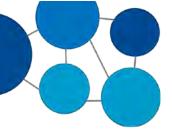
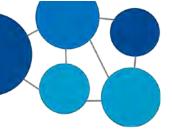


NON-FINANCIAL APPRAISAL PANEL
Evidence Pack
September 2016



CONTENTS

- 1. Introduction
- 2. Evidence for Non-Financial Criteria
- 3. Summary Option Descriptions
- 4. Appendices
 - A. Panel Membership
 - B. SaTH's Proposed Delivery Model
 - **C. Summary of Travel Time Impact Evidence**
 - D. Access Data
 - E. External Clinical Review of Option C2
 - F. Locality Maps
 - **G.** Index of Multiple Deprivation
 - H. Site Plans
 - I. Integrated Impact Assessment
 - J. Stratified Telephone Survey



PREFACE

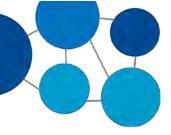
This version of the non-financial option appraisal briefing pack has been prepared to assist the decision making of the CCGs and their Joint Committee. It updates the pack issued to the non-financial appraisal panel with some minor corrections that were explained to the panel when it met on 23rd September and with some additional information, as set out below.

a. Minor Corrections

- i. The options diagram on p.5 had contained two errors. Under 'Royal Shrewsbury Hospital' it was indicated that Options C1 and C2 would have a DTC instead of LPC.
- ii. The summary of current emergency care access times on p.16 reflected public transport estimates whereas ambulance/car journey times should have been shown. The same correction has also been made where the figures are repeated in Appendix D.
- iii. On p.23 the impact of Option B on emergency care access for BME patients was reported as 13,046 attendances instead of 2,185.
- iv. In the Key Features section of Option C1 on p.30, the heading read 'W&C at PRH' instead of 'W&C at RSH'.
- v. In the summary tables for Option A in the Access Summary (Appendix D), four average travel times had to be updated in relation to public transport access to Women and Children's services. The errors were: for Oswestry, 86.3 instead of 85.9 mins; for South Shropshire, 70.5 instead of 71.5 mins; for Powys, 38.3 instead 87.9 mins; and for out of area attendances, 87.9 instead of 30.7 mins.

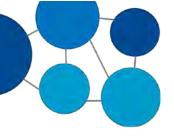
b. Additional Information

- Appendix B was presented to the panel during its meeting and describes SaTH's proposed delivery model.
- Appendix D's Access Summary has been added to with the explanatory slides presented to the panel.
- Appendix H contains the outline site plans and timescales for delivering each option, again as presented to the panel.
- Appendix I contains the 'Options Phase' report of the Integrated Impact Assessment. This was not formally part of the non-financial appraisal as it does not directly address the criteria agreed by the CCGs. Its role is to inform the CCGs of the potential wider impacts of each option so that these can be taken into account in considering the outcome of the appraisal. CCGs will need to identify what further work should be undertaken as part of the 'Consultation Phase' of the IIA.



SECTION ONE

INTRODUCTION



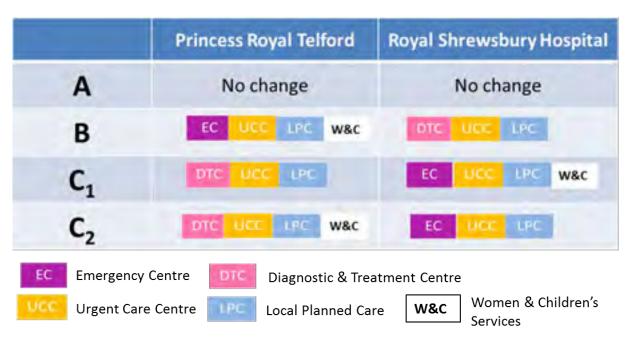
INTRODUCTION

Since June 2014, the programme has been engaged in a process of identifying and developing potential solutions for how the approved Clinical Model could be delivered.

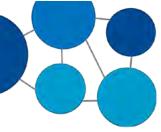
An initial list of more than forty scenarios was refined into a long list of thirteen, from which a shortlist of six options with two obstetric variants was identified. Following more detailed work on each option/variant, the Programme Board concluded that those involving any 'new site' component should be excluded from further consideration on the grounds of being unaffordable.

A previous appraisal exercise was undertaken on the remaining shortlist of options in September 2015. As the results were being considered it became evident that proposals could not go forward to public consultation until the deficit in the local health economy had been addressed. As a result, the Programme Board asked SaTH to set out how it could address its most pressing workforce challenges whilst parallel work was initiated to address the deficit (work since taken up by the STP programme).

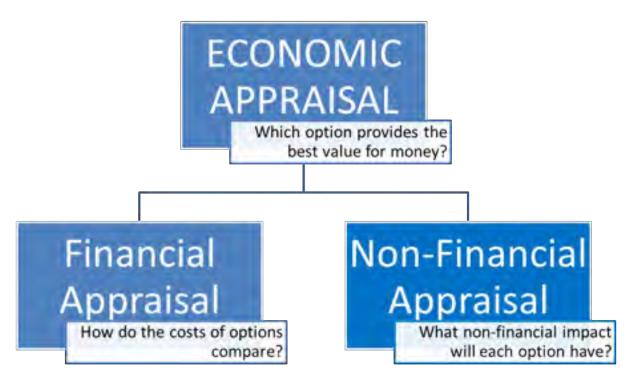
The work requested from SaTH by the Programme Board led to the development of revised delivery solutions for each of the programme's configuration options. Those solutions offer a much more balanced split of activity between the sites with a 60/40 split of beds between the Emergency Centre site (EC) and the Planned Care (DTC) site.



These options include provision for local urgent care, diagnostics and outpatients in both Shrewsbury and Telford. The programme continues to explore the potential for local urgent and planned care in rural areas but that is outside the scope of this appraisal.



The programme is now at the stage where these remaining options need to be subject to financial and non-financial appraisal. This process follows the guidance set out in the DH *Capital Investment Manual* and HM Treasury's *Green* Book.



1. Financial Appraisal

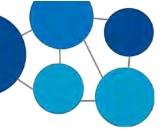
This technical appraisal replaces the affordability criterion used in the shortlisting process, to reflect the much more detailed financial information which is now available. This appraisal, which will be undertaken by SaTH and reviewed by the Programme's Finance Workstream, covers both capital and revenue costs and addresses questions of affordability to SaTH and value for money for the population. Key outputs will include:

- Net Present Cost (NPC) the total future costs of the project over a number of years expressed in terms of today's prices,
- Equivalent Annual Cost (EAC) the average annual impact at today's prices.

The appraisal will need to address a minimum period of 30 years (ideally 60 years) to meet Treasury guidance.

2. Non-financial Appraisal

This is the task of the panel meeting on 23rd September. The remaining appraisal criteria – accessibility, quality, workforce and deliverability – provide the framework for this appraisal. These were agreed by the Board previously, having given consideration to the key benefits the programme seeks to deliver and to the views of the public.



a) Criteria

Summary descriptions of each option have been developed which address each criterion in turn. These are included in this pack with full data sources, where appropriate, contained in the appendices.

b) Panel

The Board has agreed the composition of the Panel. This reflects the organisations which are sponsor or stakeholder members of the Programme.

In order for a fair and robust appraisal to take place, panel members have been asked to:

- i) Make a Declaration of Interests
- ii) Undertake to adhere to the Programme Code of Conduct, including its confidentiality requirements.

Panel members are representatives of their nominating organisations who will need to use their own judgement in assessing the evidence provided, mindful of the needs of the whole population affected by programme proposals. They are not delegates coming simply to assert a pre-determined view (whether that view is their own, the view of their nominating organisation or the view of any other organisation to which they are affiliated). It is proposed that members' final scores should be anonymous and that they will only be known to those on the day recording scores.

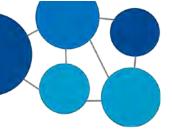
c) Process

The process for the Panel's meeting is as follows:

- 9.00 a.m. Registration & Refreshments
- 9.15 a.m. Welcome & Introduction to the Day Debbie Vogler
- 9.45 a.m. Confirmation of Criteria Weightings David Frith
- 10.00 a.m. Presentation of Evidence & Initial Individual Scoring

N.B. Panel members will be asked to consider scores after each item.

- Access Andrew Hood, Strategy Unit
- Quality Dr Stephen James, Clinical Design Workstream
 Lead
- Workforce Victoria Maher, SaTH
- Deliverability



- o Estates Kate Shaw, SaTH
- o Acceptability Harpreet Jutlla, CSU Comms Team

| • | 12.00 Noon | Identification of | Key Questions f | for Discussion - | - Debbie Vogler |
|---|------------|-------------------|-----------------|------------------|-----------------|
|---|------------|-------------------|-----------------|------------------|-----------------|

- 12.15 p.m. Lunch Break
- 12.45 p.m. Response to Questions about Evidence & General Discussion
- 2.00 p.m. Confirm Initial Individual Scoring of Options David Frith
- 2.15 p.m. Break for Refreshments [collation of initial scores]
- 2.30 p.m. Feedback and Discussion of Initial Scoring David Frith
- 4.00 p.m. Opportunity to Revise Scoring
- 4.15 p.m. Confirmation of Revised Scoring David Frith
- 4.30 p.m. Close & Next Steps Debbie Vogler

Members are required not to disclose non-financial scores until they are published by the Programme Board, and at no time to make public the views of other panel members.

i) Weighting the Criteria

Panel members will be asked to consider the criteria weightings including whether there are any valid reasons for varying these from those previous agreed. Sensitivity analysis will subsequently be undertaken using alternate weightings to test the robustness of results. The panel will be supplied with the results of a representative public telephone survey to take into consideration.

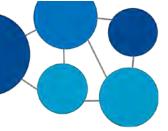
ii) Scoring the Options

Panel members will be asked to score each of the four options/variants against each of the 4 criteria using a set range of scores. Initial individual scoring will take place during the presentation of the evidence for each criterion with a later opportunity to refine these initial scores as a result of any clarification emerging from subsequent discussions.

3. Economic Appraisal

Once the financial and non-financial appraisals are complete, the Programme Office (supported by the Strategy Unit) will combine the results into an overall economic or value-for money appraisal.

There are a number of standard methodologies recommended by HM Treasury which can be used at that stage, alone or in combination.



This appraisal will include:

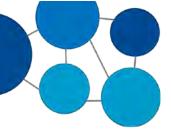
a) Weighting financial and non-financial scores

A non-financial score for each option is derived from the weighted total of the score for each non-financial criterion, giving a maximum of 100 'benefit points'. A financial score is derived from awarding 100 points to the option with the lowest Net Present Cost (NPC). More costly options are awarded points in inverse proportion to this. The two scores for each option are then combined, and the impact of different financial and non-financial weightings will be tested (informed by public views from the stratified telephone survey).

b) Calculating the cost of each non-financial benefit point

Here, the NPC is converted into an Equivalent Annual Cost for each option, and a cost per benefit point is calculated. The option with the lowest cost per benefit point would be regarded as offering the greatest value for money.

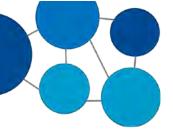
The Programme Office will subsequently make a report to the Board which draws on the methodologies above. This may lead to the Board recommending the identification of a 'preferred option' to CCG Governing Bodies. All remaining deliverable options must be included in Public Consultation before a final decision to proceed is made by commissioners.



SECTION TWO

EVIDENCE FOR

NON-FINANCIAL CRITERIA



Evidence for Non-Financial Criteria

This section describes the nature of the evidence being provided to panel members. It provides notes to help panel members interpret the information presented in the summary descriptions of each option. At the panel workshop, this evidence will be presented by relevant experts, and there will be opportunity for the panel to ask questions for clarification about the evidence.

1. Accessibility

The travel time analysis for this criterion is based on actual SaTH activity data from 2015-16, enabling an assessment to be made of the travel time and distance from each full postcode to each hospital site. It models the impact of each option in terms of that historic activity, to show what the impact would have been were the configurations described in each option to have been in place. It is broken down into the following categories:

- Urgent Care
- Emergency Care
- Complex Planned Care
- Non-complex Planned Care
- Outpatients
- Women's and Children's Services.

For attendances at the EC, road travel times only are presented since admission is expected to be by ambulance only; for DTC, road and public transport times are presented. Both reflect off-peak conditions (9a.m. to 4 p.m.) when the bulk of activity takes place.

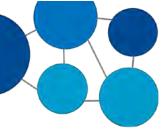
The focus of this analysis is on the differential impact of each option - that is, the marginal change that would result from implementing options B, C1 and C2 by comparison with Option A (the 'do minimum').

This impact is further broken down in terms of nine geographic localities and, so far as has been possible from the available data, of groups with protected characteristics (e.g. gender, ethnicity, age and deprivation).

A narrative summary of the analysis is provided in the option templates, and the detailed data tables and maps can be found in the appendices for cross-referencing.

Maps show the differential effects of assuming all activity continues to take place on a SaTH site. To reflect patient choice, data tables also show the impact of travelling to a nearer alternative provider.

Shaded areas on the maps reflect the average travel time for each Lower Super Output Area



(LSOA), each of which has a population of between 1,000 and 3,000. It is important that panel members are mindful of the relative geographic size of LSOAs since there is no material difference between a large red rural area and a small red urban area.

2. Quality

There are two main components in relation to the quality criterion. The first concerns the impact of the options on time critical journeys to EC; the second summarises the impact of each option on the three quality domains of safety, effectiveness and patient experience:

a) Care of patients with time-critical conditions

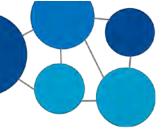
Data is provided on time-critical ambulance conveyance times by locality. This information relates to 'Red 1' (West Midlands Ambulance Service) and 'Category A' (Welsh Ambulance Service) with a handful of additional incidents where the chief complaint was recorded as Red 1, Cardiac Arrest or Life Threatening Illness. These are considered, at point of triage, as being the most time critical episodes of ambulatory care.

Of the time-critical 999 calls taken by ambulance to Shrewsbury & Telford Hospitals Trust sites, the West Midlands Ambulance Service conveys over 85%. In 2014/15, 743 calls originating from Shropshire or Telford CCG areas or Powys were classified as Red 1/Category A and conveyed to a SaTH hospital. The following table summarises those ambulance conveyance times:

Ambulance Service conveyance Times - 2014/15

| Locality | Conveyed | Average journey time |
|---------------------|----------|-------------------------|
| Bridgnorth | 67 | 25.1 |
| North Shropshire | 60 | 27.8 |
| Oswestry | 37 | 23.6 |
| Shrewsbury & Atcham | 177 | 12.1 |
| South Shropshire | 41 | 38.0 |
| Hadley Castle | 88 | 11.3 |
| Lakeside South | 63 | 14.9 |
| The Wrekin | 105 | 10.1 |
| Powys | 105 | 37.8 |
| Grand Total | 743 | 20.0 |

No proposals to change ambulance services are currently within the scope of Future Fit options. Commissioners will be able to consider changes to ambulance services, however, where such changes could mitigate any adverse access impact identified in the modelling.



b) Other clinical quality considerations

Tables are provided which summarise the potential impact of each option in terms of the three quality domains. These have been developed by SaTH clinicians and reviewed by CCG clinicians.

The key considerations are the favourable and adverse impacts of:

- i) Consolidating emergency and planned services on single sites;
- ii) Whether or not consultant-led obstetric activity is co-located with EC (Appendix D contains an external clinical review of this issue, and a position statement from SaTH clinicians); and
- iii) The extent of new or significantly refurbished facilities, and the physical disposition of services within each site, which might also be considered to have an impact on both patient and staff experience.

3. Workforce

Clinical workforce shortages are an increasingly critical element of the programme's case for change.

The impact of these shortages is set out under Option A. For the other options, the potential of each option to improve recruitment and retention is summarised.

4. Deliverability

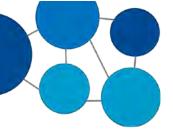
For this criterion, the estates work required to deliver each option is summarised, drawing on work undertaken by external technical advisors. Outline plans and timescales can be found in Appendix H.

Beyond physical deliverability, there are also differential issues in terms of the acceptability of each option to the public and other stakeholders.

The templates contain a summary of the results of a representative public telephone survey which asked respondents about the appropriateness of each option in their view. The full results can be found in the appendices.

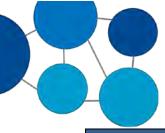
Initial work to explore the potential impact of options on a range of areas (health, access, economic, social, environmental) has been undertaken by external expert advisors. A report on this Integrated Impact Assessment will be provided to CCG Governing Bodies to inform their consideration of the option appraisal results. If possible, this will also be shared with the non-financial appraisal panel as background information.

Previous summaries of public views on developing options including reports on deliberative events can be accessed via the programme website (http://nhsfuturefit.org/useful-documents/board-papers/2014-board-papers/board-papers-17122014-1/120-140929-f-august-deliberative-events-final-report-1/file).



SECTION THREE

SUMMARY OPTION DESCRIPTIONS



| OPTION A | | | | | |
|--|---|--|--|--|--|
| Key Features | | | | | |
| PRH | RSH | | | | |
| Existing services for emergency care, planned care and women's and children's services are maintained. | Existing services for emergency care and planned care are maintained. | | | | |

Option A assumes that provider & Commissioner efficiency strategies are implemented in line with Phase 1 modelling but no major service change takes place. The Clinical Model is not implemented.

Other than essential backlog maintenance, it will not involve capital expenditure as part of the Future Fit Programme. The economic appraisal will, however, include an assessment of life cycle costs reflecting the age of existing facilities.

Accessibility for Patients

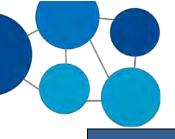
Is this option materially inferior to others in terms of promoting equity of access to acute hospital services?

Of the projected future activity, all activity is assumed to continue to be provided on the current sites.

Urgent and Emergency Care Patients

The 78,488 urgent care patients currently treated via A&E would experience no change in travel time by car or public transport.

| Average Journey Times | Urgent Care | | | |
|-----------------------|------------------|---------------|--|--|
| Mode of Transport | Public Transport | Car/Ambulance | | |
| Bridgnorth | 62.7 | 22.4 | | |
| North Shropshire | 58.5 | 28.2 | | |
| Oswestry | 63.9 | 25.6 | | |
| Shrewsbury & Atcham | 38.7 | 11.5 | | |
| South Shropshire | 58.4 | 36.1 | | |
| Hadley Castle | 40.9 | 11.5 | | |
| Lakeside South | 48.9 | 14.3 | | |
| The Wrekin | 30.4 | 8.8 | | |
| Powys | 64.4 | 38.4 | | |
| Out Of Area | 48.7 | 21.3 | | |
| Overall Average | 44.4 | 16.2 | | |



The 62,531 emergency care patients currently treated via A&E would experience no change in travel time by ambulance (only).

| Average Journey Times | Emergency Care |
|-----------------------|----------------|
| Mode of Transport | Ambulance |
| Bridgnorth | 26.0 |
| North Shropshire | 30.3 |
| Oswestry | 27.0 |
| Shrewsbury & Atcham | 12.5 |
| South Shropshire | 38.9 |
| Hadley Castle | 14.1 |
| Lakeside South | 15.9 |
| The Wrekin | 10.6 |
| Powys | 39.6 |
| Out Of Area | 24.8 |
| Overall Average | 20.9 |

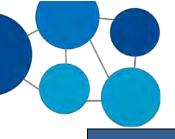
The differential travel times compared with urgent care may reflect a combination of factors including:

- Site-specific emergency services (e.g. trauma, stroke);
- The availability of closer to home urgent care services (e.g. community hospitals, GP practices); and
- The specific postcodes of the patients recorded in the 2015-16 data.

Complex Planned Care Patients

The 1,326 complex planned care patients would experience no change in travel time by car or public transport.

| Average Journey Times | Complex Planned | | | |
|-----------------------|------------------|---------------|--|--|
| Mode of Transport | Public Transport | Car/Ambulance | | |
| Bridgnorth | 69.8 | 23.9 | | |
| North Shropshire | 77.0 | 31.5 | | |
| Oswestry | 99.5 | 42.5 | | |
| Shrewsbury & Atcham | 63.8 | 22.5 | | |
| South Shropshire | 70.8 | 47.9 | | |
| Hadley Castle | 48.2 | 13.8 | | |
| Lakeside South | 51.9 | 15.1 | | |
| The Wrekin | 37.1 | 10.6 | | |
| Powys | 69.8 | 48.8 | | |
| Out Of Area | 72.9 | 26.0 | | |
| Overall Average | 62.1 | 25.0 | | |



Non-complex Planned Care Patients

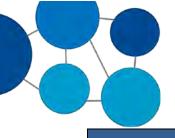
The 57,444 non-complex planned care patients would experience no change in travel time by car or public transport.

| Average Journey Times | Non-Complex Planned | | |
|-----------------------|---------------------|---------------|--|
| Mode of Transport | Public Transport | Car/Ambulance | |
| Bridgnorth | 76.8 | 29.4 | |
| North Shropshire | 63.7 | 31.3 | |
| Oswestry | 67.5 | 26.9 | |
| Shrewsbury & Atcham | 40.8 | 12.5 | |
| South Shropshire | 58.4 | 39.3 | |
| Hadley Castle | 63.7 | 19.9 | |
| Lakeside South | 64.8 | 20.3 | |
| The Wrekin | 49.9 | 14.7 | |
| Powys | 58.0 | 37.2 | |
| Out Of Area | 81.3 | 38.0 | |
| Overall Average | 58.5 | 24.0 | |

Outpatients

The 647,865 non-complex planned care patients would experience no change in travel time by car or public transport.

| Average Journey Times | Outpatient (Non-Complex) | | | |
|-----------------------|--------------------------|---------------|--|--|
| Mode of Transport | Public Transport | Car/Ambulance | | |
| Bridgnorth | 60.7 | 22.0 | | |
| North Shropshire | 62.6 | 29.5 | | |
| Oswestry | 57.8 | 23.1 | | |
| Shrewsbury & Atcham | 40.6 | 12.6 | | |
| South Shropshire | 55.7 | 35.5 | | |
| Hadley Castle | 48.4 | 14.1 | | |
| Lakeside South | 52.4 | 15.6 | | |
| The Wrekin | 36.5 | 10.7 | | |
| Powys | 61.7 | 37.5 | | |
| Out Of Area | 61.6 | 30.0 | | |
| Overall Average | 50.4 | 19.7 | | |



Women's & Children's

The 21,527 Women's and Children's attendances would experience no change in travel time by car or public transport.

| Average Journey Times | Women and Children | | |
|-----------------------|--------------------|---------------|--|
| Mode of Transport | Public Transport | Car/Ambulance | |
| Bridgnorth | 60.4 | 22.4 | |
| North Shropshire | 73.3 | 28.4 | |
| Oswestry | 85.9 | 35.5 | |
| Shrewsbury & Atcham | 58.7 | 20.8 | |
| South Shropshire | 71.5 | 42.2 | |
| Hadley Castle | 41.2 | 11.2 | |
| Lakeside South | 48.0 | 13.7 | |
| The Wrekin | 30.5 | 8.7 | |
| Powys | 87.9 | 53.3 | |
| Out Of Area | 30.7 | 12.5 | |
| Overall Average | 54.9 | 21.1 | |

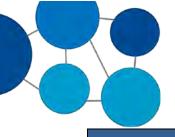
Quality of Care

Is this option likely to be materially different to others in terms of clinical safety and effectiveness, and of patient experience?

Care of patients with time-critical conditions

The number of time-critical journeys whose average travel time to the nearest EC falls within the defined time-bands are as follows:

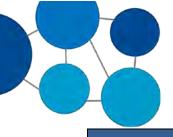
| | | Co | inveyance | by time-ba | and (minut | es) | | | | |
|---------------------|-----|-------|-----------|------------|------------|-------|-----|----------------|---------------|---------|
| Locality | <15 | 15-29 | 30 44 | 45-59 | 60-74 | 75-89 | 90+ | Grand Total | % 60+ mins | Average |
| Bridgnorth | 8 | 39 | 18 | 2 | | | | 67 | 0.0% | 25.1 |
| North Shropshire | 7 | 31 | 19 | 2 | 1 | | | 60 | 1.7% | 27.8 |
| Oswestry | 1 | 33 | 3 | | | | | 37 | 0.0% | 23.6 |
| Shrewsbury & Atcham | 132 | 42 | 3 | | | | | 177 | 0.0% | 12.1 |
| South Shropshire | 2 | 9 | 15 | 13 | 2 | | | 41 | 4.9% | 38.0 |
| Hadley Castle | 71 | 16 | 1 | | | | | 88 | 0.0% | 11.3 |
| Lakeside South | 34 | 29 | | | | | | 63 | 0.0% | 14.9 |
| The Wrekin | 86 | 19 | | | | | | 105 | 0.0% | 10.1 |
| Powys | 7 | 29 | 39 | 23 | 5 | 1 | 1 | 105 | 6.7% | 37.8 |
| Grand Total | 348 | 247 | 98 | 40 | 8 | 1 | - 1 | 743 | 1.3% | 20.0 |



Other Clinical Quality Considerations

| Other Chilical Quanty Considerations | | | | | | | |
|---|--|--|--|--|--|--|--|
| FAVOURABLE | ADVERSE | | | | | | |
| Safety Domain | | | | | | | |
| Obstetrics, Gynaecology, Paediatrics and Neonates continue to be co-located with (unsustainable) Emergency Care services. Surgical services remain | Does not address sustainability of critical care, acute medicine and emergency medicine services which risk critical failure if not addressed Paediatric surgery and surgical support to women's services are at PRH whilst the main surgical base is RSH creating risks particularly out of hours Lack of acute Gynaecology surgical services at main surgical site to support general surgery / lack of general surgery support at main women & children's site | | | | | | |
| predominantly on one site and continue to be co-located with (unsustainable) Emergency Care services. Pathology service reconfiguration unaffected and service maintained. No major service reconfiguration planned | Insufficient skills/experience in Emergency Medicine and anaesthetics at RSH for acutely unwell children Inpatient theatre provision misaligned Fragile medical services on both sites with rotas maintained by use of locums and short term urgent service changes Inter hospital transfer from speciality to speciality resulting in poor flow and prolonged hospital stay Delay in accessing interventional radiology for some patients as available at one site only Increasing short-term measures required to address service safety and sustainability issues – risk that they are | | | | | | |
| pianneu | introduced in reactive and uncoordinated manner with consequent adverse impact on safety | | | | | | |
| Effectiveness Domain | | | | | | | |
| No short-to-medium term disruption to day-to-day operational delivery as no changes are undertaken Well established care pathways Some service reconfiguration complete | Inadequate senior medical workforce capacity in Emergency Medicine reducing access to senior clinical decision makers in ED Frequent transfer of patients between sites – this leads to increased length of stay which is associated with decompensation and adverse impact on recovery Challenges of coordinating paediatric trauma at RSH with split services Duplication of services across two sites with variation in working practices and duplication in rotas that reduces access to senior clinical decision makers at speciality-level | | | | | | |

access to senior clinical decision makers at speciality-level Effectiveness and outcomes at risk due to requirement for



short-term measures to address clinical sustainability

 Premium costs of measures to address safety and sustainability in the short-term – e.g. agency costs – reduce ability to invest in steps to improve effectiveness and outcomes

Experience Domain

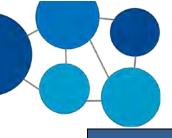
- Patients and the public have no change to the way they access Urgent and Emergency Care, albeit that those services are not sustainable
- Outpatients, medical inpatients and complex diagnostics remain on both SaTH sites

- Variable access to senior decision makers in emergency medicine particularly out of hours
- Medical rotas reliant on locums less likely to be seen by substantive/permanent clinicians embedded in Trust systems and procedures
- Two-site service creates confusion for patients and relatives
- Continued need for inter-site transfers to bring together the patient with the specialty team
- Difficulty in meeting waiting time targets due to failure to separate emergency and non-emergency beds
- On-going reliance on poor quality estate and out-dated facilities

Workforce

To what extent will this option improve recruitment & retention and enable better use of the workforce?

- The Trust currently has only 8.6 WTE emergency medicine consultants which represent only 43% of the standards recommended by the College of Emergency Medicine for 16hrs of cover, 7 days a week
- Critical Care is covered with a mix of general anaesthetists and the small number of intensivists available, and consultant presence is still well below recommended levels
- Continued and innovative solutions to address this recruitment challenge have been explored: recruitment drives nationally and overseas; sharing posts and rotas with neighbouring Trusts; and creating new roles such as fellowships and advanced practice have all failed to provide a sustainable solution. Day to day operational plans are in place to ensure the care and safety of patients within the Trust's clinical services but a long term solution is urgently needed
- Trust consultant staffing in acute medicine is less than 50% of the minimum recommended by the Royal College of Physicians; a third of which are Locums
- Inadequate skills in Emergency Medicine and anaesthetics at RSH for acutely unwell children
- Inadequate senior medical workforce in Emergency Medicine reducing access to senior decision makers, particularly out of hours



- Separate consultant teams with different clinical practices on 2 existing sites (in some medical specialities) with very limited cross site working
- Parallel resident and non-resident emergency rotas running for specialities that are duplicated across both sites. Consolidation is likely to reduce on call frequency although intensity will increase.

Deliverability

Is there evidence that this option is practically infeasible or materially inferior in terms of deliverability?

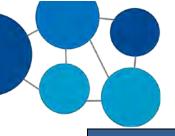
Summary of Physical Changes

The buildings on the *Royal Shrewsbury Hospital* site comprise several separate developments, ranging in age from 1966 to the current day:

- The Maternity and Paediatric development at the south of the site adjacent to the main entrance roadway was built in 1967;
- The central development of Wards, Outpatients, A&E, Imaging and Support services, which forms the main spine of the site and came into use between 1976 to 1978;
- The Cobalt Unit that includes Linear accelerators and Oncology services dating from 1982;
- The Renal unit at the north of the site, which was built in 1991 and extended in 2003;
- The Treatment Centre opened in 2005 also at the north end of the site;
- Medical and nursing educational facilities in the north east corner of the site, built in 2002;
- Residential accommodation in the south west corner of the site, built in 1974 and extended in 1982;
- Rooftops accommodation in replace of some of the old residential accommodation in the south west corner of the site, completed in phases from August 2009 to December 2010;
- Boiler House and Estate Department in the north-west corner of the site, built in 1966 and 1977 respectively;
- The new and extended Cancer Centre opened in 2013

The buildings on the *Princess Royal Hospital* site essentially comprise a 2 storey nucleus hospital opened in 1988 with some additions;

- Extension in 1999 to provide a purpose designed Rehabilitation Unit;
- The Management Suite was refurbished in 2013 to create a 28 bed inpatient short stay medical ward;
- A new Women's and Children's Centre was opened in 2014;
- Staff residential blocks and a small private outpatient clinic in the south east corner



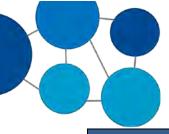
of the site built in 1989;

 A number of underutilised residential blocks were refurbished in 2013 to provide office accommodation

Option A would not involve capital expenditure as part of the Future Fit Programme. No disruption would occur (except through planned backlog maintenance and as life cycle works become due). The ability of facilities to meet future needs would remain unchanged. Given that all other options involve elements of refurbishment and new build works, Option A would result in poorer facilities than others.

Public acceptability

Option not covered in telephone survey as no change involved.



| OPTION B | | | | | | |
|---|---|---|--|--|--|--|
| Key Features | | | | | | |
| EC at PRH | DTC at RSH | W&C at PRH | | | | |
| An Urgent and Emergency Care Network comprising: | A Planned Care Network comprising: | A Women's & Children's Network comprising: | | | | |
| Urban Urgent Care Centres at both sites. A single Emergency Department at the Princess Royal Hospital, Telford with Ambulatory Emergency Care, Critical Care, complex planned care & Children's Assessment Unit. | Local Planned Care facilities at both sites. A single Diagnosis and Treatment Centre at the Royal Shrewsbury Hospital with Ambulatory Cancer Care. | Local Midwifery Led Units as now. Paediatric outpatients on both sites. Consultant-led Women's & Children's services at the Princess Royal Hospital, Telford. | | | | |

Accessibility for Patients

Is this option materially inferior to others in terms of promoting equity of access to acute hospital services?

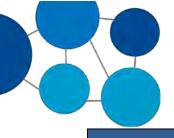
Urgent and Emergency Care Patients

Of the total 141,019 patient attendances, 76.7% (108,133) would be unaffected.

- The 78,488 urgent care patients currently treated via A&E would experience no change in travel time by car or public transport. Waiting times on arrival may improve due to the separation of urgent care from emergency care and the availability of appropriate clinicians.
- 47.4% (29,645) of emergency patients would be unaffected
- 52.6% (32,886) of emergency patients would be conveyed to PRH instead of RSH
- Average emergency journey times would increase slightly to 25.3 mins (+4.4 mins).

For the 32,886 displaced emergency attendances:

- The localities adversely affected are South Shropshire (+10.1 mins), Shrewsbury & Atcham (+12.9 mins), Powys (+20 mins) and Oswestry (+20.1 mins);
- Journey times will increase by an average of 8.5 minutes;
- Women are marginally more affected than men (+8.7 vs. +8.4 mins);
- 3.5% (2,185) are from BME groups (+7.2 mins);
- 14.8% (9,257) are aged 75 and over (+10.2 mins);



- 1.3% (784) are of pre-school age (+11.2 mins);
- 14.1% (8,800) live in the two most deprived quintiles (+4.5 mins); and
- 16.2% (10,143) live nearer to an external emergency facility.

Complex Planned Care Patients

- 85.7% (1,136) of patients would be unaffected;
- 14.3% (190) of patients would attend PRH instead of RSH; and
- Average journey times would be 25.1 mins (+0.1 mins).

For the 190 displaced attendances:

- The localities adversely affected are South Shropshire (+9.9 mins), Shrewsbury & Atcham (+12.5 mins), Oswestry (+20.1 mins) and Powys (+20.2 mins);
- Journey times will increase by an average of 0.9 minutes;
- Women are marginally more affected than men (+3.1 vs. -0.5 mins);
- 0.6% (8) are from BME groups (-10.5 mins);
- 3.3% (44) are aged 75 and over (+4.2 mins);
- None are of pre-school age;
- 5.7% (76) live in the two most deprived quintiles (-2.8 mins); and
- 3.7% (49) live nearer to an external emergency facility.

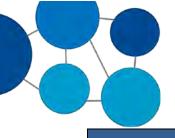
Comparable data for journeys by public transport are contained in the appendices. These show a marginal change in overall access time (-0.5 mins) but with a very varied geographical impact, as for car journeys. The greatest adverse impact appears to be on over 75s and deprived populations in Shrewsbury & Atcham, Oswestry and Powys.

Non-complex Planned Care Patients

- 73.5% (42,204) of patients would be unaffected;
- 26.5% (15,240) of patients would attend RSH instead of PRH; and
- Average journey times would increase slightly to 26.3 mins (+2.3).

Of the 15,240 displaced attendances:

- The localities adversely affected are North Shropshire (+7.9 mins), Bridgnorth (+10.8 mins), Lakeside South (+13.6 mins), The Wrekin (+15.2 mins) and Hadley Castle (+15.7 mins);
- Journey times will increase by an average of 8.8 minutes;
- Men are marginally more affected than women (+9 vs.+8.5 mins);



- 1.9% (1,073) are from BME groups (+11.3 mins);
- 5% (2,864) are aged 75 and over (+8.8 mins);
- None are of pre-pre-school age;
- 10.4% (5,974) live in the two most deprived quintiles (+11.3 mins); and
- 7.4% (4,225) live nearer to an external facility.

Comparable data for journeys by public transport are contained in the appendices. These show an increase in overall access time (+6.1 mins) but with a very varied geographical impact, as for car journeys. The greatest adverse impact appears to be on over 75s, BME groups and deprived populations in Bridgnorth, Hadley Castle, Lakeside South and The Wrekin.

Outpatients

The 647,865 outpatients would experience no change in travel time by car or public transport.

Women's & Children's

There would be no change to these services which would remain at PRH, having no impact on the 21,527 attendances.

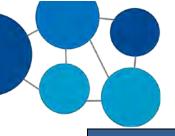
Quality of Care

Is this option likely to be materially different to others in terms of clinical safety and effectiveness, and of patient experience?

Care of patients with time-critical conditions

The number of time-critical journeys whose average travel time to the nearest EC falls within the defined time-bands are as follows:

| | Conveyance by time-band (minutes) | | | | | | | | | |
|---------------------|-----------------------------------|-------|-------|-------|-------|-------|-----|----------------|----------------|---------|
| Locality | <15 | 15-29 | 30 44 | 45-59 | 60-74 | 75-89 | 90+ | Grand Total | % 60 + mins | Average |
| Bridgnorth | 8 | 39 | 18 | 2 | | | | 67 | 0.0% | 24.9 |
| North Shropshire | 5 | 28 | 25 | 1 | 1 | | | 60 | 1.7% | 29.0 |
| Oswestry | | | 26 | 11 | | | | 37 | 0.0% | 41.8 |
| Shrewsbury & Atcham | 24 | 121 | 27 | 4 | 1 | | | 177 | 0.6% | 22.9 |
| South Shropshire | 1 | 4 | 14 | 18 | 3 | 1 | | 41 | 9.8% | 44.8 |
| Hadley Castle | 73 | 15 | | | | | | .88 | 0.0% | 10.8 |
| Lakeside South | 36 | 27 | | | | | | 63 | 0.0% | 14.4 |
| The Wrekin | 97 | 8 | | | | | | 105 | 0.0% | 8.3 |
| Powys | 1 | 6 | 15 | 38 | 32 | 10 | 3 | 105 | 42.9% | 56.5 |
| Grand Total | 245 | 248 | 125 | 74 | 37 | 11 | 3 | 743 | 6.9% | 26.3 |



Other Clinical Quality Considerations

FAVOURABLE ADVERSE

Safety Domain

- Single site delivery for emergency care ensures effective medical recruitment to pressed specialities, effective 24/7 medical rotas and therefore timely access to senior decision makers
- Unified pathways for care reducing variation and risk inherent in this
- Separation of Planned Care from Emergency Care allows the development of effective elective care pathways and reduces variation and confusion
- Separation of Planned Care from Emergency Care reduces risk of infection to elective patients – although 'ring-fencing' of beds on the planned care site will be required
- All emergency/complex planned care on one site resulting in improved recruitment and retention and access to all specialities in a crisis
- 7 day working delivered at both sites with increased presence of senior decision makers

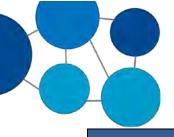
- Potential for occasional inter-hospital transfer of unexpected critically ill patients from the Planned Care site to the Emergency Care site
- Risk that the 'ring-fencing' of beds on the Planned Care site is not delivered
- Risk to achieving Trauma
 Unit status at the PRH site
 due to the proximity to the
 Trauma Unit at the Royal
 Wolverhampton Hospital
 Trust

Effectiveness Domain

- Separation of Planned Care and Emergency Care enables the 'protection' of scheduled care activity at times of increased demand for unscheduled care resulting in an improved RTT and fewer cancellations – fewer delays will contribute to improved outcomes for patients.
- The majority of patients accessing urgent care should go to the same hospital as they do now
- 7 day working delivered at both sites with increased presence of senior decision makers
- Patients requiring on-going inpatient care post 72 hours of admission may be transferred from the Emergency Site to the Planned Care site
- Risk to the protection of scheduled care activity at times of increased unscheduled care demand

Experience Domain

- Some levels of service unchanged e.g outpatients, UCC and diagnostics at both sites
- Separation of Planned Care from Emergency Care enables the 'protection' of scheduled care activity at times of increased demand for unscheduled care resulting in an improved RTT and less cancellations
- A number of services do change
- Ambulatory cancer care is separated from inpatient cancer care with impact on experience and continuity of



- fewer delays and cancellations leads to improved patient experience
- Fewer delays in access to senior clinical decisionmakers in an emergency due to single Emergency site compared with Option A – rotas less reliant on locum staff with more substantive/permanent clinicians who are familiar with Trust and local health & care systems
- Addresses current separation of centre for complex surgery centre and Women and Children's
- Estates & facilities improved as the Trust addresses its backlog maintenance alongside new facilities for emergency and critical care services – relative to current condition (see Option A)
- Patients will be seen in the most appropriate service and facility and by the most appropriate staff as patients are 'streamed' based on their clinical need
- 7 day working facilitates timely and appropriate discharge

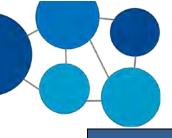
care for cancer patients

 Potential for Ambulance transfers from UCC to ED

Workforce

To what extent will this option improve recruitment & retention and enable better use of the workforce?

