

### Stroke Care in the West Midlands: Early Supported Discharge & Rehabilitation

Version number: 0.5

First published: February 2019

Updated: N/A

Prepared by: West Midlands CVD Clinical Network Team NHS England: Dr Kiran Patel, Medical Director (NHS England, West Midlands), Dr Indira Natarajan, West Midlands Clinical Director for Stroke (Clinical Network for Cardiovascular Disease), Victoria Millward (Head of Clinical Network for Cardiovascular Disease), Jodie Powell (Senior Quality Improvement Manager, Clinical Network for Cardiovascular Disease), Sarah Rogers (Network Quality Improvement Officer, Clinical Network for Cardiovascular Disease), Carron Sintler, Consultant Physiotherapist/Project Lead, (University Hospitals Birmingham NHS Foundation Trust/Birmingham Community Healthcare Trust) and the West Midlands ESD & Rehabilitation Core Working Group: Lisa Bennett, Clinical Specialist Occupational Therapist & Lead in Stroke Early Supported Discharge Team (Birmingham Community Healthcare Trust), Judi Gilpin, Occupational Therapist (Shrewsbury and Telford Hospital NHS Trust), Hannah Greco, Senior Speech & Language Therapist (Birmingham Community Healthcare Trust), Justine Harris, Speech and Language Therapist, (South Warwickshire NHS Foundation Trust), Alex Lake, Therapy Quality Improvement Lead (Shrewsbury and Telford Hospital NHS Trust). Amanda Mobley, Consultant Clinical Neuro Psychologist (Worcestershire Acute Hospitals NHS Trust), Frances Pons, Dudley Rehabilitation Service Manager (The Dudley Group NHS Foundation Trust), Claire Quarterman, Clinical Lead for Early Supported Discharge Team and Community Neuro Rehabilitation Team (Coventry & Warwickshire Partnership Trust), Sarah Waddington, Dietitian (University Hospital Birmingham NHS Foundation Trust) and Christopher Wharton, Stroke Registrar (Royal Wolverhampton Hospital NHS Trust).

Reviewed and contributions by: West Midlands ESD & Rehabilitation Working Group [page 3], West Midlands Stroke Expert Advisory Group, West Midlands Stroke STP Programme Board, the Strategy Unit and the Stroke Association.

# The West Midlands Early Supported Discharge and Rehabilitation Working Group Authors & Contributors:

Rose	Adams	Occupational Therapist	The Dudley Group NHS Foundation Trust						
Ann	Anderson	Lead for ESD & BNRT	Birmingham Community Healthcare Trust						
Sarah	Andrews	Team Lead Community Stroke Service - ESD & Community Stroke	Wye Valley NHS Trust						
Virginia	Appleton- Hendley	Physiotherapist	Birmingham Community Healthcare Trust						
Nicola	Baker	Clinical Psychologist in Stroke - Wolverhampton	Black Country Partnership NHS Foundation Trust						
Nikki	Baker	Stroke Clinical Nurse Specialist (CNS) - Worcester Acute	Worcestershire Acute Hospitals NHS Trust						
Linzie	Bassett	Clinical Therapy Lead - stroke & neuro therapies	Heart of England NHS Foundation Trust						
Lisa	Bennett	Clinical Specialist Occupational Therapist & Lead in ESD Stroke Early Supported Discharge Team	Birmingham Community Healthcare Trust						
Wai-Ling	Bickerton	Principal Clinical Psychologist (Stroke and Cardiology) - Dudley	Black Country Partnership NHS Foundation Trust The Dudley Group NHS						
Claire	Bousfield	Therapy Team Leader- Stroke and Medicine	Foundation Trust						
Katharine	Bradley	Interim General Manager – Community (OT)	Birmingham Community Healthcare Trust						
Hayley	Bryer	Lead Speech and Language Therapist for Stroke	Heart of England NHS Foundation Trust						
Chantelle	Chadwick	Stroke Specialist Occupational Therapist	Worcestershire Acute Hospitals NHS Trust						
Lorena	Chua	Stroke Clinical Nurse Specialist (CNS) - Sandwell	Sandwell and West Birmingham NHS Trust						
Jo	Cook	Occupational Therapist - Stroke Outreach Team	George Eliot Hospital NHS Trust						
Rebecca	Davies	Assistant Team Manager – Registered Services	Dudley – Adult Social Care						
Helen	Dogo	Specialist Nurse	Virgin Care (Burton-On-Trent)						
Holly	D'onofrio	Advanced Occupational Therapist - Victoria, Feldon and SWFT Stroke Outreach	South Warwickshire NHS Foundation Trust						
Melanie	Fellows	Group Manager for Stroke	Heart of England NHS Foundation Trust						
Clair	Finnemore	Clinical Specialist Physiotherapist	Sandwell and West Birmingham NHS Trust						
Emma	Gadsby	Therapy Team Lead for Neuro and Stroke	George Eliot Hospital NHS Trust						
Sharon	Gerrard	ESD SALT	Royal Wolverhampton Hospital NHS Trust						
Judi	Gilpin	Occupational Therapist	Shrewsbury and Telford Hospital NHS Trust						
Emma	Gorman	Physiotherapist	University Hospital Birmingham NHS Foundation Trust						
Jo	Graham	ESD Lead - Royal Wolverhampton	Royal Wolverhampton Hospital NHS Trust						
Caroline	Graham	Therapy Clinical Team Leader Stroke	Heart of England NHS Foundation Trust						
Rachel	Graves	B7 Stroke Specialist Physiotherapist	Birmingham Community Healthcare Trust						
Hannah	Greco	Senior Speech & Language Therapist	Birmingham Community Healthcare Trust						

