Facilitator              | N              | N                        | N           | N                     | N                | N                 | N                             | Y            | Y 1/2           | N               | N               | N               | N               | N               | N            | Y                           |
| Paula Dobbs         | Non KPO Head of OD           | Y              | N                        | N           | Y                     | Y                | Y                 | N                             | N            | N               | N               | N               | N               | N               | N               | N            | Y                           |
| Paula Davies        | Non KPO Head of Procurement  | Y              | N                        | N           | Y                     | Y                | Y                 | N                             | N            | N               | Y               | N               | N               | N               | N               | N            | N                           |
| Steve Jones         | Non KPO- SSP                 | Y              | N                        | N           | N                     | Y                | N                 | N                             | N            | N               | N               | N               | N               | N               | N               | N            | N                           |
| Tony Fox            | Medical KPO link             | Y              | N                        | N           | Y                     | Y                | Y                 | N                             | N            | N               | N               | N               | N               | N               | N               | N            | N                           |
| Alan Jackson        | Non KPO- Biomedical Sciences | Y              | N                        | N           | Y                     | Y                | N                 | N                             | N            | N               | N               | N               | N               | N               | N               | N            | N                           |

Key:

Not Completed

In progress/ part completed

Completed and assessed

Not required

Required to embed TCPS training without VMI support

ALT- Advanced Lean Training

SDD- Sponsor Development Day

VST- Value Stream Sponsor Team

TL- Team Lead

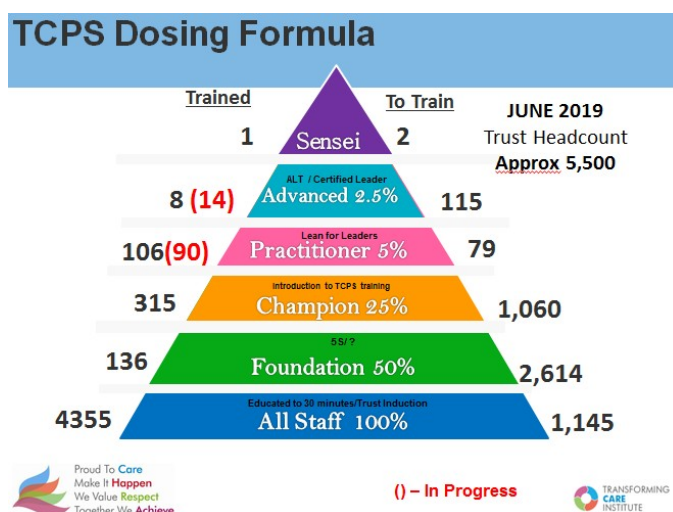
WSL- Workshop Lead

L4L- Lean for Leader

S1- Session 1,2,3,4,5,6

RPIW- Rapid Process Improvement Week/Workshop

The Cultutral TCPS Dosing Formula (below) identifies the number of staff required to be trained at certain levels in TCPS before it has an impact on the improvement culture at SaTH. The KPO Team is using this formula to revise TCPS training and create objective for the next 12 months.





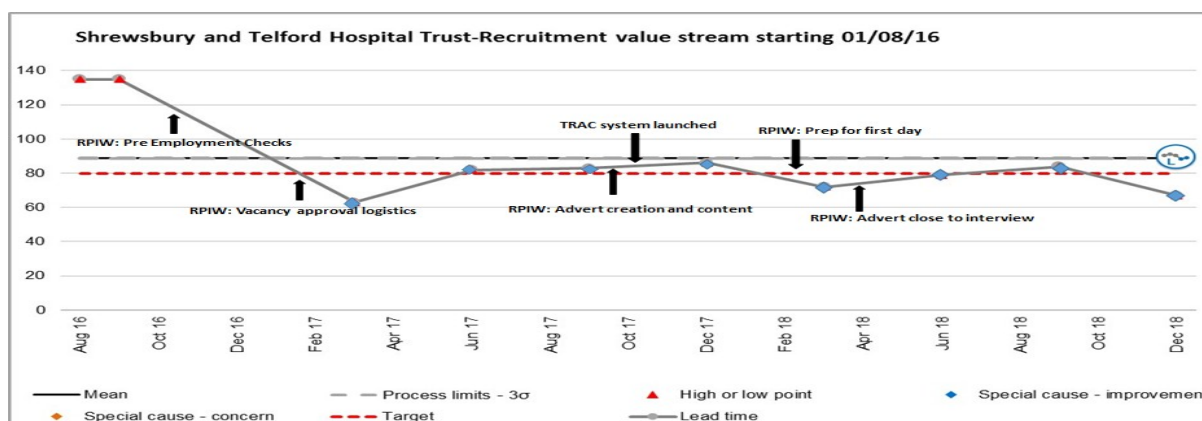
### VS#2 (Sepsis) Executive Sponsor: Edwin Borman

The plan for the value stream is to develop a roll out plan ready for the value stream to be transitioned back to the care group with the support of the Sepsis Nurse Practitioner and Sepsis Champions.

### VS#3 (Medical Recruitment) Executive Sponsor: Victoria Rankin

A Value Stream Development Day was held in February 2019, and a programme of improvement work focusing on Medical Recruitment has been made; a kaizen event is planned for September 2019.

The non-medical recruitment pathway has seen a sustained reduction in lead time as displayed in the SPC chart (below). The plan is to transition the non-medical pathway back to the Recruitment Team, and they will continue the improvements.



### VS#4 (OPD Ophthalmology) Executive Sponsor: Tony Fox

The OPD Ophthalmology Value Stream has delivered key improvements on quality, safety and finance:

- Updated patient focused appointment letter
- Much improved patient experience at clinic with introduction of visual cards explaining clinic process.
- Cost saving due to ensuring zero defects for patients being taken to correct clinic by hospital transport
- Improved patient experience and cost saving by ensuring patients do not arrive for cancelled appointment with change to electronic process for sending letters
- Improved patient choice due to calling all patients when changing appointment

The plan for the value stream is to develop a roll out plan ready for the value stream to be transitioned back to the care group.

### VS#5 (Patient Safety) Executive Sponsor: Barbara Beal (TBC)

The Patient Safety Value Stream has successfully implemented many improvements within Women and Children's:

- Safety huddle implemented with 100% compliance to standard work at 30 days
- 80% reduction in time (229mins to 90mins) following an incident to reporting an incident
- 5S achieved Level 3 for the environment of the antenatal office
- Production board implemented to support requirement for daily safety huddle
- 50% reduction in time to complete and submit a DATIX form from 8 mins to 4 mins using 5S
- Safety Huddle rolled out to Wrekin MLU and peripheral MLUs
- Development of process for use of ipad for completion of DATIX and review of DATIX in Safety Huddle



- 99% Reduction in lead time from incident reported to investigation completed
- 100% improvement in the number of incidents not investigated in the ward managers absence

The sponsor team are now reviewing membership and updating the kaizen plan to include roll out.

#### **VS#6 (Emergency Department) Executive Sponsor: Sara Biffen**

The Emergency Department Value Stream held a re-Launch Sponsor Development Day in June 2019 to process flow the pathway to identify improvements and bring together all quality improvement work within ED. This involved over 30 members of staff from both sites. The ED team identified the next key areas of improvement work, aligning it into the quality improvement plan.

#### **VS#7 (Radiology) Executive Sponsor: Julia Clarke**

The Radiology Value Stream has seen many improvements such as:

- 98% reduction in time taken to vet CT requests
- 100% reduction in defective CT cards
- 65% reduction in reporting CT scans
- 50% reduction in scans awaiting review and reporting over 7 days
- 62% reduction in time preparing patient for scan
- 60% reduction in time for CT scan report available and sent to referrer

The plan for the value stream is to develop a roll out plan ready for the value stream to be transitioned back to the care group.

#### **VS#8 (Surgical Pathway) Executive Sponsor: Nigel Lee**

It is noted that winter and elective surgery difficulties have impacted on the value stream metrics.

On the 2 May 2019 an event was arranged to share and showcase the improvement work. There are discussions within the sponsor team on how to get senior clinician engagement, in particular for the next RPIW which will focus on consent. There are other improvement teams currently within Scheduled Care e.g. FourEyes; the Care Group/KPO Team plan to map out who is doing what so it is clear and transparent.

[See Appendix 1: SaTH TGB report for current status **in information pack**].

As well as the 7 value streams, the KPO Team provide support to the Lung Cancer Pathway team who have created a value stream group to guide and support improvements to the patient pathway.

#### **Recommendation**

Trust Board are asked to note:

- SaTH Guiding team are keen to explore and develop the next Trust value streams to support the organisational priorities
- There is an opportunity for the TCPS work to be more incorporated into how SaTH address the CQC actions.
- The KPO Lead position remains vacant and the impact on the KPO Team structure, capacity and pace of the improvement work at SaTH.



# **NHS Partnership with Virginia Mason Institute**

## **Transformation Guiding Board**

*June 2019*

### ***Report Out***

**The Shrewsbury and Telford Hospitals NHS Trust  
Transforming Care Production System**



ORGANISATIONAL STRATEGY  
BELONG TO SOMETHING



## KEY ACHIEVEMENTS

### Trust Board Development Session

- The KPO Team facilitated a 90 minute 'report out' style summary of improvement work that has been undertaken by SaTH staff using the Transforming Care Production System (TCPS) methodology
- The session ran in 3 parts giving an introduction to how 5S, Lean for Leaders and the Value Stream work has improved process for our patients and staff, and resulted in safer and kinder care.
- Over 30 members of staff 'reported out' their improvement work.



Trust board Development Session held 30 May 2019  
Transforming Care Production System Report Out



### Trust Wide Improvements

A recent visit at SaTH by the *Care Quality Commission (CQC)* Head Inspector Professor Ted Baker and CQC Chair Peter Wyman gave SaTH staff a further opportunity to showcase their improvement work. They spent time during these visits on the genba with Lean for Leaders:

- Ward 6, Cardiac Ambulatory and Cardiac Unit with Janet Kay, Sarah Kirk and Donna Moxon
- HDU / ITU with Steph Young and Karen Sargeant
- Microbiology / Pathology with Alan Jackson – Head of Biomedical Science, Emma Bentley – Specialist Science Practitioner, Tracy Bennett – Specialist Science Practitioner and Lyndsey Green – Specialist Science Practitioner
- Blood Sciences with Tammy Davies – Biochemistry Manager, and Emma Tranter – Biochemistry Manager
- ITU with Jane Davies – ITU Ward Manager
- Radiology with Julia McAdam – Specialist Nurse (Lung Cancer)

During the visits they were able to see first-hand, the passion and enthusiasm of the next generation of leaders for continuous improvement and improvement methodology.

The CQC team reported back that they saw '*a drive and determination by the teams, but also an openness to change and improve*'.



# Value Stream #1 – Respiratory Discharge



## Improvement

| Reference | Improvement Action          | Expected Outcome                                      |
|-----------|-----------------------------|---|
| 1         | Huddles                     | Daily for each team – consistent and reliable process |
| 2         | Production Boards           | Owned by departments – used for huddle                |
| 3         | People link boards          | Used for mini monthly report outs and Kaizen plan     |
| 4         | Kaizen                      | 5 S approach embedded                                 |
| 5         | Board round                 | Consistent and reliable process established           |
| 6         | Ward round                  | Consistent and reliable process established           |
| 7         | Internal discharge planning | Consistent and reliable process established           |
| 8         | Handover                    | Consistent and reliable process established           |
| 9         | Afternoon Huddles           | Consistent and reliable process established           |
| 10        | Patient Discharge           | Consistent and reliable process established           |



| March summary   |
|---|
| Corporate nursing continuing to support through and discussed at NMF  |
| Ongoing PDSA and promotion of production boards across all areas - Lean for leaders completed teaching to support the final few production boards |
| People Link Board workshop held – also added to TCI Monthly 1 hour training programmes  |
| Nursing and therapy notes PDSA ward 10  |
| Ongoing and monitoring of the Standard work application   |
| Ward round standard work ongoing support and monitoring and MFFD standard work roll out and audit of compliance                                   |
| ECIST in reach support to merge the VS5 with 4 questions for all patients   |
| Report established to measure time of transfer to ward – PDSA in place to attend AMU huddle to pull patients –                                    |
| Displaying all pre 12 detail at ward level – PDSA at RSH for list to be sent post huddle to discharge lounge coordinator for early pull.          |
| Ward 6 and 11 Kaizen events for TTO's   |

Ward round standard work shared across all areas it was created following Value Stream 1 in the respiratory value stream and reflects the SHOP model seen in the SAFER programme

| Metric (units of measurement)                   | Target | 6   | 7  | 9   | 10   | 11   | 15   | 16   | 21   | 22r/27 | 24  | 28  | 32   |
|---|--------|-----|----|-----|------|------|------|------|------|--------|-----|-----|------|
| % of Time Ward Round follow Standard Work model |        |     |    |     |      |      |      |      |      |        |     |     |      |
| January (Base Line)                             | 0%     | 60% | 0% | 0%  | 60%  | 100% | 100% | 0%   | 0%   | 80%    | 20% | 80% | 100% |
| March   |        | 80% | 0% | 90% | 100% | 0%   | 100% | 100% | 100% | 100%   | 80% | 80% | 0%   |

**Wards that have achieved 100% means that the consultant sees patients in the following order:**

- sick/unstable patients
- potential discharges if discharge will be delayed by following 'normal order'
- all remaining patients.