- Consolidation of emergency care on a single site is expected to significantly improve recruitment and retention for both emergency and acute medicine (supported by recent experience in consolidated Women and Children's Centre)
- A greater consultant presence in the Emergency Department (ED) achieved with consolidation reduces admissions, reduces inappropriate discharges, improves clinical outcomes and reduces risk to patients. In addition it enables the on call rota frequency to increase more in line with Royal College guidelines
- Reduce the utilisation of locums to cover the middle grade rotas to support 24 hrs a day
 presence in the ED by having the ability to have more effective rota management as
 single site cover required
- Combining duplicated specialities enables rota frequency reduction but increased intensity driving a process of 7 day and evening presence and working at consultant level. At Tier 2 and 1 consolidation for rotas will reduce number of Tier 1 doctors required to man the service and will facilitate the expansion of Advanced Practitioner posts
- More attractive to both medical and non-medical trainees as will enhance their learning



experience

- Workforce transformation opportunities and new role development would be considerably easier to operationalise due to increased capacity to mentor/ sign off clinical competence
- Access to senior decision makers on the Emergency Care Site with sustainable medical rotas
- With the ring fencing of elective beds within Planned Care there is less impact of medical outliers, as such this may be attractive to surgical recruitment
- A single acute medical take on the Emergency Care Site will improve rota management of acute physicians and improve access to senior review and clinical decision making 7 days per week
- The multi-disciplinary workforce required to support acutely ill patients will be consolidated onto one site, reducing duplication and supporting enhanced communication for decision making
- The Planned Care Site will enable targeted therapeutic interventions and appropriate ongoing medical care from the multi-disciplinary team
- Critical Care consolidation improves compliance to core standards
 - o Enhances quality and safety in ITU and emergency care
 - o Protects elective workload and income
 - o Enhance patient experience
 - o Enhance workforce morale
 - Maintain elective targets

Deliverability

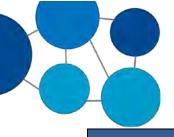
Is there evidence that this option is practically infeasible or materially inferior in terms of deliverability?

Summary of Physical Changes

Providing an evenly balanced distribution of services that would deliver recognisable, vibrant hospital sites 24/7 and addressing the most significant backlog maintenance challenges at the Trust would result in significant works and moves at both the PRH and RSH irrespective of the service split.

In option B, PRH is the Emergency Care Site and comprises a new build Urgent Care Centre, Emergency Department, Ambulatory Emergency Care and Critical Care Unit. In addition, the re-provision of new Surgical and Medical Services capacity required on the Emergency Care Site will also be provided in new build accommodation. A new main entrance at the front of the site is also planned. Women and Children's Services remain as now. Some works are also undertaken to address the backlog maintenance evident at the site

The RSH is the Planned Care site and works are undertaken to address the backlog maintenance evident at the site. Day Cases, Elective Inpatients, on-going Inpatient care and Ambulatory Cancer Care are delivered. A new main entrance is planned and an Urgent Care



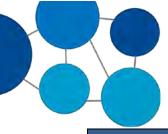
Centre is provided.

Local Planned Care – outpatients, diagnostics and midwifery led care are provided at both sites. Both sites operate all day, every day 24/7. Centres of Excellence are also developed at both sites.

Public acceptability

When asked their view on the appropriateness of this option, public responses were as follows (see appendix for full results).

| B - Planned operations to be based at Shrewsbury with Emergency Care and Women's and Children's | s to be b | ased at \$ | Shrewsb | ury with | n Emerg | ency Car | e and W | omen's | and Chil | dren's |
|---|------------|------------|-----------|---------------------|---------|----------|---------|--------|----------|--------|
| • | | | servic | services at Telford | elford | • | | | | |
| | _ | 2 | က | 4 | 5 | 9 | 7 | 00 | 0 | 10 |
| | % | % | % | % | % | % | % | % | % | % |
| | | | | | | | | | | |
| Bridgnorth | 14.5 | 2.5 | 2.0 | 2.1 | 24.5 | 8.3 | 9.6 | 17.0 | 5.4 | 11.2 |
| North Shropshire | 20.8 | 4.4 | 4.4 | 5.1 | 23.7 | 4.4 | 5.8 | 12.0 | 6.2 | 13.1 |
| Oswestry | 36.6 | 6.2 | 5.3 | 5.7 | 12.3 | 6.2 | 6.2 | 8.4 | 1.8 | 11.5 |
| Shrewsbury | 26.8 | 7.0 | 12.3 | 4.2 | 20.4 | 3.2 | 0.9 | 7.4 | 4.9 | 7.7 |
| South Shropshire | 26.6 | 7.2 | 6.5 | 6.5 | 17.3 | 2.0 | 7.2 | 13.7 | 3.2 | 6.8 |
| Hadley Castle | 21.2 | 3.4 | 4.7 | 6.1 | 16.2 | 4.0 | 8.4 | 9.4 | 6.7 | 19.9 |
| Lakeside South | 22.1 | 5.0 | 4.7 | 4.7 | 17.1 | 5.4 | 5.8 | 12.4 | 2.0 | 17.8 |
| The Wrekin | 18.1 | 3.5 | 4.2 | 4.5 | 18.1 | 5.2 | 0.6 | 11.0 | 7.1 | 19.4 |
| Powys | 41.4 | 5.6 | 7.6 | 0.9 | 15.7 | 4.8 | 5.6 | 9.5 | 2.4 | 5.2 |
| | | | | | | | | | | |
| Area | 25.0 | 2.0 | 6.1 | 5.0 | 18.4 | 5.1 | 7.1 | 10.8 | 4.9 | 12.7 |
| 1 = not at all appropriate and 10 = very appropriate | e and 10 = | very ap | propriate | | | | | | | |



| | OPTION C1 | | | | | |
|--|--|--|--|--|--|--|
| Key Features | | | | | | |
| EC at RSH | DTC at PRH | W&C at RSH | | | | |
| An Urgent and Emergency Care Network comprising: | A Planned Care Network comprising: | A Women's & Children's Network comprising: | | | | |
| Urban Urgent Care Centres at both sites. | Local Planned Care facilities at both sites. | Local Midwifery Led Units as now. | | | | |
| A single Emergency Department at the Royal Shrewsbury Hospital with | A single Diagnosis and Treatment Centre at Princess Royal | Paediatric outpatients on both sites. | | | | |
| Ambulatory Emergency Care, Critical Care, complex planned care & Children's Assessment Unit. | Hospital, Telford with improved and extended Cancer and Haematology provision. | Consultant-led Women's & Children's services at the Royal Shrewsbury Hospital. | | | | |

Accessibility for Patients

Is this option materially inferior to others in terms of promoting equity of access to acute hospital services?

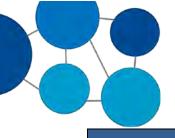
Urgent and Emergency Care Patients

Of the total 141,019 patient attendances, 80.3% (113,273) would be unaffected.

- The 78,488 urgent care patients currently treated via A&E would experience no change in travel time by car or public transport. Waiting times on arrival may improve due to the separation of urgent care from emergency care and the availability of appropriate clinicians.
- 55.6% (34,785) of emergency patients would be unaffected;
- 44.4% (27,746) of emergency patients would be conveyed to RSH instead of PRH; and
- Average emergency journey times would increase slightly to 25.7 mins (+4.8 mins).

Of the 27,746 displaced emergency attendances:

- The localities adversely affected are North Shropshire (+9.2 mins), Bridgnorth (+10.8 mins), Lakeside South (+13.6 mins), The Wrekin (+15 mins) and Hadley Castle (+15.7 mins);
- Journey times will increase by an average of 10.8 minutes;
- Men are marginally more affected than women (+11.1 vs. +10.6 mins);
- 14.2% (2,634) are from BME groups (+12.6 mins);



- 11.2% (6,996) are aged 75 and over (+10 mins);
- 3.3% (2,049) are of pre-school age (+9.8 mins);
- 20.7% (12,967) live in the two most deprived quintiles (+12.7 mins); and
- 11.4% (7,116) live nearer to an external emergency facility (+3.8 mins).

Complex Planned Care Patients

- 16.7% (222) of patients would be unaffected;
- 83.3% (1,104) of patients would attend RSH instead of PRH; and
- Average journey times would increase marginally to 26.1 mins (+1.1 mins).

Of the 1,104 displaced attendances:

- The localities adversely affected are North Shropshire (+2.7 mins), Bridgnorth (+10.1 mins), Lakeside South (+13.6 mins), The Wrekin (+14.4 mins) and Hadley Castle (+15.6 mins);
- Journey times will increase by an average of 1.4 minutes;
- Men are marginally more affected than women (+1.6 vs. +1.1 mins);
- 7.1 % (94) are from BME groups (+5.7 mins);
- 0.6% (8) are aged 75 and over (+8.2 mins);
- 18.5% (245) are pre-school age (+2.7 mins);
- 32.7% (433) live in the two most deprived quintiles (+6.1 mins); and
- 18.6% (246) live nearer to an external emergency facility.

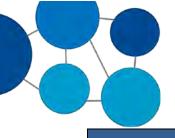
Comparable data for journeys by public transport are contained in the appendices. These show an increase in overall access time (+4.3 mins) but with a very varied geographical impact, as for car journeys. The greatest adverse impact appears to be on pre-school age, BME and deprived populations in Bridgnorth (except BME), Lakeside South, The Wrekin and Hadley Castle.

Non-complex Planned Care Patients

- 30.9 % (17,735) of patients would be unaffected;
- 69.1% (39,709) of patients would attend PRH instead of RSH; and
- Average journey times would increase slightly to 26.1 mins (+2.1 mins).

Of the 39,709 displaced attendances:

- The localities adversely affected are South Shropshire (+9.3 mins), Shrewsbury and Atcham (+12.6 mins), Powys (+19.9 mins) and Oswestry (+20.1 mins);
- Journey times will increase by an average of 3.1 mins;



- Women are very marginally more affected than men (+3.2 vs.+3.1 mins);
- 3.3% (1,908) are from BME groups (+0.1 mins);
- 14.9% (8,536) are aged 75 and over (+4.4 mins);
- None are of pre-school age;
- 19.8% (11,355) live in the two most deprived quintiles (-1.6 mins); and
- 18.3% (10,534) live nearer to an external facility.

Comparable data for journeys by public transport are contained in the appendices. These show an increase in overall access time (+2.9 mins) but with a very varied geographical impact, as for car journeys. The greatest adverse impact appears to be on over 75s, BME groups and deprived populations in North Shropshire, Shrewsbury & Atcham, Powys and Oswestry.

Outpatients

The 647,865 outpatients would experience no change in travel time by car or public transport.

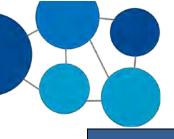
Women's & Children's

- 14.7% (3,166) of patients would be unaffected;
- 85.3% (18,361) of patients would attend RSH instead of PRH; and
- Average journey times would increase marginally to 24.4 mins (+3.3 mins).

Of the 18,361 displaced attendances:

- The localities adversely affected are North Shropshire (+5.6 mins), Bridgnorth (+10.6 mins), Lakeside South (+13.6 mins), The Wrekin (+14.6 mins) and Hadley Castle (+15.8 mins);
- Journey times will increase by an average of 3.9 mins;
- There is no material difference in travel times between males and females (including infants) but a change in the nature of Obstetrics services necessitates a particular impact on women;
- 13 % (2,809) are from BME groups (+7.3 mins);
- 0.7% (147) are aged 75 and over (+1 min);
- 35.7% (7,686) are pre-school age (+4.6 mins);
- 36.5% (7,867) live in the two most deprived quintiles (+8.5 mins); and
- 18.5% (3,978) live nearer to an external facility.

Comparable data for journeys by public transport are contained in the appendices. These



show an increase in overall access time (+9.6 mins) but with a very varied geographical impact, as for car journeys. The greatest adverse impact appears to be on pre-school age, BME, female and deprived populations in Bridgnorth, Lakeside South, The Wrekin and Hadley Castle.

Quality of Care

Is this option likely to be materially different to others in terms of clinical safety and effectiveness, and of patient experience?

Care of patients with time-critical conditions

The number of time-critical journeys whose average travel time to the nearest EC falls within the defined time-bands are as follows:

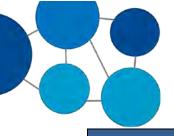
| | Conveyance by time-band (minutes) | | | | | | | | | |
|---------------------|-----------------------------------|-------|-------|-------|-------|-------|-----|----------------|----------------|---------|
| Locality | <15 | 15-29 | 30-44 | 45-59 | 60-74 | 75-89 | 90+ | Grand Total | % 60 - mins | Average |
| Bridgnorth | 1 | 25 | 34 | 7 | | | | 67 | 0.0% | 33.0 |
| North Shropshire | 4 | 22 | 27 | 7 | | | | 60 | 0.0% | 31.8 |
| Oswestry | 1 | 33 | 3 | | | | | 37 | 0.0% | 23.6 |
| Shrewsbury & Atcham | 147 | 27 | 3 | | | | | 177 | 0.0% | 10.9 |
| South Shropshire | 2 | 10 | 19 | 9 | 1 | | | 41 | 2.4% | 35.8 |
| Hadley Castle | 1 | 58 | 25 | 4 | | | | 88 | 0.0% | 27.0 |
| Lakeside South | 1 | 46 | 16 | | | | | 63 | 0.0% | 26.2 |
| The Wrekin | 10 | 82 | 10 | 3 | | | | 105 | 0.0% | 23.0 |
| Powys | 7 | 31 | 40 | 24 | 2 | | 1 | 105 | 2.9% | 36.5 |
| Grand Total | 174 | 334 | 177 | 54 | 3 | | 1 | 743 | 0.5% | 25.1 |

Other Clinical Quality Considerations

FAVOURABLE ADVERSE

Safety Domain

- Single site delivery for emergency care ensures effective medical recruitment to pressed specialities, effective 24/7 medical rotas and therefore timely access to senior decision makers
- Unified pathways for care reducing variation and risk inherent in this
- Separation of Planned Care from Emergency Care allows the development of effective elective care pathways and reduces variation and confusion
- Separation of Planned Care from Emergency Care reduces risk of infection to elective patients – although 'ringfencing' of beds on the planned care site will be required
- All emergency/complex planned care on one site resulting in improved recruitment and retention and access to all
- Potential for occasional interhospital transfer of unexpected critically ill patients from the Planned Care site to the Emergency Care site
- Risk that the 'ringfencing' of beds on the Planned Care site is not delivered



specialities in a crisis

- 7 day working delivered at both sites with increased presence of senior decision makers
- Ambulatory cancer care is co-located with inpatient cancer care – reduced disruption to established care pathways
- Maintenance of Trauma Unit status within the county

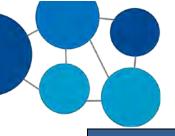
Effectiveness Domain

- Separation of Planned Care and Emergency Care enables the 'protection' of scheduled care activity at times of increased demand for unscheduled care resulting in an improved RTT and fewer cancellations – fewer delays will contribute to improved outcomes for patients
- Increased Planned Care activity gives potential to maintain and grow skills and specialties supporting the long term sustainability of SaTH
- The majority of patients accessing urgent care should go to the same hospital as they do now
- 7 day working delivered at both sites with increased presence of senior decision makers
- Patients requiring on-going inpatient care post 72 hours of admission may be transferred from the Emergency Site to the Planned Care site
- Risk to the protection of scheduled care activity at times of increased unscheduled care demand

Experience Domain

- Some levels of service unchanged e.g. outpatients, UCC and diagnostics at both sites
- Separation of Planned Care from Emergency Care enables the 'protection' of scheduled care activity at times of increased demand for unscheduled care resulting in an improved RTT and less cancellations – fewer delays and cancellations leads to improved patient experience
- Fewer delays in access to senior clinical decision-makers in an emergency due to single Emergency site compared with Option A – rotas less reliant on locum staff with more substantive/permanent clinicians who are familiar with Trust and local health & care systems
- Addresses current separation of centre for complex surgery centre and Women and Children's
- Estates & facilities improved as the Trust addresses its backlog maintenance alongside new facilities for emergency and critical care services – relative to current condition (see Option A)
- Patients will be seen in the most appropriate service and facility and by the most appropriate staff as patients are

- A number of services do change
- Potential for Ambulance transfers from UCC to ED



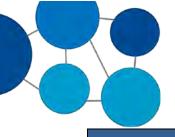
'streamed' based on their clinical need

- 7 day working facilitates timely and appropriate discharge
- Ambulatory cancer care is co-located with inpatient cancer care

Workforce

To what extent will this option improve recruitment & retention and enable better use of the workforce?

- Consolidation of emergency care on a single site is expected to significantly improve recruitment and retention for both emergency and acute medicine (supported by recent experience in consolidated Women and Children's Centre)
- A greater consultant presence in the Emergency Department (ED) achieved with consolidation reduces admissions, reduces inappropriate discharges, improves clinical outcomes and reduces risk to patients. In addition it enables the on call rota frequency to increase more in line with Royal College guidelines
- Reduce the utilisation of locums to cover the middle grade rotas to support 24 hrs a day
 presence in the ED by having the ability to have more effective rota management as
 single site cover required
- Combining duplicated specialities enables rota frequency reduction but increased intensity driving a process of 7 day and evening presence and working at consultant level. At Tier 2 and 1 consolidation for rotas will reduce number of Tier 1 doctors required to man the service and will facilitate the expansion of Advanced Practitioner posts
- More attractive to both medical and non-medical trainees as will enhance their learning experience
- Workforce transformation opportunities and new role development would be considerably easier to operationalise due to increased capacity to mentor/ sign off clinical competence
- Access to senior decision makers on the Emergency Care Site with sustainable medical rotas
- Access to senior decision makers on the Emergency Care Site with sustainable medical rotas
- With the ring fencing of elective beds within Planned Care there is less impact of medical outliers, as such this may be attractive to surgical recruitment
- A single acute medical take on the Emergency Care Site will improve rota management of acute physicians and improve access to senior review and clinical decision making 7 days per week
- The multi-disciplinary workforce required to support acutely ill patients will be



consolidated onto one site, reducing duplication and supporting enhanced communication for decision making

- The Planned Care Site will enable targeted therapeutic interventions and appropriate ongoing medical care from the multi-disciplinary team
- The Trust has evidence of a reduced volume of applicants across all staff grades and types at RSH than PRH as recruitment of staff is more likely from the urban conurbation of Birmingham and the Black country which is closer to the PRH site
- Critical Care consolidation improves compliance to core standards
 - o Enhances quality and safety in ITU and emergency care
 - o Protects elective workload and income
 - o Enhance patient experience
 - o Enhance workforce morale
 - o Maintain elective targets

Deliverability

Is there evidence that this option is practically infeasible or materially inferior in terms of deliverability?

Summary of Physical Changes

By providing an evenly balanced distribution of services that would deliver recognisable, vibrant hospital sites 24/7 and by addressing the most significant of backlog maintenance challenges at the Trust would result in significant works and moves at both the PRH and RSH irrespective of the service split.

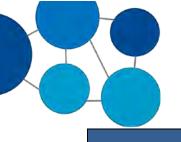
In option C1, RSH is the Emergency Care Site and comprises a new build Urgent Care Centre, Emergency Department, Ambulatory Emergency Care and Critical Care Unit. In addition, the re-provision of Women and Children's Services on the Emergency Care Site will also be provided in new build accommodation. Improvements to the existing outpatients are proposed and a new main entrance on the east of the site is also planned. Works are also undertaken to the address the backlog maintenance at the site.

The PRH is the Planned Care site and some works are undertaken to address the backlog maintenance evident at the site. Day Cases, Elective Inpatients, on-going Inpatient care and improved and extended Cancer and Haematology provision are delivered. A new main entrance is planned and an Urgent Care Centre is provided.

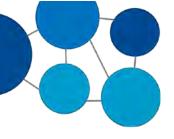
Local Planned Care – outpatients, diagnostics and midwifery led care are provided at both sites. Both sites operate all day, every day 24/7. Centres of Excellence are also developed at both sites.

Public acceptability

When asked their view on the appropriateness of this option, public responses were as follows (see appendix for full results).



| | | | | | | | ON | | | | | | |
|--|----|---|------------|------------------|----------|------------|------------------|---------------|----------------|------------|-------|--------|--------------------|
| рu | 10 | % | 5.8 | 12.0 | 15.0 | 15.6 | 12.9 | 10.4 | 9.9 | 6.5 | 14.4 | 71 | 2 |
| nen's ar | 0 | % | 3.3 | 3.6 | 6.2 | 4.3 | 4.7 | 1.0 | 3.1 | 2.6 | 4.8 | 0 | 5 |
| nd Won | ∞ | % | 12.5 | 13.5 | 8.8 | 13.8 | 11.8 | 6.1 | 6.9 | 7.1 | 0.9 | 0 | 0.0 |
| / Care a | 7 | % | 8.8 | 6.9 | 9.7 | 8.5 | 8.6 | 4.4 | 9.9 | 6.5 | 0.9 | 7.2 | 2:1 |
| ergency sbury | 9 | % | 2.9 | 5.5 | 5.8 | 0.9 | 8.6 | 2.4 | 4.2 | 4.8 | 7.2 | 7.2 | 5. |
| ith Eme Shrews | 5 | % | 26.7 | 24.4 | 17.3 | 18.8 | 15.4 | 13.8 | 16.6 | 18.7 | 16.4 | 000 | 0.00 |
| at Telford with Emerger services at Shrewsbury | 4 | % | 4.6 | 6.9 | 4.9 | 4.6 | 6.8 | 2.7 | 6.2 | 5.8 | 3.6 | Λ Λ | |
| sed at Ten's serv | 3 | % | 9.6 | 5.5 | 1.8 | 8.5 | 9.8 | 11.8 | 6.9 | 7.1 | 0.9 | 7 / | p. 7 |
| o be based Children's | 2 | % | 3.8 | 4.4 | 5.8 | 4.6 | 6.1 | 2.7 | 8.1 | 7.7 | 4.4 | 5.7 | 7.0 |
| erations to | _ | % | 22.1 | 17.5 | 24.8 | 15.2 | 16.5 | 38.7 | 34.7 | 33.2 | 31.2 | 76.1 | 20. I |
| C1 - Planned operations to be based at Telford with Emergency Care and Women's and Children's services at Shrewsbury | | | Bridgnorth | North Shropshire | Oswestry | Shrewsbury | South Shropshire | Hadley Castle | Lakeside South | The Wrekin | Powys | | Alea 40.1 0.1 1.4 |



| OPTION C2 | | | | | | |
|---|---|---|--|--|--|--|
| Key Features | | | | | | |
| EC at RSH | DTC at PRH | W&C at PRH | | | | |
| An Urgent and Emergency Care Network comprising: | A Planned Care Network comprising: | A Women's & Children's Network comprising: | | | | |
| Urban Urgent Care Centres at both sites. | Local Planned Care facilities at both sites. | Local Midwifery Led Units as now. | | | | |
| A single Emergency Department at the Royal Shrewsbury Hospital with | A single Diagnosis and Treatment Centre at Princess Royal Hospital, | Paediatric outpatients on both sites. | | | | |
| Ambulatory Emergency Care, Critical Care, complex planned care & Children's Assessment Unit (plus small inpatient unit for children). | Telford with improved and extended Cancer and Haematology provision. | Consultant-led Women's & Children's services at the Princess Royal Hospital, Telford. | | | | |

Accessibility for Patients

Is this option materially inferior to others in terms of promoting equity of access to acute hospital services?

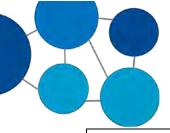
Urgent and Emergency Care Patients

Of the total 141,019 patient attendances, 80.3% (113,273) would be unaffected.

- The 78,488 urgent care patients currently treated via A&E would experience no change in travel time by car or public transport. Waiting times on arrival may improve due to the separation of urgent care from emergency care and the availability of appropriate clinicians.
- 55.6% (34,785) of emergency patients would be unaffected;
- 44.4% (27,746) of emergency patients would be conveyed to RSH instead of PRH; and
- Average emergency journey times would increase slightly to 25.7 mins (+4.8 mins).

Of the 27,746 displaced emergency attendances:

- The localities adversely affected are North Shropshire (+9.2 mins), Bridgnorth (+10.8 mins), Lakeside South (+13.6 mins), The Wrekin (+15 mins) and Hadley Castle (+15.7 mins);
- Journey times will increase by an average of 10.8 minutes;
- Men are marginally more affected than women (+11.1 vs. +10.6 mins);



- 14.2% (2,634) are from BME groups (+12.6 mins);
- 11.2% (6,996) are aged 75 and over (+10 mins);
- 3.3% (2,049) are of pre-school age (+9.8 mins);
- 20.7% (12,967) live in the two most deprived quintiles (+12.7 mins); and
- 11.4% (7,116) live nearer to an external emergency facility (+3.8 mins).

Complex Planned Care Patients

- 16.7% (222) of patients would be unaffected;
- 83.3% (1,104) of patients would attend RSH instead of PRH; and
- Average journey times would increase marginally to 26.1 mins (+1.1 mins).

Of the 1,104 displaced attendances:

- The localities adversely affected are North Shropshire (+2.7 mins), Bridgnorth (+10.1 mins), Lakeside South (+13.6 mins), The Wrekin (+14.4 mins) and Hadley Castle (+15.6 mins);
- Journey times will increase by an average of 1.4 minutes;
- Men are marginally more affected than women (+1.6 vs. +1.1 mins);
- 7.1 % (94) are from BME groups (+5.7 mins);
- 0.6% (8) are aged 75 and over (+8.2 mins);
- 18.5% (245) are pre-school age (+2.7 mins);
- 32.7% (433) live in the two most deprived quintiles (+6.1 mins); and
- 18.6% (246) live nearer to an external emergency facility.

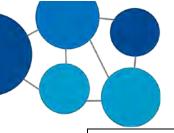
Comparable data for journeys by public transport are contained in the appendices. These show an increase in overall access time (+4.3 mins) but with a very varied geographical impact, as for car journeys. The greatest adverse impact appears to be on pre-school age, BME and deprived populations in Bridgnorth (except BME), Lakeside South, The Wrekin and Hadley Castle.

Non-complex Planned Care Patients

- 30.9 % (17,735) of patients would be unaffected;
- 69.1% (39,709) of patients would attend PRH instead of RSH; and
- Average journey times would increase slightly to 26.1 mins (+2.1 mins).

Of the 39,709 displaced attendances:

- The localities adversely affected are South Shropshire (+9.3 mins), Shrewsbury and Atcham (+12.6 mins), Powys (+19.9 mins) and Oswestry (+20.1 mins);
- Journey times will increase by an average of 3.1 mins;



- Women are very marginally more affected than men (+3.2 vs.+3.1 mins);
- 3.3% (1,908) are from BME groups (+0.1 mins);
- 14.9% (8,536) are aged 75 and over (+4.4 mins);
- None are of pre-school age;
- 19.8% (11,355) live in the two most deprived quintiles (-1.6 mins); and
- 18.3% (10,534) live nearer to an external facility.

Comparable data for journeys by public transport are contained in the appendices. These show an increase in overall access time (+2.9 mins) but with a very varied geographical impact, as for car journeys. The greatest adverse impact appears to be on over 75s, BME groups and deprived populations in North Shropshire, Shrewsbury & Atcham, Powys and Oswestry.

Outpatients

The 647,865 outpatients would experience no change in travel time by car or public transport.

Women's & Children's

There would be no change to these services which would remain at PRH, having no impact on the 21,527 attendances.

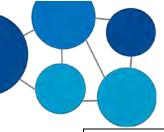
Quality of Care

Is this option likely to be materially different to others in terms of clinical safety and effectiveness, and of patient experience?

Care of patients with time-critical conditions

The number of time-critical journeys whose average travel time to the nearest EC falls within the defined time-bands are as follows:

| | | Co | nveyance | by time-ba | and (minut | es) | | | | |
|---------------------|-----|-------|----------|------------|------------|-------|-------------|-------|-------|---------|
| Locality | <15 | 15-29 | 30-44 | 45-59 | 60-74 | 75-89 | 90+ | Grand | % 60+ | Average |
| Locality | 713 | 13-23 | 30-44 | 43-33 | 00-74 | 73-03 | 30 + | Total | mins | time |
| Bridgnorth | 1 | 25 | 34 | 7 | | | | 67 | 0.0% | 33.0 |
| North Shropshire | 4 | 22 | 27 | 7 | | | | 60 | 0.0% | 31.8 |
| Oswestry | 1 | 33 | 3 | | | | | 37 | 0.0% | 23.6 |
| Shrewsbury & Atcham | 147 | 27 | 3 | | | | | 177 | 0.0% | 10.9 |
| South Shropshire | 2 | 10 | 19 | 9 | 1 | | | 41 | 2.4% | 35.8 |
| Hadley Castle | 1 | 58 | 25 | 4 | | | | 88 | 0.0% | 27.0 |
| Lakeside South | 1 | 46 | 16 | | | | | 63 | 0.0% | 26.2 |
| The Wrekin | 10 | 82 | 10 | 3 | | | | 105 | 0.0% | 23.0 |
| Powys | 7 | 31 | 40 | 24 | 2 | | 1 | 105 | 2.9% | 36.5 |
| Grand Total | 174 | 334 | 177 | 54 | 3 | | 1 | 743 | 0.5% | 25.1 |



Other Clinical Quality Considerations

FAVOURABLE ADVERSE

Safety Domain

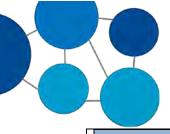
- Single site delivery for emergency care ensures effective medical recruitment to pressed specialities, effective 24/7 medical rotas and therefore timely access to senior decision makers
- Unified pathways for care reducing variation and risk inherent with this
- Separation of Planned Care from Emergency Care allows the development of effective elective care pathways and reduces variation and confusion
- Separation of Planned Care from Emergency Care reduces risk of infection to elective patients – although 'ring-fencing' of beds on the planned care site will be required
- 7 day working delivered at both sites with increased presence of senior decision makers
- Ambulatory cancer care is co-located with inpatient cancer care – reduced disruption to established care pathways

- Separation of women and children's services from critical codependencies on the Emergency Care site leads to increased risk due to potential delay in access to multi-specialty senior decisionmakers and appropriate treatment
- Significant concerns for the delivery of timely and safe emergency care at the Emergency care site for Women and Children (See separate C2 external review)

Effectiveness Domain

- Separation of Planned Care and Emergency Care enables the 'protection' of scheduled care activity at times of increased demand for unscheduled care resulting in an improved RTT and fewer cancellations – fewer delays will contribute to improved outcomes for patients
- Increased Planned Care activity gives potential to maintain and grow skills and specialties
- The majority of patients accessing urgent care should go to the same hospital as they do now
- 7 day working delivered at both sites with increased presence of senior decision makers

- Separation of women and children's services from critical codependencies on the Emergency Care site leads to an impact on safety and effectiveness due to potential delay in access to multispecialty senior decision-makers and appropriate treatment
- Significant concerns for the delivery of timely and safe emergency care at the Emergency care site for Women and Children (see separate C2 external review)



Experience Domain

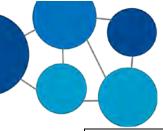
- Some levels of service unchanged e.g. outpatients, UCC and diagnostics at both sites
- Separation of Planned Care from Emergency Care enables the 'protection' of scheduled care activity at times of increased demand for unscheduled care resulting in an improved RTT and less cancellations – fewer delays and cancellations leads to improved patient experience
- Fewer delays in access to senior clinical decision-makers in an emergency due to single site Emergency Site for many patients compared with Option A – rotas less reliant on locum staff with more substantive/permanent clinicians who are familiar with Trust and local health & care systems
- Ambulatory cancer care and inpatient cancer care are on the same site, providing better experience and continuity of care for cancer patients
- Estates & facilities improved as the Trust addresses its backlog maintenance alongside new facilities for emergency and critical care services

- Does not address the current separation of the centre for major surgery from Women and Children's
- Potential delays for Women and Children to access senior clinical decision-makers in an emergency due to the separation of Women and Children's from the Emergency Care site compared with Option A

Workforce

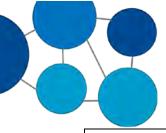
To what extent will this option improve recruitment & retention and enable better use of the workforce?

- Consolidation of emergency care on a single site is expected to significantly improve recruitment and retention for both emergency and acute medicine (supported by recent experience in consolidated Women and Children's Centre)
- A greater consultant presence in the Emergency Department (ED) achieved with consolidation reduces admissions, reduces inappropriate discharges, improves clinical outcomes and reduces risk to patients. In addition it enables the on call rota frequency to increase more in line with Royal College guidelines
- Reduce the utilisation of locums to cover the middle grade rotas to support 24 hrs a day
 presence in the ED by having the ability to have more effective rota management as
 single site cover required



- Separation of Paediatric Inpatient services from Emergency Medicine creates the
 potential of competency deficiencies for acute Paediatric and Neonatal Care¹. It has
 been the experience since September 2014 that it has not been possible to maintain
 adequate training and skills in paediatric and newborn resuscitation for A&E staff to treat
 critically ill and injured children and neonates
- Full time paediatric support required for ED and Trauma at RSH. Managing a seriously unwell or critically injured child requires a full paediatric team. This will mean 3 tiers of medical and paediatric nursing staff at both sites 24 hours a day
- No timely neonatal support to patients arriving at the RSH ED. This will increase the risk of poor clinical outcome for babies
- As acute surgery (abdominal, trauma, ophthalmology, head and neck etc) will be based at RSH and the Paediatric inpatient beds will be at PRH, Option C2 creates the need for a staffed (paediatric medical/nursing) paediatric surgical bed base at RSH or the development of a rapid transfer service with appropriate surgical (abdominal, trauma, ophthalmology, head and neck) staff (largely medical) 24/7 at PRH
- Anaesthetic support for paediatric services on 2 sites as both have a requirement for 24/7 support. This would require a full time rota of anaesthetists with competence and confidence in managing children on both sites. All these anaesthetists will need regular exposure to paediatric lists to maintain their skills
- High risk of losing trainees as their time in SaTH will exclude experience of acutely unwell paediatric & neonatal patients who arrive in the ED. The loss of trainees within the county would make our current paediatric services unsustainable
- Recruitment of a SaTH paediatric retrieval team for increased transfers of highly dependent paediatric patients
- Recruitment and retention of staff within all disciplines of paediatrics is currently challenging. This model with split site care would make SaTH less likely to attract the candidates we would wish to recruit in both nursing and medical staff at all grades
- In conjunction with a site to site paediatric transfer team there would be a need to develop a SaTH neonatal stabilisation & transport retrieval service requiring a separate rota for consultants/neonatal nurse practitioners & neonatal nurses
- Rotation between sites would require considerable tier 2 work force expansion and there
 is a national absence of suitable candidates
- With the separation of Women and Children's services from the Emergency Care site
 there is limited scope to reduce rota duplication due to the multi-speciality support
 required. This has a negative impact on the ability to facilitate growth within nonmedical advanced roles due to reduced opportunity to supervise/clinically sign off
- Separation of Women and Children's services from the EC presents medical recruitment issues as the split results in the need to increase medical staffing rotas)

¹ Royal College of Paediatrics and Child Health, National Recommendations – Best practice that directs patients to the right care, first time; and delivery of 7 day services, 24/7



- In addition Obstetrics need access to interventional radiology and as such the separation will require an additional rota. However, there are significant challenges with the ability to recruit further interventional radiology individuals to staff an additional rota
- Single site delivery for emergency care ensures effective medical recruitment to pressed specialities, effective 24/7 medical rotas and therefore timely access to senior decision makers
- Critical Care consolidation improves compliance to core standards
 - o Enhances quality and safety in ITU and emergency care
 - o Protects elective workload and income
 - Enhance patient experience
 - o Enhance workforce morale
 - Maintain elective targets
 - o Maintain elective targets
- The Trust has evidence of a reduced volume of applicants across all staff grades and types at RSH than PRH as recruitment of staff is more likely from the urban conurbation of Birmingham and the Black country which is closer to the PRH site

Deliverability

Is there evidence that this option is practically infeasible or materially inferior in terms of deliverability?

Summary of Physical Changes

In option C2, RSH is the Emergency Care Site and PRH is the Planned Care Site alongside Women and Children's Services.

The Emergency Care site at RSH comprises a new build Urgent Care Centre, Emergency Department, Ambulatory Emergency Care and Critical Care Unit. In addition, a small inpatient facility for children is also provided in new build accommodation. Improvements to the existing outpatients are proposed and a new main entrance on the east of the site is also planned. Works are also undertaken to the address the backlog maintenance at the site.

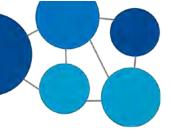
The PRH is the Planned Care site with Women and Children's. Some works are undertaken to address the backlog maintenance evident at the site. Day Cases, Elective Inpatients, on-going Inpatient care and improved and extended Cancer and Haematology provision are delivered. A new main entrance is planned and an Urgent Care Centre is provided.

Local Planned Care – outpatients, diagnostics and midwifery led care are provided at both sites. Both sites operate all day, every day 24/7. Centres of Excellence are also developed at both sites.

Public acceptability

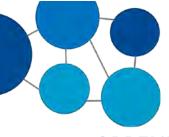
When asked their view on the appropriateness of this option, public responses were as follows (see appendix for full results).

| | | | Cal | care at officewspury | Wabuly | | | | | |
|------------------|------|-----|------|----------------------|--------|-----|------|------|-----|------|
| | _ | 2 | 3 | 4 | 5 | 9 | 7 | 00 | 6 | 10 |
| | % | % | % | % | % | % | % | % | % | % |
| | | | | | | | | | | |
| Bridgnorth | 18.5 | 4.9 | 7.8 | 4.1 | 28.4 | 3.7 | 7.8 | 14.8 | 2.5 | 7.4 |
| North Shropshire | 16.1 | 2.9 | 5.1 | 6.2 | 25.9 | 7.3 | 8.0 | 11.3 | 4.4 | 12.8 |
| Oswestry | 29.6 | 9.9 | 4.0 | 3.5 | 19.5 | 7.5 | 8.8 | 5.3 | 3.1 | 11.9 |
| Shrewsbury | 17.3 | 0.9 | 7.1 | 8.1 | 18.4 | 4.6 | 11.3 | 12.0 | 3.9 | 11.3 |
| South Shropshire | 20.1 | 4.3 | 10.8 | 3.2 | 20.8 | 9.7 | 7.5 | 12.2 | 3.9 | 7.5 |
| Hadley Castle | 37.1 | 6.7 | 8.7 | 8.0 | 16.4 | 3.3 | 4.3 | 4.3 | 1.3 | 9.7 |
| Lakeside South | 32.9 | 7.0 | 9.9 | 6.2 | 20.9 | 7.0 | 6.2 | 5.4 | 2.3 | 5.4 |
| The Wrekin | 34.1 | 8.0 | 4.5 | 6.1 | 20.3 | 4.5 | 7.4 | 5.8 | 3.2 | 6.1 |
| Powys | 32.4 | 4.4 | 6.8 | 0.9 | 19.2 | 6.4 | 8.9 | 6.4 | 2.8 | 8.8 |
| Area | 26.6 | 5.7 | 6.9 | 5.8 | 21.0 | 5.9 | 7.6 | 8.6 | 3.1 | 9.0 |



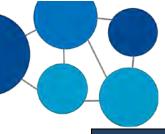
SECTION FOUR

APPENDICES



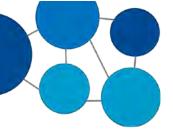
APPENDIX A – Panel Nominees

| ORGANISATION | REPRESENTATIVE |
|---------------------------------------|--|
| Shropshire Clinical | Dr Jessica Sokolov, GP Board Member |
| Commissioning Group | Dr Steve James, GP Board Member |
| | Julie Davies, Director of Strategy & Redesign |
| Telford & Wrekin Clinical | Dr Mike Innes |
| Commissioning Group | Tracey Jones, Deputy Director of Quality |
| | Alison Smith, Director of Governance |
| Powys Teaching Health | Victoria Deakins, Lead Therapist |
| Board | Andrew Cresswell, Interim North Locality General Manager |
| | Lesley Sanders |
| Shrewsbury and Telford | Dr Kevin Eardley, Care Group Director - Unscheduled Care |
| Hospital NHS Trust | Mr Mark Cheetham, Care Group Director - Scheduled Care |
| • | Ms Louise Sykes, Consultant Anaesthetist - Scheduled Care |
| | Dr Subramanian Kumaran, Consultant in Emergency Medicine |
| | Mr Andrew Tapp, Care Group Director - Women & Children |
| | Julia Clarke, Director of Corporate Governance |
| | Sarah Bloomfield, Chief Nursing Officer |
| | Dr Edwin Borman, Medical Director |
| | Neil Nisbet, Director of Finance |
| | Victoria Maher, Director of HR |
| | Debbie Jones, Radiology Care Group Manager |
| | Robin Hooper, Non-Executive Director |
| Charachiae Communitae | Dr Ganesh, Medical Director |
| Shropshire Community Health NHS Trust | |
| nealth Nn3 Hust | Andrew Thomas, Head of Nursing & Quality for Adults |
| Shranshira Dationt Group | Tricia Finch, Head of Business & Development Jane Niblock |
| Shropshire Patient Group | Richard Chanter |
| | Graham Shepherd |
| T-1610 M-11-11-11 | Derek Hall |
| Telford & Wrekin Health | |
| Round Table | Janet O'Loughlin |
| Haalthoostah Chuanahina | Jane Pickavance |
| Healthwatch Shropshire | Angela Saganowska - Healthwatch Shropshire Board member |
| | Daphne Lewis – Healthwatch Shropshire Chair |
| Hoalthwatch Tolford & | Vanessa Barratt- Healthwatch Shropshire Board member |
| Healthwatch Telford & Wrekin | Kate Ballinger – Manager David Bell – Healthwatch Telford & Wrekin Member |
| | Janet O'Loughlin - Member |
| Downs Deticate /-:- Dulp) | |
| Powys Patients (via PtHB) | Joy Jones France Hunt |
| | Frances Hunt |
| Chuanahina Carrasil | Robert Wright Tanya Miles Hood of ASC Operations |
| Shropshire Council | Tanya Miles , Head of ASC Operations |
| | Lee Chapman, Portfolio Holder for Adult Services |



| ORGANISATION | REPRESENTATIVE |
|---------------------------|--|
| Telford and Wrekin | Richard Smith, Director of Adult Social Services |
| Council | Helen Onions, Consultant in Public Health |
| Powys County Council | Jen Jeffreys, Senior Manager - Older People |
| West Midlands | |
| Ambulance Service NHSFT | Mark Docherty, Director of Nursing, Quality & Clinical Commissioning |
| Welsh Ambulance | |
| Services NHS Trust | David Watkins |
| Robert Jones & Agnes | |
| Hunt Hospital NHS FT | David Ford, Consultant Orthopaedic Surgeon |
| South Staffs & Shropshire | |
| Healthcare NHS FT | Alison Blofield, Consultant Nurse and Clinical Director |
| LMC/GP Federation | Ian Winstanley , Chief Executive, GP Federation |
| Shropshire Doctors' | |
| Cooperative Ltd | Jo Harding, Director of Transformation |
| NHS England | Richard Woosley, Assurance & Delivery Manager |

Representatives of the Joint HOSC and Powys CHC will be in attendance solely as observers.