Seema	Gudivada	Clinical Lead, Lead AHP Specialist & Rehab Division	Birmingham Community Healthcare Trust
Justine	Harris	Speech and Language Therapist	South Warwickshire NHS Foundation Trust
Caroline	Hawkins	Specialist Neuro Physiotherapist	Birmingham Community Healthcare Trust
Sarah	Hudson	CST Lead - Worcestershire	Worcestershire Health & Care NHS Trust
Sissi	Ispoglou	Consultant in Stroke Medicine & Clinical Lead	Sandwell and West Birmingham NHS Trust
Yasmin	Jacob	Lead Speech and Language Therapist	Sandwell and West Birmingham NHS Trust
Marsha	Jones	Community Services Manager	Worcestershire Health & Care NHS Trust
Alex	Lake	Therapy Quality Improvement Lead (OT & PT)	Shrewsbury and Telford Hospital NHS Trust
Wendy	Malpass	Team Manager – Hospital & Registered Services	Dudley - Adult Social Care
Kate	Martin	Clinical Psychologist	University Hospitals Coventry and Warwickshire NHS Trust
Simon	McBride	Consultant in Stroke Medicine & Clinical Lead	Royal Wolverhampton Hospital NHS Trust
Rachel	Meir	Physiotherapist	University Hospital Birmingham NHS Foundation Trust
Susan	Merrick	Dietitian	Royal Wolverhampton Hospital NHS Trust
Priti	Mistry	Band 7 Physiotherapist - Feldon Stroke Unit	South Warwickshire NHS Foundation Trust
Amanda	Mobley	Consultant Clinical Neuro Psychologist	Worcestershire Acute Hospitals NHS Trust
Sarah	Mountford	Stroke services team leader (Nurse)	University Hospitals Coventry and Warwickshire NHS Trust
Kath	Mullens	Community Services Manager- Specialist Teams	Worcestershire Health & Care NHS Trust
Sheri	Ness	Speech and Language Therapist	Sandwell and West Birmingham NHS Trust
Jess	Newall	Speech and Language Therapist	South Warwickshire NHS Foundation Trust
Jeremy	Newton	Senior Physiotherapist	Birmingham Community Healthcare Trust
Samantha	Oakley	Consultant Clinical Psychologist	Black Country Partnership NHS Foundation Trust
Katy	Palmer	Stroke Specialist Dietitian, and Acute dietetic Team Leader	South Warwickshire NHS Foundation Trust
Sharon	Parkinson	Group Manager Cardiology and Stroke	Heart of England NHS Foundation Trust
Alice	Podmore	Advanced Occupational Therapist	University Hospitals of North Midlands NHS Trust
Frances	Pons	Dudley Rehab Service Manager	The Dudley Group NHS Foundation Trust
Sara	Price	Dietitian	University Hospital Birmingham NHS Foundation Trust
Claire	Quarterman	Clinical Lead for Early Supported Discharge Team and Community Neuro Rehabilitation Team	Coventry & Warwickshire Partnership Trust
Selena	Riva	Speech and Language Therapist	The Dudley Group NHS Foundation Trust
Carron	Sintler	Consultant Physiotherapist in Stroke Services	University Hospital Birmingham NHS Foundation Trust & BCHC