## Supporting RPIWs/Kaizen Events for Value Stream 1

|  | Value Stream 1: Respiratory Discharge          | Progress<br>30,60,90 +<br>days | Plan for roll out (post 90 days)   |
|--|--|--------------------------------|--|
| <b>RPIW #1:</b> 07 Mar 2016                      | Front Door: Diagnosis of Respiratory Condition | Closed                         | Kaizen event on AMU held for further improvement outcome new policy re bed use |
| <b>RPIW #2:</b> 20 June 2016                     | Internal Discharge Planning.                   | Closed                         | Kaizen event for FFA requirements used to develop this work                    |
| <b>RPIW #3:</b> 10 Oct 2016                      | Ward Round                                     | Closed                         | Linked to safer work   |
| <b>RPIW #4:</b> 23 Jan 2017                      | Handover                                       | Closed                         | Afternoon (4pm) board round huddle being spread as standard work               |
| <b>RPIW #5:</b> 3 April 2017                     | Board Round                                    | Closed                         | Being developed into standard work   |
| <b>RPIW #6:</b> 25 Sept 2017                     | Patient discharge from Ward                    | Closed                         | Kaizen event on stroke ward used to spread approach                            |
| <b>RPIW #7:</b> 5 March 2018<br>(Care group led) | Criteria Led Discharge                         | Closed                         | PDSA commenced on additional wards   |
| <b>RPIW #8:</b> Nov 2018                         | Complex Discharge                              | Closed                         |  |

### Major improvements/benefits:

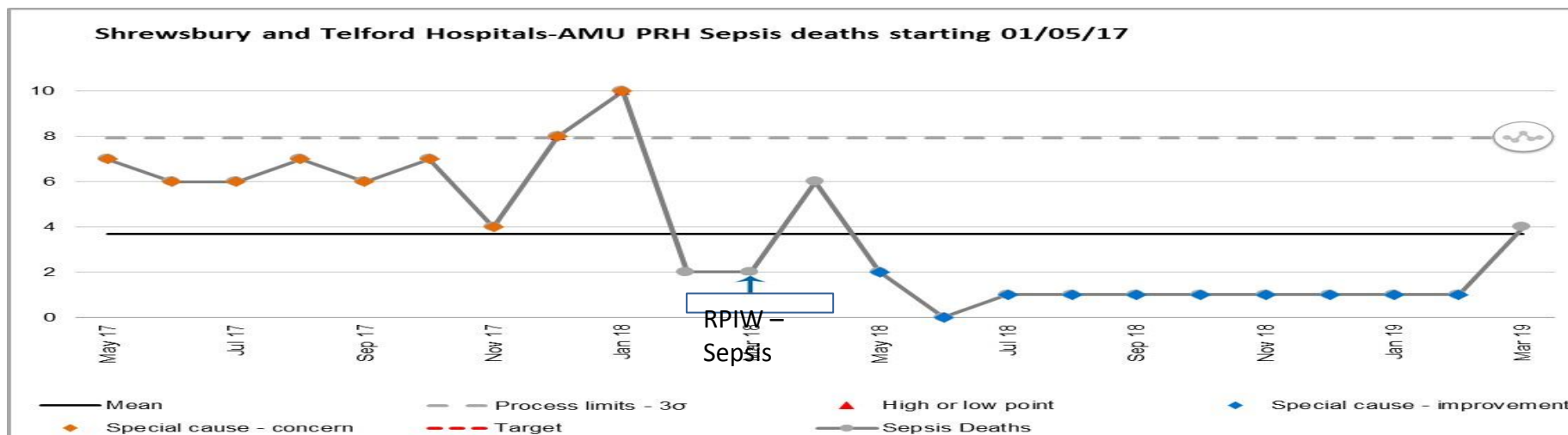
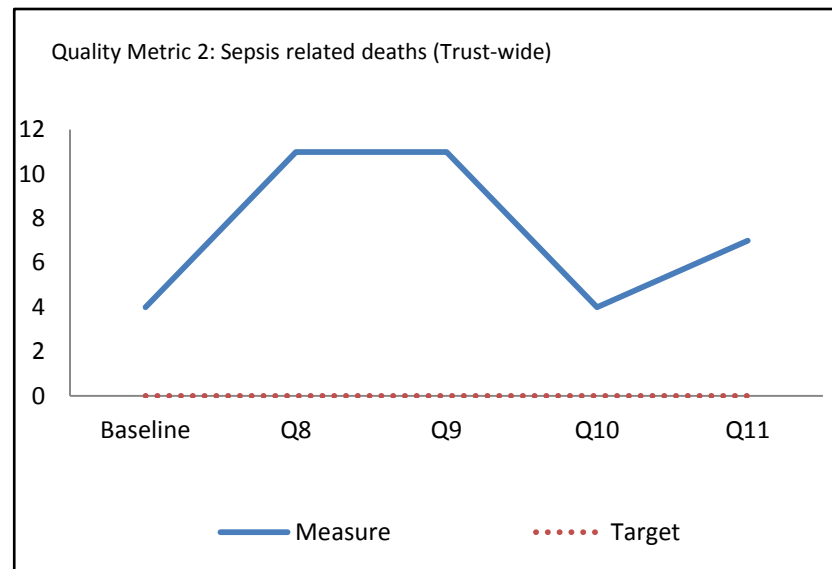
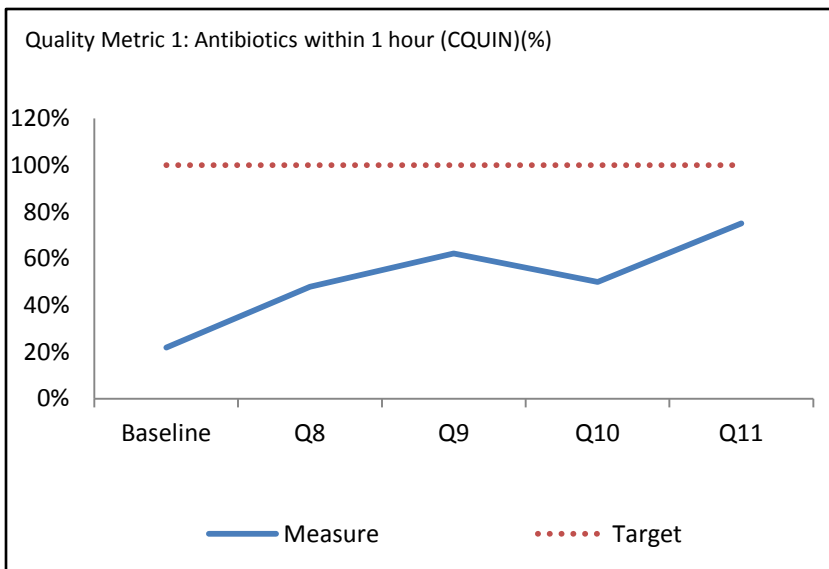
**Date of last update: June 2019**

- **13 different quality improvements** made and sustained to the respiratory discharge process
- **11** quality improvements implemented within Ward 9 (Respiratory, PRH), 10 quality improvements implemented within AMU, PRH. Focus now on AMU, PRH and Ward 27 at RSH
- **32 non value adding hours** removed from respiratory discharge process (per patient)
- **1357 clinical steps removed** from the respiratory discharge process (per patient)
- Implementation very much supported by Lean Leaders on 3 out of 4 genbas, including ward managers, matrons, respiratory Consultants
- **Average length of stay reduced by 2 days (30% reduction) and 6% increase in spells**

# Value Stream #2 – Sepsis

Data metrics: June 2019

Exec sponsor: Edwin Borman





## Value Stream #2 – Sepsis – A3

### SEPSIS VALUE STREAM A3

**Goal:** Recognition and delivery of the complete Sepsis Bundle within 60 mins

**Executive Sponsor:** Edwin Borman

**Sponsor Team:**  
 Rebecca Hawkins (Antibiotic Pharmacist); Alan Jackson; Fiona Jutsum (Consultant Anaesthetist); Emma Salvoni (SAU RSH); Sam Hooper (Programme Manager); Hannah Pope (AMU RSH); Corrin Dorsett (ITU RSH); Louise Ingrouille-Grove (ITU RSH); Kofi Asante (Junior Doctor)

**KPO Support:**  
 Marie Claire Wigley

**Aim Statement/Target Condition**

Sepsis is a major cause of death for patients who need hospital care due to infection. However, with rapid diagnosis and treatment according to guidelines, mortality can be reduced dramatically.

100% of Patients in SATH should be screened for Sepsis appropriately and receive their full Sepsis Bundle within 60 minutes of recognition.

Process Description: Initial presentation with signs and symptoms of Sepsis. All Elements Met  
 Initial presentation with signs and symptoms of Sepsis. All Elements Met  
 How often I have received all elements of the Sepsis Bundle: 100% Future State

Author: Richard Stephens, Nick Houlden  
 Date prepared: 22/2/19

| The Plan to Improve:                |                 |                               |  |                                |
|-------------------------------------|-----------------|-------------------------------|--|--------------------------------|
| RPIW Topic                          | Sponsor         | Process Owner                 |  | Date                           |
| Recognition and Screening of Sepsis | Jo Banks        | Viola Jones                   |  | 25-29 <sup>th</sup> April 2016 |
| Delivery of Sepsis Bundle           | Alan Jackson    | Andrea Walton                 |  | 8-12 <sup>th</sup> August 2016 |
| Inpatient Diagnosis of Sepsis       | Clare Walsgrove | Wilf Cadelina                 |  | 5-9 December 2016              |
| Blood Sample Turnaround             | Rebecca Hawkins | Karen Gibson/ Lynette Eardley |  | 8-12 May 2017                  |
| Sharing of Sepsis Learning          | Edwin Borman    | Hannah Adkins                 |  | 19-23 March 2018               |

| Value Stream Action Plan  |  |                             |  |
|---|--|-----------------------------|--|
| Focus Area  | Activity <small>List activities in support of the focus areas</small>                    | Target Completion Date      | Completed  |
| Some ward and department areas do not see regular Sepsis Cases  | Simulation training for wards and departments who do not see regular Sepsis cases        | August 2019                 |  |
| Sepsis Nurse / Practitioner funding not agreed  | Sepsis Nurse/Practitioner to be discussed at SLT regarding funding                       | 12 <sup>th</sup> March 2019 | Completed – Sepsis Practitioner advertised, closing date 17/04/19        |
| Assessment and Documentation tools have been introduced - ? being utilised                              | Kaizen event for use of assessment and documentation tool                                | September 2019              |  |
| Recommendation by the Guiding Team for the Value Stream to be transitioned                              | Prior to transition Sepsis Nurse/Practitioner and Sepsis working group to be in place.   | Review September 2019       |  |
| There is no record on ESR of the staff who have been educated by the Critical Care Outreach team (CCOT) | Send CCOT database to Marie Claire for entry onto ESR                                    | 12 <sup>th</sup> March 2019 | Completed. All records of Sepsis training by CCOT have been added to ESR |
| VSST require assurance of the embedding of the Sepsis improvements across the Trust                     | Share genba walk dates and amended genba walk agenda with VSST                           | 12 <sup>th</sup> March 2019 | Completed. Genba walk dates shared with VSST                             |
| All wards and departments require a Sepsis Champion   | Publicise Sepsis Champions meetings and encourage involvement through genba walks        | Ongoing                     |  |
| PGD for administration of antibiotics is progressing through Pharmacy governance                        | Check for update on PGD  | 12 <sup>th</sup> March 2019 | Completed – PGD approved and ready for training                          |
| Nursing staff will require training to use the PGD  | Plan for actions regarding PGD training plan once the CCO team support period has ended. | 12 <sup>th</sup> March 2019 | Sepsis Practitioner to develop Training plan for PGD on appointment      |

# Value Stream #2 – Sepsis – A3

## Improvement

| Transforming Care Metrics  | Source                        | Baseline                            | Target     | 2 <sup>nd</sup> Quarter<br>Aug – Oct 16 | 3 <sup>rd</sup> Quarter<br>Nov 16 – Jan 17 | 4 <sup>th</sup> Quarter<br>Feb – Apr 17 | 5 <sup>th</sup> Quarter<br>May – July 17 | 6 <sup>th</sup> Quarter<br>Aug – Oct 17 | 7 <sup>th</sup> Quarter<br>Nov 17 – Jan 18 | 8 <sup>th</sup> Quarter<br>Feb 18 – April 18 | 9 <sup>th</sup> Quarter May<br>18 – July 18 | 10 <sup>th</sup> Quarter<br>Aug – Oct 2018 | 11 <sup>th</sup> Quarter<br>Nov-Jan 2019 | %<br>Change              |
|--|-------------------------------|-------------------------------------|------------|---|--|---|--|---|--|--|---|--|--|--------------------------|
| Quality Metric 1:<br>• Antibiotics in 1 hour (CQUIN)   | CQUIN<br>Audit                | Q2 2015<br>21.9%                    | 100%       | 31%                                     | 26%  | 5%                                      | 79%                                      | 67%                                     | 0%   | 48%  | ED<br>65.8%<br><br>Inpt 62.2%               | ED 68.1%<br><br>Inpt 50%                   | ED 57.9%<br><br>Inpt 75%                 | ED 164%<br><br>Inpt 242% |
| Quality Metric 2:<br>• Sepsis related deaths (Trustwide)                                       | Mortality<br>trending<br>data | Q3 2015<br>4 per<br>month (median)  | 0          | 5 per month                             | 5 per month                                | 14 per month                            | 22 per month                             | 28 per month                            | 19 per month                               | 11 per month<br>(median)                     | 11 per month<br>(median)                    | 4 per month<br>(mode)                      | 7 per month<br>(mode)                    | 75% increase             |
| Delivery Metric 1:<br>• Lead Time (median)   | KPO Team<br>observations      | Initial<br>observations<br>427 mins | 60 mins    | 372 mins                                | 190 mins                                   | 190 mins                                | 67 mins                                  | 67mins                                  | 67mins                                     | 240 mins                                     | 87 mins                                     | 111 mins                                   | Awaiting data                            | 83%                      |
| Delivery Metric 2:<br>• Length of Stay   | Informatics<br>Team           | Q3 2015<br>8.6 days                 | 5 days     | 8.4 days                                | 9 days                                     | 9 day                                   | 12 days                                  | 12 days                                 | 12 days                                    | 12 days                                      | 12 days                                     | 12 days                                    | Awaiting data                            | 30%                      |
| Morale Metric 1:<br>• Staff Engagement Score   | Annual<br>Staff<br>Survey     | 2015/16<br>3.7<br>(out of 5)        | 5 out of 5 | 3.7 (out of 5)                          | 3.7 (out of 5)                             | 3.7 (out of 5)                          | 3.7 (out of 5)                           | 3.8 (out of 5)                          | 3.8 (out of 5)                             | 3.8 (out of 5)                               | 3.73 (out of 5)                             | 3.73 (out of 5)                            | 3.73 (out of 5)                          | 1%                       |
| Morale Metric 2:<br>• Staff Satisfaction ('I am satisfied with care I give' – those who agree) | Annual<br>Staff<br>Survey     | 2015/16<br>51%                      | 100%       | 51%                                     | 51%  | 51%                                     | 71%                                      | 71%                                     | 71%  | 71%  | 71%   | 71%  | 71%                                      | 39%                      |
| Cost Metric 1:<br>• Delivery of Care (Trustwide)   | Finance                       | Q3 2015<br>£278,733                 | TBC        | £433,629                                | £242,764                                   | £248,115                                | £230,398<br>(Feb & Mar only)             | £806,766                                | £1,054,314                                 | £1,719,886                                   | £1,671,777                                  | £1,525,00                                  | £458,715                                 | %                        |
| Cost Metric 2:<br>• Average cost per case (Trustwide)  | Finance                       | Q3 2015<br>£1,336                   | TBC        | £1,412                                  | £1,364                                     | £1133                                   | £1287<br>(Feb & Mar only)                | £1222                                   | £1387                                      | £1579  | £1620                                       | £1525.50                                   | £1598.00                                 | 5%                       |