APPENDIX B - SaTH's Proposed Delivery Model



The Clinical Model for OBC Non-financial appraisal

Dr Kevin Eardley, Mr Mark Cheetham and Mr Andrew Tapp
23 September 2016



The proposal and how this improves services for patients

A single purpose built Emergency Centre:

- Better clinical outcomes with reduced morbidity and mortality
- Bringing specialists together treating a higher volume of critical cases to maintain and grow skills
- Ensure greater degree of consultant delivered decision making and care
- Improved clinical adjacencies through focused redesign
- Improved access to multi-disciplinary teams
- Delivery of care in environment for specialist care
- Improved recruitment and retention of specialists



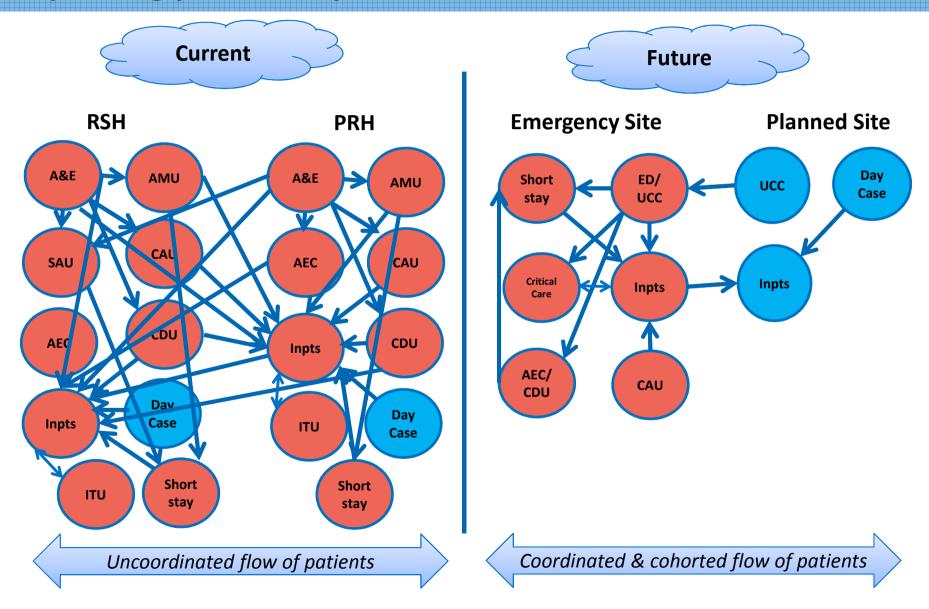
The proposal and how this improves services for patients

Within the balanced site proposal, patients would benefit from:

- Being cared for in their nearest hospital as much as possible for their acute service needs – Urgent Care, Outpatients, Diagnostics and some inpatient specialties
- Receiving planned care within a defined service separate from emergency care
- Improved pathways between primary and secondary care providers delivering a seamless patient pathway.
- Timely access to care through the achievement of national standards
- Improved access to an enhanced range of services within the county i.e. Cardiology



Sustainable Services Programme – improving patient experience and flow



The options – balanced hospital sites

Option B ED and Critical Care at PRH

- Majority of planned care at RSH
- Urgent Care Centre, Outpatients, Diagnostics at both PRH and RSH

Option C1 ED and Critical Care at RSH

- Majority of planned care at PRH
- Urgent Care Centre, Outpatients, Diagnostics at both RSH and PRH

Option C2 ED and Critical Care at RSH

- Women and Children's at PRH
- Majority of planned care at PRH
- Urgent Care Centre, Outpatients, Diagnostics at both RSH and PRH



However, following the development of the SOC...

Further and more detailed discussions with the wider clinical body (including primary and secondary care) raised concerns about:

- 1. Unplanned medical patients being admitted directly to the planned care site
- 2. The resultant need to provide 'critical care cover' across two sites
- 3. Safety and sustainability of Option C2



NHS Transformation Unit review of Option C2

The remit of the review was to assess the feasibility of option C2

The Greater Manchester CRG Panel key findings;

To make C2 safe and sustainable both sites would require:

- Level 3 adult ICU
- Anesthetics (resident) with capability in both adults and children
- Full suite of Imaging
- Blood transfusion
- Acute medicine
- Access to (acute) surgery
- Resuscitation services
- Paediatrics

Evidence suggests that the probability of achieving and sustaining a clinical workforce to support option C2 would be very challenging

C2 would not meet the necessary standards of the Royal Colleges and CQC issues would be raised

The evidence base from other health communities/ systems indicates that a single emergency centre receiving undifferentiated case mix should have all services including W&C services



Re-modelling pathways and Trust activity for the OBC

Within Option B and C1:

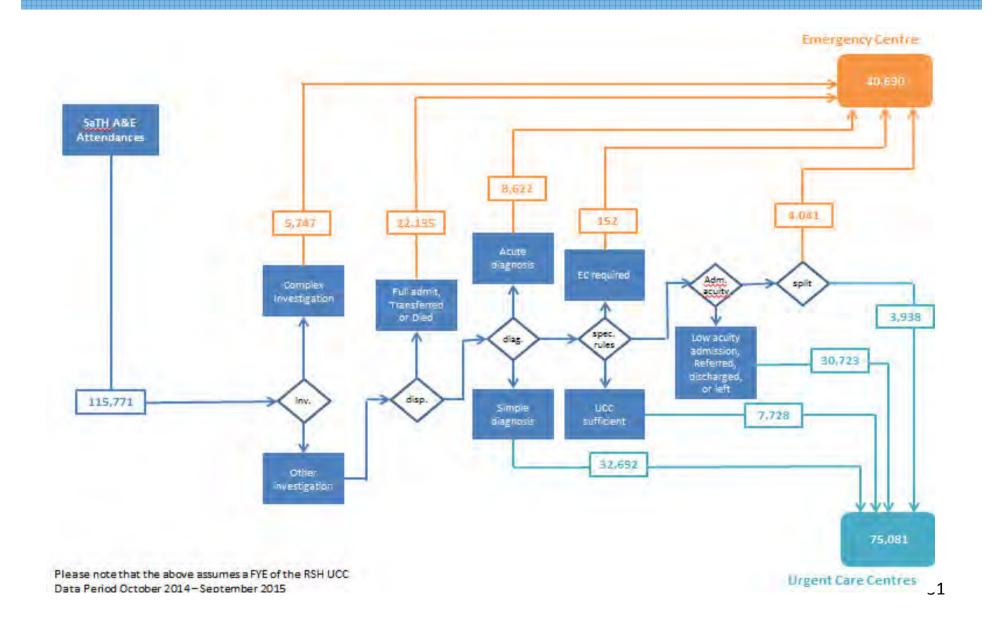
- Patients receive the right care, from the right staff at the right time
- All acute and unplanned patients to be admitted to the Emergency Site only
- Patients from the Emergency Site are transferred to the Planned Care Site as soon as clinically appropriate
- Acute Medicine (Ambulatory Emergency Care) is delivered at the Emergency Site only
- The number of patients on the Planned Care Site needing critical care is minimised through the single route of admission
- 7-day working within medicine is delivered at both sites
- Cohorting and streaming of patients into the most appropriate service to improve patient outcomes and deliver national standards
- Ring-fencing of planned care beds to reduce cancellations



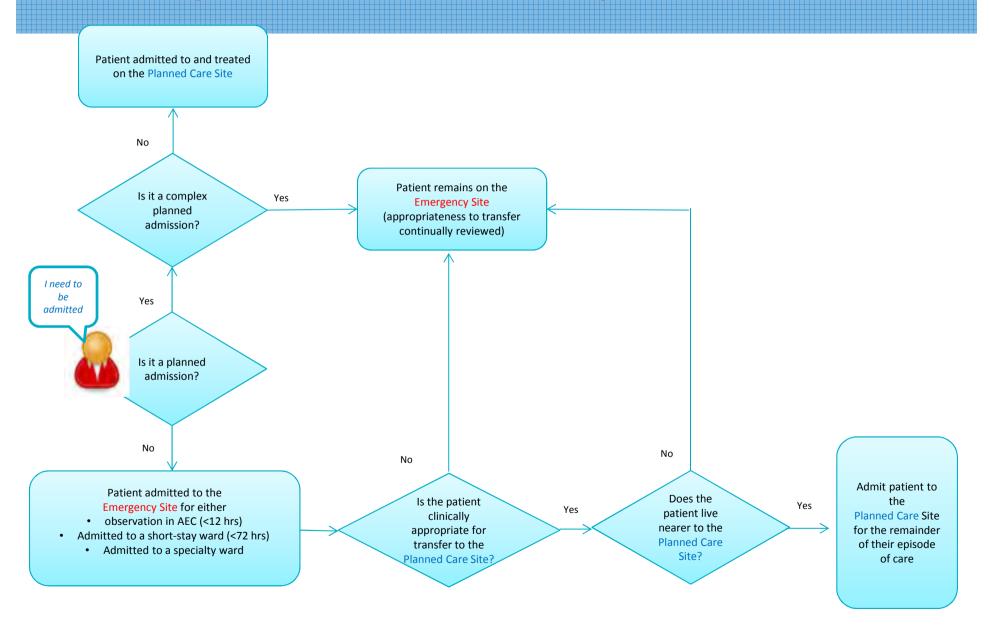
Urgent Care Centre

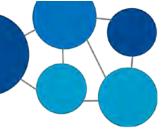
- The original Future Fit algorithm has been applied to the Trust's activity data for 2015/16 to determine whether patients need emergency or urgent care services
- Complaints/conditions to be treated at the Emergency Department include:
 - anaphylaxis
 - stroke
 - severe chest pain
 - multiple trauma
 - compound fractures
 - moderate burns
 - poisoning
- Complaints/conditions to be treated within Urgent Care services are:
 - sprains and simple fractures
 - cuts and scrapes
 - asthma
 - ENT conditions
 - scalds
 - bites and stings

Allocation of A&E attendances – EC or UCC



Pathway of care for the admitted patient





APPENDIX C - Summary of Travel Time Impact Evidence

- i) Clinical Leaders' Blog
- ii) SaTH Paper by Dr Simon Walford



Finding the balance between travel time access and clinical outcomes

February 2016

The following blog provides the views of the three clinicians leading NHS Future Fit in Shropshire and Telford & Wrekin. It is a discussion on the balance between travel time access and clinical outcomes in advance of the planned future consultation on the reconfiguration of hospital services within the county. It is from Dr Stephen James, Clinical Director of Information and Enhanced Technologies, Shropshire Clinical Commissioning Group; Dr Michael Innes, from Telford and Wrekin Clinical Commissioning Group; and Dr Edwin Borman, Medical Director at The Shrewsbury and Telford Hospital NHS Trust:

The NHS Future Fit Programme is being undertaken to redesign the provision of hospital based services. It has done this by describing first how those services can be provided best from a clinical point-of-view. This entailed developing a description, or model, of services. The clinical model that was developed took into account all available evidence about models of service and it included wide public and clinical engagement. As one of the recommendations, it stated that there should be one emergency centre supported by two urban urgent care centres in the two principal towns (Shrewsbury and Telford). From a clinical point of view it was agreed that this provided the greatest opportunity for improved outcomes for patients.

It was also recognised that for some patients this would mean an increase in travel times. The reason we are recommending this model is that this would provide the best outcomes for the population as a whole, given the current and likely future availability of specialist medical and nursing staff. Most importantly, it will deliver care that is better than if no changes were made.

While all of us would love to have the comprehensive and ideal medical facilities right on our doorstep, part of the reality that we have to work with is that this is not possible, even in a highly developed part of the world like the UK

Some detail behind the reasoning

Whenever we consider quality of care, there is a tension between the unification of services, which brings improvements in care and outcomes, and the resultant changes in travel times, which might benefit some and disadvantage others. It is the balancing of these two factors that makes for most of the debate.

In the vast majority of circumstances, any adverse change in travel time will be outweighed by an improvement in the quality of care that a patient receives on arrival.

The evidence for this comes from the national database for major trauma units, which has shown a consistent reduction in mortality across the UK for patients who have suffered major trauma.

Even though Shropshire would be unlikely to have a major trauma unit, the same principle is recognised for smaller trauma units such as the one currently provided at the Royal Shrewsbury Hospital where all required resources – emergency department, advanced specialists, surgical anaesthetics and Intensive Therapy Unit services – are concentrated¹.

Further evidence from within the county comes from the temporary unification of the Trust's stroke units² and the management of patients who have suffered a heart attack.

In addition, evidence from ambulance services that provide paramedic delivery of advanced monitoring and commencement of treatment has proven the principle that patients can be stabilised and treated before they even arrive in hospital.

When we discussed provision of planned care, such as big investigations (scans), and planned operations, people were clear that they placed distance travelled to get the care (and so travel time, by association) lower in their priority list than the opportunity to get consistent high-quality care. This might be summarised by the statement: "I would rather go further to get better care than stay closer and receive potentially less high quality care".

Increasingly, travel to receive care requires emergency transport with professional support (e.g. an ambulance with a paramedic). This is especially so with the more major emergencies. For a small, but important, set of circumstances that require emergency care (e.g. heart attacks, stroke, major accidents etc.) time to treatment is more critical for the best outcome. In an even smaller set of circumstances, time to treatment can be critical for life. In these circumstances, it is also the case that the level of experience and skill in the treating team is very important for the outcome.

Given the challenges, both nationally and within the county, of staffing emergency departments, it makes sense for there to be one emergency department where all members of staff are concentrated³. This provides the greatest opportunity for senior decision makers – consultants – to be present, another intervention that has been shown to provide the best outcomes for seriously ill patients⁴.

With the professional support of a paramedic comes the opportunity to start treatment at the scene, bringing care closer to people and reducing time to treatment. Increasing amounts of evidence, especially from rural Scotland, have demonstrated that this can actually improve care further. For example, people living further away from a hospital can have clot-busting treatment administered at home faster than those conveved to hospital.

This is particularly relevant for the county of Shropshire and beyond, where travel times and distance can be significant. Work with West Midlands Ambulance Service is helping to prepare for a model where patients are monitored and treated to a far greater extent prior to arriving in hospital⁵. We look forward to working with our colleagues in Wales to achieve the same and have a good track record of working well with them⁶.

NHS Future Fit has provided very detailed evidence, for each of the options considered, regarding the travel distance and duration for the population of the county as a whole. While clearly each option will have implications for some areas, meaning they may have either longer or shorter travel distances and times, it is the view of the clinicians involved in NHS Future Fit that national and local evidence supports centralisation of acute services and that this evidence outweighs the potential impact of increased travel times.

This is our view based on the balance of the evidence but any proposals would undergo full public consultation in the future. We will keep the evidence under review and would welcome hearing your thoughts about this.

Please let us know your thoughts by emailing nhsfuturefit@nhs.net, or calling 0300 3000 903 and you can find out more at www.nhsfuturefit.co.uk

- 1. The College of Emergency Medicine (2008) lists seven key specialties required to provide support to A&E departments: critical care, radiology and diagnostic imaging, laboratory services, acute medicine, orthopaedics, general surgery and paediatrics. Where paediatrics, general surgery and orthopaedics are not available, it is stated that on-site 'robust and safe' policies must be in place to ensure rapid access to senior opinion and that transfer must be available.
- 2 The temporary unification of stroke services has benefited all patients who access Hyperacute stroke services via the Princess Royal Hospital in Telford. We have greatly reduced the time from onset of stroke symptoms to accessing specialist assessments and treatment to minimise the impact of stroke and maximise the potential recovery of all patients wherever they may live. The proportion of patients now accessing thrombolysis, a clot busting treatment which can only be given within the first 3 hours from onset of symptoms, has increased from 7% to 13%, since the move. The national target for thrombolysis is 10% with a national average of 10.9%. We are seeing more strokes patients, but with earlier intervention and preventative measures are seeing a drop in the severity of strokes. Patients are still repatriated at the earliest opportunity, for on-going stroke rehab to their nearest Stroke Rehabilitation Unit, either at the Princess Royal Hospital, the Royal Shrewsbury Hospital or Newtown. As part of our ongoing audit we haven't identified any missed opportunities to treat related to increased travel time to the unified service.
- 3 The Urgent and Emergency Care Review undertaken by NHS England (2013) found that appropriate staffing is fundamental to providing a sound NHS service: "Proper staffing is the 'single most important factor' in providing a high quality, timely and

clinically effective service to patients". Furthermore, "there is a need to ensure a balanced workforce within an A&E department in order to provide a safe service.

4 The Urgent and Emergency Care Review undertaken by NHS England (2013) highlighted that many NHS A&E departments failed to achieve such standards: "a recent study of A&E departments in the United Kingdom, of which nearly 60 per cent of respondents were in England, carried out by the College of Emergency Medicine highlighted the variation in consultant 'shopfloor' cover to help maintain quality and safety in A&E departments, with the situation worsening over the weekend. Seventyseven per cent of responding UK A&E departments reported that they had at least one emergency medicine consultant present in the A&E department over 12 hours on weekdays, but only 17 per cent reported such presence for 16 hours.

5 The Urgent and Emergency Care Review undertaken by NHS England (2013) states:

"Rural and remote patients present a specific challenge due to the density of the population and the distances involved. The lowdensity population of rural areas means that healthcare facilities are spread far apart, and there may not be the critical mass necessary to provide a fully functional major acute hospital within the region". Evidence collected from the most seriously ill patients 12 to 15 years ago is frequently cited that suggested an increase in the distance travelled was associated with an increase in mortality (cited Nicholl et al., 2007). The Urgent and Emergency Care Review undertaken by NHS England (2013) points out that both the ambulance service and hospital treatments have changed substantially since then, but these findings indicate that it is important to monitor the effects of distance and any changes in service configuration. Spurgeon et al (2010) report that the discussion on the clinical case for emergency care reconfiguration is based around the conflicting arguments of the advantages of specialist care versus the risks of delay in reaching a specialist centre. The authors highlight that it is the timing of the start of appropriate treatment, rather than the timing of arrival at hospital that affects the outcome, so interventions by paramedics and/or rapid access to the specialist team once at the hospital can offset or overcome the risk created by the additional travel time (Spurgeon et al 2010).

6 SATH did a lot of work with the Welsh Ambulance Service NHS Trust in the lead-up to the opening of the Shropshire Women and Children's Centre at the Princess Royal Hospital (PRH) in Telford in September 2014. Ambulance service representatives were members of the clinical pathway groups that designed the service changes and helped SATH to understand the activity and flow of patients from wales into Women and Children's Services. In partnership with both the Welsh Ambulance Service and West Midlands Ambulance Service, SATH also developed protocols and guidance for crews taking patients to and from the centre. Both ambulance services were also involved in "dry runs" of transferring a newborn baby between the Royal Shrewsbury Hospital and PRH in an emergency.

FVIDENCE REVIEW:

Are there clinical risks or benefits related to the distance a patient travels to hospital in an emergency?

Introduction

The discussion about how best to organise emergency hospital care in Shropshire, Telford & Wrekin and the Welsh border country is heavily influenced by an underlying belief across the community that travelling further to hospital in an emergency puts people at greater risk of dying. This paper explores the research evidence about mortality in relation to travel distance to an Accident and Emergency service.

How far do people have to travel in an emergency?

The distances that people travel to A&E across England and Wales has recently been independently reviewed by The Health Foundation and the Nuffield Trust who examined all attendances and admissions to hospital from all A&E departments over the ten-year period 2001-2011¹. The key findings of that paper are as follows:

- "•• Major A&E services are currently provided from 200 sites around England. We estimate that there has been a net reduction in the number of sites of around 8% since 2001/02.
- •• The mean distance between a person's home and the A&E department that they <u>attended</u> was 7.2 kilometres (km) (4.4 miles), with a median of 4.2 km (2.6 miles), based on analysis of 13 million attendances in 2011/12. Eighty-four per cent of these attendances were by people living within 12 km (7.5 miles) of a major A&E department.
- •• The mean distance from hospital to home for an emergency <u>admission</u> was 8.7 km (5.4 miles), with a median of 5.5 km (3.4 miles), based on five million emergency admissions in 2011/12. Seventy per cent of emergency admissions occurred within 10 km of a person's home, and very few people (3 per cent) were admitted to a hospital over 30 km (18.6 miles) away from their home.
- •• There was considerable variation in the average home-to-hospital distances by local authority. The shortest average distance was 2.5 km (1.6 miles) for residents of the London Borough of Camden, and the furthest was 34.2 km (21.3 miles) for people living in the Eden District of Cumbria.
- •• Nationally, a small minority of all cases (9 per cent) were admitted over 20 km (12.4 miles) away from their home. In 26 of the 326 English local authorities, more than half of the emergency admissions occurred over 20 km from the person's home.
- •• There was a slight, but not statistically significant, increase in the average distance for an emergency admission in the 10-year period from 2001/02 to 2011/12, rising from 8.3 km (5.2 miles) to 8.7 km (5.4 miles).
- •• The biggest increase in the distances travelled was observed for emergency admissions following stroke, which rose from an average of 7.9 km (4.9 miles) in 2001/02 to 8.9 km (5.5 miles) in 2011/12. The average distance following trauma did not change substantially."

The average distance a person had to travel in the West Midlands was 4.8 miles but the average for rural areas was nearly 11 miles. In Powys 10-50% of people had to travel more than 20km (12 miles) but in Shropshire that proportion was less than 10%.

Time-critical emergencies

The sort of medical emergencies that create the biggest risk of dying are well understood. The Resuscitation Council (UK) exists to promote high-quality, scientific, resuscitation guidelines that are applicable to everybody, and to contribute to saving life through education, training, research and collaboration. The order of intervention which they teach reflects the urgency of the situation as follows:

1. Make sure the patient's airway is clear

So the floppy tongue of an unconscious patient may obstruct their airway, a diner may choke on a mouthful of food and an acute asthma attack causes the airways to go into spasm.

2. Make sure the patient is breathing

Being knocked out may also stop a patient breathing, as will drowning or being crushed in a crowd. Lung or heart disease may make a patient very breathless.

3. Make sure the patient has a stable circulation (safe blood pressure)
In a cardiac arrest the circulation stops. Trauma may cause internal or external bleeding.

The imperative in all these situations is to provide immediate life-saving care. Bystanders may be the first to help. Community First Responders have training to deal with these situations supported by the ambulance service. Then crucially, the arrival of a paramedic, who is often now highly trained, is likely to stabilise the patient for transfer to hospital. Very active recruitment and training programmes for community first responders are running in West Midlands and Welsh ambulance services. Many paramedics are now studying to degree level.

When symptoms described above are reported in a 999 call, they will almost always trigger an immediate, "Category A" or "Red" ambulance to be dispatched and the NHS standard is for the paramedic to reach the patient within 8 minutes on 75% of the calls and always within 19 minutes. Unfortunately, in England and Wales, there has been a steady decline in the number of Category A calls attended within eight minutes over the past four years. The national target of reaching 75% of Category A calls within eight minutes has been breached in 23 consecutive months, having not been met since January 2014². West Midlands Ambulance Service bucks that national trend and is consistently meeting the targets despite substantial increase in the number of calls it receives³. The Welsh Ambulance Service in Powys is, by contrast, substantially worse than the national average.

It follows that in the debate about the future configuration of services, the development of Community First Responders and support for the sufficient provision of paramedics to

maintain the ambulance response time standards are amongst the most important ways to reduce mortality in an emergency.

Research evidence that travel distance to A&E increases risk of death

Most of the commentaries and opinion forming documents which re-inforce the public belief that having to travel further to A&E will increase the risk of death refer back to one paper published in 2007⁴. Professor Nicholl's paper is a study of a large number of patients treated in 1999-2001 and is such an important negative influence that the summary is shown in full:

"Objectives: Reconfiguration of emergency services could lead to patients with lifethreatening conditions travelling longer distances to hospital. Concerns have been raised that this could increase the risk of death. We aimed to determine whether distance to hospital was associated with mortality in patients with life threatening emergencies.

Methods: We undertook an observational cohort study of 10,315 cases transported with a potentially life threatening condition (excluding cardiac arrests) by four English ambulance services to associated acute hospitals, to determine whether distance to hospital was associated with mortality, after adjustment for age, sex, clinical category and illness severity. **Results:** Straight-line ambulance journey distances ranged from 0 to 58 km with a median of 5 km, and 644 patients died (6.2%). Increased distance was associated with increased risk of death (odds ratio 1.02 per kilometre; 95% Cl 1.01 to 1.03; p,0.001). This association was not changed by adjustment for confounding by age, sex, clinical category or illness severity. Patients with respiratory emergencies showed the greatest association between distance and mortality.

Conclusion: Increased journey distance to hospital appears to be associated with increased risk of mortality. Our data suggest that a 10-km increase in straight-line distance is associated with around a 1% absolute increase in mortality."

The methodology and conclusions of this paper have never been repeated by another research group and much has changed in the treatment of emergencies and the skills of paramedics in the 15 years since these patients were treated. It is important to understand that the model used to form the conclusion does not distinguish a "safe" from an "unsafe" distance to travel. The added risk of moving from 1 mile to 6 miles from the hospital is the same additional risk as moving from 11 to 16 miles.

The Resuscitation Council teaching must lead to a suspicion that breathing problems, especially perhaps asthma would be a very time and distance sensitive emergency. There are two papers which analyse deaths in asthma patients treated in the 1980's and 90's^{5,6}. Both from the same research group, the first showed asthma deaths were more common in poor people, particularly if the family had no car. Complex statistics did also show that there was a significant but small increase in the mortality of people living more than 15 miles from hospital. The second paper studied the experience of patients with asthma living in East Anglia 1985-95 and analysed 768 deaths during the decade. Again the strong association of risk with poverty and living in a bedsitter was recorded. Complex statistical analysis also showed that increasing estimated travel time (not distance) to hospital was weakly associated with a slightly greater risk of dying.

There are several reasons to be cautious about applying this research to the current population of Shropshire. Asthma treatment, the availability of specialist asthma clinics and community nurse specialist has changed the experience of patients a great deal in the 20+ years since the study and asthma deaths have halved during that time⁷. Most of the increased risk associated with poverty has been eliminated and the increased risk of death is particularly for older people who also suffer from other conditions such as diabetes, heart disease and chronic (smokers') lung disorders. Deaths from asthma in children are now, fortunately, very rare events.

Research evidence that there is no risk or even advantage in travelling further to specialist hospital emergency care

One of the ways to summarise the strategic aims of the NHS is "Right place, right treatment, right time". There is substantial research evidence that the tension created between these three goals for emergency care can be most safely and effectively resolved without requiring that "quickest (or "nearest") is always "best". Such research underpins the organisation of trauma services into networks as well as the concentration of specialist acute cardiac and stroke care in hubs because the research concludes that increased travel time is more than offset by better outcomes for patients in the larger specialist units.

Accidents and Major Trauma

One of the first key examples of such research was the Scottish Urban Versus Rural Trauma Outcome Study published in 2005⁸. All admissions with trauma in 2.8 million people living in the west of Scotland over a two-year period were analysed. There was no difference in the risk of death or in the hospital length of stay with either minor or major trauma when rural patients with longer pre-hospital time were compared with the urbanites. Further research led to the Trauma network built in the UK since 2012 which emphasises the importance of timely resuscitation and then transfer to the appropriate specialist unit. The 2015 peer to peer audit of the service⁹, recognises that West Midlands Ambulance Service is one of only two which achieves 100% compliance with those standards. The local network results in almost all patients with serious trauma travelling with WMAS or the Air Ambulance to Stoke or Birmingham. The Trauma Audit and Research Network (TARN) analyses outcome data from all trauma admissions including approximately 12,500 patients who die each year in England. The 2015 report indicates that mortality has gone down by 63% since the years before the trauma network was established 4 years ago¹⁰.

Acute Cardiac Care – Heart Attacks

Cardiac arrest outside hospital remains a desperately serious condition with less than a quarter of patients surviving to leave hospital. Their chances depend heavily on immediate cardiac life support and early defibrillation. The ambulance service quality dashboard of data³ unfortunately shows little improvement in recent times.

For patients with severe chest pain, the outcome has been transformed by modern treatments, most particularly PCI, which involves moving the patient to a cardiac operating theatre where, through a small puncture in the artery of the arm, catheters are manipulated

into the heart to unblock the coronary arteries. This treatment is more effective than using fibrinolytic ("clot busting") drugs. The National Institute for Clinical Excellence (NICE) now advises that the patient should be taken directly from the 999 call to such a PCI facility if it can be reached within 2 hours of when fibrinolytic drugs could have been administered¹¹. All patients from Shropshire, Telford and Wrekin go to Stoke or Wolverhampton. Since the millennium, the mortality of acute myocardial infarction (heart attack) has halved and as PCI increasingly replaces "clot busting" drugs as the first choice therapy, it continues to fall¹².

Stroke

Patients admitted to stroke services with higher levels of organisation are more likely to receive high quality care as measured by audited process measures of acute stroke care. Those patients receiving high quality care have a reduced risk of death in the 30 days after stroke. This is another example of large improvement in the outcome of a common emergency with mortality reduction of more than 30%¹³.

When the stroke service at Royal Shrewsbury Hospital and Princess Royal Hospital Telford had to merge to sustain such a high quality service, the outcomes for patients who travelled further did not get worse, they got better.

These three examples of how the creation of specialist units, usually offering high tech medical care 24 hours a day every day, demonstrate very large beneficial effects of raising clinical standards despite some patients being inconvenienced and perhaps worried by having to travel further. There are other examples of rarer emergencies, leaking aortic aneurysm, for example, where consolidation of highly specialist expertise in fewer acute hospitals has the same effect. The examples summarised reflect a substantial majority of the life threatening emergencies which are going to occur in our community. They are a very strong counter to the argument that similar clinical service improvements in our A&E service would have the opposite effect so feared in the community.

Conclusions of this evidence review for Shropshire, Telford & Wrekin and the border country.

In our community, treatment for the most common serious, life threatening emergencies which people may suffer, including major trauma, heart attack and stroke are already organised around specialist units ready to deliver very high quality care 24/7. People travel further but have a much better chance of survival and greater recovery than they used to.

In our community, Community First Responders and Immediate Care Paramedics already play a vital part in the immediate treatment of patients in an emergency and it is their intervention which "saves the life" for long enough to transport the patient to the right place in a timely and safe way. They must be supported more effectively. The ambulance service in Wales does not perform so well.

There is no recent research about the effectiveness of modern treatments which shows that travel distance or time, within reason, is the over-riding priority in balancing "Right place, right treatment, right time".

Simon Walford May 2016

- 1. Quality Watch Focus on: Distance from Home to Emergency Care. A Roberts, I Blunt & M Bardsley. © 2014 The Health Foundation and the Nuffield Trust.
- 2. Ambulance Response Times December 2015. Quality Watch: http://www.qualitywatch.org.uk/indicator/ambulance-response-times
- 3. West Midland Ambulance Service Performance Dashboard: http://www.wmas.nhs.uk/Trust%20Performance%20ACQI/ACQI%20201602%20-%20WMAS%20February%202016%20with%20October%202015%20Clinical%20Data.
- 4. The relationship between distance to hospital and patient mortality in emergencies: an observational study. J Nicholl, J West, S Goodacre &J Turner Emerg Med J 2007;24:665–668.
- 5. Health service accessibility and deaths from asthma in 401 local authority districts in England and Wales, 1988–92. A Jones & G Bentham. Thorax 1997;52:218–22.
- 6. Health service accessibility and deaths from asthma. A Jones, G Bentham & C Horwell. Int J Epidemiol 1999;28:101–5.
- 7. Time trends in 30 day case-fatality following hospitalisation for asthma in adults in Scotland: A retrospective cohort study from 1981 to 2009. N. Roberts, J Lewsey, M Gillies et al. Respiratory Medicine (2013) 107, 1172-1177
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futurefit

Shaping healthcare together

Access Data for Option Appraisal

September 2016

Overview of methods



Essentially the same approach as for the previous options appraisal (Sept 2015).

The key features of the analysis are:

- Provider dataset for 2015/16, so purely SATH activity
- TRACC software, Ordnance Survey road networks, proprietary road speeds datasets and Public Transport schedules used for calculation of journey times and distances
- Differential approach i.e. only impacts of 'displaced' activity reported
- Patient <u>JOURNEY</u> perspective so some exclusions from activity (e.g. DNA, admissions via A&E) – will not reconcile with activity modelling
- Each point of delivery treated separately emergency, planned, non-planned etc. as per the description of options by SATH site.

- Car/ambulance journeys only for emergency care and Car & PT for planned care elements
- Presented all activity using either travel mode as impossible to distinguish who has used PT to travel.
- Several key measures reported at locality level (times 9):
 - Total attendances by type
 - Attendances affected and impacts on travel time – positive or negative
 - Sensitivity adjustment if travel to alternatives is allowed (current assumption is no impact on SATH market share)
 - Impacts numbers and journey times for equality groups (Elderly, young, genders, BME, deprived*).

* Note caveat re: differences between Welsh and English deprivation indices







Option A = Baseline assessment of patients actual travel to 'chosen' sites.

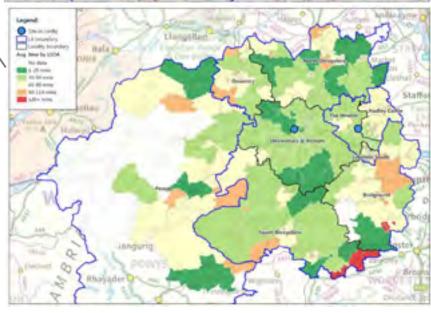
Average times for comparison and series of LSOA* maps for visual context

| Average Journey Times | Non-Compl | ex Planned |
|-----------------------|------------------|---------------|
| Mode of Transport | Public Transport | Car/Ambulance |
| Bridgnorth | 76.8 | 29.4 |
| North Shropshire | 63.7 | 31.3 |
| Oswestry | 67.5 | 26.9 |
| Shrewsbury & Atcham | 40.8 | 12.5 |
| South Shropshire | 58.4 | 39.3 |
| Hadley Castle | 63.7 | 19.9 |
| Lakeside South | 64.8 | 20.3 |
| The Wrekin | 49.9 | 14.7 |
| Powys | 58.0 | 37.2 |
| Out Of Area | 81.3 | 38.0 |
| Overall Average | 58.5 | 24.0 |

Different bands for car / PT times

* LSOA = Lower Super Output Area. Individual data is aggregated to this level for mapping (we don't have access to the postcode field)







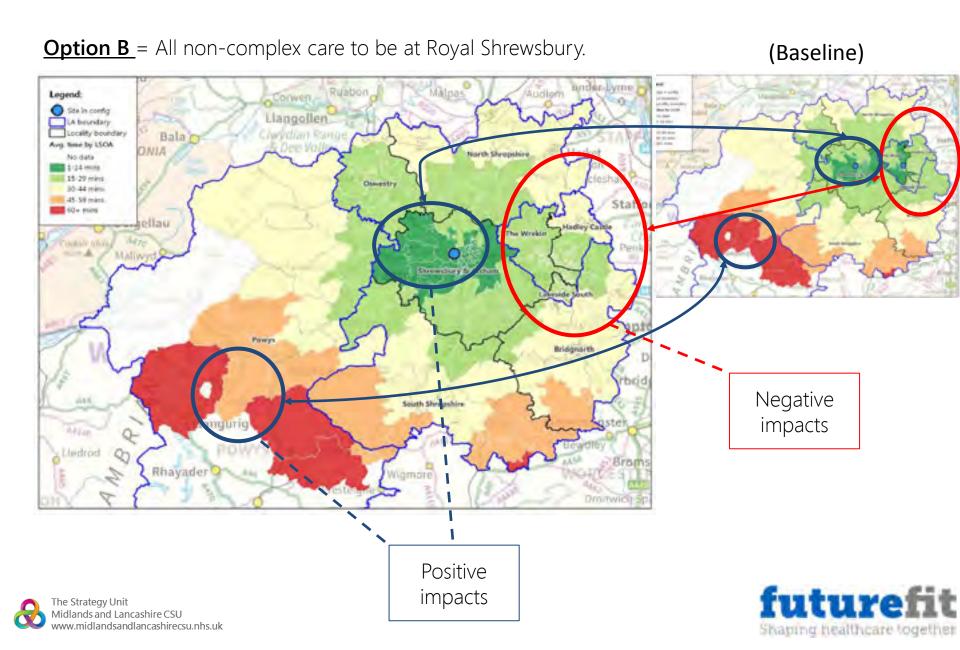
| | | | | | | H. | | | | | Journeys for this | |
|---|------------|---------------------|------------|------------------------|---------------------|------------------|-------------------|------------|---------|----------|--------------------------------------|--|
| · · | | | Shropshire | | Loc | ality | Telford | | Barrell | _ | type of care w/ | |
| Impact factor | Bridgnorth | North Shropshire | Oswestry | Shrewsbury & Atcham | South Shropshire | Hadley Castle | Lakeside South | The Wrekin | Powys | Out of A | baseline and modelled average | |
| Total baseline journeys | 5,434 | 6,616 | 3,240 | 11,987 | 3.629 | 8,293 | 4,656 | 6.082 | 5,989 | 2,518 | time by locality. | |
| Baseline avg. time (mins) | 29.4 | 31.3 | 26.9 | 12.5 | 39.3 | 19.9 | 20.3 | 14.7 | 37.2 | 38.0 | 24.0 | |
| Option 8 avg. time (mins) | 33.9 | 33.1 | 24.6 | 11.3 | 38.2 | 26.7 | 26.3 | 22.0 | 35.6 | 41.0 | Journeys for this | |
| Journeys displaced to RSH | 2,247 | 1,485 | 369 | 1,230 | 448 | 3,622 | 2,063 | 2,917 | 490 | 369 | type of care that | |
| Change to avg. journey time (mins) | 10.8 | 7.9 | -201 | -11.8 | -9.0 | 15.7 | 13,6 | 15.2 | -20.0 | 12.5 | have been displaced and their | |
| Displaced avg. time (mins) | 34.4 | 36.3 | 25.8 | 11.9 | 39.2 | 27.6 | 27.6 | 23.2 | 39.7 | 44.9 | relative impacts. | |
| Patients living nearer to an alternative site than RSH | 1,719 | 1,054 | 239 | | 166 | 657 | | | 21 | 369 | 4,225 7.4% | |
| Option B avg. time (mins) if alternative chosen | 32.1 | 31.7 | 24.3 | | 37.7 | 26.3 | | | 35.5 | 35.6 | Cla avva ana a vula ana | |
| Displaced patients in protected groups | | | | | | | | | | | Shows areas where displaced patients | |
| Age - 75+ | 496 | 309 | 65 | 229 | 81 | 643 | 339 | 538 | 93 | 71 | may be closer to an | |
| change to avg. journey time | 10.6 | 8.6 | -20.1 | -119 | -9.7 | 15.8 | 13.6 | 15.3 | -20.0 | 12.6 | alternative provider. | |
| Age - Pre-school | | | | | | | | | | | alternative provider. | |
| change to avg. journey time | | | | | | | | | | | | |
| BME groups | 108 | 86 | 17 | 56 | 16 | 314 | 133 | 271 | 19 | 53 | 1.073 1.9% | |
| change to avg. journey time | 10.9 | 8.7 | -20.2 | -13.3 | -8.8 | 16.0 | 13.6 | 15.8 | -20.2 | 12.6 | | |
| Gender - Male | 1,088 | 695 | 158 | 554 | 189 | 1,698 | 979 | 1,326 | 214 | 187 | Impacts of | |
| change to avg. journey time | 10.9 | 8.0 | -20.1 | -11.6 | -10.4 | 15.7 | 13.6 | 15.2 | -19.9 | 12.5 | 'displacement' on | |
| Gender - Female | 1,159 | 790 | 211 | 676 | 259 | 1,924 | 1,084 | 1,591 | 276 | 182 | protected or | |
| change to avg. journey time | 10.6 | 7.8 | -20.1 | -12.1 | -7.9 | 15.7 | 13.6 | 15.1 | -20.0 | 12.3 | equality groups. | |
| IMD 1&2 (most deprived 40%) | 502 | 438 | 101 | 253 | 144 | 1,733 | 1.252 | 1,457 | 101 | | equality groups. | |

-10.2

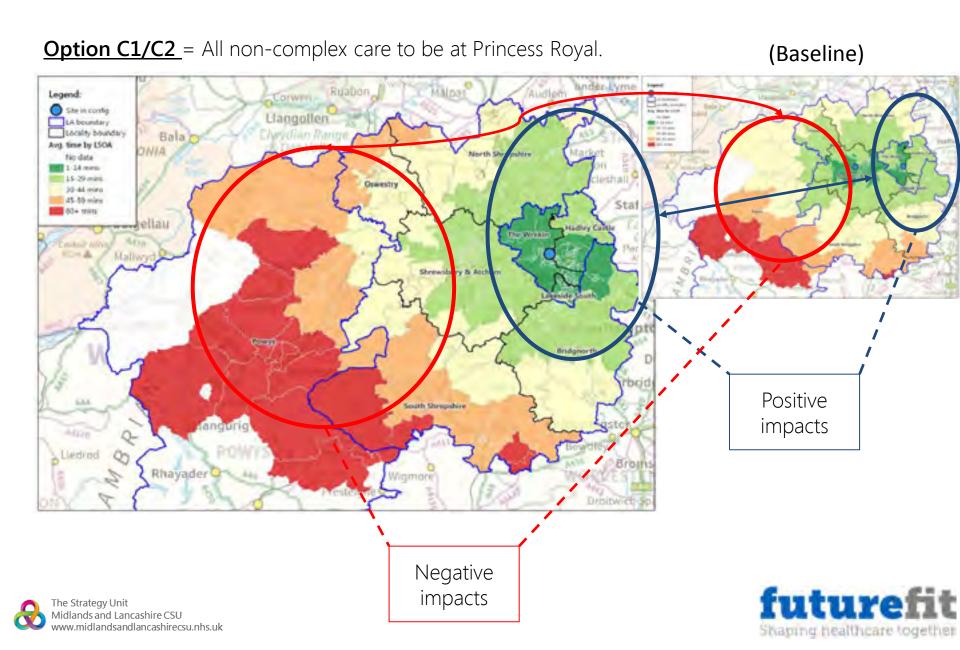
-5.9

14.2













Summary

Baseline and general observation:



No impacts to note in the baseline – everyone is assumed to make the same journeys for the same care in the future.