Darren	Skinner	CST Lead - Worcestershire	Worcestershire Health & Care NHS Trust
Lelanie	Smook	Senior Applied Psychologist. Clinical Health Psychology, Sandwell and City	Black Country Partnership NHS Foundation Trust
Panos	Stergiou	Physiotherapist	University Hospitals of North Midlands NHS Trust
John	Swan	Senior Speech & Language Therapist, Stroke & Acute Inpatients	Wye Valley NHS Trust
Katherine	Thomas	ESD Physiotherapist	Royal Wolverhampton Hospital NHS Trust
Suzanne	Thornton	ESD & Community Stroke Nurse Specialist	Royal Wolverhampton Hospital NHS Trust
Debbie	Tidmarsh	Matron for Stroke Services	Heart of England NHS Foundation Trust
Aimee	Turner	Senior Occupational Therapist	Sandwell and West Birmingham NHS Trust
Sachin	Vashista	Consultant in Stroke Medicine & Lead for Clinical Governance	Sandwell and West Birmingham NHS Trust
Sarah	Waddington	Dietitian	University Hospital Birmingham NHS Foundation Trust
Edwina	Wass	Band 7 Occupational Therapist	Birmingham Community Healthcare Trust
Chris	Wharton	Stroke Registrar	Royal Wolverhampton Hospital NHS Trust
Katie	Woodward	Specialist Physiotherapist In Neurology - Therapy Services	Royal Wolverhampton Hospital NHS Trust
Lyne	Wright	Advanced Speech and Language Therapist for Stroke and Neurology - Lead for the HASU/Acute/rehab and ESD services for SLT	Sandwell and West Birmingham NHS Trust
Dawn	Wynn	Ward Manager - Stroke Nurse	University Hospitals of North Midlands NHS Trust

# **Contents**

Co	ontents 6	
1	Executive Summary8	
2	Foreword9	
3	Summary Statement from Dr Indira Natarajan10	
4	Background 11	
5	Introduction12	
	5.1 Figure 1: National Stroke Care Pathway 5.2 Current Performance 5.2.1 Table 1: West Midlands SSNAP Data (July 2018 to September 2018) 5.2.2 Figure 2: Patients discharged with a Stroke Skilled ESD Team in the Wes Midlands 5.2.3 Figure 3: Compliance to National Target: Occupational Therapy 5.2.4 Figure 4: Compliance to National Target: Physiotherapy 5.2.5 Figure 5: Compliance to National Target: Speech & Language Therapy 5.3.1 Figure 6: The impact of ESD on Length of Stay 5.4 Table 2: ESD & Rehabilitation Teams in the West Midlands 5.4.1 Figure 7: ESD, Rehabilitation and Community Teams in Birmingham & Solihull STP 5.4.2 Figure 8: ESD, Rehabilitation and Community Teams in the Black Countr West Birmingham STP 5.4.3 Figure 9: ESD, Rehabilitation and Community Teams in Coventry & Warwickshire STP 5.4.4 Figure 10: ESD, Rehabilitation and Community Teams in Hereford & Worcester STP 5.4.5 Figure 11: ESD, Rehabilitation and Community Teams in Shropshire, Tell & Wrekin STP 5.4.6 Figure 12: ESD, Rehabilitation and Community Teams in Stafford & Stoke on Trent STP 5.4.7 Figure 13: ESD, Rehabilitation and Community Service Provision in the W Midlands	1517 st181920212223 y &2425 ford27 e28
7	Methodology	
	7.1 Patient and Public Involvement	
8	Rationale and Benefits31	
	8.1 Early Supported Discharge (ESD)	33
	9.1 Regional Pathway 9.2 Regional Standard ESD 9.3 Regional Enhanced ESD	36

11	Risks a	and Interdependencies	44
11 11 12	.2 Pa	ble 3: Risksthway interdependencies	45
13	Specia	list pathways	47
14	Educat	ion and Training	47
	14.1.1	e Stroke Association	Midlands 49
16	Next S	teps	51
17	Append	dices	52
17		ferences & Resources	
17	.2 ES	SD & Rehabilitation Working Group Terms of Reference	53
17	.3 Re	ferral Pathways in the West Midlands (2018)	58
	17.3.1	Birmingham & Solihull STP	58
	17.3.2	The Black Country & West Birmingham STP	
	17.3.3	Coventry & Warwickshire STP	
	17.3.4	Hereford & Worcester STP	
	17.3.5	Shropshire, Telford & Wrekin STP	
	17.3.6	Staffordshire and Stoke on Trent STP	61

## 1 Executive Summary

This paper summarises:

- Current stroke performance of Early Supported Discharge, Inpatient Rehabilitation Beds, Community Rehabilitation Teams, Stroke Outreach Teams and Community Stroke Teams within the West Midlands
- 2. A summary of the programme of work assessing regional rehabilitation service standards for 7 day stroke rehabilitation and care
- 3. The recommendations for improvement in community stroke services across the West Midlands.