### Value Stream Executive Sponsor Comments

#### What has gone well?

- Sepsis Boxes and Trolley are on each ward and department across both sites
- Ongoing monthly Sepsis Champions meetings at RSH and PRH to support the embedding of the Value Stream work
- Sepsis Booklet/ e-learning has been completed by nearly 1400 staff

#### What could have gone better/ Where do I need support?

- Sepsis Practitioner / Nurse role has not yet been agreed and recruited to
- Nursing staff will require training to use the PGD for antibiotics once it has been agreed through Pharmacy. The support from the Critical Care Outreach Team ends in February so there is currently no resource for training the nursing staff

#### What are my actions?

- Ensure the Moorhouse project work supports the value stream work
- Establish regular genba rounding to help the embedding of the Sepsis work, especially the use of Production Boards and People Link Boards to understand each areas performance in treatment of Sepsis
- Identify the next improvement event topic and scope.



# Value Stream #2 – Sepsis Pathway



*Improvement*

## Highlight report Value Stream 2

### • Learning

- Discussion with behaviour intelligence team (NHSI) helpful with approach to spread
  - RPIW held to bring all elements of the pathway together and support drawing this work in to a standard pathway

### • Link to strategy and goals

- Morale Metric 1 tracking staff engagement, supporting Trust OD work
- Quality Metric 1 supporting wider Trust objective to achieve overall CQUIN

### • Key improvements on quality, safety and finance

- Sepsis Nurse Practitioner has now commenced in post
- Creation of eLearning Workbook for all Trust staff. 1600 staff have now completed the workbook
- Delivery of Sepsis Bundle in test areas down to 30mins
- Roll out of Sepsis Trolley continuing across all Emergency access areas
- Roll out of Sepsis Boxes across the Trust
- Sepsis education programme delivered by the Critical Care Outreach Team to over 550 members of staff

### • Risks or challenges

- Operational ownership of Sepsis as a work programme
- Fluctuating mortality figures due to small numbers and variance in measurements
- Speed of spread required versus maintaining methodology

## Supporting RPIWs/Kaizen Events for Value Stream 2

|                               | Value Stream 2: Sepsis              | Progress<br>30,60,90 | Plan for roll out (post 90 days) |
|-------------------------------|-------------------------------------|----------------------|----------------------------------|
| <b>RPIW #1:</b> 25 April 2016 | Recognition and screening of Sepsis | Closed               | Roll Out                         |
| <b>RPIW #2:</b> 08 Aug 2016   | Delivery of Sepsis Bundle           | Closed               | Roll Out                         |
| <b>RPIW #3:</b> 5 Dec 2016    | Inpatient Diagnosis of Sepsis       | Closed               | Roll Out                         |
| <b>RPIW #4:</b> 08 May 2017   | Blood Sample Turnaround             | Closed               | Roll Out                         |
| <b>RPIW #5:</b> 19 March 2018 | Developing guidance for Sepsis      | Closed               | Roll Out                         |

### Major improvements/benefits:

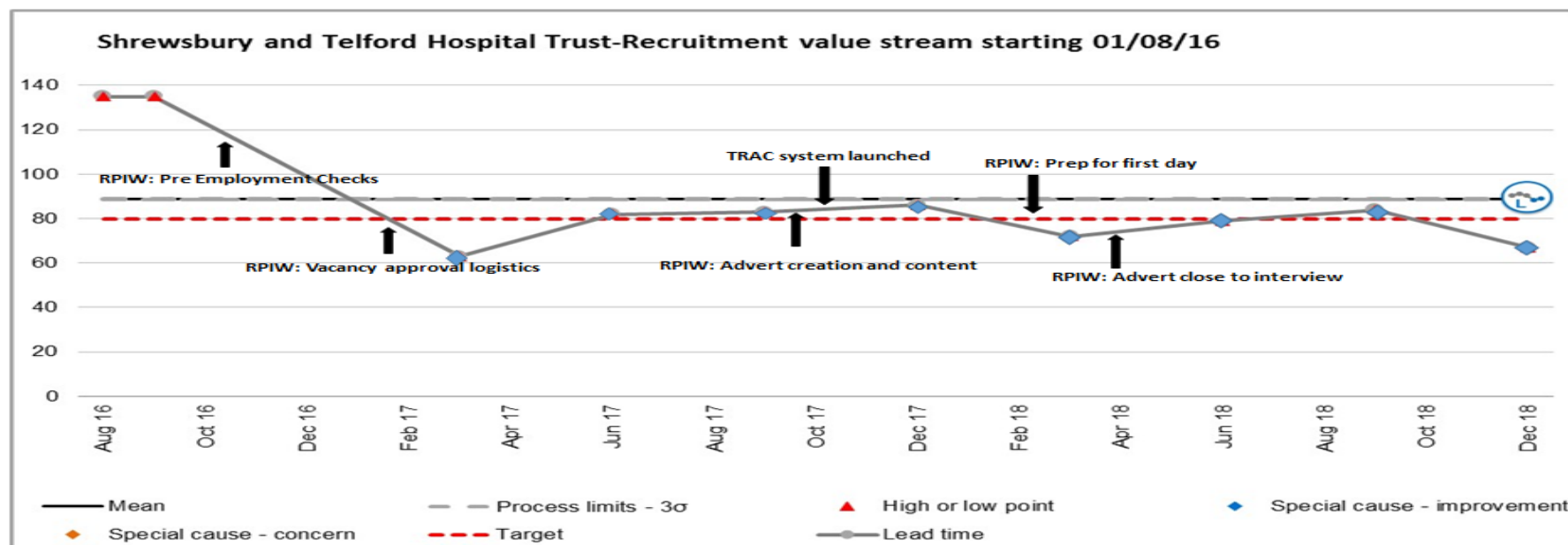
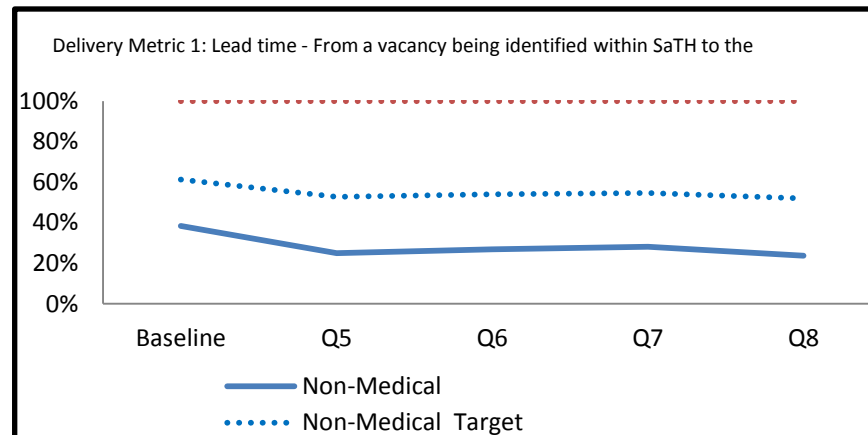
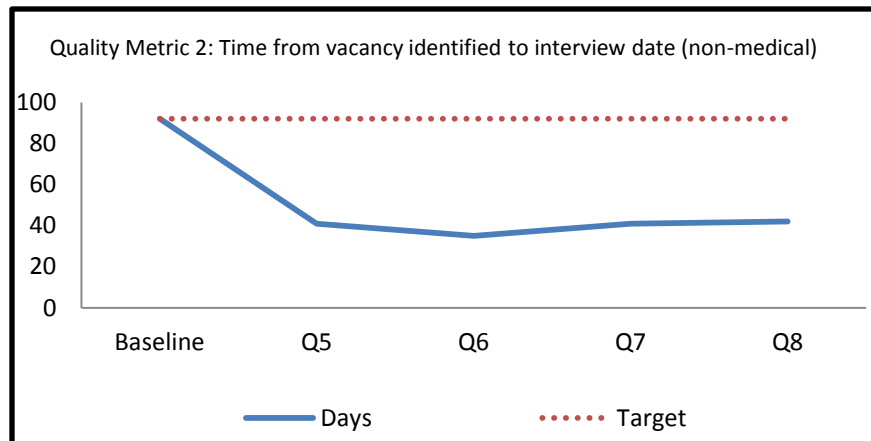
**Date of last update: June 2019**

- 12 quality improvements made within the sepsis pathway including use of screening tools, Sepsis trolley, reduction in late observations and blood culture processing
- 11 ½ hours of non value adding time removed from screening for sepsis , diagnosis of sepsis and delivery of sepsis bundle pathway (single patient pathways)
- 968 steps no longer required to collect equipment and collect/deliver blood culture samples (single patient episodes)
- Sepsis Trolley rolled out to AMU, Emergency Departments at RSH and PRH
- Sepsis Box rolled out across the Trust
- Development of over 30 sepsis champions
- 100+ staff completed sepsis learning e-book
- Sepsis Specialist Nurse appointed and commenced in post

# Value Stream #3 – Medical Recruitment

Data metrics: June 2019

Exec sponsor: Victoria Maher



## Highlight report Value Stream 3

- Value Stream Development Day held in February 2019 and a programme of improvement work focusing on Medical Recruitment has been made; kaizen event planned for June 2019
- Reduction in lead time for non medical recruitment (**From** when a vacancy is advertised, To the applicant starts with the Trust) sustained at 67 days.
- Introduction of TRAC system, making progress transparent and aid data collection
- Opportunity to transition elements of the value stream to the recruitment team
- Development of metrics to support the planned improvement work for medical recruitment

# Supporting RPIWs and Kaizen Events for Value Stream 3

|                               | Value Stream 3: Recruitment                      | Progress<br>30,60,90 | Plan for roll out                 |
|-------------------------------|--|----------------------|-----------------------------------|
| <b>RPIW #1:</b> 21 Nov 2016   | Pre-Employment Checks                            | Closed               | Roll Out                          |
| <b>RPIW #2:</b> 06 Feb 2017   | Preparation and Logistics for Vacancy Approval   | Closed               | Roll Out                          |
| <b>RPIW #3:</b> 12 June 2017  | Advert to Interview                              | Closed               | Roll Out                          |
| <b>RPIW #4:</b> 2 Oct 2017    | Contact with Candidate                           | Closed               | Roll Out                          |
| <b>RPIW #5:</b> 29 Jan 2018   | Departmental preparation for 1 <sup>st</sup> day | Closed               | Roll Out                          |
| <b>RPIW #6:</b> 23 April 2018 | Advert to Interview                              | Closed               | Roll Out                          |
| <b>RPIW #7:</b> 30 July 2018  | Skill alignment                                  | Closed               | Roll Out                          |
| <b>KE #1:</b> 13-15 May 2019  | Morning Medical Handover                         | Post KE              | PDSA and testing phase post event |

## Major improvements/benefits:

**Date of last update: June 2019**

- Lead time (from vacancy identified to staff member's first day) reduced by 10 weeks from 135 days to 67 days
- Potential new staff aware of interview date at advert stage – 19 day improvement
- Lead time from close of advert to interview reduced by 15 days
- Kaizen event planned to explore new starter information- roll out of learning from previous work.