Generally, patients tend to use the site that is closest to their home with the exception of certain cases e.g. Stroke, Maternity, other complex care which is virtually all delivered at PRH currently.

Majority of population within 45 mins of a site by car – due to population densities Telford residents tend to live closer in distance and time to their nearest (PRH) than Shropshire or Powys residents

Public transport access is (naturally) limited, much of population outside of urban centres > 60 minutes from sites. Travel by public transport typically takes 2-3 times longer than car journeys.

It appears patients choose their closest alternative for emergency and urgent care as well as routine appointments (outpatients) but will travel further for more complex care (may be a result of restricted choice i.e. site specialism).

The total volumes of 'displaced' activity varies across the options:

| | В | C1 | C2 |
|-----------------------|--------|--------|--------|
| Complex Planned | 190 | 1,104 | 1,104 |
| Emergency & Urgent | 32,886 | 27,746 | 27,746 |
| Non-complex planned | 15,240 | 39,709 | 39,709 |
| Women & Children | 1,615 | 18,361 | 1,615 |
| All other | - | - | - |
| Total | 49,931 | 86,920 | 70,174 |



Generally speaking, if option site is PRH for any aspect of care...

Patients adversely affected live in North West & South West of Shropshire and in Powys.

Anywhere up to 20 mins additional travel for some of those areas by car or up to 40 minutes by Public Transport.

Populations affected tend to be older, white and relatively less deprived.

There are fewer alternative hospital locations that patients may choose in this scenario (Aberystwyth, Wrexham, Crewe, Hereford).

The exclusions in this regard are complex care and maternity for which PRH is the principle or only provider site anyway so most activity already goes here – minimal impacts.





Generally speaking, if option site is RSH for any aspect of care...



Patients adversely affected live in Telford & South East of Shropshire.

Generally 10 to 20 mins additional travel for most of those areas by car or 30 to 40 minutes by Public Transport.

Populations affected tend to be younger, ethnically diverse and relatively more deprived.

There are several alternative hospital locations at comparable distances that patients may choose in this scenario (Stoke, Stafford, Wolverhampton, Dudley).







Access Impact for Emergency and Planned Care



| Emergency Care Access Impact (Ambulance) | В | C1/C2 |
|---|--|---|
| Attendances Affected | 32,886 | 27,746 |
| Net average travel time change (all journeys) | + 4.4 mins | + 4.8 mins |
| Net average travel time change (displaced journeys) | +8,5 mins | +10.8 mins |
| 3ME impact | 2815 | 2634 |
| Age 75+ impact | 9257 | 9669 |
| Pre-school age impact | 784 | 2049 |
| Most deprived 40% impact | 8800 | 12967 |
| ocality impact (adverse) | South Shropshire Shrewsbury & Atcham Powys Oswestry | North Shropshire Bridgnorth Lakeside South The Wrekin Hadley Castle |

| Complex Planned Care Impact (EC) | В | C1/C2 |
|---|-----------------------|------------------------|
| Attendances Affected | 190 | 1104 |
| Net average travel time change (car) | +0.1 mins | +1.1 mins |
| Net average travel time change (PT) | -0.5 mins | +4.3 mins |
| Net average travel time change (displaced journeys - car) | +0.9 mins | +1.4 mins |
| Net average travel time change (displaced journeys - PT) | -3.8 mins | +5.6 mins |
| BME impact | 8 | 94 |
| Age 75+ impact | 44 | 8 |
| Pre-school age impact | 0 | 245 |
| Most deprived 40% impact | 76 | 433 |
| | South Shropshire | North Shropshire (car) |
| | Shrewsbury & Atcham | Bridgnorth |
| Locality impact (adverse) | Powys | Lakeside South |
| | Oswestry | The Wrekin |
| | North Shropshire (PT) | Hadley Castle |

| Non-complex Planned Care Impact (DTC) | В | C1/C2 |
|---|---|---|
| Attendances Affected | 15240 | 39709 |
| Net average travel time change (car) | + 2.3 mins | + 2.1 mins |
| Net average travel time change (PT) | + 6.1 mins | + 2.9 mins |
| Net average travel time change (displaced journeys - car) | +8.8 mins | +3.1 mins |
| Net average travel time change (displaced journeys - PT) | +24.8 mins | +4.8 mins |
| BME impact | 1073 | 1908 |
| Age 75+ impact | 2864 | 8536 |
| Pre-school age impact | 0 | 0 |
| Most deprived 40% impact | 5981 | 11426 |
| Locality impact (adverse) | North Shropshire Bridgnorth Lakeside South The Wrekin Hadley Castle | South Shropshire Shrewsbury & Atcham Powys Oswestry North Shropshire (PT) |



Comparison of Ambulance Conveyance Times for Time-Critical Patients



| Locality | A. Avg. time | B. Avg. time | B. Difference | C. Avg. time | C. Difference |
|---------------------|-----------------|-----------------|------------------|-----------------|------------------|
| Bridgnorth | 25.1 | 24.9 | -0.2 | 33.0 | 7.9 |
| North Shropshire | 27.8 | 29.0 | 1.2 | 31.8 | 4.0 |
| Oswestry | 23.6 | 41.8 | 18.2 | 23.6 | 0.0 |
| Shrewsbury & Atcham | 12.1 | 22.9 | 10.8 | 10.9 | -1.2 |
| South Shropshire | 38.0 | 44.8 | 6.8 | 35.8 | -2.2 |
| Hadley Castle | 11.3 | 10.8 | -0.5 | 27.0 | 15.7 |
| Lakeside South | 14.9 | 14.4 | -0.5 | 26.2 | 11.3 |
| The Wrekin | 10.1 | 8.3 | -1.7 | 23.0 | 13.0 |
| Powys | 37.8 | 56.5 | 18.7 | 36.5 | -1.3 |
| Grand Total | 20.0 | 26.3 | 6.2 | 25.1 | 5.1 |

This table shows the average time critical journey time for each locality/option. The change that would result from B and C1/2 compared with now (A) is colour coded to reflect the scale of the change.



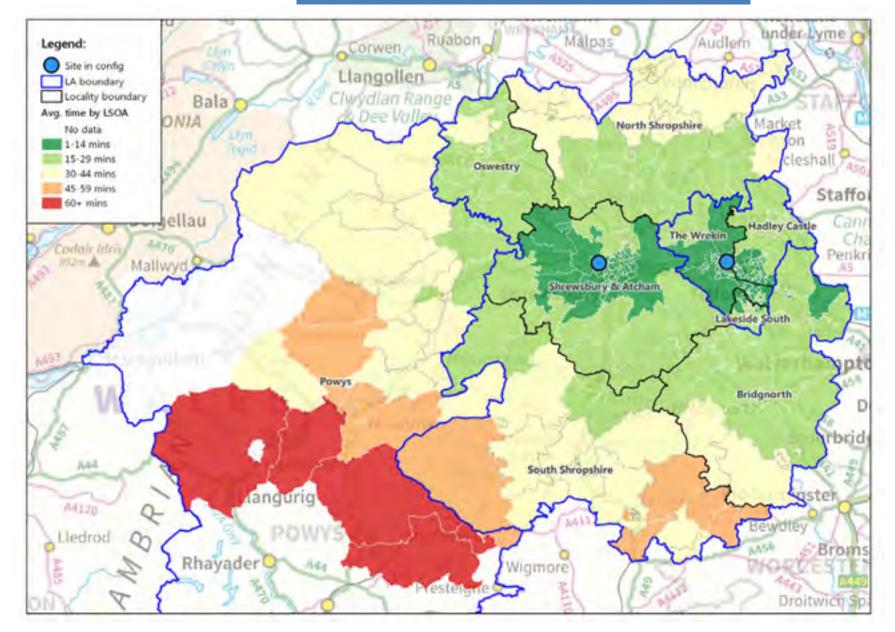


Option A



Option A – Overall Activity Activity retained at SaTH (car/ambulance)

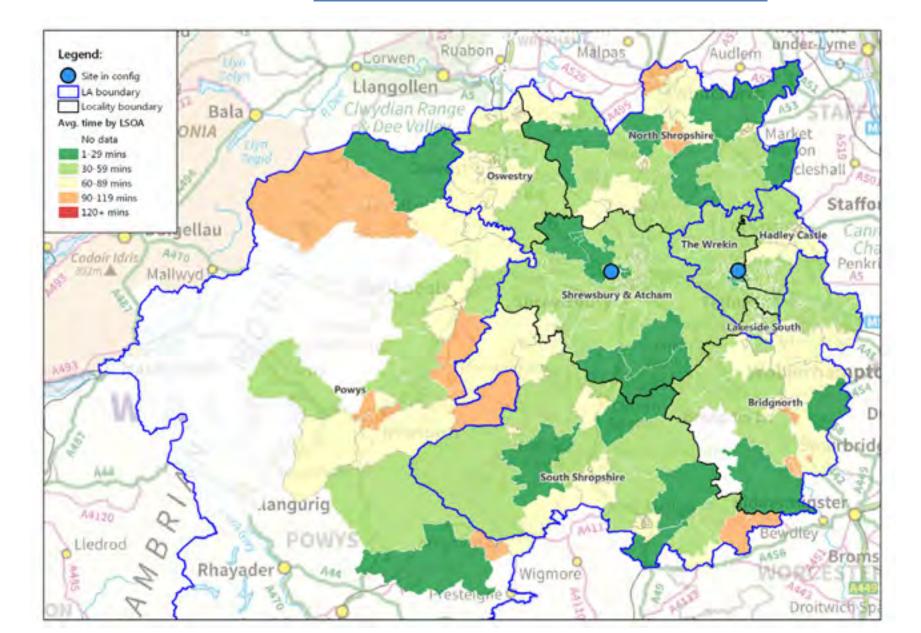






Option A – Overall Activity Activity retained at SaTH (public transport)







Option A – Overall Activity



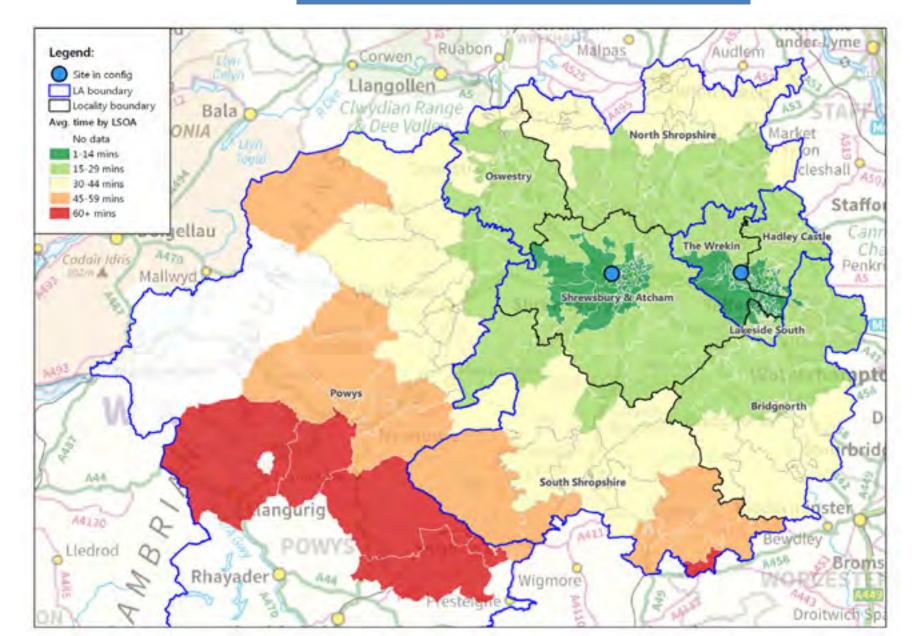
| Average Journey Times | Complex | Planned | Emergency Care | Non-Compl | ex Planned |
|------------------------------|------------------|---------------|----------------|------------------|---------------|
| Mode of Transport | Public Transport | Car/Ambulance | Ambulance | Public Transport | Car/Ambulance |
| Bridgnorth | 69.8 | 23.9 | 26.0 | 76.8 | 29.4 |
| North Shropshire | 77.0 | 31.5 | 30.3 | 63.7 | 31.3 |
| Oswestry | 99.2 | 42.8 | 27.0 | 67.7 | 26.9 |
| Shrewsbury & Atcham | 63.8 | 22.5 | 12.5 | 40.8 | 12.5 |
| South Shropshire | 72.2 | 48.5 | 38.9 | 57.5 | 40.3 |
| Hadley Castle | 48.2 | 13.8 | 14.1 | 63.7 | 19.9 |
| Lakeside South | 51.9 | 15.1 | 15.9 | 64.8 | 20.3 |
| The Wrekin | 37.1 | 10.6 | 10.6 | 49.9 | 14.7 |
| Powys | 76.8 | 48.8 | 39.6 | 75.5 | 37.2 |
| Out Of Area | 69.8 | 31.3 | 24.8 | 58.0 | 35.9 |
| Overall Average | 62.1 | 25.0 | 20.9 | 58.5 | 24.0 |

| Average Journey Times | Outpatient (N | Non-Complex) | Urgen | t Care | Women and Children | | | |
|------------------------------|------------------|---------------|------------------|---------------|--------------------|---------------|--|--|
| Mode of Transport | Public Transport | Car/Ambulance | Public Transport | Car/Ambulance | Public Transport | Car/Ambulance | | |
| Bridgnorth | 60.7 | 22.0 | 62.7 | 22.4 | 60.4 | 22.4 | | |
| North Shropshire | 62.6 | 29.5 | 58.5 | 28.2 | 73.3 | 28.4 | | |
| Oswestry | 58.3 | 23.2 | 64.0 | 25.6 | 85.9 | 35.7 | | |
| Shrewsbury & Atcham | 40.6 | 12.6 | 38.7 | 11.5 | 58.7 | 20.8 | | |
| South Shropshire | 54.4 | 36.2 | 57.0 | 37.8 | 71.5 | 42.4 | | |
| Hadley Castle | 48.4 | 14.1 | 40.9 | 11.5 | 41.2 | 11.2 | | |
| Lakeside South | 52.4 | 15.6 | 48.9 | 14.3 | 48.0 | 13.7 | | |
| The Wrekin | 36.5 | 10.7 | 30.4 | 8.8 | 30.5 | 8.7 | | |
| Powys | 61.1 | 37.5 | 50.1 | 38.4 | 87.9 | 53.3 | | |
| Out Of Area | 61.7 | 29.5 | 64.4 | 21.9 | 30.7 | 16.6 | | |
| Overall Average | 50.4 | 19.7 | 44.4 | 16.2 | 54.9 | 21.1 | | |



Option A – Emergency Activity retained at SaTH (car/ambulance)

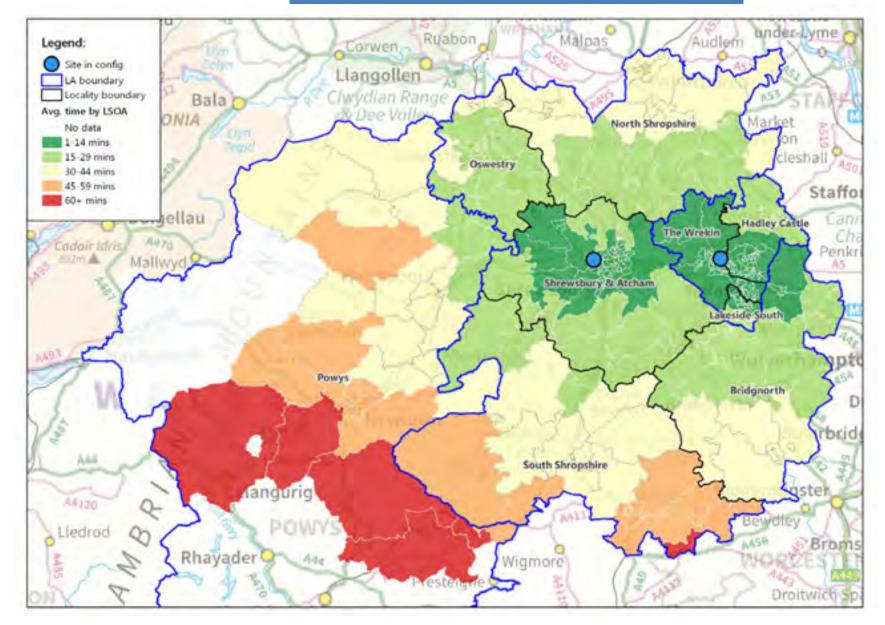






Option A – Urgent Care Activity retained at SaTH (car/ambulance)

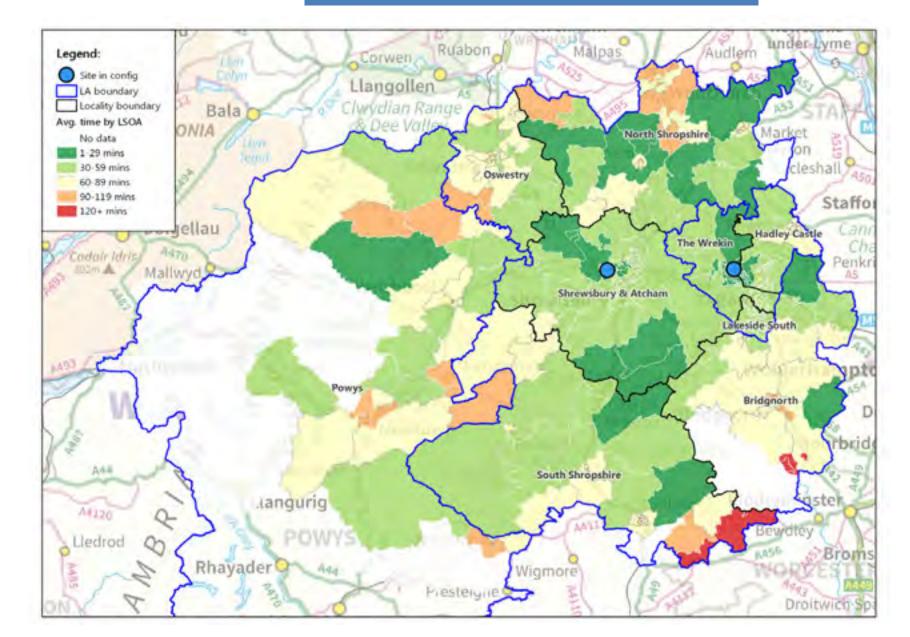






Option A – Urgent Care Activity retained at SaTH (public transport)

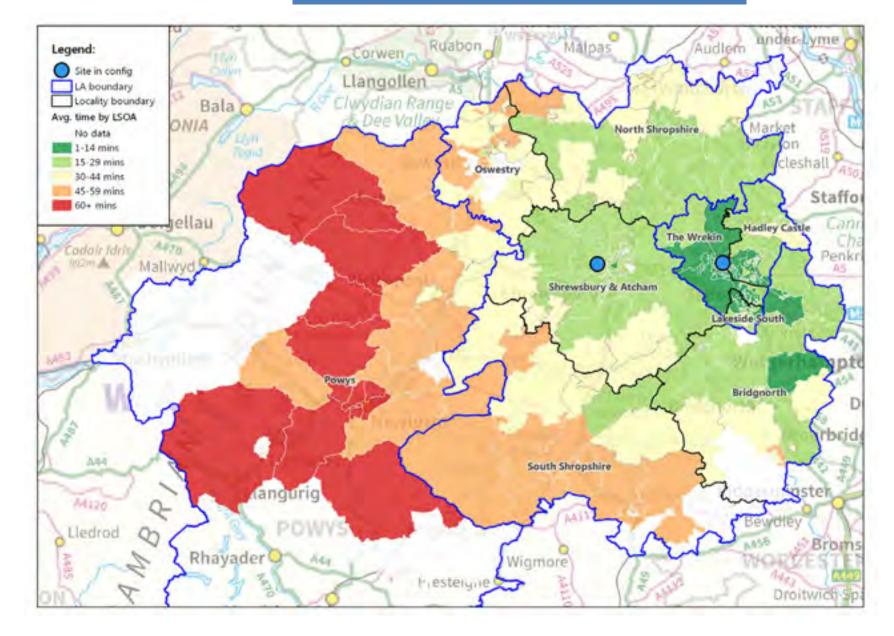






Option A – Complex Planned Care Activity retained at SaTH (car/ambulance)

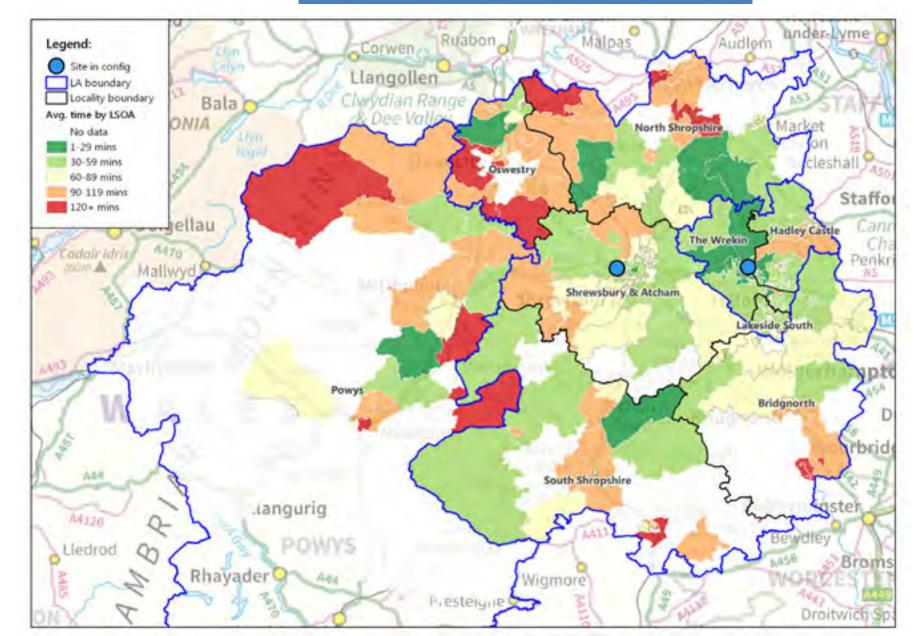






Option A – Complex Planned Care Activity retained at SaTH (public transport)

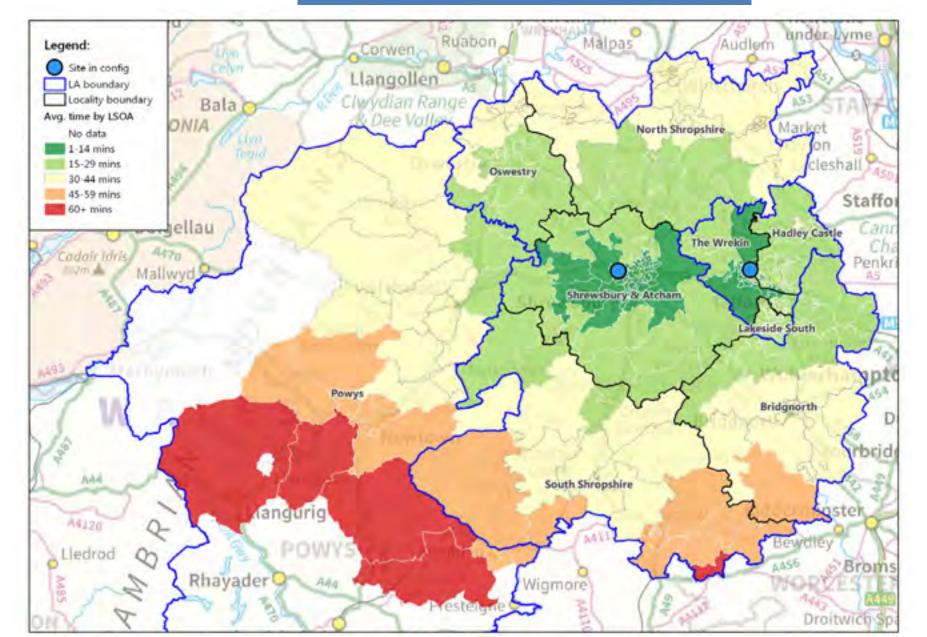






Option A – Non-Complex Planned Care Activity retained at SaTH (car/ambulance)

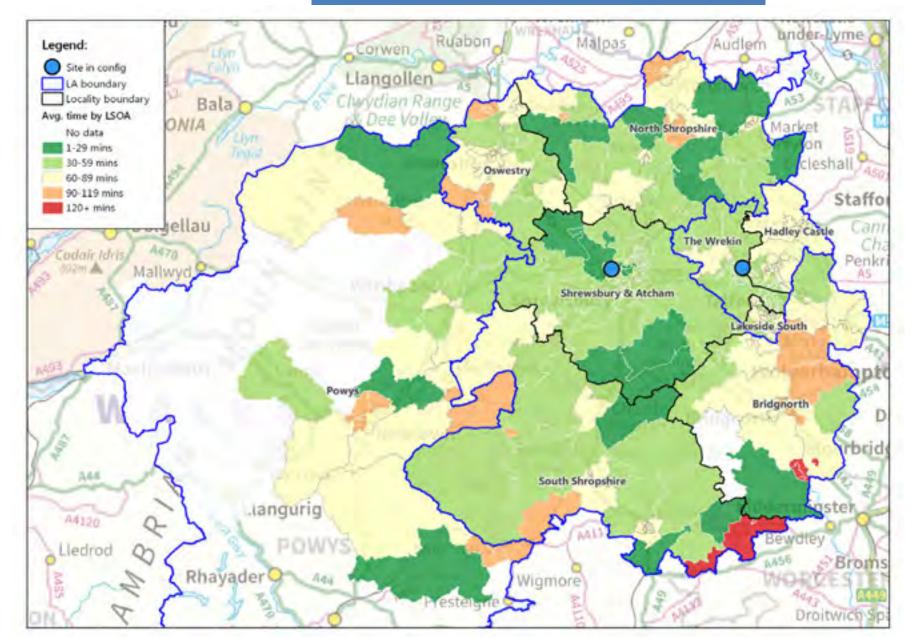






Option A – Non-Complex Planned Care Activity retained at SaTH (public transport)

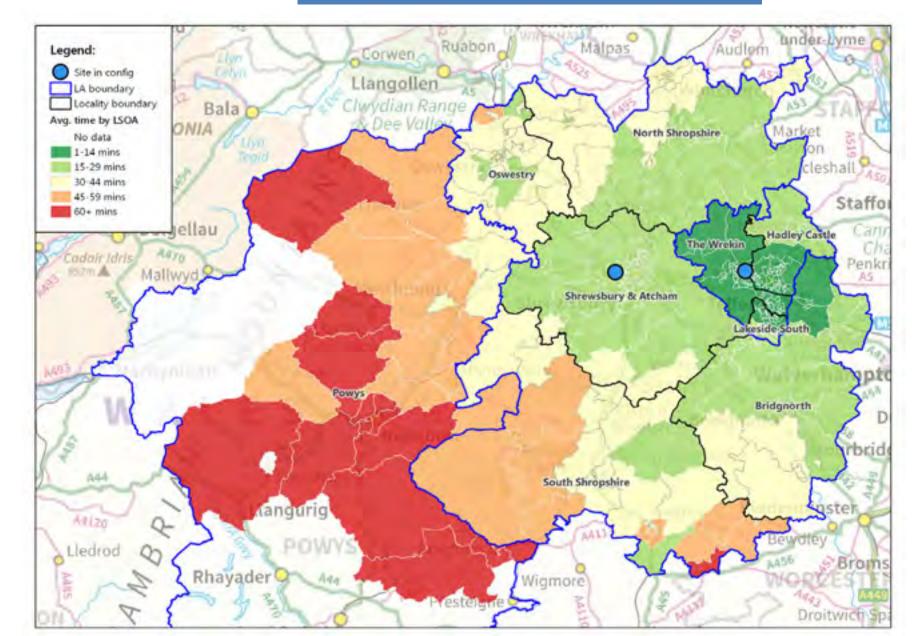






Option A – Women's & Children's Activity retained at SaTH (car/ambulance)

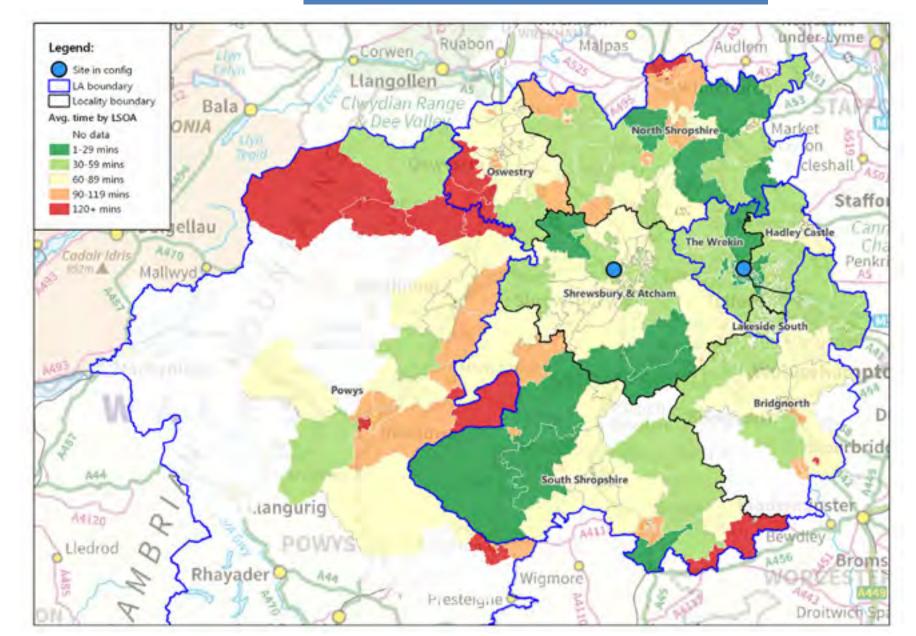






Option A – Women's & Children's Activity retained at SaTH (public transport)







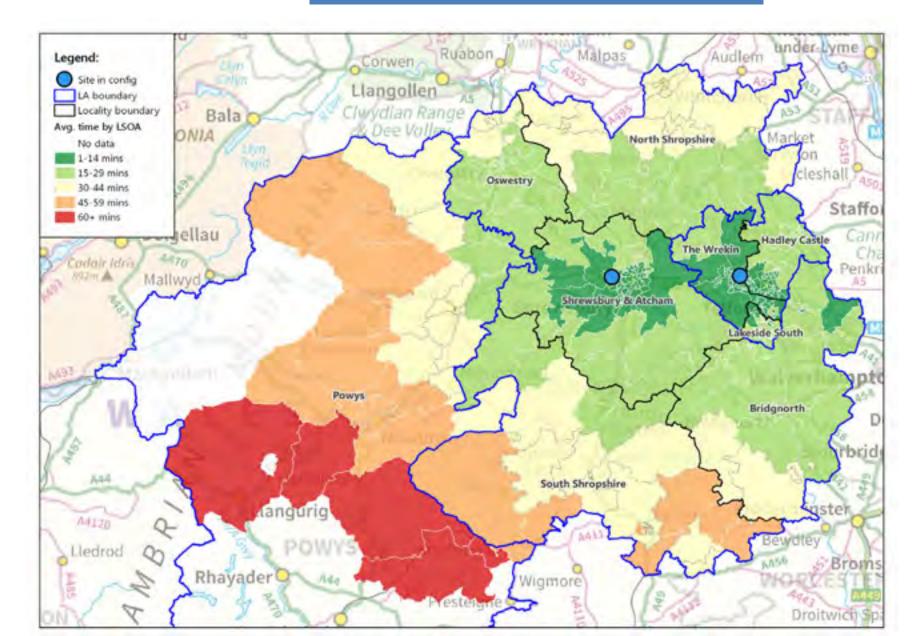


Option B



Option B – Overall Activity Activity retained at SaTH (car/ambulance)

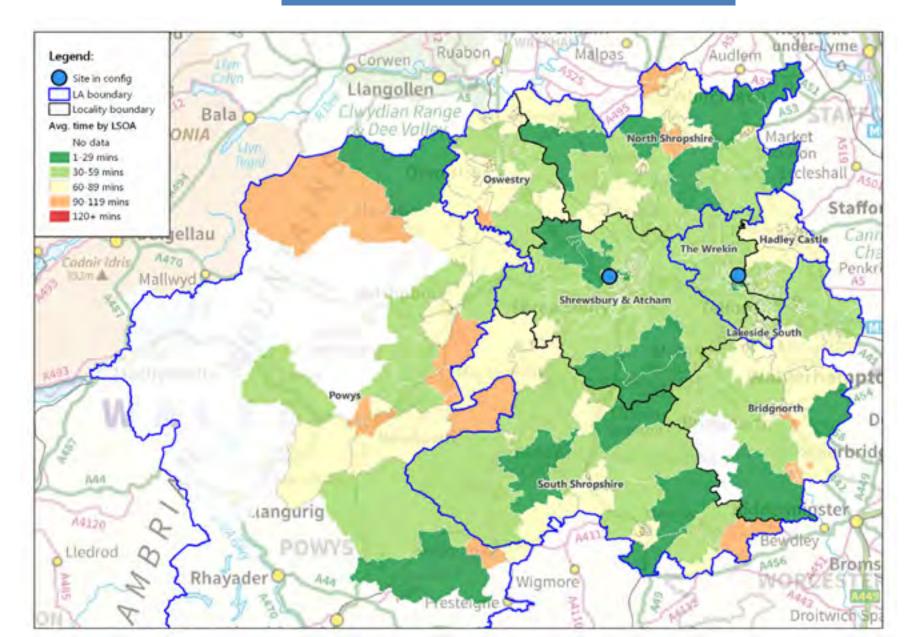






Option B – Overall Activity Activity retained at SaTH (public transport)







Option B – Emergency Care Activity retained at SaTH (car/ambulance)

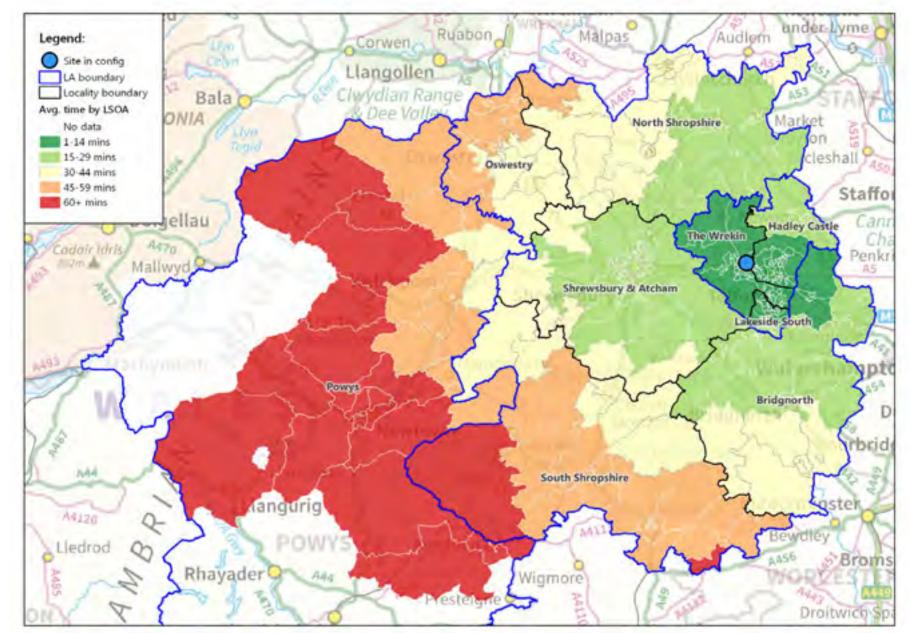


| | Locality | | | | | | | | | | All journeys | |
|--|------------|---------------------|------------|------------------------|---------------------|------------------|-------------------|------------|-------|-------------|--------------|----------|
| | | | Shropshire | | | | Telford | | Powys | | All jou | iiileys |
| Impact factor | Bridgnorth | North Shropshire | Oswestry | Shrewsbury & Atcham | South Shropshire | Hadley Castle | Lakeside South | The Wrekin | Powys | Out of Area | n | % of all |
| Total baseline journeys | 4,942 | 6,922 | 3,377 | 14,557 | 3,249 | 8,633 | 5,678 | 7,222 | 5,478 | 2,473 | 62,531 | 100.0% |
| Baseline avg. time (mins) | 26.0 | 30.3 | 27.0 | 12.5 | 38.9 | 14.1 | 15.9 | 10.6 | 39.6 | 24.8 | 20.9 | |
| Option B avg. time (mins) | 23.8 | 29.9 | 45.0 | 23.9 | 47.8 | 11.5 | 13.9 | 8.2 | 56.5 | 23.3 | 25.3 | |
| Journeys displaced to PRH | 1,095 | 4,272 | 3,010 | 12,955 | 2,847 | 1,417 | 858 | 1,178 | 4,628 | 626 | 32,886 | 52.6% |
| Change to avg. journey time (mins) | -9.9 | -0.5 | 20.1 | 12.9 | 10.1 | -15.7 | -13.6 | -14.5 | 20.0 | -6.5 | 8.5 | |
| Displaced avg. time (mins) | 25.0 | 31.7 | 45.3 | 24.1 | 48.0 | 11.9 | 13.9 | 8.7 | 59.8 | 48.2 | 33.3 | |
| Patients living nearer to an alternative site than PRH | 60 | 1,561 | 2,823 | 23 | 745 | | | | 4,039 | 892 | 10,143 | 16.2% |
| Option B avg. time (mins) if alternative chosen | 23.7 | 28.1 | 27.0 | 23.9 | 44.4 | | | | 51.4 | 17.0 | 23.3 | |
| Displaced patients in protected | | | | | | | | | | | | |
| groups | | | | | | | | | | | | |
| Age - 75+ | 278 | 1,283 | 993 | 3,311 | 1,070 | 270 | 150 | 213 | 1,595 | 94 | 9,257 | 14.8% |
| change to avg. journey time | -9.6 | 0.0 | 20.1 | 13.5 | 9.9 | -15.7 | -13.6 | -14.4 | 20.0 | -6.0 | 10.2 | |
| Age - Pre-school | 6 | 67 | 41 | 549 | 29 | 8 | 2 | 10 | 63 | 9 | 784 | 1.3% |
| change to avg. journey time | -10.0 | 1.8 | 20.1 | 12.1 | 12.1 | -15.6 | -13.7 | -11.9 | 20.0 | -9.9 | 11.2 | |
| BME groups | 48 | 269 | 193 | 892 | 145 | 154 | 49 | 140 | 251 | 44 | 2,185 | 3.5% |
| change to avg. journey time | -9.5 | -0.8 | 20.1 | 13.0 | 10.8 | -16.5 | -13.6 | -14.7 | 19.9 | -9.5 | 7.2 | |
| Gender - Male | 595 | 2,206 | 1,507 | 6,174 | 1,428 | 678 | 399 | 552 | 2,334 | 371 | 16,244 | 26.0% |
| change to avg. journey time | -9.9 | -1.0 | 20.1 | 12.7 | 10.1 | -15.8 | -13.6 | -14.6 | 20.0 | -6.1 | 8.4 | |
| Gender - Female | 500 | 2,066 | 1,503 | 6,781 | 1,419 | 739 | 459 | 626 | 2,294 | 255 | 16,642 | 26.6% |
| change to avg. journey time | -9.9 | 0.0 | 20.1 | 13.0 | 10.1 | -15.7 | -13.6 | -14.5 | 20.0 | -7.2 | 8.7 | |
| IMD 1&2 (most deprived 40%) | 235 | 905 | 879 | 2,985 | 877 | 728 | 578 | 673 | 940 | | 8,800 | 14.1% |
| change to avg. journey time | -10.4 | -2.9 | 20.2 | 10.1 | 8.0 | -15.8 | -13.7 | -13.9 | 19.9 | | 4.5 | |