2 Foreword

Stroke is one of the most significant causes of death and disability in the West Midlands.

Our ability to prevent stroke and our ability to treat stroke has never been better. Our

challenge is to implement a strategy to deliver prevention, treatment and rehabilitation at

scale to the entire population of the West Midlands. Should we succeed in delivering this

strategy, we will prevent thousands of strokes in the next decade.

For those unfortunate enough to suffer a stroke, we will provide prompt high quality

treatment, including thrombectomy and thrombolysis, coupled to high quality

rehabilitation, to reduce disability and maintain independent living.

I am pleased to have witnessed a great collaborative effort between all stakeholders to

culminate in this stroke strategy for the west midlands and am highly optimistic that

patients and populations will receive high quality stoke care as a consequence.

**Professor Kiran Patel** 

**Medical Director** 

West Midlands

NHS England

3 Summary Statement from Dr Indira Natarajan

It was a great experience as Clinical Director for stroke services across the West

Midlands to support the fantastic collaborative work undertaken by Early Supported

Discharge, Community Stroke, Outreach and rehabilitation teams across the 6 STP

areas. The CVD Clinical Network was incredibly delighted to see how all the dedicated

stroke teams are committed to delivering high quality care for our patients at such a

vulnerable time in their lives.

The purpose of our work is to support the teams to address issues to meet the high

standards of care in the rehabilitation areas of stroke pathway and to deliver these 7 days

a week. We have had the benefit of seeing different models of care being provided in the

ESD and rehabilitation teams, whether they be inpatient or community based, and they

have highlighted and shared their strengths and weakness. We look forward to sharing

this learning with our stroke colleagues across and beyond the region.

We are working closely with each of the organisations trust executives to aid and support

the stroke teams with the delivery of high standards of stroke care, and look forward to

building strong relationships with the teams into the future. A real learning point has been

that a regional approach to solving some difficult issues gives us strength to stand

together and address them with a unified collective approach.

Dr Indira Natarajan

Irana Myan

Clinical Director for Stroke

West Midlands CVD Clinical Network

NHS England

Page 10 of 61

### 4 Background

Stroke is the fourth most common cause of death in the UK and a leading cause of disability. Whilst the reduced prevalence of smoking and high blood pressure has seen the incidence of strokes decline, in excess of 100,000 people in the UK suffer a stroke each year (State of the nation 2018). The West Midlands footprint (Staffordshire, Shropshire, Coventry, Warwickshire, Birmingham, Black Country, Herefordshire and Worcestershire) has a higher than national prevalence of stroke at 1.8% against the national prevalence of 1.7%; in 2017/2018 there were approximately 85,000 strokes nationally with the West Midlands seeing around 8,100 strokes (SSNAP 2017-2018). The number of stroke patients discharged to an Early Supported Discharge Team nationally was 72,788 with 6,840 of those patients residing in the West Midlands (SSNAP 2017-2018).

Together with the social care costs, the cost of all stroke care in the UK for those aged 45 years and over has been estimated at £26 billion a year; with overall costs of stroke rising to £43 billion in 2025 and £75 billion in 2035, an increase of 194% over 20 years (Stroke Association, 2015 & 2018). Based on average costings it is estimated that the total cost of all stroke care is £77 million In the West Midlands.

Moreover, at the start of the last decade the quality of stroke care in England was found to be lagging behind other advanced economies. In recent decades clinical evidence has established that patients treated in specialist acute units have better outcomes. Morbidity and mortality rates could be substantially improved with rapid thrombolysis (the use of "clot busting" drugs), whilst specialist teams and integrated rehabilitation services enable better quality care and faster recovery. The introduction of thrombectomy services will also greatly improve outcomes for patients.

Evidence based models of Early Supported Discharge (ESD) services have resulted in equivalent or better outcomes for mild to moderate stroke patients and their carers', and a significant reduction in hospital length of stay; principal findings in Fisher *et al* (2016) showed that ESD accelerated the recovery of mild to moderate stroke survivors and those patients obtained a sharper recovery trajectory compared to non-ESD patients (Fisher et al, 2016).