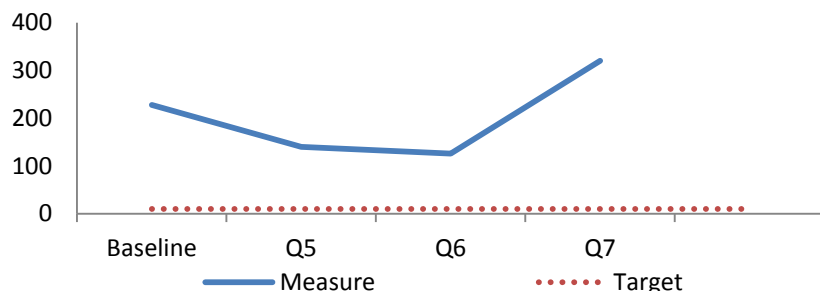


# Value Stream #4 – Outpatient Ophthalmology

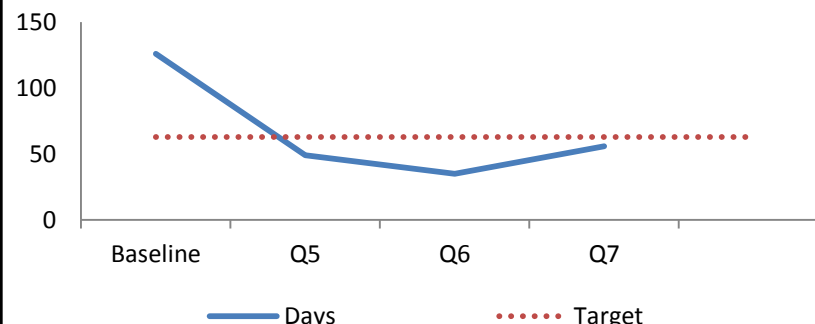
Data Metrics Updated: June 2019

Exec sponsor: Tony Fox

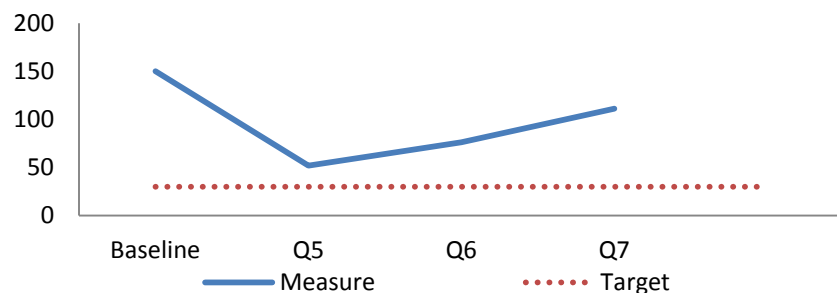
Quality Metric 1: Reduction in cancelled appointments by SaTH



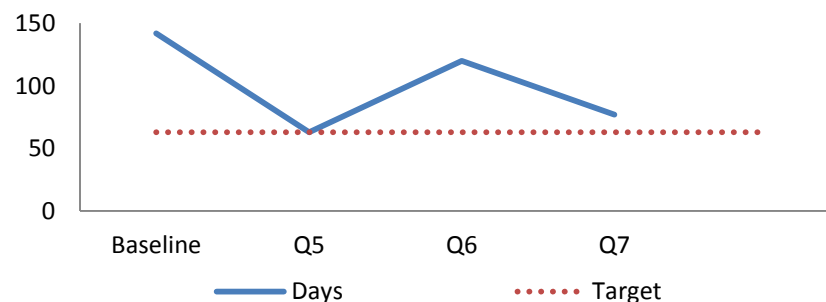
Service Metric 2: Reduce wait for first outpatient appointment



Quality Metric 2: Reduction in cancelled appointments by the patient



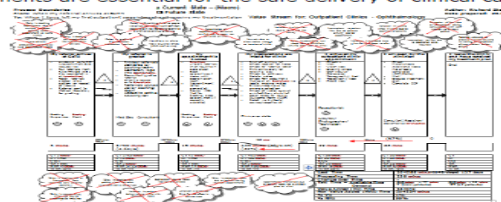
Delivery Metric 1: Lead time



# Value Stream #4 – OPD Ophthalmology – A3

### OUTPATIENT CLINICS - OPHTHALMOLOGY VALUE STREAM A3

|   |          |
|---|----------|
| <b>Goal:</b> To utilize the TCPS to improve the safety, productivity, efficiency and delivery of our Ophthalmology service and to roll out these improvements across all Outpatient activity, and improve our patients' care. |          |
| <b>Executive Sponsor:</b>   | Tony Fox |
| <b>Sponsor Team:</b>  |          |
| Tony Fox (Executive Sponsor); Andy Elves; Ewan Craig; Andrew Scott; Julie Southcombe (patient representative); Clare Marsh; Coleen Smith; Simon Balderstone; Andrew Evans   |          |
| <b>KPO Support:</b><br>Richard Stephens   |          |

|   |
|---|
| <b>Aim Statement/Target Condition</b>   |
| Ophthalmology has been the subject of NHSI and NHSE commissioning risk reviews. All our patients have the right to access safe, effective and timely care. This can only be achieved by observation, understanding of our service and addressing those areas where improvements are essential for the safe delivery of clinical care. |
|    |

| The Plan to Improve:                                |                                 |                |                      |
|---|---------------------------------|----------------|----------------------|
| RPIW Topic  | Sponsor                         | Process Owner  | Date                 |
| RPIW #1 Patient Information - Letters               | Andrena Weston                  | Ian Green      | 6 – 10 March 2017    |
| RPIW #2 Patient Clinic flow and experience          | Simon Balderstone               | Debbie Allmark | 12 – 16 June 2017    |
| RPIW #3 Clinic Preparation                          | Andy Elves                      | Mel Watkiss    | 7 – 11 August 2017   |
| RPIW #4 Grading of Ophthalmology referral           | Andrew Scott                    | Lizzie Jones   | 6 – 10 November 2017 |
| RPIW #5 Eye Injections in clinic                    | Andy Elves                      | Clare Marsh    | 5 – 9 February 2018  |
| RPIW #6 Cancellation and re-booking of appointments | Andrena Weston/Julie Southcombe | Cath Tranter   | 4 – 8 June 2018      |
| Kaizen event #1 Clinic flow                         | Julie Southcombe/Andrew Evans   | Colleen Smith  | 5 – 7 December 2018  |

| Value Stream Action Plan                                      |  |  |           |
|---|--|--|-----------|
| Focus Area  | Activity List activities in support of the focus areas.  | Target Completion Date   | Completed |
| Roll-out  | <ul style="list-style-type: none"> <li>Agree action plan to ensure all key improvements are captured and opportunities to roll out <ul style="list-style-type: none"> <li>Produce A3 to capture key improvements</li> </ul> </li> </ul>  | <ul style="list-style-type: none"> <li>End of February 2019</li> </ul> |           |
| Handover of Value stream to care group                        | <ul style="list-style-type: none"> <li>Prepare to handover value stream to care group on completion of Kaizen event 90 day re-measures</li> <li>Invite Unscheduled Care members to join Sponsor team meeting to brief on process and successes to date following handover of Respiratory value stream</li> </ul> | <ul style="list-style-type: none"> <li>End of March 2019</li> </ul>    |           |
| Medical support to improvements following Kaizen event at RSH | <ul style="list-style-type: none"> <li>Tony Fox to meet with Ophthalmology Consultants to understand barriers to introduction of morning huddle</li> </ul>   | <ul style="list-style-type: none"> <li>End of February 2019</li> </ul> |           |

| Key Targets   |                     |                   |                          |                    |                       |
|---|---------------------|-------------------|--------------------------|--------------------|-----------------------|
| Metric  | Baseline            | Target            | Q6 (July-September 2018) | Q7 (Oct-Dec 2018)  | Q8 (Jan - March 2019) |
| 1. Reduce wait for first Outpatient appointment   | 126 days (18 weeks) | 63 days (9 weeks) | 35 days (5 weeks)        | 56 days (8 weeks)  | 42 days (6 weeks)     |
| 2. Lead Time: From when my referral arrives at SATH to when I have left my first appointment and received my treatment plan | 142 days            | 63 days (9 weeks) | 77 days (11 weeks)       | 91 days (13 weeks) | 105 days (15 weeks)   |
| 3. Reduction in ASI (Appointment slot issues) numbers   | 145                 | 0                 | 1                        | 5                  | 1                     |
| 4. Reduction in cancelled appointments by SATH  | 228                 | 10                | 126                      | 320                | 176                   |
| 5. Reduction in agency spend  | 58k                 | £0                | £0                       | £0                 | £68k                  |

# Value Stream #4 – OPD Ophthalmology – A3

### Kaizen Plan

| Month         | RPIW – Topic                                 | Link to value stream cycle box | Genba  | Key improvements   | L4L            |
|---------------|--|--------------------------------|--|--|----------------|
| January 2017  | SDD  |                                |  |  |                |
| March 2017    | Patient information - letters                | Cycle boxes 1, 2, 3, 4, 5      | Booking office                                   | <ul style="list-style-type: none"> <li>SS applied to clinic letters resulting in reduction from 17 to 1 and improved patient feedback</li> <li>Introduction of acknowledgement letter reducing first contact time from 55 days to 4 days (93% improvement)</li> <li>100% improvement on booking staff knowledge of process with introduction of flow chart</li> <li>47% reduction in the number of times letters are delayed by changing timings of electronic transmission to "Syneretec"</li> </ul>                          | Andrena Weston |
| June 2017     | Patient Clinic Flow and Experience           | Cycle boxes 5,6,7              | Ophthalmology Outpatient clinic (MTX) PRH        | <ul style="list-style-type: none"> <li>Introduction of patient pathway card to improve patient experience by 86%</li> </ul>  |                |
|               |  |                                |  | <ul style="list-style-type: none"> <li>Introduction of sub waiting area placing patients closer to clinical staff following provision of eye drops: improved patient experience (100% improvement)</li> <li>67% reduction in lead time</li> <li>100% improvement to patients being taken to wrong clinic by hospital transport by providing access to SATH patient information system to transport staff</li> </ul>  |                |
| August 2017   | Clinic Preparation                           | Cycle box 4                    | Clinic preparation offices RSH                   | <ul style="list-style-type: none"> <li>Introduction of coordinator role to look for and escalate missing notes</li> <li>Introduction of dedicated e-mail &amp; telephone with dedication number has made significant improvement to interruptions</li> <li>Introduction of kit box with all necessary items for "prepping" provided to temporary staff/hot desking significantly reducing set up time</li> <li>Introduction of numbering system for storage of notes resulting in reducing steps and time for staff</li> </ul> |                |
| November 2017 | Grading of Ophthalmology outpatient referral | Cycle boxes 1,2                | Booking centre & Medical Secretaries offices RSH | <ul style="list-style-type: none"> <li>Introduction of electronic grading with provision of smarcards reduced lead time by 71%</li> <li>Change of "run time" sending paper referrals from booking centre to secretaries changed to 1230</li> <li>Changes to tracking system and report to mistake proof referrals over two weeks</li> </ul>  |                |
| February 2018 | Eye Injections in clinic                     | Cycle boxes 5,6,7              | Ophthalmology outpatient clinic RSH              | <ul style="list-style-type: none"> <li>Introduction of "One Stop Shop" for patients able to have injections on first appointment</li> <li>Reduction in approximately 3.5 miles per week for Staff</li> <li>Introduction of patient information to improve patient experience</li> <li>Change of layout to clinic resulting in improved flow and reduced</li> </ul>   |                |
| June 2018     | Cancellation and re-booking of appointments  | Cycle box 3                    | Booking office RSH                               | <ul style="list-style-type: none"> <li>SS of leave request form</li> <li>Introduction of standard work to process leave requests daily</li> <li>Change of process for booking office to cancel clinics using scripts</li> <li>Change process to call patients when making changes to appointments</li> </ul>   |                |

### Value Stream Executive Sponsor Comments

#### What has gone well?

- Engagement from all members of the Ophthalmology team during a very busy period of change, including major restructuring/moving of services cross-site.
- Support and engagement from Patients. The team has been supported by two visually impaired patients – Lin Stapley & Julie Southcombe. Julie has taken part in a RPIW, is a member of the sponsor team and acted as Sponsor for two events.
- Significant reduction in agency spend and ASIs
- Cost saving and improved patient experience/outcomes by ensuring zero defects for patients being taken to correct clinic by hospital transport
- Improved patient choice and experience by calling all patients when changing an appointment

#### What could have gone better/ Where do I need support?

- Widening scope to include e-referrals managed by the CCG
- Transferring the work into daily operational business
- Sustaining the changes, particularly in clinics

#### What are my actions?

- Successful handover of value stream work to Care Group

### Highlight report Value Stream 4

- **Learning about the value stream**

- Inclusion of patients in the work proving highly effective.

- **Link to strategy and goals**

- Cost Metric 1 reduction in agency spend, supporting Trust's financial work.
- Delivery Metric 2 reduction in ASI (Appointment Slot Issues) supporting wider RTT

- **Key improvements on quality, safety and finance**

- Updated patient focussed appointment letter
- Much improved patient experience at clinic with introduction of visual cards explaining clinic process.
- Cost saving due to ensuring zero defects for patients being taken to correct clinic by hospital transport
- Improved patient experience and cost saving by ensuring patients do not arrive for cancelled appointment with change to electronic process for sending letters
- Improved patient choice due to calling all patients when changing appointment

- **Risks or challenges**

- Widening the scope to include e-referrals managed by the CCG
- Transferring the work into daily operational business



# Supporting RPIWs and Kaizen Events for Value Stream 4



*Improvement*

|                           | Value Stream 4: Outpatient Clinics            | Measure 30,60,90 days | Plan for roll out |
|---------------------------|---|-----------------------|-------------------|
| RPIW #1: 06 March 2017    | Patient Information (Patient Letters)         | Closed                | Roll Out          |
| RPIW #2: 12 June 2017     | Patient Clinic Flow and Experience            | Closed                | Roll Out          |
| RPIW #3: 7 August 2017    | Clinical Preparation                          | Closed                | Roll Out          |
| RPIW #4: 6 Nov 2017       | Grading of Outpatient referral                | Closed                | Roll Out          |
| RPIW #5: 05 Feb 2018      | Eye Injection                                 | Closed                | Roll Out          |
| RPIW #6: June 2018        | Cancellation and rebooking of OPD appointment | Closed                | Roll out          |
| Kaizen Event #1: Dec 2018 | Clinic Flow                                   | 90-days               | Roll Out          |