Option B – Emergency Care Activity retained at SaTH (car/ambulance)







Option B – Complex Planned Care Activity retained at SaTH (car/ambulance)

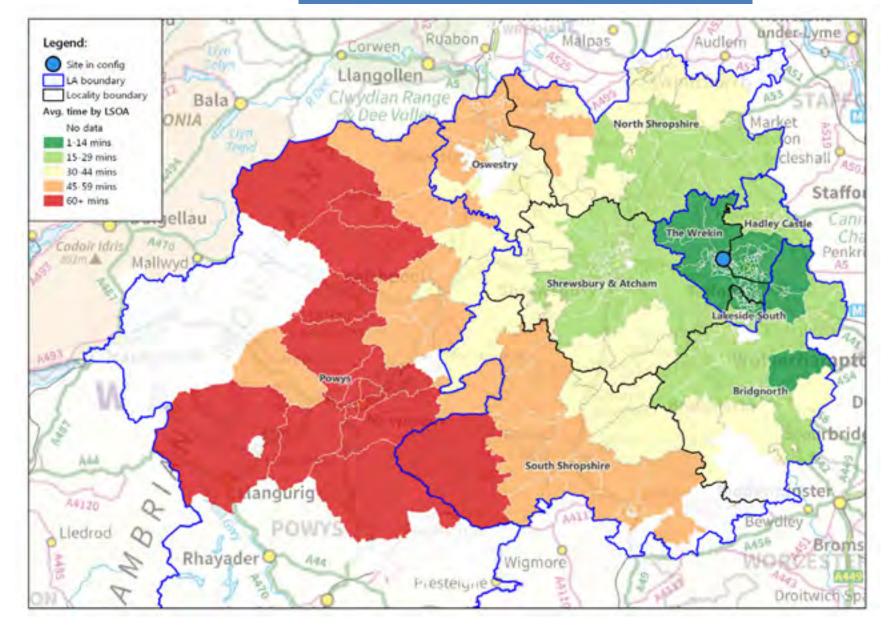


| | | | | | Loca | lity | | | | | A II : a. | All journeys | |
|--|------------|---------------------|------------|------------------------|---------------------|------------------|-------------------|------------|-------|-------------|-----------|--------------|--|
| | | | Shropshire | | | | Telford | | Powys | | All Jou | ırneys | |
| Impact factor | Bridgnorth | North Shropshire | Oswestry | Shrewsbury & Atcham | South Shropshire | Hadley Castle | Lakeside South | The Wrekin | Powys | Out of Area | n | % of all | |
| Total baseline journeys | 109 | 161 | 73 | 271 | 68 | 200 | 132 | 167 | 119 | 26 | 1,326 | 100.0% | |
| Baseline avg. time (mins) | 23.9 | 31.5 | 42.5 | 22.5 | 47.9 | 13.8 | 15.1 | 10.6 | 48.8 | 26.0 | 25.0 | | |
| Option B avg. time (mins) | 22.6 | 31.4 | 46.0 | 24.2 | 50.1 | 11.6 | 13.8 | 8.7 | 52.4 | 24.9 | 25.1 | | |
| Journeys displaced to PRH | 15 | 25 | 13 | 37 | 15 | 28 | 13 | 21 | 21 | 2 | 190 | 14.3% | |
| Change to avg. journey time (mins) | -9.3 | -1.0 | 20.1 | 12.5 | 9.9 | -15.6 | -13.7 | -15.1 | 20.2 | -13.7 | 0.9 | | |
| Displaced avg. time (mins) | 23.9 | 32.0 | 46.1 | 23.6 | 48.4 | 11.9 | 14.2 | 9.0 | 60.3 | 27.7 | 28.3 | | |
| Patients living nearer to an alternative site than PRH | | 12 | 13 | | 5 | | | | 17 | 2 | 49 | 3.7% | |
| Option B avg. time (mins) if alternative chosen | | 30.8 | 41.9 | | 49.3 | | | | 51.8 | 24.3 | 24.7 | | |
| Displaced patients in protected | | | | | | | | | | | | | |
| groups | | | | | | | | | | | | | |
| Age - 75+ | 3 | 7 | 3 | 13 | 5 | 3 | 2 | 3 | 4 | 1 | 44 | 3.3% | |
| change to avg. journey time | -9.5 | -1.5 | 20.2 | 12.0 | 10.4 | -14.5 | -13.7 | -13.7 | 20.2 | -13.7 | 4.2 | | |
| Age - Pre-school | | | | | | | | | | | 0 | 0.0% | |
| change to avg. journey time | | | | | | | | | | | | | |
| BME groups | | | 1 | | | 1 | 3 | 3 | | | 8 | 0.6% | |
| change to avg. journey time | | | 20.2 | | | -16.2 | -13.7 | -15.7 | | | -10.5 | | |
| Gender - Male | 10 | 16 | 7 | 18 | 12 | 19 | 10 | 13 | 10 | | 115 | 8.7% | |
| change to avg. journey time | -9.5 | -2.1 | 20.2 | 12.8 | 9.6 | -15.7 | -13.7 | -14.3 | 20.2 | | -0.5 | | |
| Gender - Female | 5 | 9 | 6 | 19 | 3 | 9 | 3 | 8 | 11 | 2 | 75 | 5.7% | |
| change to avg. journey time | -8.9 | 1.1 | 20.0 | 12.2 | 11.1 | -15.4 | -13.7 | -16.4 | 20.2 | -13.7 | 3.1 | | |
| IMD 1&2 (most deprived 40%) | 2 | 6 | 5 | 10 | 6 | 16 | 10 | 14 | 7 | | 76 | 5.7% | |
| change to avg. journey time | -10.6 | 2.0 | 20.2 | 8.8 | 9.6 | -15.9 | -13.7 | -14.3 | 20.2 | | -2.8 | | |



Option B – Complex Planned Care Activity retained at SaTH (car/ambulance)







change to avg. journey time

change to avg. journey time

IMD 1&2 (most deprived 40%)

-24.9

2

-28.2

29.1

6

14.6

42.9

5

41.9

30.9

9

26.6

29.9

4

24.3

-43.7

16

-48.5

-36.3

10

-34.5

-48.3

14

-47.5

35.0

4

43.3

-31.1

1.8

70

-14.8

5.3%

Option B – Complex Planned Care Activity retained at SaTH (public transport)

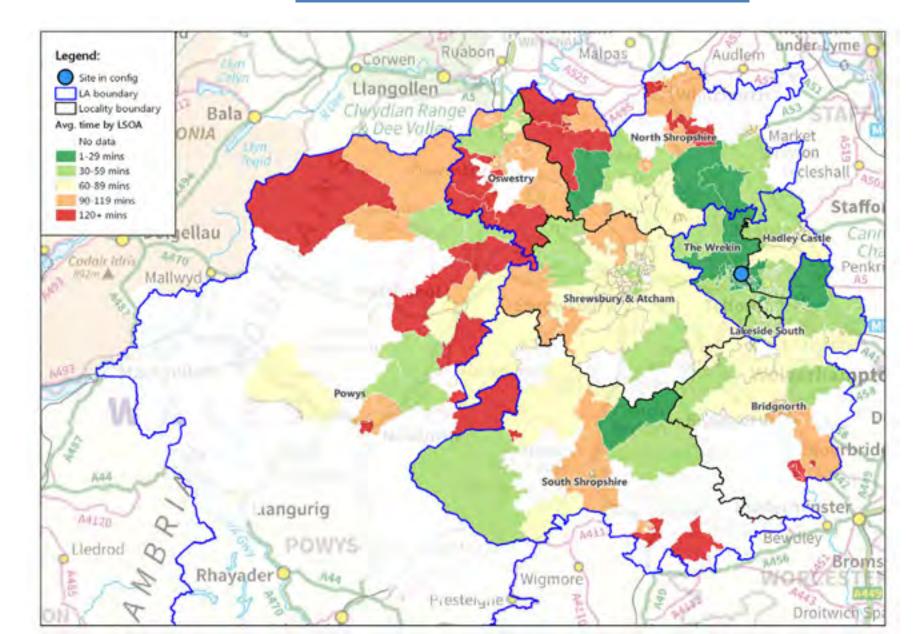


| Shaping healthcare toge | ether | | Activ | vity reta | | t SaTH | | ic trans | port) | | MIS | | |
|--|------------|---------------------|------------|------------------------|---------------------|------------------|-------------------|------------|-------|-------------|--------|---------|--|
| | | | | | Loca | ality | | | | | Allio | urneys | |
| | | | Shropshire | | | | Telford | | Powys | | A., jo | ı | |
| Impact factor | Bridgnorth | North Shropshire | Oswestry | Shrewsbury & Atcham | South Shropshire | Hadley Castle | Lakeside South | The Wrekin | Powys | Out of Area | n | % of al | |
| Total baseline journeys | 110 | 160 | 73 | 269 | 68 | 198 | 126 | 167 | 119 | 26 | 1,316 | 100.0% | |
| Baseline avg. time (mins) | 69.8 | 77.0 | 99.5 | 63.8 | 70.8 | 48.2 | 51.9 | 37.1 | 69.8 | 72.9 | 62.1 | | |
| Option B avg. time (mins) | 67.2 | 78.9 | 106.7 | 67.7 | 74.2 | 42.2 | 48.4 | 30.6 | 72.9 | 70.5 | 61.6 | | |
| Journeys displaced to PRH | 13 | 19 | 13 | 34 | 9 | 28 | 13 | 21 | 10 | 2 | 162 | 12.3% | |
| Change to avg. journey time (mins) | -21.4 | 15.5 | 40.3 | 30.7 | 25.3 | -42.5 | -34.3 | -51.7 | 36.4 | -31.1 | -3.8 | | |
| Displaced avg. time (mins) | 72.1 | 96.9 | 109.0 | 70.2 | 109.5 | 44.1 | 49.1 | 30.9 | 114.6 | 127.2 | 70.9 | | |
| Patients living nearer to an alternative site than PRH | 8 | 11 | 13 | | 5 | 1 | | | 2 | 2 | 42 | 3.2% | |
| Option B avg. time (mins) if alternative chosen | 66.5 | 77.1 | 99.7 | | 71.0 | 42.2 | | | 72.5 | 65.6 | 60.7 | | |
| Displaced patients in protected | | | | | | | | | | | | | |
| groups | | | | | | | | | | | | | |
| Age - 75+ | | 7 | 3 | 11 | 2 | 3 | 2 | 3 | 3 | 1 | 38 | 2.9% | |
| change to avg. journey time | -12.7 | 7.6 | 42.2 | 26.2 | 5.7 | -46.7 | -25.7 | -45.3 | 39.7 | -31.1 | 5.3 | | |
| Age - Pre-school | | | | | | | | | | | 0 | 0.0% | |
| change to avg. journey time | | | | | | | | | | | | | |
| BME groups | | | 1 | | | 1 | 3 | 3 | | | 8 | 0.6% | |
| change to avg. journey time | | | 17.8 | | | -25.4 | -31.9 | -42.1 | | | -28.7 | | |
| Gender - Male | 8 | 14 | 7 | 16 | 6 | 19 | 10 | 13 | 6 | | 99 | 7.5% | |
| change to avg. journey time | -19.2 | 10.6 | 38.0 | 30.5 | 23.0 | -41.9 | -33.7 | -53.8 | 37.2 | | -7.3 | | |
| Gender - Female | 5 | 5 | 6 | 18 | 3 | 9 | 3 | 8 | 4 | 2 | 63 | 4.8% | |
| | | | | | | | | | | | | | |



Option B – Complex Planned Care Activity retained at SaTH (public transport)







Option B – Non-Complex Planned Care Activity retained at SaTH (car/ambulance)

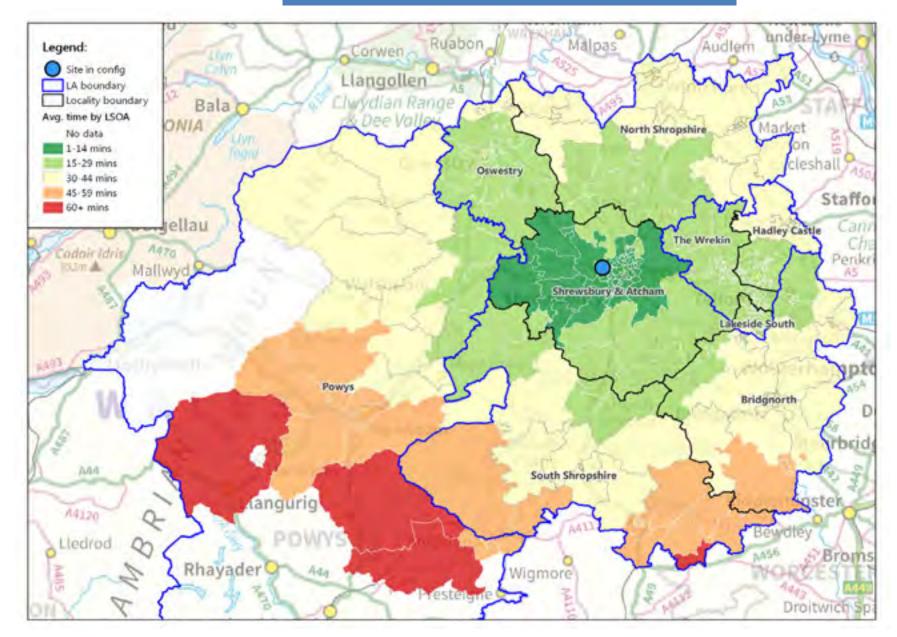


| | Locality | | | | | | | | | All journeys | | |
|--|------------|---------------------|------------|------------------------|---------------------|------------------|-------------------|------------|-------|--------------|--------------|----------|
| | | | Shropshire | | | Telford | | | Powys | | All journeys | |
| Impact factor | Bridgnorth | North Shropshire | Oswestry | Shrewsbury & Atcham | South Shropshire | Hadley Castle | Lakeside South | The Wrekin | Powys | Out of Area | n | % of all |
| Total baseline journeys | 5,434 | 6,616 | 3,240 | 11,987 | 3,629 | 8,293 | 4,656 | 6,082 | 5,989 | 1,518 | 57,444 | 100.0% |
| Baseline avg. time (mins) | 29.4 | 31.3 | 26.9 | 12.5 | 39.3 | 19.9 | 20.3 | 14.7 | 37.2 | 38.0 | 24.0 | |
| Option B avg. time (mins) | 33.9 | 33.1 | 24.6 | 11.3 | 38.2 | 26.7 | 26.3 | 22.0 | 35.6 | 41.0 | 26.3 | |
| Journeys displaced to RSH | 2,247 | 1,485 | 369 | 1,230 | 448 | 3,622 | 2,063 | 2,917 | 490 | 369 | 15,240 | 26.5% |
| Change to avg. journey time (mins) | 10.8 | 7.9 | -20.1 | -11.8 | -9.0 | 15.7 | 13.6 | 15.2 | -20.0 | 12.5 | 8.8 | |
| Displaced avg. time (mins) | 34.4 | 36.3 | 25.8 | 11.9 | 39.2 | 27.6 | 27.6 | 23.2 | 39.7 | 44.9 | 28.4 | |
| Patients living nearer to an alternative site than RSH | 1,719 | 1,054 | 239 | | 166 | 657 | | | 21 | 369 | 4,225 | 7.4% |
| Option B avg. time (mins) if alternative chosen | 32.1 | 31.7 | 24.3 | | 37.7 | 26.3 | | | 35.5 | 35.6 | 25.7 | |
| Displaced patients in protected groups | | | | | | | | | | | | |
| Age - 75+ | 496 | 309 | 65 | 229 | 81 | 643 | 339 | 538 | 93 | 71 | 2,864 | 5.0% |
| change to avg. journey time | 10.6 | 8.6 | -20.1 | -11.9 | -9.7 | 15.8 | 13.6 | 15.3 | -20.0 | 12.6 | 8.8 | |
| Age - Pre-school | | | | | | | | | | | 0 | 0.0% |
| change to avg. journey time | | | | | | | | | | | | |
| BME groups | 108 | 86 | 17 | 56 | 16 | 314 | 133 | 271 | 19 | 53 | 1,073 | 1.9% |
| change to avg. journey time | 10.9 | 8.7 | -20.2 | -13.3 | -8.8 | 16.0 | 13.6 | 15.8 | -20.2 | 12.6 | 11.3 | |
| Gender - Male | 1,088 | 695 | 158 | 554 | 189 | 1,698 | 979 | 1,326 | 214 | 187 | 7,088 | 12.3% |
| change to avg. journey time | 10.9 | 8.0 | -20.1 | -11.6 | -10.4 | 15.7 | 13.6 | 15.2 | -19.9 | 12.6 | 9.0 | |
| Gender - Female | 1,159 | 790 | 211 | 676 | 259 | 1,924 | 1,084 | 1,591 | 276 | 182 | 8,152 | 14.2% |
| change to avg. journey time | | 7.8 | -20.1 | -12.1 | -7.9 | 15.7 | 13.6 | 15.1 | -20.0 | 12.3 | 8.5 | |
| IMD 1&2 (most deprived 40%) | 502 | 438 | 101 | 253 | 144 | 1,733 | 1,252 | 1,457 | 101 | | 5,981 | 10.4% |
| change to avg. journey time | 11.0 | 9.9 | -20.2 | -10.2 | -5.9 | 15.7 | 13.7 | 14.2 | -19.9 | | 11.3 | |



Option B – Non-Complex Planned Care Activity retained at SaTH (car/ambulance)







Option B – Non-Complex Planned Care Activity retained at SaTH (public transport)

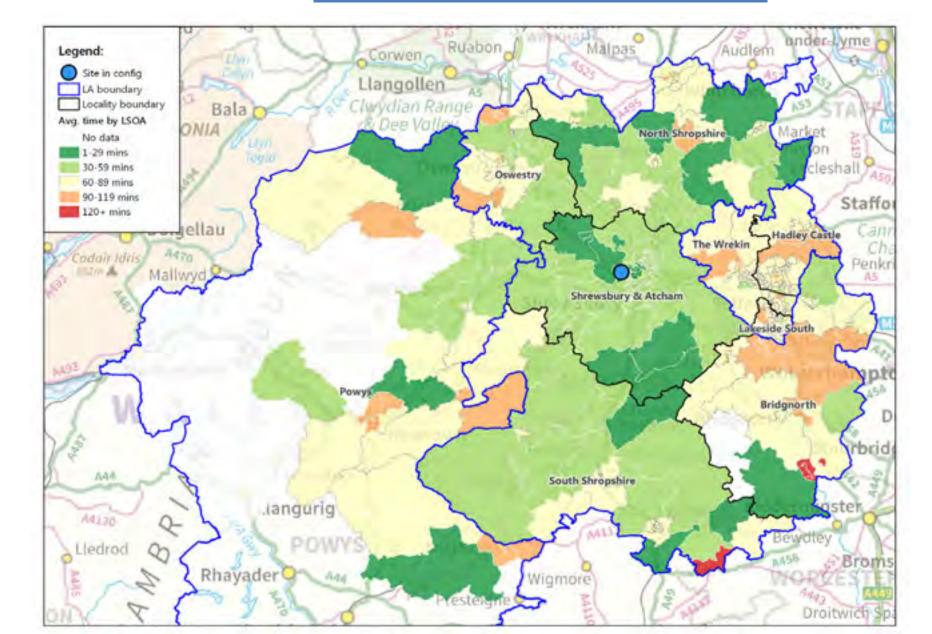


| | Locality | | | | | | | | | A.II. : | | |
|--|------------|---------------------|----------|------------------------|---------------------|------------------|-------------------|------------|-------|--------------|--------|----------|
| | Shropshire | | | | Telford | | | Powys | | All journeys | | |
| Impact factor | Bridgnorth | North Shropshire | Oswestry | Shrewsbury & Atcham | South Shropshire | Hadley Castle | Lakeside South | The Wrekin | Powys | Out of Area | n | % of all |
| Total baseline journeys | 5,430 | 6,588 | 3,218 | 11,888 | 3,632 | 8,142 | 4,439 | 5,986 | 5,987 | 1,497 | 56,807 | 100.0% |
| Baseline avg. time (mins) | 76.8 | 63.7 | 67.5 | 40.8 | 58.4 | 63.7 | 64.8 | 49.9 | 58.0 | 81.3 | 58.5 | |
| Option B avg. time (mins) | 84.7 | 63.5 | 62.5 | 38.1 | 55.9 | 81.9 | 80.7 | 74.2 | 56.4 | 85.2 | 64.6 | |
| Journeys displaced to PRH | 1,976 | 1,192 | 341 | 1,156 | 342 | 3,535 | 1,934 | 2,858 | 323 | 239 | 13,896 | 24.5% |
| Change to avg. journey time (mins) | 21.9 | -0.9 | -47.6 | -27.9 | -26.1 | 41.8 | 36.4 | 50.8 | -29.9 | 23.6 | 24.8 | |
| Displaced avg. time (mins) | 99.4 | 81.7 | 69.5 | 41.7 | 77.0 | 85.4 | 84.8 | 78.9 | 96.6 | 140.8 | 82.6 | |
| Patients living nearer to an alternative site than PRH | 1,774 | 532 | 89 | | 173 | 3,155 | 347 | 1,784 | 40 | 237 | 8,131 | 14.3% |
| Option B avg. time (mins) if alternative chosen | 76.2 | 62.1 | 62.1 | | 54.8 | 77.4 | 80.6 | 71.8 | 56.3 | 71.7 | 62.3 | |
| Displaced patients in protected | | | | | | | | | | | | |
| groups | | 0= / | | 24.0 | | | | | | | | |
| Age - 75+ | 440 | 254 | 61 | 219 | 65 | 637 | 324 | 532 | 64 | 41 | 2,637 | 4.6% |
| change to avg. journey time | 21.3 | 2.7 | -50.5 | -28.6 | -22.2 | 40.1 | 35.5 | 50.9 | -31.0 | 22.9 | 23.6 | |
| Age - Pre-school | | | | | | | | | | | 0 | 0.0% |
| change to avg. journey time | | | | | | | | | | | | |
| BME groups | 88 | 65 | 15 | 54 | 12 | 305 | 121 | 256 | 14 | 34 | 964 | 1.7% |
| change to avg. journey time | 24.0 | -2.8 | -51.8 | -28.6 | -15.9 | 45.2 | 35.4 | 51.2 | -23.6 | 14.0 | 31.9 | |
| Gender - Male | 948 | 557 | 146 | 516 | 142 | 1,650 | 917 | 1,300 | 147 | 118 | 6,441 | 11.3% |
| change to avg. journey time | 23.0 | 0.1 | -48.4 | -28.0 | -24.3 | 42.0 | 36.2 | 51.4 | -30.2 | 22.9 | 25.5 | |
| Gender - Female | 1,028 | 635 | 195 | 640 | 200 | 1,885 | 1,017 | 1,558 | 176 | 121 | 7,455 | 13.1% |
| change to avg. journey time | 21.0 | -1.8 | -47.0 | -27.8 | -27.4 | 41.6 | 36.6 | 50.3 | -29.6 | 24.2 | 24.1 | |
| IMD 1&2 (most deprived 40%) | 479 | 376 | 100 | 239 | 98 | 1,709 | 1,191 | 1,435 | 49 | | 5,676 | 10.0% |
| change to avg. journey time | 25.4 | 3.1 | -47.9 | -26.1 | -22.6 | 47.1 | 33.8 | 44.1 | -42.8 | | 32.1 | |



Option B – Non-Complex Planned Care Activity retained at SaTH (public transport)







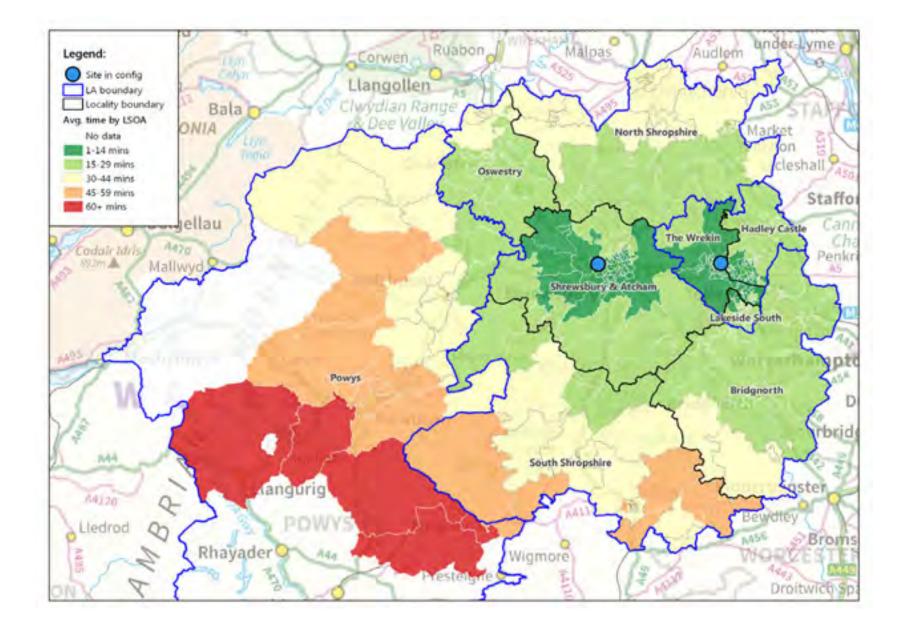


Options C1 & C2



Option C1 – Overall Activity Activity retained at SaTH (car/ambulance)

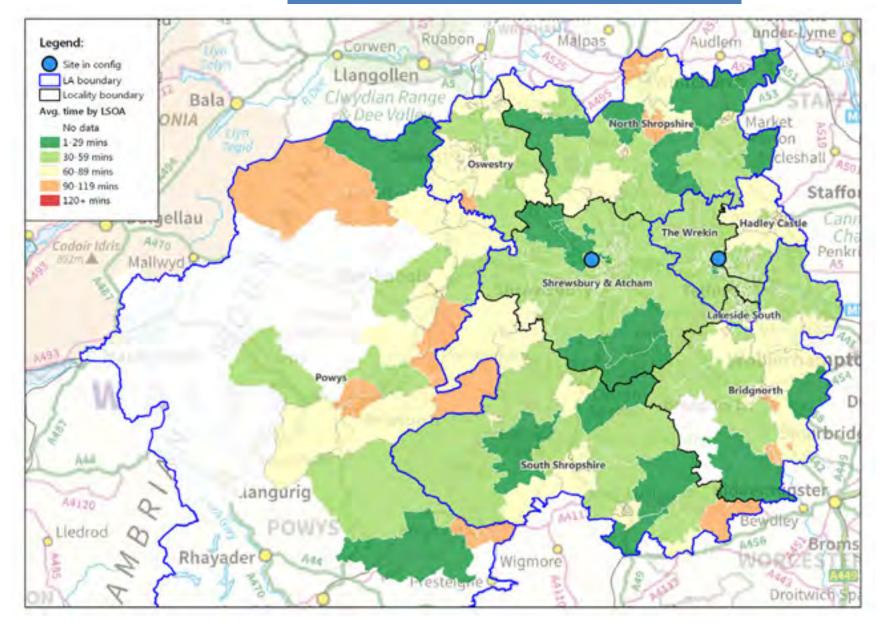






Option C1 – Overall Activity Activity retained at SaTH (public transport)

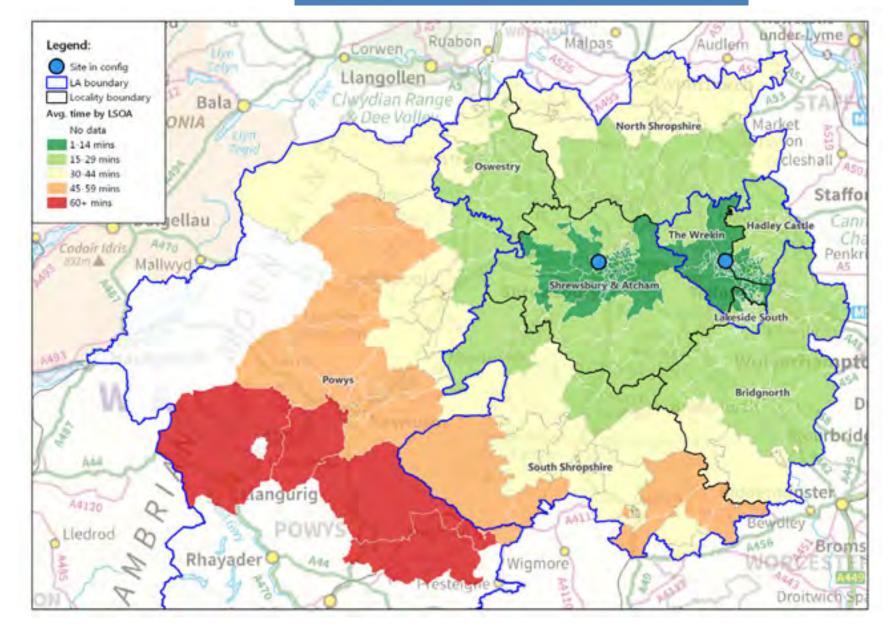






Option C2 – Overall Activity Activity retained at SaTH (car/ambulance)

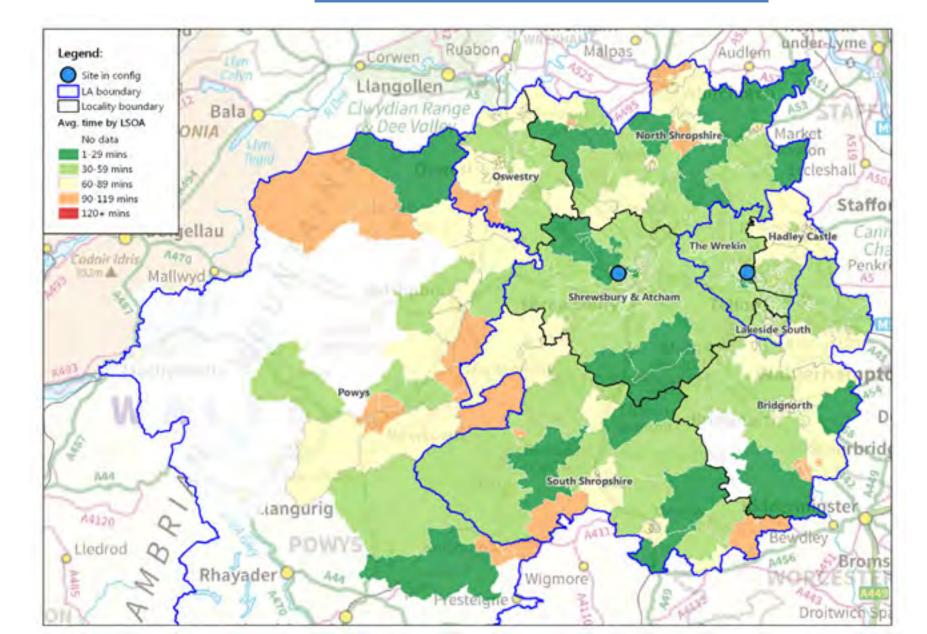






Option C2 – Overall Activity Activity retained at SaTH (public transport)







Option C1/2 – Emergency Care Activity retained at SaTH (car/ambulance)

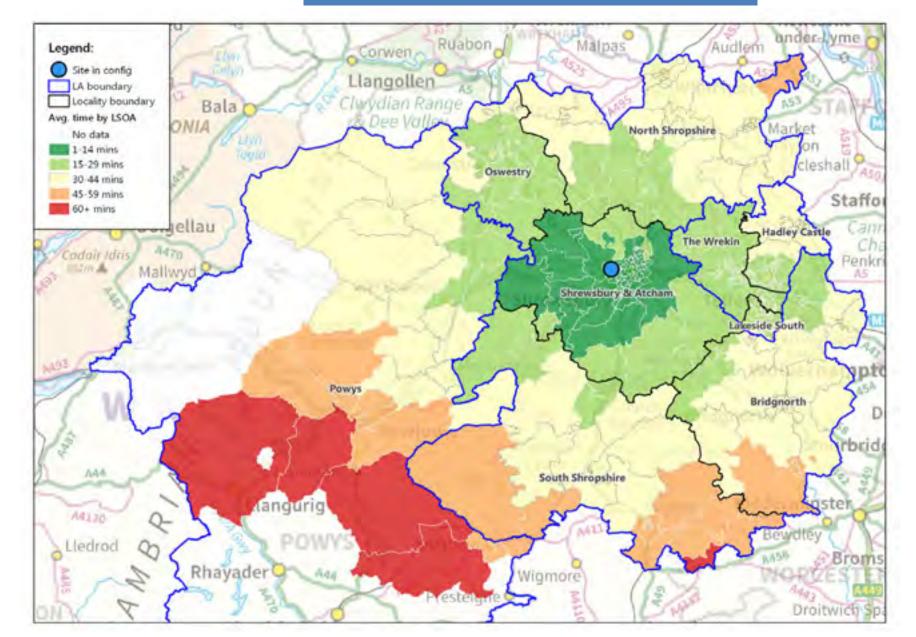


| | | | | | Loca | ality | | | | | All journeys | |
|---|------------|---------------------|------------|------------------------|---------------------|------------------|-------------------|------------|-------|-------------|--------------|----------|
| | | | Shropshire |) | | | Telford | | Powys | | All jou | irneys |
| Impact factor | Bridgnorth | North Shropshire | Oswestry | Shrewsbury & Atcham | South Shropshire | Hadley Castle | Lakeside South | The Wrekin | Powys | Out of Area | n | % of all |
| Total baseline journeys | 4,942 | 6,922 | 3,377 | 14,557 | 3,249 | 8,633 | 5,678 | 7,222 | 5,478 | 2,473 | 62,531 | 100.0% |
| Baseline avg. time (mins) | 26.0 | 30.3 | 27.0 | 12.5 | 38.9 | 14.1 | 15.9 | 10.6 | 39.6 | 24.8 | 20.9 | |
| Option C avg. time (mins) | 34.3 | 33.7 | 25.0 | 11.2 | 38.0 | 27.0 | 27.3 | 22.9 | 37.6 | 28.6 | 25.7 | |
| Journeys displaced to RSH | 3,816 | 2,624 | 339 | 1,531 | 387 | 7,065 | 4,768 | 5,922 | 546 | 748 | 27,746 | 44.4% |
| Change to avg. journey time (mins) | 10.8 | 9.2 | -20.1 | -11.7 | -8.0 | 15.7 | 13.6 | 15.0 | -20.1 | 12.4 | 10.8 | |
| Displaced avg. time (mins) | 34.4 | 36.5 | 25.3 | 12.0 | 40.0 | 27.4 | 27.6 | 23.3 | 40.0 | 48.5 | 28.5 | |
| Patients living nearer to an alternative site than RSH | 2,874 | 1,901 | 217 | | 141 | 1,225 | | | 10 | 748 | 7,116 | 11.4% |
| Option C avg. time (mins) if alternative chosen | 31.0 | 31.4 | 24.8 | | 37.6 | 26.1 | | | 37.6 | 20.4 | 24.7 | |
| Displaced patients in protected | | | | | | | | | | | | |
| groups | | | | | | | | | | | | |
| Age - 75+ | 1,397 | 773 | 84 | 421 | 141 | 1,607 | 924 | 1,347 | 156 | 146 | 6,996 | 11.2% |
| change to avg. journey time | 10.5 | 8.7 | -20.1 | -12.1 | -8.6 | 15.5 | 13.6 | 15.0 | -20.1 | 13.2 | 10.0 | |
| Age - Pre-school | 184 | 186 | 32 | 160 | 33 | 498 | 403 | 456 | 61 | 36 | 2,049 | 3.3% |
| change to avg. journey time | 10.8 | 8.4 | -20.2 | -11.6 | -6.3 | 15.8 | 13.6 | 14.5 | -20.2 | 13.3 | 9.8 | |
| BME groups | 162 | 136 | 26 | 112 | 16 | 913 | 319 | 823 | 42 | 85 | 2,634 | 4.2% |
| change to avg. journey time | 10.5 | 9.9 | -20.0 | -12.4 | -6.2 | 16.4 | 13.6 | 15.2 | -20.2 | 12.8 | 12.6 | |
| Gender - Male | 1,781 | 1,234 | 171 | 643 | 191 | 3,391 | 2,332 | 2,908 | 251 | 397 | 13,299 | 21.3% |
| change to avg. journey time | 10.9 | 9.5 | -20.1 | -11.2 | -8.2 | 15.8 | 13.6 | 15.0 | -19.9 | 12.1 | 11.1 | |
| Gender - Female | 2,035 | 1,390 | 168 | 888 | 196 | 3,674 | 2,436 | 3,014 | 295 | 351 | 14,447 | 23.1% |
| change to avg. journey time | 10.7 | 8.9 | -20.1 | -12.0 | -7.8 | 15.7 | 13.6 | 15.0 | -20.2 | 12.7 | 10.6 | |
| IMD 1&2 (most deprived 40%) | 866 | 825 | 103 | 331 | 153 | 3,792 | 3,243 | 3,544 | 110 | | 12,967 | 20.7% |
| change to avg. journey time | 10.8 | 10.7 | -20.2 | -10.0 | -4.9 | 15.9 | 13.7 | 14.2 | -20.0 | | 12.7 | |



Option C1/2 – Emergency Care Activity retained at SaTH (car/ambulance)







Option C1/2 – Complex Planned Care Activity retained at SaTH (car/ambulance)