### 5 Introduction

Stroke patients require specialist multidisciplinary care and rehabilitation. A centralised model of acute stroke care, in which hyper-acute care is provided to all patients with stroke across an entire metropolitan area, can reduce mortality, reduce length of stay, and improve patient experience. The Five year Forward View stated that by 2017, 25% of urgent and emergency services should comply with four priority clinical standards on every day of the week, rising to half by 2018 and complete coverage by 2020. The NHS Long Term Plan states that significant savings are expected following the implementation and further development of higher intensity care models for stroke rehabilitation, and that by 2020, the NHS will begin improved post-hospital stroke rehabilitation models, with full roll-out over the period of the Long Term Plan (NHS Long Term Plan, 2019).

In the West Midlands it is evident that the performance for stroke services against these priority clinical standards and models requires review to improve performance; this review, regional service standards and the development of higher intensity care models for stroke rehabilitation will improve the outcomes for stroke survivors.

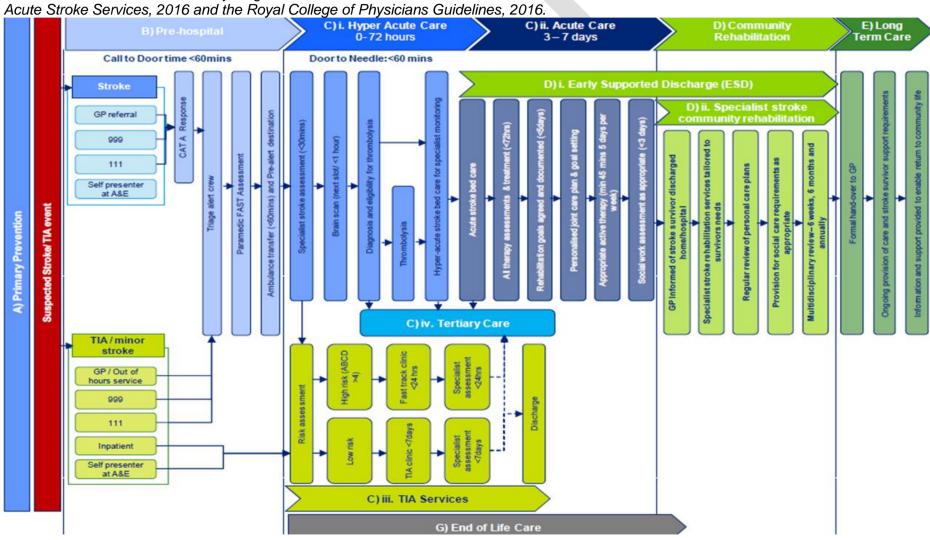
Currently, approximately 38% of West Midland stroke patients are discharged to stroke/neurology specific Early Supported Discharge Teams (SSNAP Annual Report 2017-2018): "Early supported discharge is an intervention for adults after a stroke that allows their care to be transferred from an inpatient environment to a community setting. It enables people to continue their rehabilitation therapy at home, with the same intensity and expertise that they would receive in hospital" (NICE 2016). Community Stroke Teams (CST) provide stroke care and rehabilitation for adults in the community after Early Supported Discharge or immediately after leaving hospital (where no Early Supported Discharge exists).

Following on from the regional recommendation for ESD and community rehabilitation in the report 'Stroke Care in the West Midlands: Clinical Review for the delivery of 7 Day Stroke Services' published in September 2018: **Commitment from commissioners is required to ensure equitable access to ESD and community rehab is achieved across the region.** The development of robust pathways is a

necessity. The West Midlands Cardiovascular (CVD) Clinical Network has established and worked collaboratively with the West Midlands ESD & Rehabilitation Working Group to develop and agree gold standard stroke care in the West Midlands based on the National Stroke Care Pathway (Stroke Services: Guidance for STP's on recommended standards for Acute Stroke Services, 2016 (figure 1)), NICE guidance (2013 and 2016) and RCP guidelines (2016). (Terms of reference for the working group can be found in the appendix (section 19.2).

### 5.1 Figure 1: National Stroke Care Pathway

The National Stroke Care Pathway diagram taken from the document Stroke Services: Guidance for STP's on recommended standards for



#### **5.2 Current Performance**

The Sentinel Stroke National Audit Programme (SSNAP) is the single source of stroke data in England, Wales and Northern Ireland (table 1). The results in this table should be read in combination with the SSNAP Summary Report which includes named team results for the 44 key indicators comprising of the 10 domains. Full details, including access to this report and SSNAP data are available to download from SSNAP and the Royal College of Physicians (RCP) website: www.strokeaudit.org/results.