## Major improvements/benefits:

**Date of last update: June 2019**

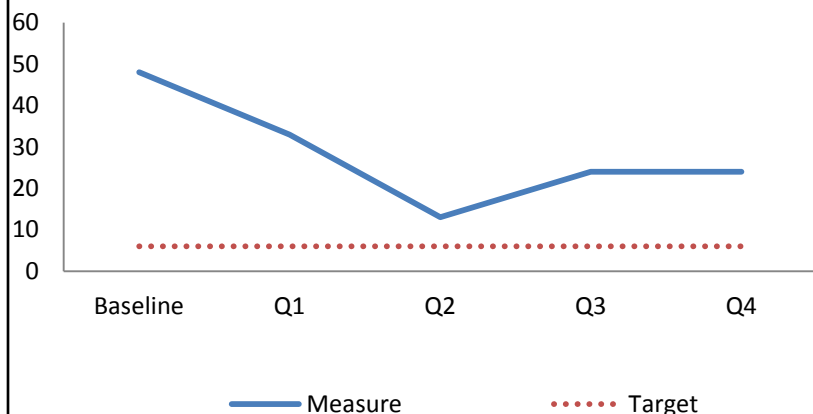
- 52 day reduction in the time from receipt of referral until first contact is made with patient
- 47% reduction in the number of times letters are delayed due to requesting a letter after the deadline for electronic transfer to next process
- 100% reduction in the number of Booking staff unaware of overall process for sending patient letters (Process = from referral arriving at SATH, to patient arriving in clinic)
- Staff training to assist patients who need guiding planned. Video created.
- 5S applied to Ophthalmology clinic letters resulting in reduction from 17 letters to 1 letter
- 32% reduction in lead time to prepare patient notes for a clinic
- 93% reduction in lead time with introduction of electronic grading
- 67% reduction in lead time at outpatients clinic
- 3.5 miles per week reduction in staff walking during an outpatient appointment

# Value Stream #5 – Patient Safety

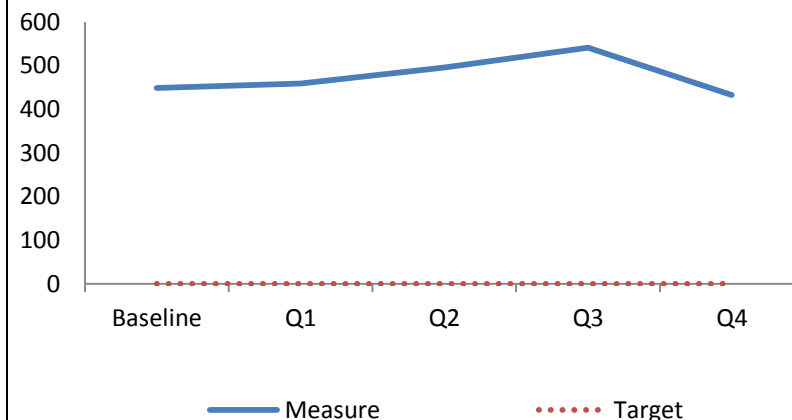
Data Metrics: June 2019

Exec sponsor: TBC

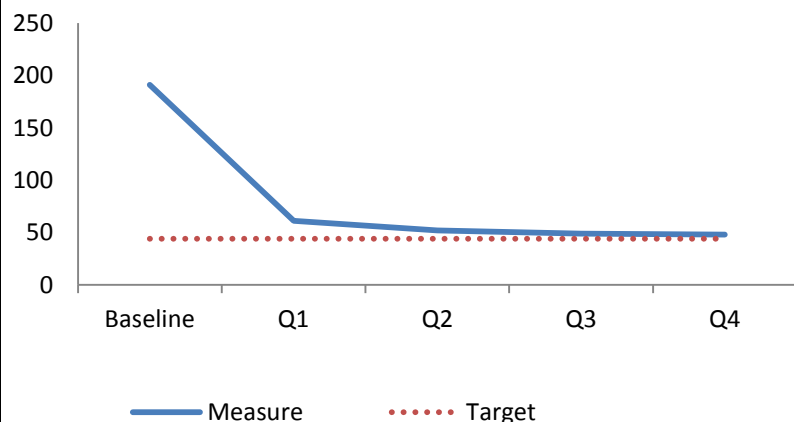
Service Metric 1: From when an incident occurs to when an incident is identified (hours)



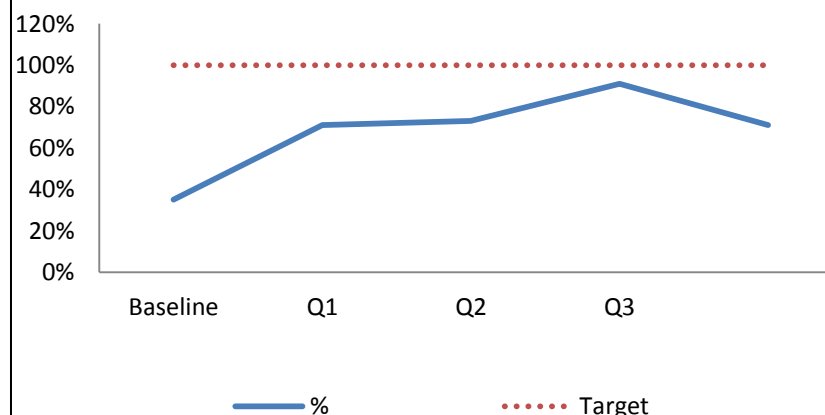
Quality Metric 1: Number of incident reports submitted (Number)



Service Metric 2: From when an incident is identified to feedback to patient (days)



Delivery Metric 1: Percentage of non SI incident reports that have final approval within Trust policy guidelines (%)



# Value Stream #5 – Patient Safety – A3

## Improvement

| Transforming Care Metrics   | Source                                | Baseline   | Target                                    | 1 <sup>st</sup> Quarter<br>(Jan – Mar 18)   | 2 <sup>nd</sup> Quarter<br>(Apr – Jun 18)  | 3 <sup>rd</sup> Quarter<br>(Jul – Sept 18)   | 4 <sup>th</sup> Quarter<br>(Oct – Dec 18)  | %<br>Change  |
|---|---------------------------------------|--|---|---|--|--|--|--|
| Service Metric 1A:<br>• From when an incident occurs to when an incident is identified (I know) All incidents                   | Datix and direct observation          | 48 hours   | 6 hours                                   | 33 hours  | 13 hours   | 24 hours   | 24 hours   | 73%  |
| Service Metric 1B:<br>• From when an incident is identified (I know) to feedback to patient (I know the outcome)                |                                       | 191 days   | 44 days                                   | 61 days   | 52 days  | 49 days  | 48 days  | 72%  |
| Service Metric 2:<br>• Time from Datix status 'Being reviewed' to 'Final approval'  | Datix and direct observation          | 131 days   | 28 days                                   | 22 days   | 20 days  | 1 day  | 1 day  | 85%  |
| Quality Metric 1:<br>• Number of overdue incident reports at 'Awaiting review' stage<br>'Being reviewed'<br>'Awaiting approval' | Datix                                 | Awaiting review 140<br>Being reviewed 35<br>Awaiting approval 71<br>Total 246                                | 0<br>0<br>0<br>0                          | Awaiting review 51<br>Being reviewed 73<br>Awaiting approval 10<br>Total 134                          | Awaiting review 74<br>Being reviewed 51<br>Awaiting approval 3<br>Total 128                            | Awaiting review 7<br>Being reviewed 32<br>Awaiting approval 2<br>Total 41                                | Awaiting review 43<br>Being reviewed 65<br>Awaiting approval 0<br>Total 108                              | Awaiting review decrease 69%<br>Being reviewed increase 85%<br>Awaiting approval 100% decrease<br>Total: 56% |
| Quality Metric 2:<br>• Number of incident reports submitted   | Datix / NRLS data                     | Quarter one 449 (2017/2018)  | Top 25% of reporting Trusts               | 459   | 496  | 541  | 433  | 3% decrease  |
| Delivery Metric 1:<br>• Percentage of non SI incident reports that have final approval within Trust policy guidelines           | Datix                                 | 35% of incidents in the system have had final approval within Trust policy guidelines (14/9/17)              | 100%                                      | 71%   | 73%  | 91%  | 71%  | 102% increase  |
| Delivery Metric 2A:<br>• Number of staff trained to use Datix in last 12 months - cumulative (W&C)                              | Corporate education induction records | 21 %<br>160/737  |   | 8%<br>60/737  | 67/737   | 59/737   | 61/737   | 61% decrease   |
| Morale Metric 1:<br>• Staff member feedback on Datix as a % on eligible incidents   | Datix                                 | Where feedback requested = 25.69%<br>46/179 incidents<br>All eligible incidents = 13.25%<br>53/400 incidents | 100%                                      | Where feedback requested = 16%<br>18/113 incidents<br>All eligible incidents = 8%<br>37/459 incidents | Where feedback requested = 27%<br>58/211 incidents<br>All eligible incidents = 12%<br>59/496 incidents | Where feedback requested = 80%<br>190/236 incidents<br>All eligible incidents = 49%<br>266/541 incidents | Where feedback requested = 55%<br>138/162 incidents<br>All eligible incidents = 48%<br>207/433 incidents | Where feedback requested = 226% increase<br>All eligible incidents = 269% increase                           |
| Morale Metric 2:<br>• Staff confidence and security in reporting unsafe clinical practice                                       | Staff Survey                          | 3.71/5 scale summary score   | 5/5                                       | 3.67/5 scale summary score  | 3.67/5 scale summary score   | 3.67/5 scale summary score   | 3.67/5 scale summary score   | 1%   |
| Cost Metric 1:<br>• Cost per incident for staff to report incident with Datix   | Finance                               | £2.36 per datix report   | 25% reduction<br>(£1.77 per datix report) | £1.77 per Datix report  | £1.77 per Datix report   | £1.77 per Datix report   | £1.77 per Datix report   | 25%  |
| Cost Metric 2:<br>• Cost per incident for staff to investigate report   | Finance                               | £245.91 per incident   | 25% reduction<br>(£184.43 per incident)   | £245.91 per incident  | £245.91 per incident   | £245.91 per incident   | £245.91 per incident   | 0%   |

### Value Stream Executive Sponsor Comments

#### What has gone well?

- Womens and Childrens Areas have continued to use and embrace the Patient Safety Huddle process
- The remeasures from the Kaizen event show that an improvement in the time for investigation of incidents on the Neonatal unit

#### What could have gone better/ Where do I need support?

- Genba walks to understand the Patient Safety work within the Womens and Childrens areas
- A clear vision from the Sponsor team of the direction of the next events
- Engagement of the Patient Safety team to support the ongoing development of the Value Stream

#### What are my actions?

- Regular Genba walks to support the ongoing Patient Safety Value Stream work
- Align the CQC / Moorhouse work with the Value Stream



| Focus Area  | Activity <small>List activities in support of the focus areas.</small>                             | Target Completion Date | Completed |
|---|--|------------------------|-----------|
| Patient Safety Value Stream that has been carried out in the Womens and Childrens Centre and needs to be shared more widely | Identify date for Patient Safety Forum where Value Stream outcomes can be shared as part of Agenda | End Feb 2019           |           |
| Understand how the Patient Safety Value Stream has been developed at Coventry and Warwick hospitals                         | Visit Coventry and Warwick Hospitals Patient Safety Team   | End April 2019         |           |
| Develop a Target Progress Report to monitor the share and spread of the outcomes of the Value stream                        | Develop Target Progress Report<br>Gather information to monitor share and spread                   | May 2019               |           |



# Supporting RPIWs and Kaizen Events for Value Stream 5



*Improvement*

|                                | Value Stream 5: Patient Safety                 | Measure<br>30,60,90<br>days | Plan for roll out                               |
|--------------------------------|--|-----------------------------|---|
| <b>RPIW #1:</b> 02 Dec 2017    | Sharing of Information                         | 120 days                    | Roll Out of safety huddle to MLUs and community |
| <b>RPIW #2:</b> 26 Feb 2018    | Completion of DATIX                            | 120-days                    | Roll out  |
| <b>RPIW #3:</b> June 2018      | Investigation of low/no harm incidents         | 90-days                     | Roll out  |
| <b>RPIW #4:</b> July 2018      | Sharing of learning from high risk incidents   | 90-days                     | Roll out  |
| <b>RPIW #5:</b> October 2018   | Patient / Family Feedback                      | 90-days                     | Roll out  |
| <b>Kaizen Event #1:</b> Nov 18 | Sharing of learning with patients and families | 90-days                     | Roll out  |

## Major improvements/benefits:

**Date of last update: May 2019**

- Safety huddle implemented with 100% compliance to standard work at 30 days
- 80% reduction in time (229mins to 90mins) following an incident to reporting an incident
- 5S achieved Level 3 for the environment of the antenatal office
- Production board implemented to support requirement for daily safety huddle
- 50% reduction in time to complete and submit a DATIX form from 8 mins to 4 mins using 5S
- Safety Huddle rolled out to Wrekin MLU and peripheral MLUs
- Development of process for use of ipad for completion of DATIX and review of DATIX in Safety Huddle
- 99% Reduction in lead time from incident reported to investigation completed
- 100% improvement in the number of incidents not investigated in the ward managers absence