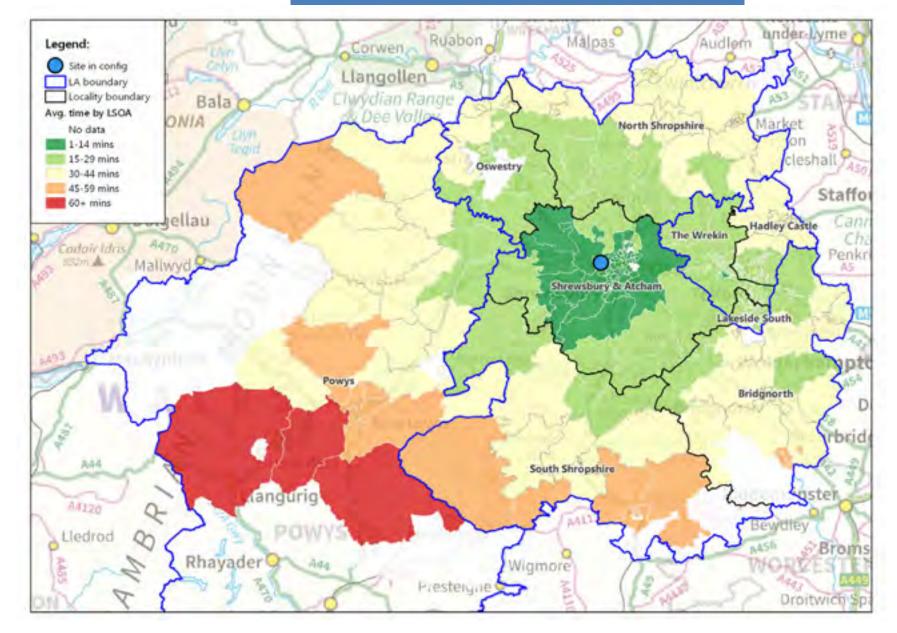


| | | | | | Loca | ality | | | | | All iou | ırneys |
|---|------------|---------------------|-------------|------------------------|---------------------|------------------|-------------------|------------|-------------|-------------|---------|----------|
| | | | Shropshire | | | | Telford | | Powys | | All jot | inieys |
| Impact factor | Bridgnorth | North Shropshire | Oswestry | Shrewsbury & Atcham | South Shropshire | Hadley Castle | Lakeside South | The Wrekin | Powys | Out of Area | n | % of all |
| Total baseline journeys | 109 | 161 | 73 | 271 | 68 | 200 | 132 | 167 | 119 | 26 | 1,326 | 100.0% |
| Baseline avg. time (mins) | 23.9 | 31.5 | 42.5 | 22.5 | 47.9 | 13.8 | 15.1 | 10.6 | 48.8 | 26.0 | 25.0 | |
| Option C avg. time (mins) | 32.5 | 33.8 | 25.9 | 11.7 | 40.6 | 26.9 | 27.2 | 22.9 | 34.8 | 33.5 | 26.1 | |
| Journeys displaced to RSH | 93 | 136 | 60 | 233 | 53 | 169 | 117 | 143 | 83 | 17 | 1,104 | 83.3% |
| Change to avg. journey time (mins) | 10.1 | 2.7 | -20.1 | -12.5 | -9.4 | 15.6 | 13.6 | 14.4 | -20.1 | 11.5 | 1.4 | |
| Displaced avg. time (mins) | 32.8 | 34.0 | 25.9 | 11.9 | 41.2 | 27.3 | 27.6 | 23.2 | 39.7 | 46.3 | 26.7 | |
| Patients living nearer to an alternative site than RSH | 66 | 80 | 41 | | 17 | 24 | | | 1 | 17 | 246 | 18.6% |
| Option C avg. time (mins) if alternative chosen | 29.5 | 29.6 | 23.1 | | 38.3 | 26.2 | | | 34.7 | 17.5 | 24.6 | |
| Displaced patients in protected | | | | | | | | | | | | |
| groups | | | | | | | | | | - | _ | |
| Age - 75+ | | 2 | | 2 | | 2 | | 1 | | 1 | . 8 | 0.6% |
| change to avg. journey time | 21 | 15.5 | 11 | -14.0 | 10 | 16.5 | 22 | 13.7 | 10 | 16.2 | 8.2 | 10 50/ |
| Age - Pre-school change to avg. journey time | 21 9.4 | 34 2.8 | 11 -20.0 | 53 -11.1 | 10 -12.0 | 38 15.3 | 32 13.6 | 35 14.0 | 10 -20.2 | 4.4 | 245 | 18.5% |
| BME groups | | 9 | -20.0 | 14 | 3 | 21 | 10 | 28 | -20.2 4 | 4.4 | 94 | 7.1% |
| change to avg. journey time | 7.8 | -1.2 | -20.2 | -14.1 | -4.5 | 16.1 | 13.6 | 14.5 | -20.2 | | 5.7 | 7.170 |
| Gender - Male | 50 | 75 | 26 | 125 | 32 | 96 | 66 | 81 | 49 | 9 | 609 | 45.9% |
| change to avg. journey time | 10.3 | 1.5 | -20.2 | -12.3 | -7.9 | 15.5 | 13.6 | 14.4 | -20.1 | 11.9 | 1.6 | 73.370 |
| Gender - Female | 43 | 61 | 34 | 108 | 21 | 73 | 51 | 62 | 34 | 8 | 495 | 37.3% |
| change to avg. journey time | 9.9 | 4.2 | -20.1 | -12.6 | -11.6 | 15.7 | 13.6 | 14.4 | -20.2 | 11.0 | 1.1 | 57.5.0 |
| IMD 1&2 (most deprived 40%) | 17 | 35 | 15 | 58 | 28 | 84 | 83 | 94 | 19 | | 433 | 32.7% |
| change to avg. journey time | 11.2 | 4.5 | -20.2 | -9.9 | -8.2 | 16.0 | 13.7 | 13.8 | -20.0 | | 6.1 | |



Option C1/2 – Complex Planned Care Activity retained at SaTH (car/ambulance)







Option C1/2 – Complex Planned Care Activity retained at SaTH (public transport)

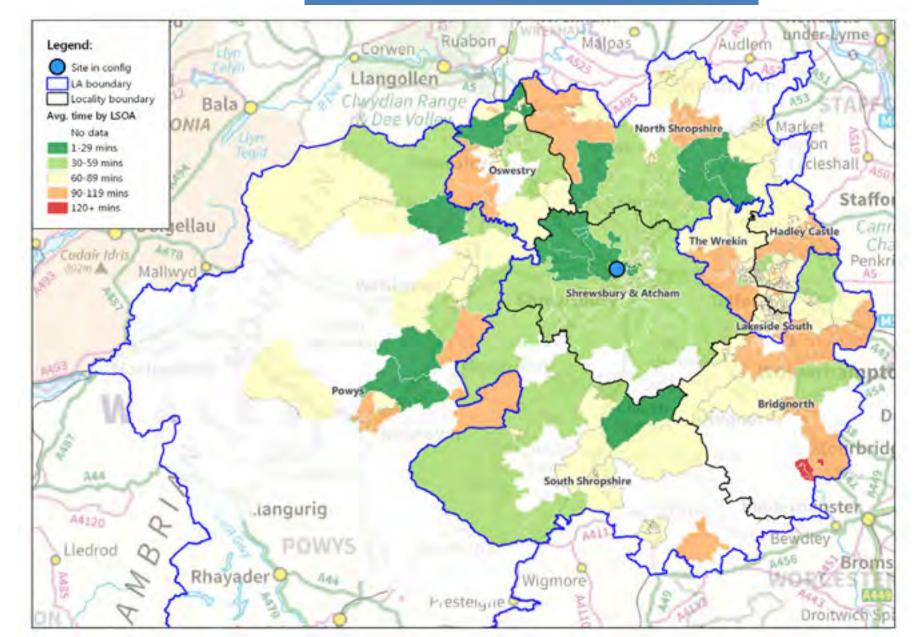


| | | | | | Loca | ality | | | | | بما ال | ırneys |
|---|------------|---------------------|------------|------------------------|---------------------|------------------|-------------------|------------|-------|-------------|---------|----------|
| | | | Shropshire | | | | Telford | | Powys | | Air jou | irneys |
| Impact factor | Bridgnorth | North Shropshire | Oswestry | Shrewsbury & Atcham | South Shropshire | Hadley Castle | Lakeside South | The Wrekin | Powys | Out of Area | n | % of all |
| Total baseline journeys | 110 | 160 | 73 | 269 | 68 | 198 | 126 | 167 | 119 | 26 | 1,316 | 100.0% |
| Baseline avg. time (mins) | 69.8 | 77.0 | 99.5 | 63.8 | 70.8 | 48.2 | 51.9 | 37.1 | 69.8 | 72.9 | 62.1 | |
| Option C avg. time (mins) | 85.8 | 64.7 | 64.9 | 39.1 | 57.3 | 83.2 | 83.2 | 77.1 | 55.1 | 79.1 | 66.4 | |
| Journeys displaced to RSH | 87 | 109 | 56 | 222 | 39 | 167 | 111 | 143 | 63 | 12 | 1,009 | 76.7% |
| Change to avg. journey time (mins) | 20.3 | -18.1 | -45.1 | -29.9 | -23.6 | 41.5 | 35.5 | 46.7 | -27.8 | 13.4 | 5.6 | |
| Displaced avg. time (mins) | 94.5 | 80.8 | 68.6 | 41.3 | 80.5 | 84.2 | 84.6 | 77.9 | 91.7 | 145.0 | 74.6 | |
| Patients living nearer to an alternative site than RSH | 70 | 52 | 16 | | 27 | 146 | 22 | 74 | 3 | 12 | 422 | 32.1% |
| Option C avg. time (mins) if alternative chosen | 699 | 60.5 | 60.7 | | 48.6 | 76.0 | 83.0 | 74.0 | 55.0 | 38.2 | 61.6 | |
| isplaced patients in protected | | | | | | | | | | | | |
| groups | | | | | | | | | | | | |
| Age - 75+ | | 2 | | 1 | | 2 | | 1 | | 1 | 7 | 0.5% |
| change to avg. journey time | | 22.1 | | -15.9 | | 35.2 | | 33.1 | | 25.4 | 22.4 | |
| Age - Pre-school | 21 | 28 | 10 | 52 | 6 | 38 | 30 | 35 | 7 | 1 | 228 | 17.3% |
| change to avg. journey time | 20.2 | -8.8 | -52.2 | -28.2 | -15.0 | 39.7 | 34.3 | 48.0 | -32.8 | -49.2 | 8.9 | |
| BME groups | 1 | 9 | 2 | 13 | 1 | 21 | 10 | 28 | 4 | | 89 | 6.8% |
| change to avg. journey time | -3.0 | -14.8 | -50.9 | -33.7 | -34.9 | 49.5 | 32.1 | 44.0 | -13.4 | | 20.5 | |
| Gender - Male | 47 | 61 | 26 | 122 | 23 | 96 | 61 | 81 | 38 | 7 | 562 | 42.7% |
| change to avg. journey time | 21.4 | -18.8 | -44.5 | -30.9 | -22.4 | 41.0 | 34.8 | 47.1 | -28.1 | 22.2 | 6.0 | |
| Gender - Female | 40 | 48 | 30 | 100 | 16 | 71 | 50 | 62 | 25 | 5 | 447 | 34.0% |
| change to avg. journey time | 18.9 | -17.3 | -45.6 | -28.8 | -25.3 | 42.3 | 36.3 | 46.1 | -27.3 | 1.1 | 5.1 | |
| IMD 1&2 (most deprived 40%) | 17 | 30 | 13 | 58 | 21 | 82 | 79 | 94 | 14 | | 408 | 31.0% |
| change to avg. journey time | 28.1 | -15.1 | -39.9 | -27.7 | -21.2 | 47.1 | 33.0 | 41.3 | -35.6 | | 17.9 | |



Option C1/2 – Complex Planned Care Activity retained at SaTH (public transport)





% of all

100.0%

69.1%

18.3%

14.9%

0.0%

3.3%

35.6%

33.6%

19.9%



Journeys displaced to PRH

Patients living nearer to an

Displaced patients in protected

alternative site than PRH

groups

Change to avg. journey time (mins)

Displaced avg. time (mins)

Option C avg. time (mins) if

change to avg. journey time

IMD 1&2 (most deprived 40%)

alternative chosen

Age - Pre-school

Age - 75+

BME groups

Gender - Male

Gender - Female

3,046

-10.0

25.0

105

23.7

616

-9.8

93

-11.8

1,412

-9.9

1,634

-10.1

616

-10.8

4,950

-2.1

31.3

1,760

27.4

1,035

-0.7

210

-2.0

2,604

-2.4

2,346

-1.8

1,106

-5.3



All journeys

n

57,444

24.0

26.1

39,709

3.1

30.2

10,534

23.8

8,536

4.4

0

1,908

0.1

20,422

3.1

19,285

3.2

11,426

-1.6

Area

1,518

38.0

54.5

916

-8.9

41.0

783

43.5

115

-10.7

114

-11.7

522

-8.6

392

-9.4

5,989

37.2

53.1

4,788

19.9

60.3

4,156

48.0

1,204

19.9

136

20.1

2,532

19.9

2,256

19.9

1,069

19.8

| futures Shaping healthcare tog | _ | | | | | Planne ambula | | | | |
|--------------------------------|-------------|------------|------------------|------------|------------|-------------------------|----------|------------|--------|--------|
| | | | | | Loca | ality | | | | |
| | | | Shropshire | 1 | | | Telford | | Powys | |
| Impact factor | Bridgnorth | North | Oswestry | Shrewsbury | South | Hadley | Lakeside | The Wrekin | Powys | Out of |
| Impact factor | briagilorui | Shropshire | pshire Oswesti y | & Atcham | Shropshire | Castle | South | THE WICKIT | 1 Owys | |

10,547

12.6

24.1

19

23.6

2,289

12.6

473

14.6

5,242

12.7

5,305

12.6

2,025

10.5

3,122

10.0

48.8

994

37.6

813

9.9

119

8.4

1,669

10.7

1,453

9.1

1,046

7.3

4,323

-15.8

12.4

870

-16.0

281

-16.3

2,279

-15.9

2,044

-15.7

1,971

-15.8

2,389

-13.6

13.8

403

-13.6

107

-13.6

1,334

-13.6

1,055

-13.6

1,442

-13.7

2,862

-14.7

8.3

569

-14.3

263

-14.7

1,436

-14.8

1,426

-14.7

1,416

-14.0

| futures Shaping healthcare tog | _ | ion C1, vity ret | | | | | | | | | | |
|--------------------------------|-----------------------------|---------------------|----------|------------------------|---------------------|------------------|-------------------|------------|--|--|--|--|
| | | | Locality | | | | | | | | | |
| | Shropshire Telford | | | | | | | | | | | |
| Impact factor | Bridgnorth North Shropshire | | Oswestry | Shrewsbury & Atcham | South Shropshire | Hadley Castle | Lakeside South | The Wrekin | | | | |
| Total baseline journeys | 5,434 | 6,616 | 3,240 | 11,987 | 3,629 | 8,293 | 4,656 | 6,082 | | | | |
| Baseline avg. time (mins) | 29.4 | 31.3 | 26.9 | 12.5 | 39.3 | 19.9 | 20.3 | 14.7 | | | | |
| Option C avg. time (mins) | 23.8 | 29.8 | 41.5 | 23.6 | 41.1 | 11.7 | 13.3 | 7.8 | | | | |
| | | | | | | | | | | | | |

2,766

20.1

45.5

2,717

24.2

622

20.1

112

20.2

1,392

20.1

1,374

20.1

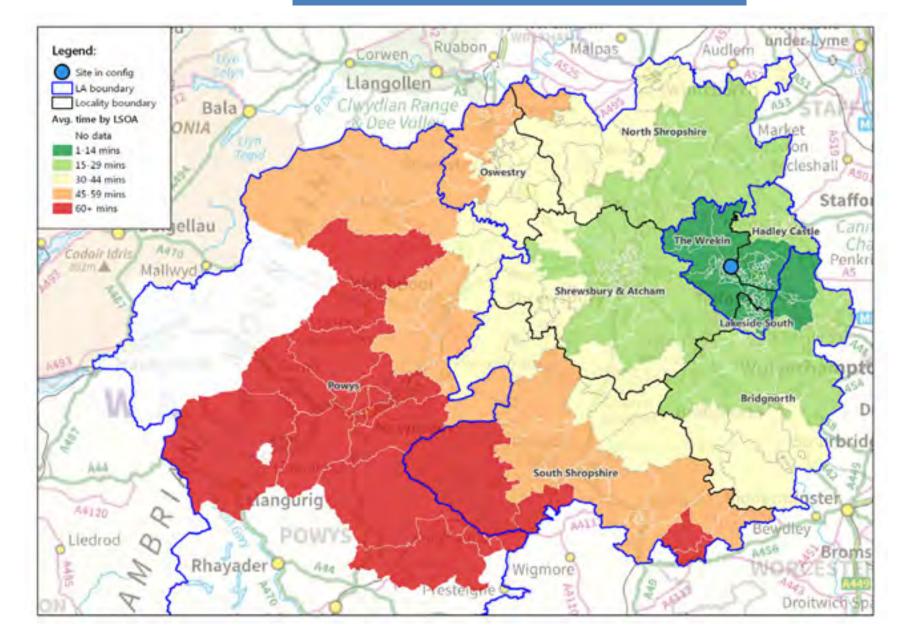
735

20.2



Option C1/2 – Non-Complex Planned Care Activity retained at SaTH (car/ambulance)







Option C1/2 – Non-Complex Planned Care Activity retained at SaTH (public transport)

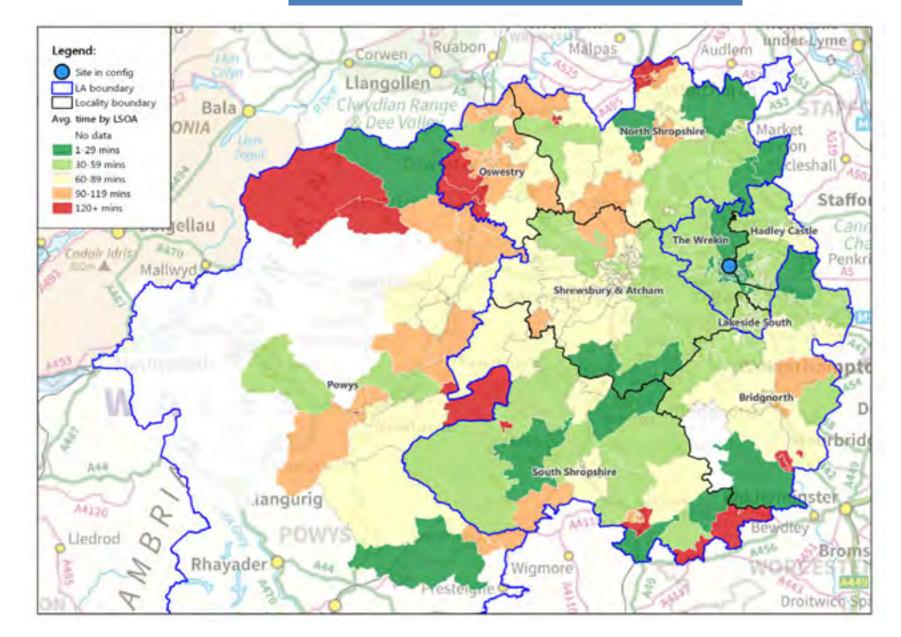


| | | | | | Loca | ality | | | | | All jou | Irnevs — |
|--|------------|---------------------|------------|------------------------|---------------------|------------------|-------------------|------------|-------|-------------|---------|----------|
| | | | Shropshire | | | | Telford | | Powys | | All jou | irrieys |
| Impact factor | Bridgnorth | North Shropshire | Oswestry | Shrewsbury & Atcham | South Shropshire | Hadley Castle | Lakeside South | The Wrekin | Powys | Out of Area | n | % of all |
| Total baseline journeys | 5,430 | 6,588 | 3,218 | 11,888 | 3,632 | 8,142 | 4,439 | 5,986 | 5,987 | 1,497 | 56,807 | 100.0% |
| Baseline avg. time (mins) | 76.8 | 63.7 | 67.5 | 40.8 | 58.4 | 63.7 | 64.8 | 49.9 | 58.0 | 81.3 | 58.5 | |
| Option C avg. time (mins) | 67.1 | 74.0 | 105.1 | 64.5 | 73.2 | 42.3 | 46.1 | 26.9 | 74.5 | 74.6 | 61.4 | |
| Journeys displaced to RSH | 2,658 | 3,992 | 2,569 | 9,839 | 2,283 | 4,199 | 2,285 | 2,804 | 3,241 | 650 | 34,520 | 60.8% |
| Change to avg. journey time (mins) | -19.7 | 17.0 | 47.0 | 28.7 | 23.7 | -41.6 | -36.4 | -49.1 | 30.3 | -14.9 | 4.8 | |
| Displaced avg. time (mins) | 79.5 | 97.4 | 116.1 | 69.8 | 101.0 | 45.2 | 48.5 | 28.8 | 124.9 | 128.7 | 77.8 | |
| Patients living nearer to an alternative site than RSH | 1,550 | 2,060 | 2,453 | 3 | 1,508 | 206 | | | 886 | 650 | 9,316 | 16.4% |
| Option C avg. time (mins) if alternative chosen | 62.8 | 64.9 | 73.3 | 64.5 | 55.9 | 42.2 | | | 68.2 | 42.9 | 55.5 | |
| Displaced patients in protected groups | | | | | | | | | | | | |
| Age - 75+ | 556 | 888 | 597 | 2,182 | 649 | 846 | 362 | 559 | 808 | 46 | 7,493 | 13.2% |
| change to avg. journey time | -19.4 | 21.7 | 48.9 | 29.0 | 25.5 | -40.8 | -37.0 | -50.1 | 31.8 | -4.6 | 9.0 | |
| Age - Pre-school | | | | | | | | | | | 0 | 0.0% |
| change to avg. journey time | | | | | | | | | | | | |
| BME groups | 85 | 193 | 106 | 438 | 111 | 258 | 104 | 263 | 100 | 102 | 1,760 | 3.1% |
| change to avg. journey time | -14.5 | 20.6 | 47.3 | 32.9 | 19.6 | -45.6 | -35.8 | -45.9 | 25.4 | -18.7 | -1.4 | |
| Gender - Male | 1,263 | 2,132 | 1,313 | 4,856 | 1,187 | 2,176 | 1,270 | 1,420 | 1,642 | 376 | 17,635 | 31.0% |
| change to avg. journey time | -18.3 | 16.9 | 47.1 | 28.8 | 22.9 | -40.1 | -36.6 | -49.2 | 30.3 | -15.4 | 4.7 | |
| Gender - Female | 1,395 | 1,860 | 1,256 | 4,983 | 1,096 | 2,023 | 1,015 | 1,384 | 1,599 | 272 | 16,883 | 29.7% |
| change to avg. journey time | -21.0 | 17.1 | 46.9 | 28.6 | 24.5 | -43.3 | -36.2 | -49.0 | 30.3 | -13.9 | 4.9 | |
| IMD 1&2 (most deprived 40%) | 615 | 957 | 713 | 1,919 | 721 | 1,931 | 1,387 | 1,394 | 652 | | 10,289 | 18.1% |
| change to avg. journey time | -27.5 | 9.3 | 48.3 | 26.1 | 19.7 | -48.4 | -34.0 | -42.1 | 40.5 | | -8.0 | |



Option C1/2 – Non-Complex Planned Care Activity retained at SaTH (public transport)









Option C1 Women's & Children's [C2 as for A/B]



Option C1 – Women's & Children's Activity retained at SaTH (car/ambulance)

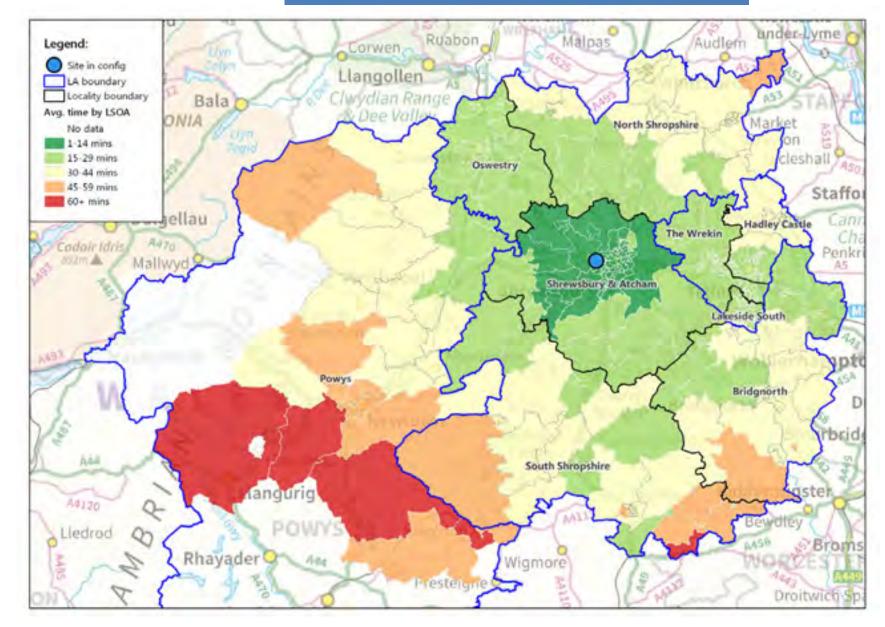


| | Locality | | | | | | | | | All jou | irnove | |
|--|-------------|---------------------|-------------|------------------------|---------------------|------------------|-------------------|------------|-------|-------------|---------|----------|
| | | | Shropshire | | | | Telford | | Powys | | All jot | ii iieys |
| Impact factor | Bridgnorth | North Shropshire | Oswestry | Shrewsbury & Atcham | South Shropshire | Hadley Castle | Lakeside South | The Wrekin | Powys | Out of Area | n | % of all |
| Total baseline journeys | 1,725 | 2,190 | 960 | 4,452 | 1,025 | 3,521 | 2,441 | 2,820 | 1,354 | 1,039 | 21,527 | 100.0% |
| Baseline avg. time (mins) | 22.4 | 28.4 | 35.5 | 20.8 | 42.2 | 11.2 | 13.7 | 8.7 | 53.3 | 12.5 | 21.1 | |
| Option C1 avg. time (mins) | 31.9 | 33.5 | 21.0 | 11.4 | 35.1 | 26.5 | 26.8 | 22.7 | 37.5 | 15.9 | 24.4 | |
| Journeys displaced to RSH | 1,551 | 1,986 | 692 | 3,469 | 801 | 3,404 | 2,356 | 2,695 | 1,070 | 337 | 18,361 | 85.3% |
| Change to avg. journey time (mins) | 10.6 | 5.6 | -20.1 | -12.1 | -9.0 | 15.8 | 13.6 | 14.6 | -20.0 | 10.6 | 3.9 | |
| Displaced avg. time (mins) | 35.1 | 34.6 | 25.1 | 11.6 | 39.9 | 27.1 | 27.5 | 23.4 | 40.1 | 47.2 | 26.8 | |
| Patients living nearer to an alternative site than RSH | 1,203 | 1,208 | 445 | | 331 | 422 | | | 34 | 335 | 3,978 | 18.5% |
| Option C1 avg. time (mins) if alternative chosen | 28.0 | 28.8 | 19.1 | | 32.0 | 25.8 | | | 37.4 | 7.9 | 22.9 | |
| Displaced patients in protected | | | | | | | | | | | | |
| groups | 24 | 1.4 | 10 | 34 | 7 | 17 | 16 | 1.4 | 10 | 1 | 147 | 0.7% |
| Age - 75+ change to avg. journey time | 24 | 14 5.6 | -20.2 | -13.7 | 7 -8.6 | 16.2 | 13.7 | 14 15.7 | -20.2 | 1 12.8 | 1.0 | 0.7% |
| Age - Pre-school | 11.0 680 | 829 | 261 | 1,439 | -8.6 327 | 1,504 | 992 | 1,153 | 365 | 136 | 7,686 | 35.7% |
| change to avg. journey time | 10.4 | 5.9 | -20.1 | -11.7 | -8.8 | 1,504 | 13.6 | 1,153 | -19.9 | 11.2 | 4.6 | 33.7% |
| BME groups | | 200 | -20.1 91 | 375 | -8.8 81 | 762 | 313 | 662 | 128 | 67 | 2,809 | 13.0% |
| change to avg. journey time | 11.1 | 6.8 | -20.1 | -13.1 | -7.2 | 16.5 | 13.6 | 14.9 | -20.1 | 12.5 | 7.3 | 13.0% |
| Gender - Male | 514 | 603 | 191 | 959 | 242 | 1,006 | 642 | 792 | 331 | 91 | 5,371 | 25.0% |
| change to avg. journey time | 10.5 | 5.9 | -20.1 | -12.1 | -9.0 | 15.8 | 13.6 | 14.5 | -20.0 | 9.4 | 4.0 | 23.076 |
| Gender - Female | 1,037 | 1,383 | 501 | 2,510 | 559 | 2,398 | 1,714 | 1,903 | 739 | 246 | 12,990 | 60.3% |
| change to avg. journey time | 10.6 | 5.4 | -20.1 | -12.1 | -9.0 | 15.8 | 13.6 | 14.7 | -19.9 | 11.0 | 3.9 | 00.570 |
| IMD 1&2 (most deprived 40%) | 351 | 545 | 230 | 921 | 285 | 1,891 | 1,651 | 1,806 | 206 | 11.0 | 7,886 | 36.6% |
| change to avg. journey time | 10.9 | 8.6 | -20.2 | -9.9 | -6.3 | 16.1 | 13.7 | 14.0 | -20.0 | | 8.5 | |



Option C1 – Women's & Children's Activity retained at SaTH (car/ambulance)







Option C1 – Women's & Children's Activity retained at SaTH (public transport)

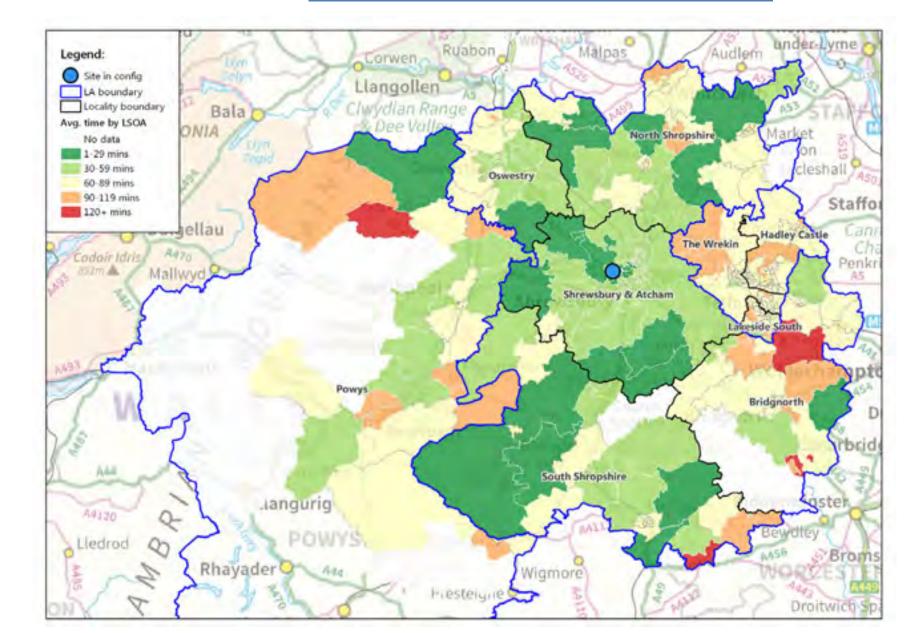


| | | | | | Loca | ality | | | | | All jou | rnove |
|--|------------|---------------------|------------|------------------------|---------------------|------------------|-------------------|------------|-------|-------------|---------|----------|
| | | | Shropshire | | | | Telford | | Powys | | All jou | ппеуз |
| Impact factor | Bridgnorth | North Shropshire | Oswestry | Shrewsbury & Atcham | South Shropshire | Hadley Castle | Lakeside South | The Wrekin | Powys | Out of Area | n | % of all |
| Total baseline journeys | 1,715 | 2,179 | 946 | 4,416 | 1,025 | 3,487 | 2,319 | 2,776 | 1,353 | 1,036 | 21,252 | 100.0% |
| Baseline avg. time (mins) | 60.4 | 73.3 | 85.9 | 58.7 | 71.5 | 41.2 | 48.0 | 30.5 | 87.9 | 30.7 | 54.9 | |
| Option C1 avg. time (mins) | 77.5 | 65.9 | 53.5 | 37.7 | 54.5 | 82.3 | 83.0 | 76.0 | 70.9 | 34.7 | 64.5 | |
| Journeys displaced to RSH | 1,312 | 1,682 | 652 | 3,284 | 631 | 3,337 | 2,230 | 2,643 | 863 | 247 | 16,881 | 79.4% |
| Change to avg. journey time (mins) | 22.2 | -9.6 | -47.0 | -28.2 | -27.7 | 42.9 | 36.4 | 47.8 | -26.7 | 16.9 | 12.1 | |
| Displaced avg. time (mins) | 99.9 | 79.2 | 66.8 | 40.4 | 77.5 | 85.1 | 85.5 | 78.6 | 94.4 | 140.3 | 76.3 | |
| Patients living nearer to an alternative site than RSH | 1,139 | 649 | 140 | | 388 | 3,012 | 610 | 1,552 | 61 | 243 | 7,794 | 36.7% |
| Option C1 avg. time (mins) if alternative chosen | 60.3 | 60.9 | 50.4 | | 45.8 | 73.5 | 82.7 | 72.1 | 70.0 | 14.5 | 59.1 | |
| Displaced patients in protected | | | | | | | | | | | | |
| groups | | | | | | | | | | | | |
| Age - 75+ | 21 | 10 | 10 | 34 | 6 | 17 | 12 | 14 | 7 | 1 | 132 | 0.6% |
| change to avg. journey time | 22.9 | -11.0 | -46.9 | -29.3 | -27.9 | 47.8 | 33.4 | 49.8 | -41.6 | 50.7 | 3.1 | |
| Age - Pre-school | 539 | 733 | 249 | 1,362 | 262 | 1,479 | 936 | 1,132 | 311 | 106 | 7,109 | 33.5% |
| change to avg. journey time | 21.6 | -8.8 | -48.0 | -27.7 | -27.5 | 43.5 | 36.3 | 47.5 | -26.5 | 18.3 | 13.2 | |
| BME groups | 114 | 166 | 84 | 368 | 66 | 751 | 301 | 649 | 106 | 56 | 2,661 | 12.5% |
| change to avg. journey time | 24.4 | -12.4 | -45.9 | -29.2 | -26.2 | 47.6 | 36.5 | 45.9 | -21.1 | 21.4 | 22.5 | |
| Gender - Male | 400 | 520 | 175 | 910 | 187 | 994 | 601 | 779 | 280 | 63 | 4,909 | 23.1% |
| change to avg. journey time | 22.1 | -6.9 | -48.8 | -28.3 | -27.2 | 43.2 | 35.9 | 47.5 | -27.2 | 18.4 | 12.4 | |
| Gender - Female | 912 | 1,162 | 477 | 2,374 | 444 | 2,343 | 1,629 | 1,864 | 583 | 184 | 11,972 | 56.3% |
| change to avg. journey time | 22.2 | -10.8 | -46.4 | -28.1 | -27.9 | 42.8 | 36.6 | 48.0 | -26.5 | 16.4 | 12.0 | |
| IMD 1&2 (most deprived 40%) | 345 | 484 | 227 | 886 | 222 | 1,867 | 1,575 | 1,775 | 139 | | 7,520 | 35.4% |
| change to avg. journey time | 26.5 | -3.5 | -47.4 | -25.6 | -27.7 | 47.3 | 33.0 | 42.7 | -35.1 | | 23.8 | |



Option C1 – Women's & Children's Activity retained at SaTH (public transport)

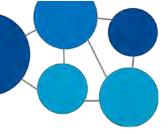








futurefit Shaping healthcare together



APPENDIX E - External Clinical Review of Option C2

- i) SaTH Clinical Report
- ii) External Clinical Review

IN CONFIDENCE

The Shrewsbury and Telford Hospital NHS Trust

Future Fit Clinical Model - Option C2

Purpose of this paper

As part of an external clinical review of Option C2, the Trust has been asked to provide the clinical view of Option C2. This view is from the perspective of clinicians and support teams currently delivering acute services within the Trust. This group of professionals and staff are also responsible for the development and delivery of the future acute model of care, of which C2 is one of four options.

This paper sets out a review of Option C2 undertaken by senior clinicians (nursing, midwifery and medical) within the Women and Children's Service. It has been developed in partnership and with input from clinical colleagues from all Care Groups within the organisation and has been written and developed over time through detailed discussion and debate.

In these discussions, teams have been challenged to give due consideration of what would need to be in place to 'make C2 happen'. This is set out within the paper.

The clinical body, without exception, within the Trust have drawn the conclusion based on evidence, discussion and consideration of scenarios that Option C2 cannot be delivered; that it is not safe or sustainable and would put patients, especially babies and children at risk.

Latest position

In the development and production of the Outline Business Case, Option C2 will be worked up, set out and detailed in the same way as the other three options: Do Nothing; Option B; and Option C1.

The Trust remains on plan to submit the draft Outline Business Case to the private session of the SaTH Trust Board in September 2016.

Option C2 Clinical Review Document

1. Introduction

Women and Children's Services at the Shrewsbury and Telford Hospital Trust (SaTH) reconfigured in September 2014 and moved into the purpose built Women and Children's Centre at the Princess Royal Hospital (PRH). This reconfiguration changed the site of the inpatient Gynaecology, Obstetric and Neonatal facilities and combined the two Paediatric inpatient facilities on one site. The paediatric unit is now the 10th largest in the country. The reconfiguration, sponsored and supported by both CCGs, was driven by estate issues at the Royal Shrewsbury Hospital (RSH) and a pressing clinical need to resolve the medical staffing issues surrounding duplication of Paediatric services across the two hospital sites.

During the final stages of the implementation of the reconfiguration of Women and Children's Services in 2014, the Future Fit programme was established. This started the vital discussion on how health care services can be better planned and delivered in the county. At this time, the Trust agreed to put on hold the final elements of the Women and Children's reconfiguration and specifically the development of new facilities for the Women and Children's Services remaining at RSH. This meant a delay in the final implementation of the schemes approved within the Full Business Case: Children's Outpatients; Children's Assessment Unit; Obstetric Outpatients; and Midwifery Led Unit.

Following the Future Fit appraisal process in September 2015, the Trust was asked by the Future Fit Programme Board to develop a Strategic Outline Case (SOC) to deliver a solution that would address the workforce challenges within the Trust's Emergency Departments, Critical Care Units and Acute Medical services.

In line with the Future Fit Programme, four options were included in the SOC:

- Do Nothing
- Option B Emergency Site at PRH (including Women and Children's)
- Option C1 Emergency Site at RSH (including Women and Children's)
- Option C2 Emergency Site at RSH; Women and Children's remains at PRH

There have been detailed clinical discussions in relation to Options B and C1 within the Women and Children's Care Group. No overpowering argument has been put forward that favours one of these options over the other, although there are demographic advantages of the Emergency Site being PRH; recognising that this would result in increased travel times for patients predominantly on the West of the County.

The C2 option has created much debate and discussion amongst the professional groups within SaTH responsible for the delivery of care. Since it was proposed as part of the Future Fit Programme many clinicians within the organisation have disregarded it as a viable option on the grounds of safety and deliverability. These discussions have progressed into formal meetings with the various clinical teams and an appraisal of this option in relation to quality, safety and deliverability has taken place.

This paper will provide an objective account of the impact C2 would have on Women and Children's Services, Emergency Services and other departments and specialties within the Trust supporting Women and Children's Services.

2. Background

The Women and Children's Centre at PRH consists of a Local Neonatal Unit (Level 2), Children's Inpatients, Children's Assessment Unit, Antenatal Ward, Postnatal Ward, a Consultant-led Delivery Suite, a Gynaecological Ward and Women's Services (Ambulatory Gynaecology Care; Early Pregnancy etc). There is also a Children's Assessment Service at RSH which is open 9am-10pm Monday to Friday. There is a Midwifery Led Unit with post natal beds.

Currently, acutely ill women and children are accepted on both sites via the Emergency Departments and the Children's Assessment Units; however, following the move of Women and Children's inpatient Services to PRH and pathway development with the ambulance services in conjunction with triage coordinated through the Care Coordination Centre fewer children, neonates, and obstetric and gynaecology patients are directed to RSH. Indeed public knowledge of services has also resulted in more patients choosing to go directly to the PRH Emergency Department where the full specialist teams, equipment and facilities await them.

The points set out below are those identified and agreed in the internal multi professional discussions:

3. Impact of C2 on Quality and Safety for Paediatrics and Neonates

3.1 Paediatric and Neonatal Emergency Support to ED at RSH

3.1.1 Acute care to children in RSH A&E - Skills and Staff

Separation of inpatient services from Emergency Medicine creates the potential of competency deficiencies for acute Paediatric and Neonatal Care¹. It has been the experience since September 2014 that it has not been possible to maintain adequate training and skills in paediatric and newborn resuscitation for A&E staff to treat critically ill and injured children and neonates. Training plans are in place but challenging staffing levels and arrangements in A&E make reliable comprehensive delivery of training and skill maintenance a continued challenge. Patient safety is maintained by a 24/7 non-resident consultant paediatrician.

In Option C2 with the complete separation of all Emergency Medicine (EM) services from Inpatient Paediatric Services and staff and with a much greater number of paediatric attendances 24/7 it is clear that Emergency Medicine will not be able to provide the key skill sets for the attending critically ill and injured children. Specific paediatric support would therefore be required for the Emergency Department and Trauma Unit at RSH². Managing a seriously unwell or critically injured child in these circumstances will require a full 3 tier paediatric team with appropriate nursing support at the Emergency Site (RSH). Even with this level of support there will also be no timely neonatal support to patients arriving at the RSH ED. This will increase the risk of poor clinical outcome for babies.

Please see Appendix A.

3.1.2 Facilities

The 30,000 paediatric ED attendances per annum would require adequate beds/ward space to accommodate their immediate clinical demands and on-going care. As acute surgery (abdominal, trauma, ophthalmology, head and neck etc) will be based at RSH and the Paediatric inpatient beds will be at PRH, Option C2 creates the need for a staffed (paediatric medical/nursing) paediatric surgical bed base at RSH or the development of a rapid transfer service with appropriate surgical (abdominal, trauma, ophthalmology, head and neck) staff (largely medical) 24/7 at PRH.

3.2 Paediatric and Neonatal transfer/transport

3.2.1 Internal transfer: site to site

Option C2 will require critically ill and injured children once stabilised in EM to be transferred from RSH to PRH.

Page 3

¹ Royal College of Paediatrics and Child Health, National Recommendations – Best practice that directs patients to the right care, first time; and delivery of 7 day services, 24/7

² West Midlands Quality Review, Care of Critically III and Injured Children in the West Midlands, December 2013

There would be significant number of high-dependency paediatric patients transferring from RSH ED to PRH. Such transfers are known to carry an additional risk to the patient and are difficult to implement.

Safe delivery of transfer of critically ill and injured children would require development of a new SaTH paediatric retrieval team with appropriate medical and nursing staff, with appropriate additional rotas.

These HDU transfers would be part of a new transfer need which would include all paediatric patients considered by EM to require inpatient hospital admission.

The process of transfer to the inpatient unit at PRH will result in inherent time delays for patients presenting to RSH ED before transfer to the paediatric inpatient site for definitive care.