# Value Stream #6 – Emergency Department

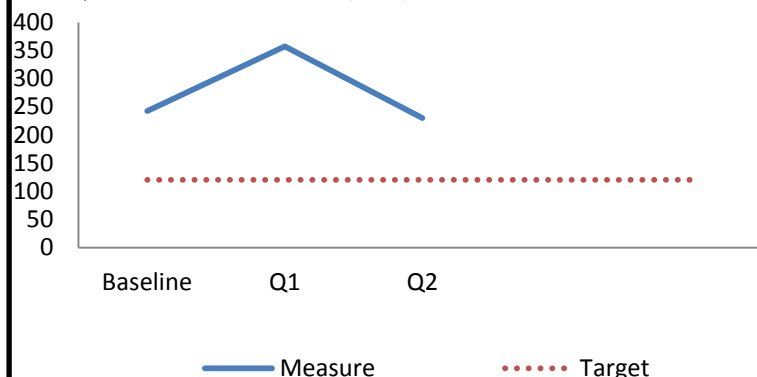
Data Metrics: June 2019

Exec sponsor: Sara Biffen

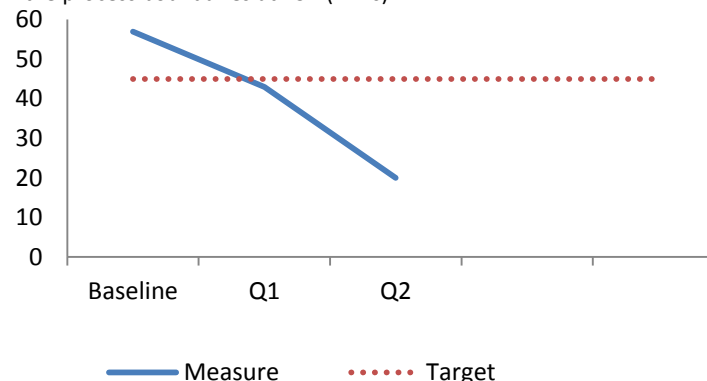


*Improvement*

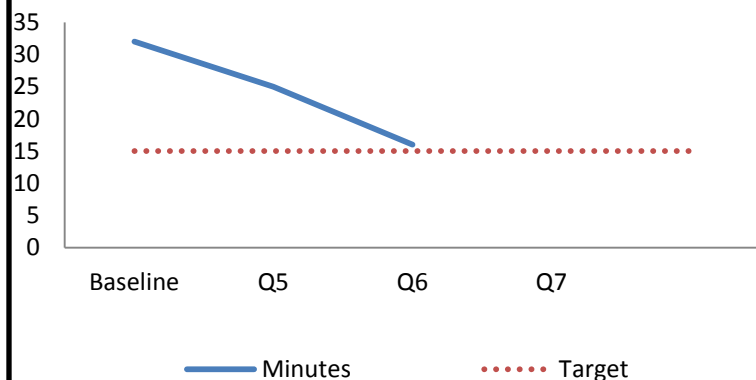
Service Metric 1: Volume of waiting time for (major) patients within the process boundaries at RSH (Mins)



Service Metric 2: Volume of waiting time for (minor) patient within the process boundaries at RSH (Mins)



Service Metric 3: Ambulance handover time at RSH (Mins)



# Value Stream #6 – Emergency Department – A3

### EMERGENCY DEPARTMENT VALUE STREAM A3

**Goal:** To improve the performance against the national Emergency Department (ED) 4hour target and to continuously improve the ED processes to benefit patients.

**Executive Sponsor:** Sara Biffen

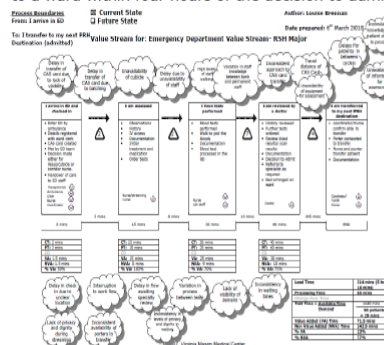
**Sponsor Team:**

Sara Biffen (Executive Sponsor); Rebecca Houlston; Carol McInnes; Jan McCloud; Kumaran Subramanian; Vanessa Roberts; Jon Lacy-Colson; Karen Thompson; Ed Rysdale; Lucy Roberts

**KPO Support:**  
Louise Brennan

#### Aim Statement/Target Condition

NHS England have set the standard that all patients presenting to ED should be seen and discharged within 4 hours, or if admitted transferred to a ward within four hours of the decision to admit.



### The Plan to Improve:

| RPIW Topic                       | Sponsor          | Process Owner | Date  |
|----------------------------------|------------------|---------------|---|
| RPIW #1 Specialty Review RSH     | Rebecca Houlston | Clare Emery   | 30th April- 4 <sup>th</sup> May 2018        |
| RPIW #2 Front Door Streaming PRH | Vanessa Roberts  | Angie Boulds  | 9 <sup>th</sup> -13 <sup>th</sup> July 2018 |
| RPIW #3 Documentation RSH        | Jan Mccloud      | Lisa Mathews  | 24-28 <sup>th</sup> September 2018          |
| RPIW #4 Transfer to X-ray PRH    | Sara Biffen      | Jan Mccloud   | 15-19 <sup>th</sup> October 2018            |
| RPIW #5 Flow of Minors RSH       | Ed Rysdale       | Kim Humphreys | 10-14 <sup>th</sup> December 2018           |

### Kaizen Plan

| Month          | RPIW – Topic and Date  | Link to value stream cycle box | Genba                       | Sponsor                  | Process Owner   | L4L                      |
|----------------|--|--------------------------------|-----------------------------|--------------------------|---|--------------------------|
| March 2018     | SDD  |                                |                             |                          |   |                          |
| April 2018     | Specialty referral of ED patient<br>30th April- 4 <sup>th</sup> May                      | Cycle box 4                    | ED RSH                      | Rebecca Houlston         | Clare Emery   |                          |
| May 2018       |  |                                |                             |                          |   |                          |
| June 2018      |  |                                |                             |                          |   |                          |
| July 2018      | Front Door Streaming/ Ambulance Hand Over<br>9 <sup>th</sup> July- 13 <sup>th</sup> July | Cycle box 1                    | ED PRH                      | Vanessa Roberts          | Angie Boulds  |                          |
| August 2018    |  |                                |                             |                          |   |                          |
| September 2018 | Topic: Documentation<br>24 <sup>th</sup> -28 <sup>th</sup> September                     | All cycle boxes                | Genba: RSH ED               | Sponsor: Jan Mccloud     | Process Owner: Lisa Mathews                             | Jan Mccloud              |
| October 2018   | Topic: Radiology Requests<br>15-19 <sup>th</sup> October                                 | Cycle box 3-4                  | Genba: PRH ED and Radiology | Sponsor: Jon Lacy Colson | Process Owner: Jan Mccloud                              | Lara Wynn<br>Jan Mccloud |
| November 2018  |  |                                |                             |                          |   |                          |
| December 2018  | Minors Pathway RSH 10-14 <sup>th</sup> December  | Minors Value Stream map        | Genba: RSH Minors           | Sponsor: Ed Rysdale      | Process Owner: Kim Humphries (PO), Julie Talbot (Co-PO) |                          |
| May 2019       | Topic: CDU   |                                | Genba: PRH ED               | Sponsor: Carol McInnes   | Process Owner: Rebecca Race                             |                          |

# Value Stream #6 – Emergency Department – A3

| Value Stream Action Plan   |  |   |           |
|--|--|---|-----------|
| Focus Area   | Activity List activities in support of the focus areas.  | Target Completion Date  | Completed |
| Update and revise value stream boundaries                                    | <ul style="list-style-type: none"> <li>Discuss boundaries at Value stream sponsor team meeting</li> <li>Agree revised boundaries at Guiding Team Meeting (GTM)</li> <li>Update VSM and display within genba and accountability wall</li> </ul>   | <ul style="list-style-type: none"> <li>Thursday 10<sup>th</sup> January 2019</li> <li>Thursday 17<sup>th</sup> January 2019</li> <li>Thursday 17<sup>th</sup> January 2019</li> </ul> | Completed |
| Production Board and Peoplelink training session for ED staff                | <ul style="list-style-type: none"> <li>Review KPO capacity to provide 1 hour training sessions.</li> <li>Discuss at next ED VSST regular genba walks within each ED</li> <li>Liaise with managers to identify staff to attend training</li> </ul>  | <ul style="list-style-type: none"> <li>End February 2019</li> </ul>   |           |
| Create a staff engagement metric that can be measured in real time           | <ul style="list-style-type: none"> <li>VSST members to develop metric with staff in ED.</li> <li>To collect during team meeting.</li> </ul>  | 11 <sup>th</sup> February 2019  |           |
| Roll out of RPIW kaizen work to opposite site                                | <ul style="list-style-type: none"> <li>Test of new documentation, PDSA and then roll out.</li> <li>Share new X-ray request card with ED team at huddle</li> <li>PO and Sponsor for RPIW #5 to roll out improvements to PRH site</li> </ul>   | <ul style="list-style-type: none"> <li>Week commencing 4<sup>th</sup> March 2019</li> </ul>   |           |
| Metric A. Volume of waiting time for patients within the process boundaries. | <ul style="list-style-type: none"> <li>Raise profile of specialty review SOP within medical meetings</li> <li>PDSA the SOP and display within the genba</li> <li>ED improvement event exploring the use of the whiteboard.</li> <li>Recruitment of ED staff to support early assessment</li> </ul>   | <ul style="list-style-type: none"> <li>Action completed</li> <li>Action completed</li> <li>Monday 14<sup>th</sup> January 2019- completed</li> <li>Ongoing</li> </ul>                 |           |
| Metric B. Lead Time arrival to transfer to next destination                  | <ul style="list-style-type: none"> <li>Increase in lead time at PRH site prompted the review of the process boundaries to understand where the constraint is within the process.</li> <li>Share learning's with the standard work value stream to highlight and support flow issues.</li> </ul>  | <ul style="list-style-type: none"> <li>Thursday 24<sup>th</sup> January 2019</li> <li>Mid February 2019</li> </ul>  |           |
| Metric C. Arrival to DTA   | <ul style="list-style-type: none"> <li>The value stream map boundaries are to be adjusted to end point of DTA to focus the improvement work.</li> <li>To continue to measure transfer to next destination time</li> <li>Reduction in metrics between Q1 and Q2 demonstrating removal of waste in the process.</li> <li>Demonstrated further value stream improvement events required to meet target.</li> </ul>                                    | <ul style="list-style-type: none"> <li>End March 2019</li> <li>Next RPIW May 2019</li> </ul>  |           |
| Metric D. Ambulance hand over time   | <ul style="list-style-type: none"> <li>Reduction in handover times for both sites.</li> <li>VSST aware that Pit stop process not consistently used. To review and explore who could champion the work to ensure the process is used.</li> <li>VSST Executive sponsor to investigate how a reduction in handover time has impacted corridor hand over fines</li> <li>Kaizen event to review ambulance handovers- pit stop and CDU at RSH</li> </ul> | <ul style="list-style-type: none"> <li>End January 2019</li> <li>Thursday 24<sup>th</sup> January 2019</li> </ul>   |           |

|                                      |  |   |  |
|--------------------------------------|--|---|--|
| Metric E<br>Minors pathway Lead Time | <ul style="list-style-type: none"> <li>Roll out minors pathway learning from RPIW #5 to PRH site</li> <li>Continue remeasures for next 60 days</li> <li>Present metrics on peoplelink board</li> </ul> | <ul style="list-style-type: none"> <li>Week commencing 4<sup>th</sup> March 2019</li> </ul> |  |
|--------------------------------------|--|---|--|

| Targets  |  |                 |   |   |
|--|--|-----------------|---|---|
| Metric   | Baseline   | Target          | Q1 (July-September 2018)                                      | Q2 (Oct-Dec 2018)   |
| A. Volume of waiting time for patients within the process boundaries.<br>1. RSH<br>2. PRH      | 1. 242.5 minutes<br>2. 320 minutes                                   | 120 mins        | 1. 357 mins<br>2. 297 mins                                    | 1. 230 mins<br>2. 529 mins                                  |
| B. Lead Time arrival to transfer to next destination<br>1. RSH<br>2. PRH                       | 1. 314minutes ( 5hrs 14 minutes)<br>2. 383 minutes (6hrs 23 minutes) | 3 hours 59 mins | 1. 404 mins (6 hours 44 mins)<br>2. 323 mins (5 hours 23min ) | 1. 360 mins (6 hours)<br>2. 619mins (10hrs 19 mis)          |
| C. Arrival to DTA<br>1. RSH<br>2. PRH  | 1. 180mins (3 hrs)<br>2. 170 mins (2hrs 50 mins)                     | 120 mins        | 1. 280 mins (4 hours 40 mins)<br>2. 235min (3hrs 55 mins)     | 1. 170 mins (2hours 50 mins)<br>2. 176 mins (2 hrs 56 mins) |
| D. Ambulance hand over time<br>1. RSH<br>2. PRH  | 1. 35 minutes<br>2. 32 mins  | 15 mins         | 1. 20 mins<br>2. 25 mins                                      | 1. 2.16 mins  |
| E. Minors Pathway Lead Time RSH<br>From: I am triaged in ED reception<br>To: I leave ED minors | 78 mins  | 60 mins         | N/A   | 21 mins (30 day remeasures)                                 |

## Value Stream Executive Sponsor Comments

### What has gone well?

- Engagement from ED team to roll out the improvements from RPIW 5
- ED staff at RSH feeling empowered to make improvements and mistake proof situations- Louise Rigby has done some improvement wok in ED to the Paed resus area to make it safer during a resus for both adult and Paed patients. Louise came in on her day off to make the changes. The plan is also to roll out the work to the PRH site. Louise and Kim Humphries came along to the staff kaizen huddle today (Friday 25<sup>th</sup> Jan) and shared the work.

### What could have gone better/ Where do I need support?

- Genba walk
- Review impact of not progressing the actions form RPIW #4- VSST will add this to the risk register in radiology and ED
- Delay in docmation form the printers which as delayed testing the revised CAS card.

### What are my actions?

- Share moorhouse update and CQC improvement plan as only agenda item at next VSST meeting



# Supporting RPIWs and Kaizen Events for Value Stream 6



*Improvement*

|                        | Value Stream 6: Emergency Department | Measure<br>30,60,90<br>days | Plan for roll out   |
|------------------------|--------------------------------------|-----------------------------|---|
| RPIW #1: 30 April 2018 | Specialty referral for ED patient    | 90-days                     |   |
| RPIW #2: 9 July 2018   | Front door streaming                 | 90-days                     | Roll out to RSH site  |
| RPIW #3: 24 Sept 2018  | Documentation                        | 90-days                     | New documentation in situ and currently being tested by staff |
| RPIW #4: 24 Sept 2018  | Radiology Requests                   | 90-days                     | Awaiting business plan approval                               |
| RPIW #5: 10 Dec 2018   | Flow of Minors                       | 90-days                     | Ongoing PDSA with plan to roll out and implement at PRH       |

## Major improvements/benefits:

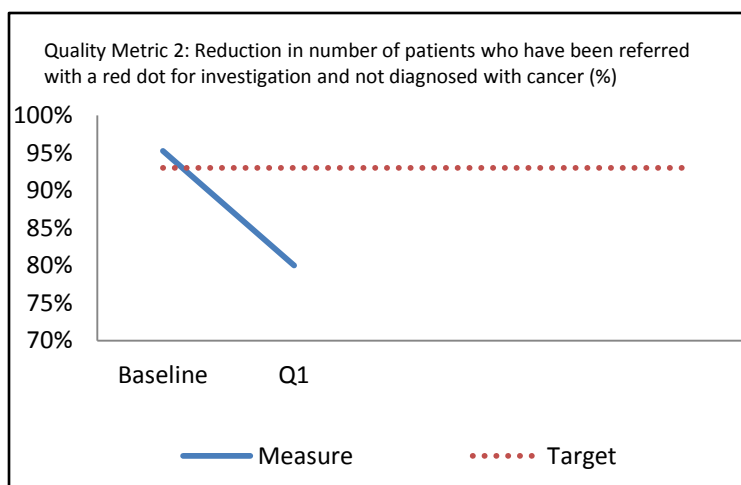
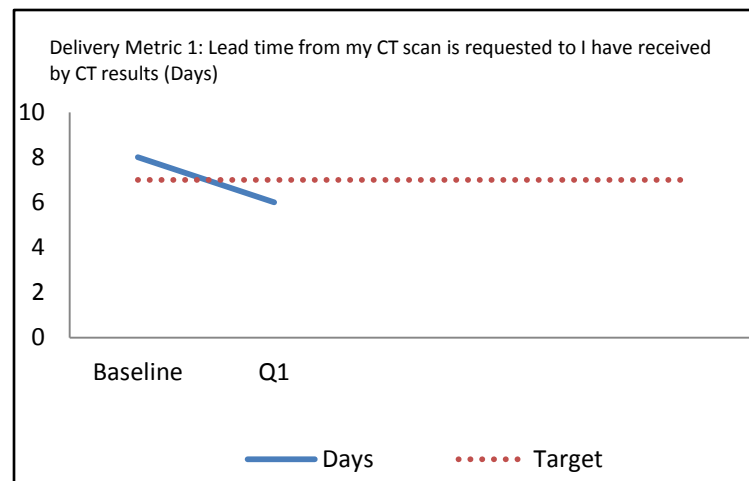
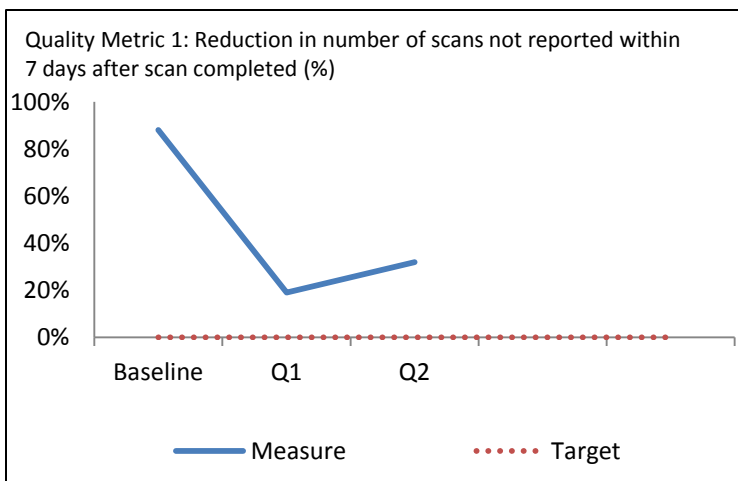
**Date of last update: June 2019**

- Re-Launch Sponsor Development Day in June 2019 to process flow the pathway to identify improvements and bring together all quality improvement work within ED.
- Roll out of RPIW learning across both ED sites
- Improvement in minor performance at both sites.
- Kaizen event to explore the use of a CDU at RSH.

# Value Stream #7 – Radiology

Data Metrics: June 2019

Exec sponsor: Julia Clarke

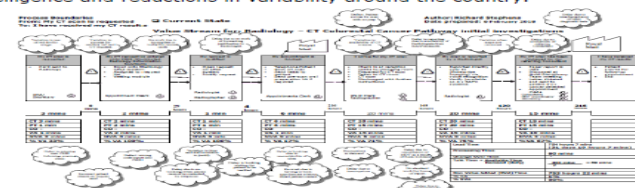




# Value Stream #7 – Radiology – A3

### RADIOLOGY VALUE STREAM A3

|   |             |
|---|-------------|
| <b>Goal:</b> Reduction in time and improvement in quality of early detection and diagnosis of cancer in Colorectal Patients   |             |
| <b>Executive Sponsor:</b>   | Julia Clark |
| <b>Sponsor Team:</b>  |             |
| Julia Clark (Executive Sponsor) (Lean for Leader); Glen Whitehouse (Operational Lead) (Lean for Leader), Jessica Greenwood (Lean for Leader), Steve McKew (Lean for Leader), Sally Warren, Mike Kirk, Kathryn Poli (Lean for Leader), Michael Mills (People's Academy), Doug Smith, Chris Skillicom |             |
| <b>KPO Support:</b><br>Richard Stephens   |             |

|  |
|--|
| <b>Aim Statement/Target Condition</b>  |
| Achieving improvements in survival will require a combination of earlier detection and diagnosis, better treatment and access to treatment, improved access to data and intelligence and reductions in variability around the country. |
|   |

| The Plan to Improve:                                |                            |                          |                       |
|---|----------------------------|--------------------------|-----------------------|
| RPIW Topic  | Sponsor                    | Process Owner            | Date                  |
| RPIW #1 Radiology Streaming                         | Joe McCloud                | Jon Lacey-Colson         | 25-29 June 2018       |
| RPIW #2 Patient Ct Experience and reporting         | Glen Whitehouse            | Chris Skillicom          | 24-28 September 2018  |
| RPIW #3 Sharing CT results with Colorectal patients | Jess Greenwood/Steve McKew | Tracy Lunt/Emma Hamilton | 19-23 November 2018   |
| Kaizen event #1                                     | Steve McKew                | Emma Hamilton            | 6 - 10 November 2018  |
| RPIW #4 MDT process                                 | Sara Biffen                | Kathryn Poli             | 29 April - 3 May 2019 |

| Kaizen Plan             |  |                                |  |  |   |
|-------------------------|--|--------------------------------|--|--|---|
| Month                   | RPIW - Topic   | Link to value stream cycle box | Genba  | Key improvements   | Metric improvement  |
| April 2018<br>June 2018 | SDD<br>Radiology Streaming                                 | Cycle boxes                    | Clinic 2 RSH & Radiology department              | <ul style="list-style-type: none"> <li>5S of CT card</li> <li>Visual Control with flow chart of process for completing CT card</li> <li>Reduction in Lead time by requesting patients to deliver CT request card to Radiology following clinic appointment</li> </ul>  | 100% improvement in completion of CT cards<br>49% reduction in Lead time (25 hours 41 mins - 13 hours)  |
| September 2018          | Patient CT experience and reporting                        | Cycle boxes                    | Radiology department PRH                         | <ul style="list-style-type: none"> <li>Visual control to remind staff not to interrupt reporting Radiologist</li> <li>Introduction of patient information flow charts to be used as handouts</li> <li>5S of letters to improve information provided to patients</li> <li>5S of Cancellation trolley</li> </ul>   | 70% improvement<br>100% improvement in patient experience<br>25% improvement  |
| November 2018           | Sharing of CT results with Colorectal patients             | Cycle box                      | Radiology department RSH                         | <ul style="list-style-type: none"> <li>Reduction in lead time due to sending results electronically directly to PA. Additionally, generic file produced to ensure files can be actioned if specific PA on leave/absent.</li> <li>Introduction of Standard Work to radiology department, Secretary's office and Consultant office resulting in reduction in Lead Time</li> <li>Introduction of template as visual control to ensure correct information is provided at the time an appointment, or MDT discussion is required</li> <li>Patient leaflets produced to be handed to patients after CT scans</li> </ul> | 83% improvement in lead time (18 days - 3 days)<br>100% improvement in late additions being added to MDT<br>100% improvement in patient experience  |
| February 2019           | Use of Red Dot for Colorectal patients requiring a CT scan | Cycle boxes                    | Radiology department & cancer tracker office RSH | <ul style="list-style-type: none"> <li>Lead time reduced by nominating HCA in clinic to transport completed CT request cards to Radiology department on a regular basis during clinic</li> <li>Remove "Red Dot" from CT request card and update Standard Work to include checklist to ensure correct prioritisation of CT appointment as requested by Consultant in clinic</li> <li>Introduction of flow chart in clinic to educate/inform staff of new standard work</li> </ul>   | 56% reduction in lead time (132 mins - 58 mins) by end of Kaizen event<br>100% improvement in improving prioritisation of CT card following consultation.<br>100% improvement in clinician knowledge of process |
| April 2019              | MDT process  | Cycle boxes 5,6,7              | MDT meeting room and Cancer Tracker office RSH   | <ul style="list-style-type: none"> <li>Reduction in lead time due to revising the process for the MDT referral and preparation of the MDT list. Needs further testing to identify significant improvement</li> <li>Update to the referral proforma using 5S, a change to the process by using an i-pad for accessing system data in lieu of patient notes, and addition of Consultant leave as an agenda item has resulted in significant improvements to the quality defects.</li> </ul>  | TBC following 30/60/90 day re measures  |

# Value Stream #7 – Radiology – A3

### Key Targets

| Metric  | Baseline                                      | Target  | Q1 (August - October 2018) | Q2 (November - January 2019) |
|---|---|---------|----------------------------|------------------------------|
| 1. Reduction in breaches of 62 day target   | 22%<br>(7/31.5)                               | 0       | 27%<br>(15/56)             | 24%<br>(10/42)               |
| 2. Reduction in number of scans not reported within 7 days after scan completed               | 88%<br>(51/58)                                | 0%      | 19%<br>(15/77)             | 32%<br>(29/89)               |
| 3. Lead time 1: From my CT scan is requested – To I have received my CT results               | 754 hours<br>7 mins (31 days 10 hours 7 mins) | 14 days | 20 days                    | 22 days                      |
| 4. Lead time 2: From when I arrive for my scan – To when my scan is reported by a Radiologist | 208 hours<br>(8 days 16 hours)                | 7 days  | 6 days                     | 7 days                       |
| 5. Staff Experience: "How do you feel about working in Radiology?"                            | 53%   | 0%      | 53%                        | 57%                          |

### Value Stream Executive Sponsor Comments

#### What has gone well?

- Engagement from all members of the Radiology team from both sites.
- Support and engagement from Patients & patient representatives. The team has been consistently supported by Michael Mills as a member of the People's Academy as part of the Sponsor team as well as taking part in a RPIW and Kaizen event.
- Significant reduction in both Lead Times, and reduction in time taken to report scans

#### What could have gone better/ Where do I need support?

- Selection of appropriate overarching metrics
- Selection of focus (Colorectal) for the value stream

#### What are my actions?

- Develop roll-out plan
- Genba walks into Radiology to support embedding of changes
- Support to RPIW #4
- Develop plan for handover to Care Group



# Supporting RPIWs and Kaizen Events for Value Stream 7



*Improvement*

|                                  | Value Stream 7: Radiology        | Measure<br>30,60,90<br>days | Plan for roll out |
|----------------------------------|----------------------------------|-----------------------------|-------------------|
| <b>RPIW #1:</b> 25 June 2018     | Radiology Streaming              | Closed                      | Roll out          |
| <b>RPIW #2:</b> 24 Sept 2018     | CT Reporting                     | Closed                      |                   |
| <b>RPIW #3</b> 19 Nov 2018       | Sharing CT results with patients | Closed                      |                   |
| <b>Kaizen Event #1:</b> Feb 2019 | Red Dot (2-week pathway) Process | 90-days                     |                   |
| <b>RPIW #4:</b> 29 April 2019    | MDT Preparation and processing   | 60-days                     |                   |

## Major improvements/benefits:

**Date of last update: June 2019**

- 98% reduction in time taken to vet CT requests
- 100% reduction in defective CT cards
- 65% reduction in reporting CT scans
- 50% reduction in scans awaiting review and reporting over 7 days
- 62% reduction in time preparing patient for scan
- 60% reduction in time for CT scan report available and sent to referrer



# Supporting RPIWs and Kaizen Events for Value Stream 8



*Improvement*

|                                     | Value Stream 8: Surgical Pathway    | Measure<br>30,60,90<br>days | Plan for roll out  |
|-------------------------------------|-------------------------------------|-----------------------------|--|
| <b>RPIW #1:</b> Oct 2018            | Accurate booking of inpatient lists | Closed                      | Roll out into each centre  |
| <b>RPIW #2:</b> Dec 2018            | Pre-operative checklist process     | Closed                      | Implementation plan developed and roll out planned for June 2019 |
| <b>RPIW #3:</b> Feb 2019            | 5 Steps to Safer Surgery            | 90-days                     | Roll out planned June 2019                                       |
| <b>Fours Eyes Insight:</b> May 2019 | Scheduling and flow work            |                             | 16 week programme with roll out                                  |

## Major improvements/benefits:

**Date of last update: June 2019**

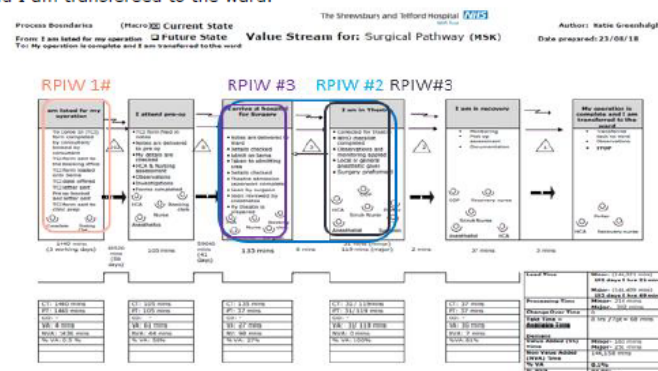
- RPIW #1 roll out continues for TCI forms and phone calls before day of surgery to the patient; this is improving DNA rates, theatre efficiency and patient satisfaction
- RPIW #2 first patient on the list called through straightaway reducing their wait by 30 minutes, thus improving theatre efficiency
- RPIW #3 has shown a 100% improvement in percentage of times debrief was not documented, thus improving communication and safety within theatre teams

**Surgical Pathway VALUE STREAM A3**

|   |                  |
|---|------------------|
| <b>Goal:</b>  |                  |
| <b>Executive Sponsor:</b>   | <b>Nigel Lee</b> |
| <b>Sponsor Team:</b> Neil Rogers, Kevin Lloyd, Janine McDonnell, Paul Jones, Mark Cheetham, Linda Fairclough, Ciara Edwards, Katy Moynihan, Kath Preece, Andrena Weston, Alison Haycock, Michelle Sillitoe. |                  |
| <b>KPO Support:</b><br>Katie Greenhalgh   |                  |

**Aim Statement/Target Condition**

The Surgical Pathway Value Stream strives to improve safety and efficiency. This is from the perspective of the patient and the boundaries are from I am listed for my operation to my operation is complete and I am transferred to the ward.