In conjunction with a site to site Paediatric transfer service there would need to be a neonatal stabilisation and transport retrieval service again requiring the appropriate staff for this and in view of the complexity of these transfers it is considered that a separate rota for Consultants/Neonatal Nurse Practitioners and Neonatal Nurses would need to be developed. The current good-will model carries an inherent risk and is fragile. The retrieval service (now combined Paediatric and Neonates) will not support intra-hospital transfers.

3.2.2 External

KIDS (Birmingham Children's Hospital Intensive Care) retrieval team collect paediatric patients admitted to SaTH requiring Paediatric Intensive Care Unit (PICU) admission. However, patients require access to local anaesthetic and paediatric staff and a Critical Care Unit (CCU) to initiate and maintain airway and breathing support until they arrive. The KIDS arrival can be subject to delays of 4-8 hours, especially during the winter months.

The local team (paediatrics and anaesthetics) is utilised for keeping these patients safe until the KIDS team arrive.

In Option C2, the majority of paediatric patients requiring this service (local stabilisation followed by transfer) are likely to present at the main ED at RSH but this group of patients will also include patients at the PRH main inpatient unit.

Both sites would therefore require skilled consultant anaesthetic & CCU support able to respond to these paediatric emergencies. This dual requirement is current within the SATH set up but there is grave concern over the sustainability of the maintenance of anaesthetic skills on the non-inpatient site (RSH) in the longer term.

3.3 Paediatric and Neonatal trainees

There is a high risk of losing trainees in option C2 as their time in a recognised training unit (PRH) covering Paediatrics and Neonates will exclude experience of acutely unwell paediatric and neonatal patients who arrive in the ED at RSH. Examples include:

- status epilepticus
- respiratory and cardiac arrests
- severe asthma
- trauma
- head injury
- sudden unexpected death in infancy (SUDI)
- severe physical and sexual non-accidental injury.

Rotation between sites would require considerable tier 2 work force expansion and there is a national absence of suitable candidates.

Support and approval of this model by the RCPCH has not yet been sought. Concerns regarding sustainability; specialty separation; and an inability to provide and sustain tier 2 support 24/7 across the two sites are likely to impact on their position. If training posts were considered unsuitable there would be a loss of trainees within the county making the current paediatric services unsustainable. In addition the projected number of speciality trainee numbers in the future is highly likely to decrease.

3.4 Anaesthetic support for paediatric emergencies

Having the main inpatient paediatric unit at PRH and 30,000 paediatric ED attendances at RSH would result in a requirement for 24/7 paediatric anaesthetic support on both sites as described above. This would require a full time rota of anaesthetists with competences and confidence in managing children on both sites. They will need regular exposure to paediatric lists in order to maintain their skills and competencies. This is currently not sustainable due to capacity challenges within the anaesthetist workforce.

The Centre for Workforce Intelligence (CFWI) undertook an in depth review on the anaesthetic and Intensive Care Medicine (ICM) workforce. The review focused on fully trained anaesthetists and ICM specialists who hold a certificate of completion of training ('CCT holders'), and typically are employed as consultants. This review suggested there is a significant future risk to the supply of anaesthetist and intensivist CCT holders with impact on all middle and training grades. It is therefore envisaged that this problem would only worsen in the future with Option C2.

3.5 Effects on other services within Option C2

3.5.1 Trauma

There is a risk that patients will self-present at the W&C Unit with the expectation that they can be treated for trauma. Therefore, trauma services would need to support both sites 24/7 as there is the likelihood that patients will be attending both sites.

3.5.2 Abdominal, Urological and General Surgery

There is currently considerable difficulty in staffing and safely sustaining on site surgical support for paediatrics at PRH with the surgical inpatient base at RSH. Currently there is speciality presence 0900-1700 Monday to Friday but delivery of acute abdominal surgery to children out of hours already presents considerable challenges and puts at risk the surgical centre at RSH. This matter will continue with C2.

3.5.3 Head and Neck and Ophthalmology

Head and Neck and Ophthalmology will be required to provide emergency cover for both sites (RSH/PRH) within a workforce that is not sufficient for this dual service

3.5.4 Pathology and Blood Transfusion Services

Blood bank would need to be located at the main emergency ED site at RSH and at the PRH site (support of paediatric oncology and obstetrics predominantly). This currently produces extremely challenging workforce issues which would be perpetuated with a workforce with considerable recruitment challenges.

3.5.5 Radiology and Imaging

There will be a requirement to have contrast/interventional radiology and urgent paediatric/neonatal radiology expertise on both sites.

3.6 Recruitment and retention of medical and nursing staff

Recruitment within all disciplines of paediatrics and neonates is currently challenging except at consultant level. This concurs with the information available from medical workforce planning within West Midlands Deanery; there will continue to be challenges at middle and training grades. Option C2, with the potential for split site care would require workforce expansion which would not be met within current provision within the West Midlands and it is believed by the professional body that SaTH would be less likely to attract candidates in both nursing and medical professions at all grades when considering the model of care delivered by C2.

Having the 10th largest paediatric service in the country following 2014 reconfiguration has provided an opportunity to appoint consultants, although currently nursing staff have been difficult to appoint to template; it is believed that this advantage in consultant recruitment will be lost.

The potential for the RCPCH to not support this model would result in inability to provide and sustain tier 2 support 24/7 across the 2 sites.

3.7 Conclusion

The consultant body do not feel Option C2 is achievable or sustainable with the inability to recruit the required expanded work force within a split site option. The consultant body believe that C2 offers too many challenges to the provision of effective and safe services, in relation to having the right clinical skills in the right place to ensure children are cared for in line with best practice and guidance to deliver the best possible outcome for children. These challenges are not only to the specialists in paediatrics but also other specialities involved in the care of children and the new born.

4. Obstetrics, adjacencies and Critical Care

Building on work done at Liverpool Women's Hospital, the clinical community recognised the essential immediate clinical adjacencies of a Consultant Obstetric service; these are:

- gynaecology
- neonatology
- · obstetric anaesthesia
- staffed obstetric theatre (option for x2)
- level 2 adult HDU
- level 3 Adult ITU
- emergency medicine
- haematology and blood transfusion
- microbiology
- non obstetric ultra sound
- radiology (with access to intervention radiology)
- acute medicine; and resuscitation services
- the obstetric service would require access to the full suite of speciality medicine and abdominal surgery within 1 hour.

4.1 Specialty and service links

4.1.1 Support Services

The clinical working groups within SaTH recognised that C2 creates significant issues for the staffing of an appropriate 24/7 pathology and blood transfusion service on two sites³. The Trust is already experiencing significant challenge in recruiting to current vacancies and has already embraced development of innovative employment and training packages to support service delivery. However, there is no further capacity to increase our internal opportunities to grow our own workforce; C2 would instigate further fragility to the service.

Acute CT, MRI, Ultrasound imaging is required by obstetrics with the infrequent need for intervention radiology. C2 will therefore put specific pressure on radiology staffing to supply appropriate care on 2 sites.

4.1.2 Surgery and Medicine

The requirements of obstetric patients of medical and surgical services would create significant workforce pressures. If there is to be appropriate and timely attendance to the obstetric patients (PRH) then rotas would need to be constructed to supply this support without putting patients at risk at the EM site (RSH).

³ Care Quality Commission Core Standards, Co-location of a transfusion laboratory

4.1.3 Emergency Medicine

The obstetric link with ED is small, but the critically ill or injured obstetric patient does create significant complexity for an ED distant from a maternity unit or neonatal unit as delivery (usually immediate Caesarean section) forms part of adult resuscitation. This scenario also presents ED with the on-going care of a neonate (who will often be preterm). There will be the requirement of skills to undertake a caesarean section as well as neonatal resuscitation. As with the paediatric/neonatal support to ED model there will need to be a staffed retrieval team attending from PRH for the neonate and the mother.

4.1.4 Critical Care

The link with Critical Care and Critical Care outreach is identified as key to a safe Obstetric service⁴.

On occasions there is the need for women pre- and post-delivery to require immediate and longer term critical care support. Women admitted onto the Consultant-led Delivery Suite may have a number of co-morbidities that make them a high risk patient, requiring critical care outreach support but their obstetric needs determine the site where care is delivered with a key relationship between obstetric anaesthesia and critical care. Critical care admission numbers are therefore not a marker of Critical Care need.

In Option C2, for the Obstetric Unit there will need to be on site critical care support to PRH⁵.

An alternative model may be having no critical care support but with a retrieval service from RSH to Obstetric and all other inpatients who may be at low risk of needing Level 2 or 3 care. However women requiring critical care both directly and from outreach support whilst they have acute obstetric needs will need to remain at PRH and this creates a staffing issue where critical care retrieval does not solve the problem.

In order to deliver critical care using a retrieval model, mothers would need to be stabilised and transferred to the Critical Care Unit at RSH. The patient would still have on-going obstetric care needs at RSH with no on site Obstetric or Neonatal support. Furthermore if she had already been delivered when her critical care needs were identified, it is likely that her baby would be on the Neonatal Unit at PRH and therefore on a different site to the mother, creating problems of separation from family and baby. Please see Appendix B.

4.1.5 Theatre staffing

Overnight theatre staffing with attendance within 10 minutes for the 2 obstetric theatres without the ability to share with other emergency systems (as is currently the process in PRH) will produce considerable theatre staffing pressures for the obstetric unit aligned with a treatment centre.

⁴ Care Quality Commission Core Standards, Access to Level 3 Critical Care

⁵ Liverpool Women's Hospital – essential clinical adjacency matrix

4.1.6 Recruitment

Midwives and Obstetricians have strongly indicated they would feel isolated with their patients vulnerable to delayed and poor care. This is likely to result in recruitment and retention issues.

4.2 Conclusion

The midwifery and medical professional clinical body within SaTH do not consider option C2 to be deliverable or sustainable for effective and safe consultant obstetric practice.

5. Mitigation to deliver a clinically safe C2

In order to reduce some of the risk to patients, the following mitigating actions could be taken:

5.1 Mitigation model 1 for Paediatrics

Revert back to having two paediatric inpatient units on each site, both able to deliver initiation of paediatric intensive care, stabilisation and ongoing high-dependency level support. This would work against the CCG sponsored reconfiguration of 2014 supported by the RCPCH and would maintain the pressure on acute anaesthetic and critical care services for both sites which the Sustainable Services Programme is tasked to resolve.

This would result in the loss of the benefits of the first reconfiguration which includes:

- comprehensive paediatric specialty provision for patients
- stable medical workforce
- reduced length of stay
- consultant presence for emergencies in line with 7/7 working and immediate access to resident consultant opinion during the peak activity hours for critically ill children – 7 days a week

The two units would require resident staff with RCPCH level 2 competencies covering 24/7 (middle grade or Consultant) as well as tier 1 staff and non-resident consultant cover. Meeting the need for resident staff with these competencies will mean an increase in Consultant numbers due to the limitations set by the college on training numbers and unavailability of non-training grades senior posts.

To cover RSH 24/7 at tier 2 level we would need at least an additional 5 WTEs on the tier 2 rota, who are likely resident consultants. Based on current recruitment challenges it is thought that this would be unachievable at trainee/SAS level and would result in a return to previous consultant recruitment problems.

Recruitment of the number of nursing staff with appropriate skills required for a second paediatric ward would also be challenging. Development and maintenance of HDU skills would not be feasible due to inadequate throughput of patients on each site. The service would need at least 2 x trained nurses overnight at RSH and 1 x Advanced Paediatric Nurse Practitioner (APNP). This would equate to an additional 7.2 WTE nurses and 4 APNPs (as a minimum).

The specialty support required on each site is given in the table in Appendix D.

This does not resolve the issues of **obstetrics and critical care**.

5.2 Mitigation model 2:

Develop a paediatric ED at PRH and not accept children to the RSH site. This is not thought to be possible because this would require the professional and workforce infrastructure needed for an emergency department as well as:

- ED consultants and medical staff
- ED nursing staff with paediatric training
- resident Anaesthetic team with paediatric skill
- resident trauma team
- resident surgical team
- blood transfusion, full blood chemistry and haematology service

The majority of ED attendances are with injury and therefore even though paediatric illness could be managed, the injury workload could not be accommodated by a purely paediatric led service; therefore additional support in these areas would also be required on the PRH site.

This does not resolve the issues of obstetrics and critical care.

5.3 Deliverability

If the mitigating actions are implemented under mitigation models 1 and 2 there is still the question as to whether or not it is deliverable within the current health economy. There are two key elements that impact on deliverability which are workforce and finance.

5.3.1 Workforce

The inability to cover 2 ED sites currently makes mitigation model 2 unlikely. It would require full ED, surgical and anaesthetic support on both sites. It is acknowledged that there is a high turnover of paediatric patients through ED accounting for 25-30% of A&E attendances. The creation of one ED for children would require appointment of an Emergency Medicine Consultant with an interest in paediatrics, but not a full rota of Paediatric ED doctors.

It has to be acknowledged that taking the Paediatric ED attendances away from the main ED would make the one large ED unsustainable as a training unit due to no paediatrics going to the site. Therefore, the loss of trainees would impact on the workforce.

As previously mentioned in section 3.3, there is a high risk of losing paediatric trainees as their time in SaTH would exclude experience of acutely unwell paediatric & neonatal patients who arrive in ED, which is a vital part of their training programme. The loss of trainees within the county would make our current paediatric services unsustainable and have a further impact on our ability to recruit in the future.

Recruitment and retention of staff within all disciplines of paediatrics is currently challenging. This model with split site care would make SaTH less likely to attract the candidates we would wish to recruit in both nursing and medical staff at all grades.

Given projected contraction in trainee numbers and dwindling Associate Specialist /Specialty Doctor workforce there is a concern that trainees in paediatrics are falling in number with fewer available for consultant appointment; those remaining are more likely to choose a job non-resident overnight so recruitment to a resident post is likely to be poor.

Appointment of tier 2 doctors has been problematic and is increasingly so, with the loss of the Associate Specialist grade and lack of specialty doctors. Paediatrics currently has approximately 30% of tier 2 daytime shifts covered by locum consultants. Therefore, it is likely that this cover will have to be provided by resident consultants overnight.

The C2 model of services is likely to further reduce the attractiveness of working in the ED and the Women and Children's Centre, putting the retention of the current workforce at risk.

Sustaining on site surgical support for paediatrics at PRH is a challenge now and will continue.

The high possibility of non-approval of Option C2 by the RCPCH, due to unsustainability and an inability to provide and sustain tier 2 support 24/7 across the 2 sites.

5.3.2 Financial Impact

If the workforce is available, the cost implications for the workforce alone are approximately £6.5 million recurring. This does not take into account the additional equipment and facilities required should a second paediatric unit be provided at RSH. Due to the current health economy's financial position it is unlikely that this would be available.

6. Concluding Residual Risk

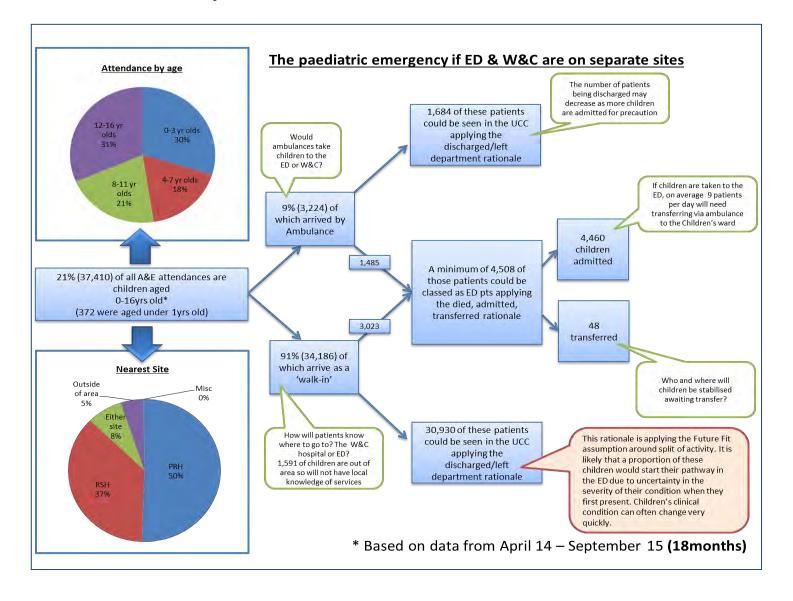
There are a number of high risks identified that would have a potentially grave impact on the safety and quality of services for patients. The mitigating actions that have been explored require large additional investment in the workforce and infrastructure.

The principle aim of the Future Fit and the Trust's Sustainable Services Programme is to address issues within the Emergency Department and Critical Care due to a historic issue. The mitigating actions would further exacerbate the very issues the SSP is trying to address; therefore suggesting the mitigating actions would be undeliverable.

Without the mitigating actions there remains a severe risk to the quality and safety of services for patients and has the potential to destabilise Women and Children's Services in the county.

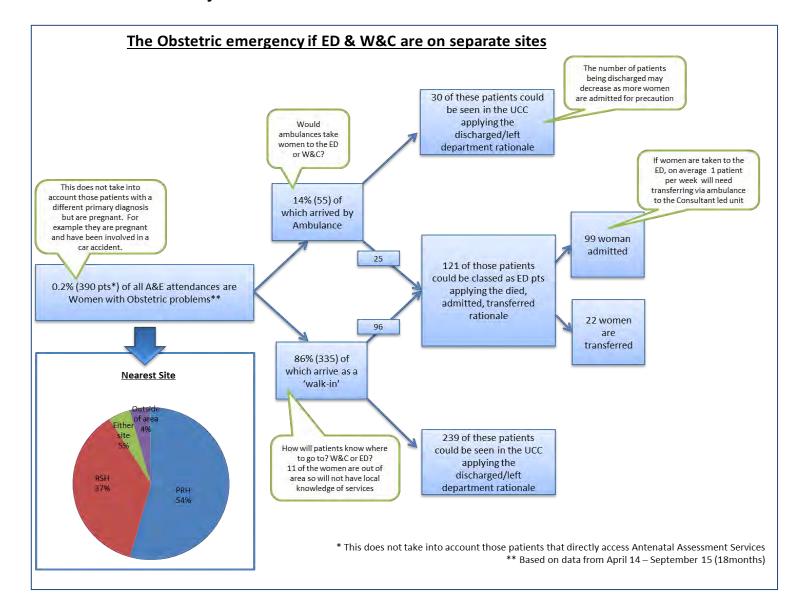
Appendix A:

Paediatric activity

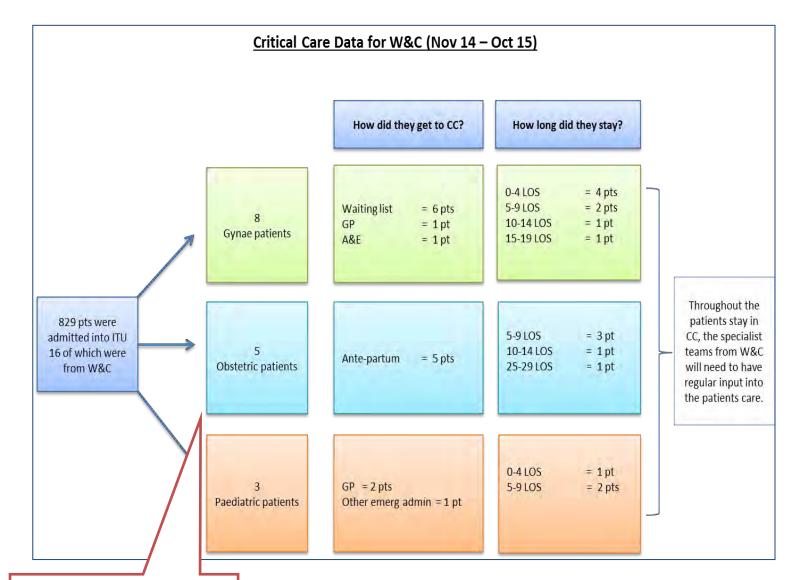


Appendix B:

Obstetric activity



Appendix C Women and Children's Critical Care Unit admissions



N.B. This is in addition to the women who are supported by the Critical Care Team on an outreach basis whilst staying on the Consultant led Obstetric unit.

Appendix D

Speciality support required on each site under mitigation model

| RSH site Paediatric Ward | PRH site Paediatric Ward |
|---|---|
| Emergency medicine | - |
| ENT | ENT |
| Surgery | Surgery |
| Pathology | Pathology |
| Trauma | - |
| Blood bank | Blood bank |
| Radiology incl CT & USS | Radiology incl CT & USS |
| HDU | HDU |
| Neonatal support | Neonatal Unit |
| HDU nurses | HDU nurses |
| EPLS trained nurses | EPLS trained nurses |
| Paediatric nurses | Paediatric nurses |
| T2 level competencies Consultant resident | T2 trainees/associate specialists/some resident consultant shifts |
| T1 apnps | Tier 1 trainees |
| Therapies & dietetics | Therapies & dietetics |
| Anaesthetic support | Anaesthetic support |









1. Introduction

The NHS Transformation Unit was commissioned to help support the Strategy Unit of the Lancashire and Midlands CSU work with the Shropshire Future Fit programme. This small piece of commissioned work has been undertaken in August 2016.

Recognising the recent development of a Women and Children's Centre at Princess Royal Hospital, Telford (PRH), the Programme Board agreed at the longlisting stage (and confirmed in shortlisting) that the potential to locate consultant-led obstetrics either at the Emergency Centre (EC) or at PRH should be considered as a variant to options which do not locate the Emergency Centre at PRH. Option C2 is the sole remaining variant option.

This paper summarises the findings and conclusions of this initial commission.

We outline below:

- 1) The remit of the work;
- 2) What information we had access to;
- 3) The approach taken and whom we interviewed; and
- 4) Clinical Reference Group Panel key conclusions and recommendations.

2. Remit of the work

We were asked to:

- 1) Conduct an independent clinical review of Option C2 by considering both existing clinical stakeholders' views on the option and providing "critical friend" clinical advice on the feasibility of implementing such an option. In particular, commissioners wish to understand what would be required to make the variant option safe and sustainable, and what evidence there is of such configurations elsewhere.
- 2) Use a Clinical Reference Group Panel of Greater Manchester-based clinicians who have been involved in the development of service reconfiguration options around emergency/urgent care and women's and children's services to review the proposals and provide advice on this option and other options considered so far.
- 3) Conduct an interview programme of the key clinicians who have commented on the service change proposals to date.
- 4) Provide a summary report that could inform your current review process of the service options reconfiguration and what we would advise happens next.

3. Information reviewed

In undertaking the above brief, we have reviewed the following:

- a) Business Case around the Future Fit programme prepared to date;
- b) Option C2 high level option description; and
- c) Option C2 Clinical Review Document prepared by senior clinicians at Shrewsbury and Telford NHS Hospitals Trust (SaTH) which sets out the impact that this option would have on women's and children's services, emergency services and other departments and specialities.





Further information was requested on current clinical workforce and activity levels across the two hospitals associated with emergency services and maternity and children services. Some of this was provided to our team on our site visits to both hospitals.

4. Our Approach

In the short time available, we have undertaken the following activities:

- Convened a group of senior clinical experts from the Greater Manchester area with the professional credibility and independence from SaTH to review all the information and evidence.
- ii. Convened a fact finding session to enable the Project Lead (Jeanette McMillan from the Transformation Unit) to meet key stakeholders and clinical leads and interrogate the brief further and establish key questions for the review panel to answer/address.
- iii. Co-ordinated a half day workshop with the panel to review and discuss the information presented and develop the key conclusions.

We held a number of stakeholder interviews over a two day period as outlined in the table below:

Table 1 – Interviewees listing

| Name | Title | | |
|----------------------------|--|--|--|
| Sanjeev Deshpande | Clinical Director for Neonatology, SaTH | | |
| Joe McCloud | Surgery Clinical Director and Deputy Scheduled Care Group | | |
| | Medical Director, SaTH | | |
| Louise Sykes | Anaesthetics, Theatres and Critical Care Clinical Director, SaTH | | |
| Kevin Eardley | Unscheduled Care Group Medical Director, SaTH | | |
| Adrian Marsh | Emergency Medicine Clinical Lead, SaTH | | |
| Jo Leahy | Clinical Chair, Telford & Wrekin CCG | | |
| Maggie Kennerley | Lead Midwife, SaTH | | |
| Andrew Tapp | Women and Children's Care Group Medical Director | | |
| Lynn Atkin | Lead Nurse for Women and Children's Care Group, SaTH | | |
| Shelia Fryer & Mike Taylor | Pathology Centre Manager, SaTH | | |
| Andrew Cowley | Clinical Director for Paediatrics, SaTH | | |
| Sheena Hodgett | Obstetrician, SaTH | | |
| Julian Povey | Shropshire CCG Clinical Chair | | |
| Debbie Vogler | Future Fit Programme Director | | |

Note: Still to be interviewed - Dave Evans, SRO and Accountable Officer for Shropshire County CCG and Telford & Wrekin CCG who returns from leave on 5 September 2016

5. Findings from clinical staff and other stakeholder interviews

The interviews confirmed the overall local clinical assessment that Option C2 would be challenging to implement in its current description given the current location of specific services and concerns about staffing levels, rotas and future training implications. Consultants and clinical staff acknowledge the limitations of workforce, rotas and medical training impacting to varying





degrees, leading to differing opinions as to whether the other site in a concentration of emergency services should be 'warm' or 'cold' in service provision mix. The co-location of children's inpatient service capacity was raised by many as a key requirement for an emergency service option. The key reasons outlined by clinical staff supporting the co-location of women's and children's services with emergency services were articulated as:

- Reduction in clinical risk and improved patient outcomes;
- Clinical co dependencies and adjacencies to support timely care with the competencies to support good clinical outcomes;
- Stops duplication of services on both sites;
- More effective use of workforce and rotas;
- Enhanced recruitment prospects with the consolidation of higher acuity patients on one site;
- Paediatric anaesthetists available for A&E and surgery;
- o Single neonatal and paediatric service retained;
- Supports 2013 RCPCH Review recommendation that there is only one A&E department;
- Ready access to intensivists for high acuity obstetric patients;
- o Supports key elements of medical training for all specialties;
- Supports Keogh review requiring consultants to give 7 day consultant cover;
- Patients and general public will choose to attend where they understand services to be safest;
- Minimises the number of patient transfers and the need for consultant staff to attend another site in the case of an emergency (distance between PRH and RSH – 18 miles); and
- Will create more opportunities for integration between acute, primary and social care.

The CCG clinical leads expressed the following assessment at the interview:

- a) All the previous options of hot and cold site models had raised financial resource challenges facing the health system;
- b) Concerns around moving away from excellent modern facilities for women's and children's services and the wish not to lose the service benefits associated with modern facilities and consolidation of services;
- c) Adjustments to Option C1 may be raised as part of the consultation process as part of providing a better solution for both populations;
- d) All agreed that the configuration of services should be of high quality, minimise risk where possible, be evidence based and address the drivers for change to ensure that the future services are sustainable; and
- e) Acknowledgement of the need to consider evidence that women's and children's services should be on a single "hot site" alongside lead emergency centre for the local population.

As a result of these interviews and site visits, a number of clarifications were sought re the clinical response to Option C2:

Clarification on why critical care is required to be on both sites*;





- The feasibility of paediatrics covering two sites. Acknowledged there are significant challenges in neonatology covering both sites;
- o Need to consider demographics as well as geography; and
- Clarification on why surgical specialities are required to be on the same site as women's and children's*.

6. Clinical Reference Group Panel

We assembled a group of seven clinicians that reviewed your papers and several convened to formulate this response. All the clinicians have been involved in similar service reconfiguration options both with Greater Manchester work and through experience of other health systems. The group is summarised in the table below:

Table 2 - CRG Panel members

| Name | Role | Organisation |
|--------------------|---------------------------------------|------------------------------------|
| Martin Smith | Clinical Director for Emergency | Salford Royal NHS Foundation Trust |
| (Chair) | Medicine | |
| Steve Jones | Consultant in Emergency and | Central Manchester University |
| | Intensive Care Medicine and Clinical | Hospitals NHS Foundation Trust |
| | Director of Emergency Services | |
| Julie Flaherty | Children's Clinical Lead, Unscheduled | Salford Royal NHS Foundation Trust |
| | Care | |
| Helen Howard | Interim Divisional Director of | Pennine Acute Hospitals NHS Trust |
| | Midwifery | |
| Edwin Clark | Consultant General Surgeon | Stockport NHS Foundation Trust |
| Mark Robinson | Consultant Paediatrician and Clinical | Wrightington, Wigan and Leigh NHS |
| | Director for Child Health | Foundation Trust |
| Christopher Cooper | Consultant Paediatrician and Clinical | Stockport NHS Foundation Trust |
| | Lead for Paediatrics | |
| In attendance: | | |
| Jeanette McMillan | Project Lead | NHS Transformation Unit |
| Paul Wood | Interim Director of Transformation | NHS Transformation Unit |
| Rachel Bevan | Project Manager | NHS Transformation Unit |

7. CRG Panel key findings

The CRG Panel reviewed the Sustainable Service Programme (Final Strategic Outline Case) and 'Option C2 Clinical Review Document' produced by senior clinicians at SaTH. In reviewing what would be required to make the variant Option C2 safe and sustainable. The following issues were highlighted:

- i. <u>Clinical configuration and co locations</u> Both sites as a minimum would be required to have:
 - Level 3 adult ICU;



^{*}see section 8 which responds to these points



- Anaesthetics with capability in both adults and children (critical for ED where children are present);
- Imaging plain x ray, USS, CT and MRI practitioners required on both sites but opportunity for diagnostic reporting to be centralised enabled by image transfer.
 Capability to provide interventional radiology on both sites (practitioners would need to travel between sites);
- Blood transfusion;
- Acute medicine;
- Access to surgery;
- Resuscitation services; and
- Paediatrics. NB Neonates and Paediatrics will need to be sited together
 otherwise dual middle grade rotas or new ways of working with ANNP and ANPs
 are required. However, these new workforce models will only be achievable if
 they do not function in isolation.

From all these services, the critical co-locations were deemed to be paediatrics and ICU.

- ii. Workforce development, sustainability and competencies required to deliver high quality care and clinical outcomes There is a need to demonstrate a sustainable clinical workforce both in WTE and competencies. Having reviewed the current SaTH workforce challenges, the national position and the future availability of medical trainees, the evidence suggested that the probability of achieving and sustaining a clinical workforce to support Option C2 would be very challenging. Consideration should be given to new workforce roles such as associate physicians, assistant practitioners, ANNPs and ANPs. All of these roles would however, require a lengthy lead in time.
- iii. <u>Royal Colleges' Standards</u> Although the scope of work did not include a literature review, the expertise and experience of the Panel was employed to suggest that Option C2 would not meet the necessary standards of the Royal Colleges and CQC issues would be raised.
- iv. Opportunities for integration and future proofing Option C2 does not make reference to integration either with other health services, such as Primary Care services, or with social care services. In the modern health and social care system this is a missed opportunity to integrate services and through doing so improve patient experience and create a more contemporary service. Following on from this, the Panel felt that Option C2 would already be outdated by the time that it had been implemented, meaning that another service reconfiguration would then be needed to cope with future health demands
- v. <u>Evidence of similar configurations elsewhere</u> The evidence base from other health communities/systems indicates that a single emergency centre receiving undifferentiated case mix should ideally have all services including women's and children's services. This is more in line with Option C1 than the Option C2 configuration. The Panel suggested that some of the lessons learnt and service changes that have taken place in the East Lancashire service reconfiguration between Blackburn and Burnley would be useful to consider, including how they have implemented an urgent care service portfolio at the non-emergency centre site that incorporates a well-designed Paediatric Ambulatory Care service model with a supporting workforce model. In this particular case, this has prevented a significant flows of children to the emergency centre site. In addition, this has facilitated the concentration of staffing rotas on the areas of the highest workload.





8. CRG Panel conclusions

- i. The Panel concluded that the need for service change was clearly evident given the current staffing levels across the two hospital sites' A&E services. Option C2 as outlined is, in the Panel's view, unlikely to be clinically deliverable in the next couple of years or foreseeable future. The critical service independencies that the system would need to address with consolidation of A&E services would be:
 - The co-location of paediatrics expertise;
 - Level 3 adult ICU; and
 - Training and accreditation standards.
- ii. The Clinical Reference Group panel was unaware of any standalone women's and children's hospital service with an Emergency Department receiving just women and children. When women are part of a women and children's hospital you need to address their adult needs with a range of specialities. This is different to a standalone paediatric ED which is common but requires significant support from paediatric ED and inpatient paediatric specialists.
- iii. The future clinical service design and delivery models should be innovative, address the forthcoming challenges and be designed to meet the future health standards of 2025 and beyond. Without this approach it is likely that there will be a need for a further service reconfiguration in the short to medium term. It is essential that services are developed collaboratively and are clinically supported.
- iv. Current work on innovative workforce models is required to continue with pace to ensure a sustainable workforce capable of delivering the preferred option. But this is only part of the solution as it needs continued development and support in order to make it a sustainable model. As above this should include newer innovations such as associate physicians, assistant practitioners, ANNPs and ANPs, and recognition of lengthy lead in time for any of these roles to be implemented.

9. CRG Panel recommendations

- 1) We would recommend that your consultation on future options focuses on the hot and extended warmer service site configuration options that provide the opportunity to explore the scale and breath of urgent care services that could be provided on the non-emergency service centre site. As indicated, the Panel advise that you explore some of the East Lancashire service configuration model that achieves compliance with the Royal Colleges' standards and addresses staffing / services model required to minimise the level of patient journeys.
- 2) The Panel would advise exploring further more innovative clinical models of care underpinning a single emergency centre including women's & children's services ("hot site") and an innovative "warm site" with elective surgery, medicine, rehabilitation, ambulatory care, urgent care, community and primary care services.
- 3) Given your resource affordability challenges, we would suggest looking at how you could reduce your total system cost envelope around this option through the integration of those services in each locality, rather than viewing it through one organisation's perspective and the transfer of specific services from one organisation to another.
- 4) In addition, the scale of the emergency services that is considered affordable should be re-examined and it should be considered whether there are options for a shared workforce in certain specialties as part of a larger clinical service provision network.





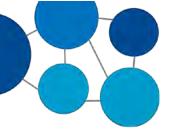
5) All the options you consider should reflect evidence based standards and innovative models of care that are able to meet the challenges of health and social care in 2025 and beyond. In addition, consideration should be given as to what a sustainable and competent clinical workforce looks like for the future and that addresses and meets expected Royal Colleges' Standards, including training.

10. Next Steps

We would welcome the opportunity to discuss this paper further with you and all how we could support your clinical leaders in taking forward your option appraisal and Subsequent preparation for consultation on a range of options .



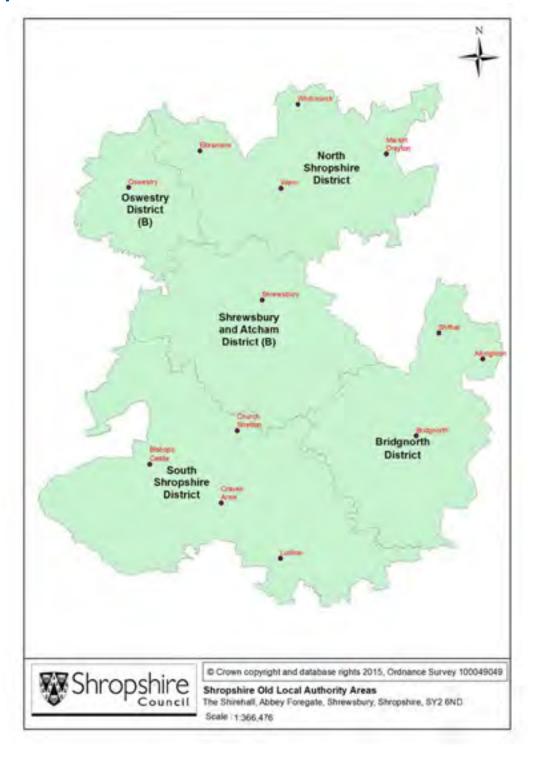


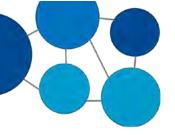


APPENDIX F – Locality Maps

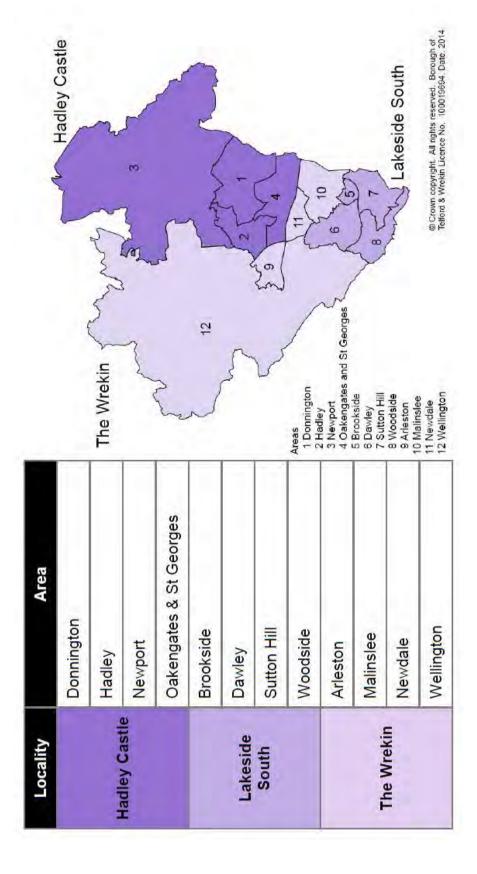
Where possible, evidence has been broken down by nine localities as advised by Local Authorities. The relevant Powys population is treated as a single area since that population is roughly one ninth of the overall programme population.

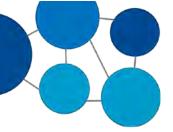
Shropshire



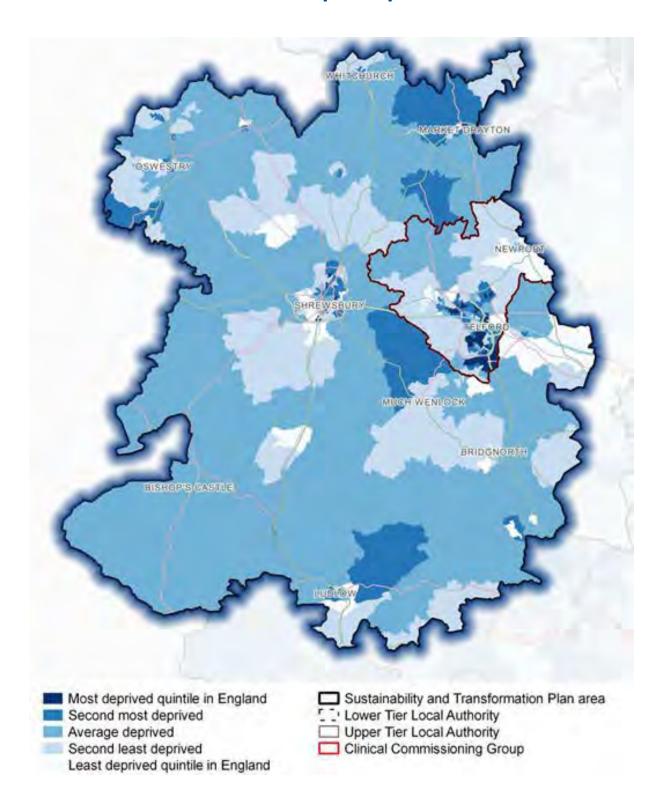


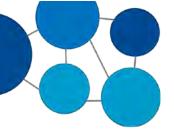
Telford and Wrekin

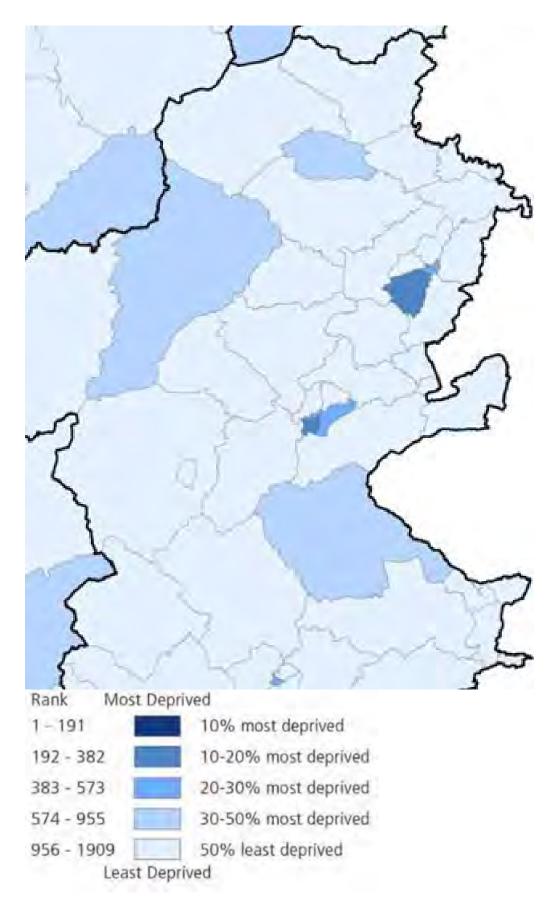


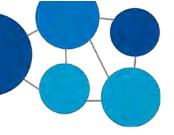


APPENDIX G – Index of Multiple Deprivation









APPENDIX H – Site Plans for Options

Option B – PRH – The Emergency Care Site



Option B – RSH – The Planned Care Site



Option C1 – RSH – The Emergency Care Site



Option C1 – PRH – The Planned Care Site

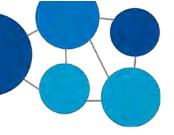


Option C2 – RSH – The Emergency Care Site



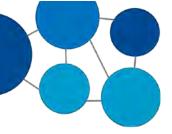
Option C2 – PRH – The Planned Care Site





APPENDIX I – Integrated Impact Assessment

.



APPENDIX J – Report of Telephone Survey





NHS Future Fit Telephone survey 3















Project objectives

- To explore use and reasons for use of acute hospital services by residents across Shropshire, Telford & Wrekin and mid Wales.
- To explore awareness of the NHS Future Fit programme
- To explore the extent to which the general public support the three options presented in the shortlist
- To understand how the general public rate the importance of the four nonfinancial criteria for evaluating the short list of options
- To understand how important the general public thinks cost is in relation to other factors















Questionnaire structure

- Section 1 where in Shropshire, Telford & Wrekin and east Powys is the respondent from
- Section 2 explores the respondents recent experience and usages of hospitals
- Section 3 views on NHS Future Fit proposals for hospital reconfigurations
- Section 4 demographic profiling questions including disability, economic activity and residence
- Section 5 contact details for future engagement















Methodology

- A survey of 2,460 people across Shropshire, Telford & Wrekin and east Powys was conducted during April and May 2016.
- The sample was split equally across 9 geographic areas. The 5 former Shropshire districts, 3 Telford & Wrekin localities and the wards on the eastern boundary of Powys.
- The sample was split by geography, and then by age, gender and ethnicity to create a stratified sample frame. The quotas for each group were representative by the Census data for the 9 areas.
- To ensure characteristics (geography, age, etc.) are not overrepresented quotas are established before the surveying commences. This is known as a stratified sample frame.
- Potential respondents are contacted by telephone using a technique known as Random Digit Dialling (RDD)

















Random Digit Dialling (RDD)

- Potential respondents were telephoned using RDD
- RDD is a recognised research technique used to randomly sample respondents from a given population.
- Telephone numbers are randomly generated by a computer. These are then prefixed with area codes.
- The numbers are telephoned. Respondents are asked if they would like to participate in the telephone survey.
- Screening questions are used to ensure the interviewees meet the strict criteria (geography, age, gender, ethnicity).















Confidence in the results

- The next slides shows the confidence that can be placed in the survey results. The larger the sample, the greater the level of confidence.
- Confidence in the results is shown at the 95% confidence level. This
 means we are 95% sure that the result for a particular question is how the
 entire population would respond if asked the same question.
- The confidence interval is the number of percentage points either side of a result that it could deviate from if the entire population were surveyed. For example, our sample of 2,460 has a confidence interval of 1.97% which means that if 55% answer 'yes' to a question, we can be 95% sure it is accurate between 53.03% and 56.97%













Between 243 and 307 interviews were completed in each area



| | Survey Areas | Population 18+ | No of interviews | 95% Confidence Interval |
|--------------------|--------------------|----------------|------------------|-------------------------------|
| Shropshire | Bridgnorth | 49421 | 243 | 6.27 |
| | North Shropshire | 51617 | 267 | 5.98 |
| | Oswestry | 32594 | 228 | 6.47 |
| | Shrewsbury | 81909 | 275 | 5.90 |
| | South Shropshire | 33,009 | 273 | 5.91 |
| Telford and Wrekin | Hadley Castle | 56462 | 298 | 5.66 |
| | Lakeside South | 31209 | 248 | 6.2 |
| | The Wrekin | 41828 | 307 | 5.57 |
| Powys | 24 specified wards | 37509 | 272 | 5.92 |
| Total | | 415558 | 2460* | 1.97 |

The smaller the sample the larger the confidence interval

^{*}includes 49 respondents who did not specify exact area or provide postcode

















Weighting

- The quotas achieved for geography, age, gender and ethnicity were very accurate.
- However, as with all surveys young people and men are harder to encourage to complete the survey.
- Therefore, the responses presented are weighted to represent the views of the population as accurately as possible.
- The views of under-represented groups are weighted a little more heavily than the over-represented groups.















Summary of findings















Profile of respondents (raw data achieved)

- The survey sample is close to the profile of the combined population of the areas surveyed.
- Gender: 51% female and 47% male
- Age: under-representation of 18-24 year olds; accurate or slight overrepresentation of 25+ year olds.
- Ethnicity: under-representation of white British (91.5% compared to 93.5% actual) and there was under-representation of non-white British groups because 4.9% of respondents declined to disclose this information.
- The majority, 77.9% had no health problem limiting day-to-day activities and this is a slight over-representation of the overall population for the surveyed area.















Exploring the use and reasons for use of acute hospital services by residents across Shropshire, Telford & Wrekin and mid Wales.

- Most respondents (60%) had an appointment with a healthcare professional suggesting it was some form of planned care.
- 34% were visiting a GP; 22% PRH; and 17% RSH.
- Around three quarters arrived by car.
- Total journey time was less than 30 minutes for 75% of respondents, regardless of mode of travel.















Exploring awareness of the NHS Future Fit programme

- Respondents were asked directly whether they'd heard of NHS Future Fit.
- The majority 85.4% had not heard of the programme. The smallest majority was in Shrewsbury at 79.4%.
- Of those who had heard of NHS Future Fit they were asked to rate their understanding of the programme on a scale of 1 to 5. The majority had a limited understanding of the programme.
- These questions explore awareness of the programme name.
- Consequently, if respondents had not remembered of the programme name they are less likely associate the changes they have heard about (via word of mouth, TV news, newspapers etc.) to the NHS Future Fit programme.















Exploring the extent to which the general public support the three options presented in the shortlist

| Comparing the three proposals | | | | | | | | | | |
|---|--------------------|--------------------|------------------|--|--|--|--|--|--|--|
| | | | | | | | | | | |
| | % scoring 1 – 4 | % scoring 5 - 6 | % scoring 7 - 10 | | | | | | | |
| Planned operations to be based at Telford with Emergency Care and Women's and Children's services at Shrewsbury | 44.9 | 23.9 | 31.1 | | | | | | | |
| Planned operations to be based at Shrewsbury with Emergency Care and Women's and Children's services at Telford | 41.0 | 23.6 | 35.4 | | | | | | | |
| Planned operations and Women's and Children's services to be based at Telford with Emergency Care at Shrewsbury | 45.1 | 26.9 | 28.0 | | | | | | | |

1 = not at all appropriate and 10 = very appropriate

Respondents rated each proposal between 1 and 10







Rating the importance of the four non-financial criteria for evaluating the short list of options

- When asked to rate the four non-financial criteria there was a clear hierarchy:
 - 1) quality of care,
 - 2) attracting and keeping staff
 - 3) accessibility for patients and
 - 4) ease of delivering the option
- The first two criteria received a score of '10' by over 70% of respondents.
- There was some regional variation within the scoring but this was by less than 10 percentage points.















Rating the importance of cost to the four non-financial criteria

- Respondents were asked to compare the four non-financial criteria against cost.
- It should be noted that it is likely this group want to take a mid way point which the 10 point scale makes impossible. The remaining percentages were spread across the scales















Rating the importance of the four nonfinancial criteria for evaluating the short list of options

| Comparing the three p | roposals | | |
|--|-----------------|--------------------|---------------------|
| | % scoring 1 – 4 | % scoring 5 - 6 | % scoring 7 - 10 |
| | | | |
| Quality of care, | 1.1 | 2.9 | 96.1 |
| Attracting and keeping staff | 0.8 | 3.4 | 95.8 |
| Accessibility for patients | 2.4 | 6.3 | 91.3 |
| Ease of delivering the option | 7.0 | 21.7 | 71.3 |
| | | | |
| The importance of cost compared with the other four criteria | 21.6 | 26.9 | 51.3 |
| 1 = not at all appropriate and 10 = very appropriate | | | |

1 = not at all appropriate and 10 = very appropriate















Previous experience of healthcare services















| Respondents most recent health care | e experienc | e |
|---|-------------|-------|
| | No. | % |
| | | |
| An emergency or urgent admission | 456 | 18.5 |
| A planned or waiting list admission | 369 | 15.0 |
| An appointment with a healthcare professional | 1459 | 59.3 |
| Other | 177 | 7.2 |
| | | |
| Total | 2460 | 100.0 |

For most respondents their most recent health care experience was an appointment with a healthcare professional











| Place used for most recent health care expe | rience | |
|---|--------|-------|
| | No. | % |
| | | |
| GP practice - doctor | 842 | 34.2 |
| The Princess Royal Hospital Telford | 546 | 22.2 |
| The Royal Shrewsbury Hospital | 422 | 17.2 |
| Other | 246 | 10.0 |
| Can't remember | 128 | 5.2 |
| GP practice - nurse | 74 | 3.0 |
| Robert Jones and Agnes Hunt Orthopaedic Hospital | 56 | 2.3 |
| Walk-in Centre | 34 | 1.4 |
| A&E / emergency department | 28 | 1.1 |
| Bridgnorth Community Hospital | 18 | 0.7 |
| Wrexham Maelor Hospital | 15 | 0.6 |
| New Cross / Royal Wolverhampton Hospital | 9 | 0.4 |
| Ludlow Community Hospital | 7 | 0.3 |
| Minor Injuries Unit (MIU) | 6 | 0.3 |
| Aberystwyth Bronglais General Hospital in Aberystwyth | 6 | 0.2 |
| GP out of hours service | 5 | 0.2 |
| Newtown Hospital | 4 | 0.2 |
| Whitchurch Community Hospital | 4 | 0.2 |
| Llandidloes War Memorial Hospital | 3 | 0.1 |
| Victoria Memorial Hospital in Welshpool | 2 | 0.1 |
| Bishop's Castle Community Hospital | 2 | 0.1 |
| Pharmacy | 2 | 0.1 |
| District of community nursing | 1 | 0.0 |
| 999 / ambulance | 1 | 0.0 |
| | | |
| Total | 2460 | 100.0 |



Most
experiences
had been at
their GP
practice,
followed by a
visit to either
Princess Royal
or Royal
Shrewsbury
Hospital











74% of respondents had travelled by car



75% of journeys had taken less than 30 minutes

Method of transport for most recent health care experience

| | No. | % |
|----------------|------|-------|
| | | |
| By car | 1813 | 73.7 |
| Ambulance | 178 | 7.2 |
| By bus/coach | 46 | 1.9 |
| By train | 6 | 0.3 |
| Other | 303 | 12.3 |
| Can't remember | 113 | 4.6 |
| | | |
| Total | 2460 | 100.0 |
| | | |

Travel time for most recent health experience

| expenience | | |
|-------------------|------|-------|
| | No. | |
| | | |
| Up to 10 minutes | 1053 | 42.8 |
| 11-20 minutes | 545 | 22.2 |
| 21-30 minutes | 246 | 10.0 |
| 30-45 minutes | 214 | 8.7 |
| 45-60 minutes | 137 | 5.6 |
| 1<2 hours | 70 | 2.9 |
| 2<3 hours | 7 | 0.3 |
| More than 4 hours | 1 | 0.0 |
| Can't remember | 186 | 7.6 |
| | | |
| Total | 2460 | 100.0 |















A note on the tables in the following sections

- The following tables are in row percentages (so each row is 100%)
- The results are presented by the 9 areas. Only percentages are given but they are out of the total number of respondents for each area.
- The 'Area' at the bottom of the table is the total number of respondents who took part in the survey.















Awareness of NHS Future Fit















| Split of respondents who have and have not heard of NHS Future Fit | | | | | | | | | | | |
|--|-------|------|-------|------|--|--|--|--|--|--|--|
| Area | | Yes | N | lo | | | | | | | |
| | No. | % | No. | % | | | | | | | |
| | | | | | | | | | | | |
| Bridgnorth | 30 | 12.5 | 210 | 87.5 | | | | | | | |
| North Shropshire | 37 | 13.5 | 237 | 86.5 | | | | | | | |
| Oswestry | 33 | 14.6 | 193 | 85.4 | | | | | | | |
| Shrewsbury | 58 | 20.6 | 224 | 79.4 | | | | | | | |
| South Shropshire | 51 | 18.3 | 227 | 81.7 | | | | | | | |
| Hadley Castle | 47 | 15.8 | 251 | 84.2 | | | | | | | |
| Lakeside South | 30 | 11.6 | 228 | 88.4 | | | | | | | |
| The Wrekin | 48 | 15.5 | 262 | 84.5 | | | | | | | |
| Powys | 19 | 7.6 | 230 | 92.4 | | | | | | | |
| | 0.7-0 | | 0.000 | 0-1 | | | | | | | |
| Total | 353 | 14.6 | 2062 | 85.4 | | | | | | | |

20% of people surveyed in Shrewsbury had heard of 'Future Fit'

Overall 14.6% of people had heard of NHS Future Fit















| Understanding of NHS Future Fit | | | | | | | | | | | | |
|---------------------------------|-------|----------|----|------|----|------|----|------|----|------|--|--|
| | | 1 | | 2 | 3 | | | 4 | | 5 | | |
| | | | | | | | | | | | | |
| Bridgnorth | 8 | 26.7 | 7 | 23.3 | 10 | 33.3 | 3 | 10.0 | 2 | 6.7 | | |
| North Shropshire | 14 | 37.8 | 9 | 24.3 | 5 | 13.5 | 4 | 10.8 | 5 | 13.5 | | |
| Oswestry | 15 | 45.5 | 2 | 6.1 | 7 | 21.2 | 5 | 15.2 | 4 | 12.1 | | |
| Shrewsbury | 25 | 43.1 | 8 | 13.8 | 14 | 24.1 | 8 | 13.8 | 3 | 5.2 | | |
| South Shropshire | 19 | 36.5 | 15 | 28.8 | 7 | 13.5 | 5 | 9.6 | 6 | 11.5 | | |
| Hadley Castle | 20 | 41.7 | 11 | 22.9 | 9 | 18.8 | 3 | 6.3 | 5 | 10.4 | | |
| Lakeside South | 10 | 32.3 | 6 | 19.4 | 8 | 25.8 | 2 | 6.5 | 5 | 16.1 | | |
| The Wrekin | 14 | 28.6 | 13 | 26.5 | 9 | 18.4 | 6 | 12.2 | 7 | 14.3 | | |
| Powys | 7 | 36.8 | 3 | 15.8 | 5 | 26.3 | 2 | 10.5 | 2 | 10.5 | | |
| Total | 132 | 37.0 | 74 | 20.7 | 74 | 20.7 | 38 | 10.6 | 39 | 10.9 | | |
| 1 = very little and | d = v | ery much | | | | | | | | | | |













Opinions on the NHS Future Fit proposals















| Comparing the three proposals | | | | | | | | | | | | |
|-------------------------------|---------------|--------------------------------------|--|--|--|--|--|--|---|---|--|--|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | |
| | | | | | | | | | | | | |
| No | 615 | 119 | 150 | 122 | 456 | 126 | 173 | 264 | 119 | 316 | | |
| % | 25.0 | 4.9 | 6.1 | 5.0 | 18.5 | 5.1 | 7.0 | 10.7 | 4.8 | 12.9 | | |
| No. | 648 | 140 | 183 | 136 | 460 | 128 | 179 | 232 | 86 | 268 | | |
| % | 26.3 | 5.7 | 7.4 | 5.5 | 18.7 | 5.2 | 7.3 | 9.4 | 3.5 | 10.9 | | |
| No. | 658 | 139 | 170 | 144 | 517 | 145 | 183 | 211 | 72 | 221 | | |
| % | 26.7 | 5.6 | 6.9 | 5.9 | 21.0 | 5.9 | 7.5 | 8.6 | 2.9 | 9.0 | | |
| | % No. % | No 615 % 25.0 No. 648 % 26.3 No. 658 | 1 2 No 615 119 % 25.0 4.9 No. 648 140 % 26.3 5.7 No. 658 139 | No 615 119 150 % 25.0 4.9 6.1 No. 648 140 183 % 26.3 5.7 7.4 No. 658 139 170 | No 615 119 150 122 % 25.0 4.9 6.1 5.0 No. 648 140 183 136 % 26.3 5.7 7.4 5.5 No. 658 139 170 144 | No 615 119 150 122 456 % 25.0 4.9 6.1 5.0 18.5 No. 648 140 183 136 460 % 26.3 5.7 7.4 5.5 18.7 No. 658 139 170 144 517 | No 615 119 150 122 456 126 % 25.0 4.9 6.1 5.0 18.5 5.1 No. 648 140 183 136 460 128 % 26.3 5.7 7.4 5.5 18.7 5.2 No. 658 139 170 144 517 145 | No 615 119 150 122 456 126 173 % 25.0 4.9 6.1 5.0 18.5 5.1 7.0 No. 648 140 183 136 460 128 179 % 26.3 5.7 7.4 5.5 18.7 5.2 7.3 No. 658 139 170 144 517 145 183 | No 615 119 150 122 456 126 173 264 % 25.0 4.9 6.1 5.0 18.5 5.1 7.0 10.7 No. 648 140 183 136 460 128 179 232 % 26.3 5.7 7.4 5.5 18.7 5.2 7.3 9.4 No. 658 139 170 144 517 145 183 211 | No 615 119 150 122 456 126 173 264 119 % 25.0 4.9 6.1 5.0 18.5 5.1 7.0 10.7 4.8 No. 648 140 183 136 460 128 179 232 86 % 26.3 5.7 7.4 5.5 18.7 5.2 7.3 9.4 3.5 No. 658 139 170 144 517 145 183 211 72 | | |

1 = not at all appropriate and 10 = very appropriate













This proposal was less popular with Shrewsbury residents



| B - Planned operations to be based at Shrewsbury with Emergency Care and Women's and Children's |
|---|
| services at Telford |

| services at Telford | | | | | | | | | | |
|---------------------|------|-----|------|-----|------|-----|-----|------|-----|------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | % | % | % | % | % | % | % | % | % | % |
| | | | | | | | | | | |
| Bridgnorth | 14.5 | 2.5 | 5.0 | 2.1 | 24.5 | 8.3 | 9.5 | 17.0 | 5.4 | 11.2 |
| North Shropshire | 20.8 | 4.4 | 4.4 | 5.1 | 23.7 | 4.4 | 5.8 | 12.0 | 6.2 | 13.1 |
| Oswestry | 36.6 | 6.2 | 5.3 | 5.7 | 12.3 | 6.2 | 6.2 | 8.4 | 1.8 | 11.5 |
| Shrewsbury | 26.8 | 7.0 | 12.3 | 4.2 | 20.4 | 3.2 | 6.0 | 7.4 | 4.9 | 7.7 |
| South Shropshire | 26.6 | 7.2 | 6.5 | 6.5 | 17.3 | 5.0 | 7.2 | 13.7 | 3.2 | 6.8 |
| Hadley Castle | 21.2 | 3.4 | 4.7 | 6.1 | 16.2 | 4.0 | 8.4 | 9.4 | 6.7 | 19.9 |
| Lakeside South | 22.1 | 5.0 | 4.7 | 4.7 | 17.1 | 5.4 | 5.8 | 12.4 | 5.0 | 17.8 |
| The Wrekin | 18.1 | 3.5 | 4.2 | 4.5 | 18.1 | 5.2 | 9.0 | 11.0 | 7.1 | 19.4 |
| Powys | 41.4 | 5.6 | 7.6 | 6.0 | 15.7 | 4.8 | 5.6 | 5.6 | 2.4 | 5.2 |
| | | | | | | | | | | |
| Area | 25.0 | 5.0 | 6.1 | 5.0 | 18.4 | 5.1 | 7.1 | 10.8 | 4.9 | 12.7 |

1 = not at all appropriate

This proposal was particularly unpopular with Powys residents

Your success is our success.

Many respondents picked 5 as the closest to a mid-way point between 1 and 10











This proposal was less popular with Telford & Wrekin residents



| C1 - Planned operations to be based at Telford with Emergency Care and Women's and | | | | | | | | | | | | |
|--|------|-----|------|-----|------|-----|-----|------|-----|------|--|--|
| Children's services at Shrewsbury | | | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | |
| | % | % | % | % | % | % | % | % | % | % | | |
| | | | | | | | | | | | | |
| Bridgnorth | 22.1 | 3.8 | 9.6 | 4.6 | 26.7 | 2.9 | 8.8 | 12.5 | 3.3 | 5.8 | | |
| North Shropshire | 17.5 | 4.4 | 5.5 | 6.9 | 24.4 | 5.5 | 6.9 | 13.5 | 3.6 | 12.0 | | |
| Oswestry | 24.8 | 5.8 | 1.8 | 4.9 | 17.3 | 5.8 | 9.7 | 8.8 | 6.2 | 15.0 | | |
| Shrewsbury | 15.2 | 4.6 | 8.5 | 4.6 | 18.8 | 6.0 | 8.5 | 13.8 | 4.3 | 15.6 | | |
| South Shropshire | 16.5 | 6.1 | 8.6 | 6.8 | 15.4 | 8.6 | 8.6 | 11.8 | 4.7 | 12.9 | | |
| Hadley Castle | 38.7 | 5.7 | 11.8 | 5.7 | 13.8 | 2.4 | 4.4 | 6.1 | 1.0 | 10.4 | | |
| Lakeside South | 34.7 | 8.1 | 6.9 | 6.2 | 16.6 | 4.2 | 6.6 | 6.9 | 3.1 | 6.6 | | |
| The Wrekin | 33.2 | 7.7 | 7.1 | 5.8 | 18.7 | 4.8 | 6.5 | 7.1 | 2.6 | 6.5 | | |
| Powys | 31.2 | 4.4 | 6.0 | 3.6 | 16.4 | 7.2 | 6.0 | 6.0 | 4.8 | 14.4 | | |
| | | | | | | | | | | | | |
| Area | 26.1 | 5.7 | 7.4 | 5.5 | 18.6 | 5.3 | 7.2 | 9.6 | 3.6 | 11.0 | | |

1 = not at all appropriate and 10 = very appropriate

Many respondents picked 5 as the closest to a mid-way point between 1 and 10













This proposal was less popular with Telford & Wrekin residents



| C2 - Planned op | erations | and Wom | | | n's servio | | based at | Telford v | vith Eme | rgency |
|------------------|----------|---------|------|-----|------------|-----|----------|-----------|----------|--------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | % | % | % | % | % | % | % | % | % | % |
| | | | | | | | | | | |
| Bridgnorth | 18.5 | 4.9 | 7.8 | 4.1 | 28.4 | 3.7 | 7.8 | 14.8 | 2.5 | 7.4 |
| North Shropshire | 16.1 | 2.9 | 5.1 | 6.2 | 25.9 | 7.3 | 8.0 | 11.3 | 4.4 | 12.8 |
| Oswestry | 29.6 | 6.6 | 4.0 | 3.5 | 19.5 | 7.5 | 8.8 | 5.3 | 3.1 | 11.9 |
| Shrewsbury | 17.3 | 6.0 | 7.1 | 8.1 | 18.4 | 4.6 | 11.3 | 12.0 | 3.9 | 11.3 |
| South Shropshire | 20.1 | 4.3 | 10.8 | 3.2 | 20.8 | 9.7 | 7.5 | 12.2 | 3.9 | 7.5 |
| Hadley Castle | 37.1 | 6.7 | 8.7 | 8.0 | 16.4 | 3.3 | 4.3 | 4.3 | 1.3 | 9.7 |
| Lakeside South | 32.9 | 7.0 | 6.6 | 6.2 | 20.9 | 7.0 | 6.2 | 5.4 | 2.3 | 5.4 |
| The Wrekin | 34.1 | 8.0 | 4.5 | 6.1 | 20.3 | 4.5 | 7.4 | 5.8 | 3.2 | 6.1 |
| Powys | 32.4 | 4.4 | 6.8 | 6.0 | 19.2 | 6.4 | 6.8 | 6.4 | 2.8 | 8.8 |
| | | | | | | | | | | |
| Area | 26.6 | 5.7 | 6.9 | 5.8 | 21.0 | 5.9 | 7.6 | 8.6 | 3.1 | 9.0 |

1 = not at all appropriate and 10 = very appropriate

Many respondents picked 5 as the closest to a mid-way point between 1 and 10







Criteria to evaluate proposals















| Criteria for evaluating proposals | | | | | | | | | | | | | | | | | | | | |
|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|------|-----|------|-----|------|------|------|
| | 1 | | 2 | 2 | 3 | } | 4 | | į | 5 | 6 | | | 7 | | 8 | | 9 | 1(| 0 |
| | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % |
| Accessibility for patients | 18 | 0.7 | 9 | 0.4 | 19 | 0.8 | 12 | 0.5 | 107 | 4.4 | 48 | 1.9 | 160 | 6.5 | 398 | 16.2 | 297 | 12.1 | 1393 | 56.6 |
| Quality of care, | 5 | 0.2 | 4 | 0.2 | 3 | 0.1 | 14 | 0.6 | 44 | 1.8 | 28 | 1.1 | 64 | 2.6 | 209 | 8.5 | 265 | 10.8 | 1824 | 74.2 |
| Ease of delivering the option | 80 | 3.2 | 24 | 1.0 | 32 | 1.3 | 37 | 1.5 | 395 | 16.0 | 140 | 5.7 | 271 | 11.0 | 481 | 19.6 | 197 | 8.0 | 803 | 32.7 |
| Attracting and keeping staff | 13 | 0.5 | 3 | 0.1 | 1 | 0.0 | 4 | 0.2 | 50 | 2.1 | 31 | 1.3 | 65 | 2.7 | 233 | 9.6 | 253 | 10.5 | 1764 | 73.0 |
| The importance of cost compared with the other four criteria | 221 | 9.0 | 92 | 3.7 | 114 | 4.6 | 107 | 4.3 | 534 | 21.7 | 128 | 5.2 | 237 | 9.6 | 344 | 14.0 | 129 | 5.2 | 554 | 22.5 |













Accessibility was important for all respondents but most highly rated by Lakeside South respondents (T&W)



| Ad | ccessibili | ty for pati | ents, wh | ich is trav | el time b | y ambu | lance, ca | r, and bu | s | |
|------------------|------------|-------------|----------|-------------|-----------|--------|-----------|-----------|------|------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | % | % | % | % | % | % | % | % | % | % |
| | | | | | | | | | | |
| Bridgnorth | 0.0 | 0.8 | 0.0 | 0.0 | 5.0 | 1.2 | 5.4 | 20.7 | 12.9 | 53.9 |
| North Shropshire | 0.4 | 0.0 | 2.6 | 0.7 | 2.9 | 2.2 | 6.2 | 13.1 | 15.0 | 56.9 |
| Oswestry | 0.4 | 0.4 | 0.9 | 0.9 | 3.1 | 3.5 | 8.8 | 15.0 | 8.0 | 58.8 |
| Shrewsbury | 0.4 | 0.0 | 0.4 | 0.0 | 4.2 | 0.7 | 7.1 | 16.6 | 19.4 | 51.2 |
| South Shropshire | 1.8 | 0.4 | 0.4 | 0.7 | 4.7 | 1.8 | 4.7 | 15.1 | 12.2 | 58.4 |
| Hadley Castle | 1.0 | 0.3 | 0.3 | 0.0 | 4.7 | 1.7 | 4.7 | 17.2 | 10.4 | 59.6 |
| Lakeside South | 0.4 | 0.8 | 0.4 | 0.0 | 4.2 | 3.1 | 6.9 | 12.0 | 10.4 | 61.8 |
| The Wrekin | 0.3 | 0.0 | 0.3 | 1.3 | 4.5 | 1.9 | 7.4 | 18.6 | 12.5 | 53.1 |
| Powys | 2.0 | 0.8 | 1.6 | 0.8 | 6.4 | 1.6 | 7.6 | 17.2 | 7.6 | 54.4 |
| All respondents | 0.7 | 0.4 | 0.7 | 0.5 | 4.4 | 1.9 | 6.5 | 16.2 | 12.2 | 56.4 |













Care quality was important for all respondents but most highly rated by Hadley Castle respondents (T&W)



| Qua | ality of ca | re, which | is abou | t safety, e | effectiven | ess, an | d patient | experier | nce | |
|------------------|-------------|-----------|---------|-------------|------------|---------|-----------|----------|------|------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | % | % | % | % | % | % | % | % | % | % |
| | | | | | | | | | | |
| Bridgnorth | 0.0 | 0.0 | 0.4 | 0.0 | 0.8 | 1.7 | 2.1 | 15.4 | 11.3 | 68.3 |
| North Shropshire | 0.0 | 0.0 | 0.4 | 2.9 | 1.8 | 0.7 | 1.5 | 6.5 | 12.0 | 74.2 |
| Oswestry | 0.4 | 0.0 | 0.0 | 0.4 | 2.2 | 0.9 | 3.1 | 6.6 | 8.0 | 78.3 |
| Shrewsbury | 0.0 | 0.7 | 0.4 | 0.0 | 0.0 | 0.4 | 4.3 | 9.6 | 15.6 | 69.1 |
| South Shropshire | 0.0 | 0.0 | 0.0 | 0.4 | 0.7 | 2.5 | 2.9 | 8.6 | 9.7 | 75.2 |
| Hadley Castle | 0.3 | 0.3 | 0.0 | 0.3 | 1.0 | 0.3 | 1.3 | 8.4 | 8.1 | 79.9 |
| Lakeside South | 0.0 | 0.4 | 0.0 | 0.4 | 1.9 | 0.8 | 3.5 | 5.4 | 13.1 | 74.5 |
| The Wrekin | 0.3 | 0.0 | 0.0 | 0.0 | 2.6 | 1.6 | 1.9 | 7.4 | 10.9 | 75.2 |
| Powys | 0.8 | 0.0 | 0.0 | 0.8 | 4.4 | 1.6 | 3.2 | 10.8 | 7.6 | 70.8 |
| | | | | | | | | | | |
| All respondents | 0.2 | 0.2 | 0.1 | 0.6 | 1.7 | 1.2 | 2.6 | 8.7 | 10.7 | 74.0 |













Ease of delivery was important for all respondents but most highly rated by Lakeside South respondents (T&W)



| Ease of delivering the option, which is the time to provide the buildings required, the amount of service |
|---|
| disruption and public acceptability |

| | distribution and public acceptability | | | | | | | | | | |
|------------------|---------------------------------------|-----|-----|-----|------|-----|------|------|------|------|--|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| | % | % | % | % | % | % | % | % | % | % | |
| | | | | | | | | | | | |
| Bridgnorth | 0.8 | 0.4 | 1.7 | 0.4 | 15.4 | 3.3 | 15.4 | 24.1 | 7.5 | 31.1 | |
| North Shropshire | 4.4 | 0.4 | 0.7 | 2.9 | 16.1 | 4.8 | 8.8 | 23.1 | 7.7 | 31.1 | |
| Oswestry | 1.8 | 1.3 | 0.9 | 0.9 | 20.3 | 5.3 | 11.0 | 16.3 | 5.3 | 37.0 | |
| Shrewsbury | 1.4 | 2.5 | 0.4 | 1.4 | 14.9 | 8.5 | 10.3 | 18.4 | 9.2 | 33.0 | |
| South Shropshire | 2.2 | 1.4 | 1.1 | 2.2 | 17.9 | 6.8 | 9.7 | 19.7 | 9.3 | 29.7 | |
| Hadley Castle | 5.7 | 0.7 | 0.7 | 1.3 | 16.5 | 4.4 | 12.5 | 18.2 | 6.4 | 33.7 | |
| Lakeside South | 2.7 | 1.2 | 3.1 | 0.8 | 14.7 | 2.7 | 10.1 | 16.7 | 9.7 | 38.4 | |
| The Wrekin | 6.1 | 1.0 | 1.6 | 1.6 | 11.9 | 9.6 | 10.3 | 19.6 | 7.1 | 31.2 | |
| Powys | 3.6 | 0.0 | 1.6 | 2.0 | 17.5 | 6.0 | 10.4 | 19.5 | 10.8 | 28.7 | |
| Area | 3.3 | 1.0 | 1.3 | 1.5 | 16.0 | 5.8 | 10.9 | 19.5 | 8.1 | 32.6 | |















Attracting and keeping quality staff was important for all respondents but most highly rated by Hadley Castle respondents (T&W)

| | Attracting | and ke | eping the | e require | d numbe | ers of hi | gh quali | ty staff | | |
|------------------|------------|--------|-----------|-----------|---------|-----------|----------|----------|------|------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | % | % | % | % | % | % | % | % | % | % |
| | | | | | | | | | | |
| Bridgnorth | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 1.3 | 1.3 | 14.2 | 10.4 | 71.7 |
| North Shropshire | 2.6 | 0.0 | 0.0 | 0.0 | 1.8 | 0.7 | 1.1 | 9.5 | 10.2 | 74.1 |
| Oswestry | 0.4 | 0.0 | 0.0 | 0.0 | 4.0 | 0.9 | 1.8 | 8.4 | 8.4 | 76.0 |
| Shrewsbury | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 2.5 | 12.1 | 16.0 | 67.7 |
| South Shropshire | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 1.1 | 4.7 | 7.2 | 11.2 | 74.1 |
| Hadley Castle | 0.7 | 0.0 | 0.0 | 0.3 | 2.0 | 0.7 | 1.7 | 7.7 | 7.7 | 79.1 |
| Lakeside South | 0.0 | 0.0 | 0.0 | 0.0 | 1.9 | 3.5 | 2.7 | 7.7 | 8.5 | 75.7 |
| The Wrekin | 0.3 | 0.0 | 0.3 | 0.6 | 1.6 | 1.6 | 4.2 | 10.9 | 10.3 | 70.1 |
| Powys | 0.8 | 1.2 | 0.0 | 0.4 | 4.8 | 0.0 | 4.0 | 9.2 | 11.2 | 68.5 |
| | | | | | | | | | | |
| Area | 0.5 | 0.1 | 0.0 | 0.2 | 2.1 | 1.3 | 2.7 | 9.6 | 10.5 | 73.0 |

¹ is not at all important and 10 is very important















Cost compared to the other criteria was most highly rated by Oswestry respondents

| | ٦ | The import | ance of co | st compa | red to the | other fo | ur criteria | , | | |
|------------------|------|------------|------------|----------|------------|----------|-------------|------|-----|------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | % | % | % | % | % | % | % | % | % | % |
| | | | | | | | | | | |
| Bridgnorth | 6.7 | 3.3 | 4.6 | 5.4 | 19.6 | 4.6 | 4.2 | 17.9 | 5.8 | 27.9 |
| North Shropshire | 12.1 | 3.3 | 5.9 | 2.2 | 21.6 | 2.9 | 10.6 | 13.9 | 4.4 | 23.1 |
| Oswestry | 8.4 | 2.2 | 1.8 | 5.7 | 24.2 | 3.5 | 9.7 | 11.0 | 4.8 | 28.6 |
| Shrewsbury | 7.1 | 5.3 | 3.6 | 5.0 | 22.1 | 6.4 | 11.7 | 11.7 | 6.8 | 20.3 |
| South Shropshire | 10.4 | 5.4 | 7.6 | 5.0 | 27.0 | 5.4 | 6.5 | 11.5 | 3.6 | 17.6 |
| Hadley Castle | 11.1 | 5.0 | 4.4 | 4.0 | 20.1 | 5.0 | 11.1 | 13.4 | 3.7 | 22.1 |
| Lakeside South | 7.7 | 3.9 | 4.2 | 4.6 | 23.6 | 4.6 | 8.9 | 12.7 | 6.6 | 23.2 |
| The Wrekin | 7.4 | 4.5 | 4.8 | 4.8 | 19.4 | 9.0 | 10.6 | 15.5 | 6.5 | 17.4 |
| Powys | 9.6 | 1.2 | 4.8 | 2.4 | 16.7 | 4.4 | 12.0 | 17.5 | 5.6 | 25.9 |
| | | | | | | | | | | |
| Area | 9.0 | 3.9 | 4.7 | 4.3 | 21.6 | 5.2 | 9.6 | 13.9 | 5.3 | 22.6 |

1 is not at all important and 10 is very important

Results suggest a 43.5/56.5 balance between non-financial and financial scores







Profile of respondents















| | Age | | |
|----------------|------|---------------------------|------|
| | Sur | Combined area populations | |
| | No. | % | % |
| | | | |
| 16-17 | 7 | 0.3 | |
| 18-24 | 126 | 5.1 | 10.2 |
| 25-34 | 343 | 13.9 | 14.0 |
| 35-44 | 365 | 14.8 | 15.6 |
| 45-54 | 464 | 18.9 | 18.6 |
| 55-64 | 412 | 16.7 | 16.1 |
| 65+ | 640 | 26.0 | 25.5 |
| | | | |
| Rather not say | 103 | 4.2 | n/a |
| | | | |
| Total | 2460 | 100.0 | |
| | | | |

| | Gen | der | |
|-------------------|------|-----|---------------------------|
| | Surv | еу | Combined area populations |
| | No. | % | % |
| | | | |
| Male | 1161 | 47 | 49 |
| Female | 1254 | 51 | 51 |
| Prefer not to say | 45 | 2 | 0 |
| | | | |
| Total | 2460 | 100 | |
| | | | |















| Survey Combined area population s |
|--|
| |
| |
| |
| English, Welsh, Scottish, 2245 91.3 93. Northern Irish, British |
| Irish 7 0.3 |
| Gypsy / Irish Traveller 1 0.0 |
| White and Black Caribbean 5 0.2 |
| White and Black African 2 0.1 |
| White and Asian 5 0.2 |
| Indian 8 0.3 6.4 (an |
| Pakistani 9 0.4 othe |
| Bangladeshi 2 0.1 ethnicity |
| Chinese 2 0.1 |
| African 12 0.5 |
| Caribbean 5 0.2 |
| Any other ethnic group 36 1.5 (Specify) |
| Prefer not to say 121 4.9 |
| |
| Total 2460 100 |

| Languages spoken most often at home | | | | | | | | |
|-------------------------------------|---------------------|--|--|--|--|--|--|--|
| No. | % | | | | | | | |
| | | | | | | | | |
| 2424 | 98.5 | | | | | | | |
| 23 | 0.9 | | | | | | | |
| 5 | 0.2 | | | | | | | |
| 2 | 0.1 | | | | | | | |
| 6 | 0.2 | | | | | | | |
| 2460 | 100.0 | | | | | | | |
| | No. 2424 23 5 | | | | | | | |















| Use of a car or van | | | |
|---|------|-------|--|
| | No. | % | |
| | | | |
| Yes, your own | 1961 | 79.7 | |
| car or van | | | |
| Yes, a friend's / family member's car/van | 129 | 5.2 | |
| No, I do not have use of a car/van | 370 | 15.0 | |
| | | | |
| Total | 2460 | 100.0 | |
| | | | |

| Domestic situation | | | | |
|------------------------|------|-------|--|--|
| | No. | % | | |
| | | | | |
| I live alone | 478 | 19.4 | | |
| I live with friends or | 22 | 0.9 | | |
| housemates | | | | |
| I live with a partner | 887 | 36.1 | | |
| or spouse but | | | | |
| without children | | | | |
| I live with a partner | 655 | 26.6 | | |
| or spouse with | | | | |
| children | | | | |
| I live with my parents | 156 | 6.3 | | |
| or other family | | | | |
| I live alone with my | 103 | 4.2 | | |
| children | | | | |
| Prefer not to say | 159 | 6.5 | | |
| | | | | |
| Total | 2460 | 100.0 | | |
| | | | | |

| Sexuality | | | |
|-------------------|------|-------|--|
| | No. | % | |
| | | | |
| Heterosexual or | 2112 | 85.9 | |
| straight | | | |
| Gay or Lesbian | 13 | 0.5 | |
| Bisexual | 11 | 0.4 | |
| Prefer not to say | 311 | 12.6 | |
| Other | 4 | 0.2 | |
| Total | 2451 | 99.6 | |
| System | 9 | 0.4 | |
| | | | |
| Total | 2460 | 100.0 | |
| | | | |















| Economic and social activity | | | |
|--------------------------------------|------|-------|--|
| | No. | % | |
| | | | |
| Retired | 727 | 29.6 | |
| Employed Full Time | 943 | 38.3 | |
| Employed Part time | 322 | 13.1 | |
| Homemaker | 78 | 3.2 | |
| Student | 31 | 1.3 | |
| Out of work and looking for work | 25 | 1.0 | |
| Out of work and not looking for work | 13 | 0.5 | |
| Unable to work | 90 | 3.7 | |
| Other | 231 | 9.4 | |
| Total | 2460 | 100.0 | |
| | | | |

| Day-to-day activities limited by a health problem | | | | | |
|---|--------|-------|---------------------------|--|--|
| | Survey | | Combined area populations | | |
| | No. | % | | | |
| | | | | | |
| Yes, limited a lot | 280 | 11.4 | 10.3 | | |
| Yes, limited a little | 256 | 10.4 | 11.8 | | |
| No | 1923 | 78.2 | 77.9 | | |
| Total | 2459 | 100.0 | | | |
| No response | 1 | 0.0 | | | |
| | | | | | |
| | 2460 | 100.0 | | | |
| | | | | | |