### The Plan to Improve:

| RPIW Topic  | Sponsor                       | Process Owner                  | Date  |
|---|-------------------------------|--------------------------------|---|
| RPIW#1 Accurate booking of inpatient list to improve patient safety | Rob Turner                    | Aaron Evans                    | 22 <sup>nd</sup> to 26 <sup>th</sup> October 2018                 |
| RPIW#2 Pre Op Checklist   | Katy Moyiham                  | Karen Gordon &                 | 10 <sup>th</sup> to 14 <sup>th</sup> December 2018                |
| Kaizen event #1 Consent   | Tony Fox                      | Mr P Moreau                    | 8 <sup>th</sup> , 9 <sup>th</sup> and 10 <sup>th</sup> April 2019 |
| RPIW#3 5 Safer steps to surgery                                     | Katy Moyniham & Mark Cheetham | David Scotcher & Ron Dodenhoff | 4 <sup>th</sup> to 8 <sup>th</sup> Febuairy 2019                  |
|   |                               |                                |   |

## Kaizen Plan

| Month       | RPIW – Topic and Date  | Link to value stream cycle box | Genba   | Sponsor     | Process Owner | L4L |
|-------------|------------------------|--------------------------------|---------|-------------|---------------|-----|
| June 2019   | The list lock down     | Cycle Box 1-4                  | Urology | Neil Rogers | TBC           | TBC |
| August 2019 | Radiographer provision | Cycle Box 4                    | TBC     | TBC         | TBC           | TBC |

# Value Stream #8 – Surgical Pathway – A3

### Value Stream Action Plan

| Focus Area   | Activity List activities in support of the focus areas.  | Target Completion Date | Completed |
|--|--|------------------------|-----------|
| Continue to realise the gains based on Meridian and Four Eyes Insight review.                        | RPIW#1 implemented some key concepts<br>RPIW#4 plans to explore utilisation and lockdown<br>Align improvements to efficiency targets | September 2019         |           |
| Improve safety within the Surgical Pathway and apply learning from recent Never Events.              | Ensure RPIW and Kaizen plan focuses on these areas<br>Align with care group governance   | March 2019             |           |
| Develop a Target Progress Report to monitor the share and spread of the outcomes of the Value stream | Develop Target Progress Report<br>Gather information to monitor share and spread   | March 2019             |           |

### Value Stream Executive Sponsor Comments

#### What has gone well?

- There has been a high level of engagement with the theatres team
- The additional safety measures have improved overall safety

#### What could have gone better / Where do I need support?

- Genba walks to understand the pathway
- A clear vision from the Sponsor team of the direction of the value stream
- Engagement with more medical staff

#### What are my actions?

- Regular Genba walks to support the ongoing Surgical Value Stream work
- Align the CQC, GIRT, Model Hospital and Moorhouse work with the Value Stream
- Incorporate cost improvement programmes



# Kaizen Events

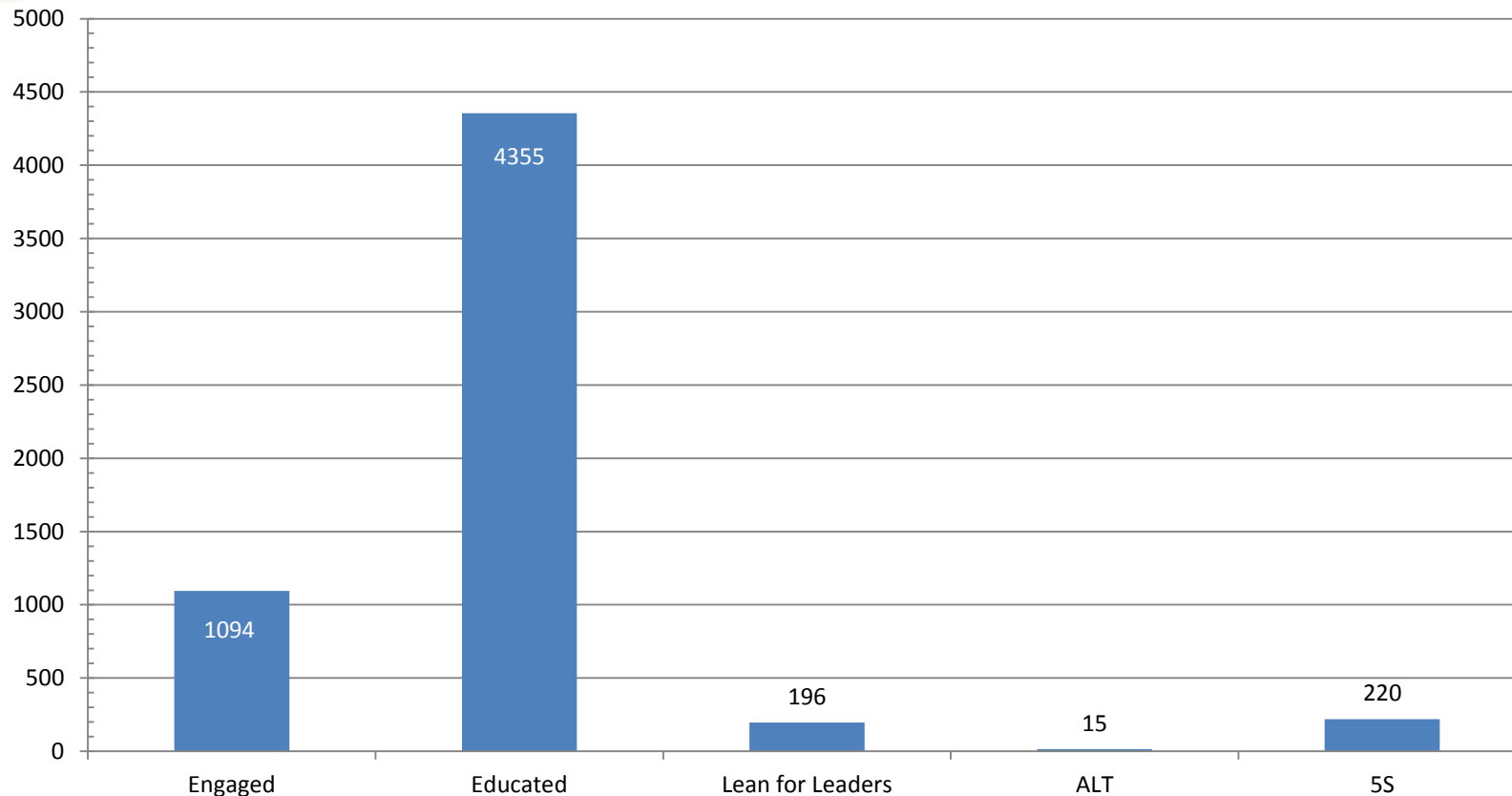


|   |   | Measure 30,60,90 days |
|---|---|-----------------------|
| <b>KE #1:</b> 10 Jan 2018 (3 days)                  | Stroke: Swallow Test  | Post 90 days          |
| <b>KE #2:</b> 28 Feb 2018 (3 days)                  | Stroke: Discharge   | Post 90 days          |
| <b>KE #3:</b> 28 Feb 2018 (5 day RPIW)              | Patient Flow: Fact Finding Assessment                       | Post 90 days          |
| <b>KE #4:</b> 12 Mar 2018 (5 day RPIW)              | Patient Flow: Ambulatory Emergency Care                     | Post 90 days          |
| <b>KE #5:</b> 12 June 2018 (3 days)                 | Patient Flow: Transport                                     | Post 90-days          |
| <b>Theatres:</b> June 2018 (5 day RPIW)             | Theatres: Procurement/Supplies                              | Post 90-days          |
| <b>KE #6:</b> 20 Sept 2018 (3 days)                 | Stroke: CT Scanning   | Post 90-days          |
| <b>VS#4 KE#1:</b> Dec 2018 (3 days)                 | OPD Ophthalmology: Clinic Flow                              | Post 90-days          |
| <b>VS#5 KE#1:</b> Nov 2018 (2 days)                 | Patient Safety: Sharing of Learning with parents and carers | Post 90-days          |
| <b>VS#7 KE#1:</b> Feb 2019 (2 days)                 | Radiology: Red Dot Process                                  | 90-days               |
| <b>KE #6:</b> January 2019 (3 days)                 | Early Warning Score   | 90-days               |
| <b>KE #7:</b> March 2019 (3 days)                   | Discharge letters and TTO                                   | Post Kaizen Event     |
| <b>VS#3 KE #1:</b> May 2019 (3 days)                | Morning Medical Handover                                    | Post Kaizen Event     |
| <b>Lung Cancer Pathway KE #1:</b> May 2019 (3 days) | CT Guided Biopsy  | Post Kaizen Event     |





# Education and Training



**Engaged**  
Using TCPS  
Methodology

**Educated**  
30 minutes or  
more in TCPS  
Methodology

**Lean for  
Leaders**

**Advanced  
Lean Training  
(4 having  
undertaken  
RPIW Lead  
role)**

**5S  
Work shops**



# Lean for Leaders






| Cohort No. and Start Date | No. Starting participants | No. Current participants | End Date  | No. Graduates (post final project) |
|---------------------------|---------------------------|--------------------------|-----------|------------------------------------|
| #1 (16/17)                | 40                        | 36                       | Nov 17    | 30                                 |
| #2 (17/18)                | 60                        | 44                       | Jan 18    | 34                                 |
| #3 (18)                   | 54                        | 50                       | Nov 18    | 23                                 |
| #4 (18/19)                | 70                        | 60                       | July 2019 |                                    |
| #5 (19/20)                | 45                        | 45                       |           | Cohort starting July 2019          |

| TGT                | LFL         | ALT         |
|--------------------|-------------|-------------|
| % TGT in/through : | 4/10<br>40% | 4/10<br>40% |
| No. Current:       | 4           | 3           |
| No. Graduates:     | 3/4         | 2/3         |

## Example of TCPS / 5S improvements:

| Project Title                                    | Description  | TCPS Intervention                        | Outcome   |
|--|--|--|---|
| 5S of Fluid Store on Ward Gastro & Urology Wards | 100% defect in sourcing the correct fluid in a reasonable time   | 5S, mistake proofing and visual control  | Significant reduction in lead time from request for fluids to sourcing it.  |
| End of Life boxes on ITU                         | No allocated area for end of life supplies   | 5S, mistake proofing and visual controls | 100% quality metric as end of life boxes now readily available, with information on how to restock                |
| Finance Board Report                             | Over 3 hours to complete a monthly report; information in over 7 folders, and only 2 staff knew the process how to complete it | Set up reduction and standard work       | Over 2 hour reduction in lead time to complete the report, and standard work now written so anyone can produce it |

| Aligning Organisational Objectives  | Infrastructure & Resource   | Embedding one improvement and leadership methodology   |
|---|---|--|
| <p>Trust Strategy</p>  <p>Transforming Care Institute</p>  <p>Values</p>  | <ul style="list-style-type: none"> <li>KPO capacity will be challenged in the short term as our KPO Lead left the Trust at the end of March and recruitment is underway</li> <li>Secondments within the KPO Team are going well</li> <li>Successful recruitment of a KPO Specialist who will commence in post July 2019</li> </ul>  | <ul style="list-style-type: none"> <li>The new Executives who have recently commenced within the Trust have now received their onboarding packs to support their TCPS journey</li> <li>Over 4350 staff have now received 30 minutes or more of TCPS training</li> <li>Almost 1100 staff have now used the methodology to make improvement</li> <li>Over 50 participants to commence their 2019/20 Lean for Leaders training in July 2019</li> </ul>  |
|   | <p><b>4<sup>th</sup> Annual National Sharing Event being hosted by SaTH</b></p> <ul style="list-style-type: none"> <li>SaTH are delighted to host the 2019 National Sharing Event which will take place on:</li> <li>Wednesday 26 June 2019 at the Shropshire Education &amp; Conference Centre at the Royal Shrewsbury Hospital</li> <li>The focus will be on <b><i>'Pathway to Outstanding'</i></b></li> <li>Keynote speaker: Kate Silvester, a doctor with 20 years experience of system design and improvement in healthcare</li> </ul> | <p><b>TGB are asked to note that:</b></p> <ul style="list-style-type: none"> <li>KPO Team facilitated a highly successful report out to SaTH's Trust Board; over 90 minutes, 36 staff members reported out on the improvements they have made to processes using TCPS</li> <li>KPO Team supported two high profile visits to the Trust by Professor Ted Baker (Head CQC Inspector), and Peter Wyman (CQC Chair); during their visit to SaTH, the KPO Team arranged a number of genba walks to a wide variety of areas including Blood Sciences, ITU and Cardiology Ward</li> </ul> |