National expectations are for, teams to achieve A or B SSNAP grade, such scores are indicative of world-class stroke care and a good or excellent service in many aspects respectively. A SSNAP score of a C or less would suggest that some or several areas of care require improvement (SSNAP Public Report, 2017).

West Midlands SSNAP benchmarking data (table 1; page 17) shows data submitted between July 2018 and September 2018, with this being the latest SSNAP summary release at the time of this report.

SSNAP data highlighted first class services in the following non-acute inpatient services:

- 2 teams (Moseley Hall Stroke Rehabilitation Unit [Birmingham & Solihull] and Feldon Stroke Rehabilitation Unit [Coventry & Warwickshire]) were rated A in their overall SSNAP level
- 4 teams (Moseley Hall Stroke Rehabilitation Unit [Birmingham & Solihull],
   Staffordshire Rehabilitation Team, Feldon Stroke Rehabilitation Unit) and
   Worcestershire Stroke Rehabilitation Unit) were rated A in relation to occupational therapy.
- 3 teams (Staffordshire Rehabilitation Team, Feldon Stroke Rehabilitation Unit [Coventry & Warwickshire]) and Worcestershire Stroke Rehabilitation Unit) were rated A in relation to physiotherapy and one team (Moseley Hall Stroke Rehabilitation Unit) were rated B.
- 2 teams (Moseley Hall Stroke Rehabilitation Unit [Birmingham & Solihull] and Feldon Stroke Rehabilitation Unit [Coventry & Warwickshire]) were rated A and B respectively for speech and language therapy.

Therefore out of the 4 rehabilitation units across the region 2 are rated A and 2 are rated B overall in their SSNAP level score. This highlights the variation in commissioned non-acute inpatient rehabilitation services as there are only 4 units in 6 STP areas.

SSNAP data for non-acute inpatient rehabilitation services also highlighted that improvements are required in 2 teams for speech and language therapy (Staffordshire Rehabilitation Team and Worcestershire Stroke Rehabilitation Unit); this is due staffing issues.

With regards to Speech and Language Therapy (SLT), it must be highlighted that there is a known National shortage of Speech and Language Therapists impacting centres across the UK and is not an issue localised to the West Midlands. The shortage of SLT is listed on the National database for skills shortages <a href="https://www.gov.uk/guidance/immigration-rules/immigration-rules-appendix-k-shortage-occupation-list">https://www.gov.uk/guidance/immigration-rules/immigration-rules-appendix-k-shortage-occupation-list</a>.

In the West Midlands, out of the total 12 routinely admitting rehabilitation teams in acute patient services in the West Midlands recorded by SSNAP (excluding Burton on Trent), 3 teams are rated A, 1 team is rated B, 5 teams are rated C and 3 teams are rated D overall in their SSNAP level score.

For the 3 therapeutic areas (occupational therapy, physiotherapy and speech and language therapy), SSNAP reported a range of scores from A to E (figure 5.2.1 Table A). This highlights the variation in commissioned acute rehabilitation services across the region and how this can impact on long term patient outcomes in areas that are not providing services that match other A rated areas. They are also seen as fragile services nationally.

Out of the 4 non-routinely admitting teams, SSNAP data highlighted that the Royal Shrewsbury Hospital requires several improvements in all 3 therapeutic areas: occupational therapy, physiotherapy and speech and language therapy (Figure 5.2.1 Table B).

SSNAP does not directly report data for clinical psychology and dietetic input in the SSNAP level score which are integral parts of the stroke care pathway.

### 5.2.1 Table 1: West Midlands SSNAP Data (July 2018 to September 2018)

A: Team-centred results for routinely admitting teams

Routinely Admitting Teams	Number o	f patients	C	verall Pe	rforma	nce	Team Centred Data											
Team Name	Admit	Disch	SSNAP Level	CA	AC	Combined KI Level	D1 Scan	D2 su	D3 Throm	D4 Spec	D5 OT	D6 PT	D7 SALT	D8 MDT	D9 Std	D10 Disch	TC KI Level	
Russells Hall Hospital	131	133	A	A	в↓	A	_	В	В↑	Asst	В↑	В↑	В	В	Disch B↓	Proc	Δ	
· · · · · · · · · · · · · · · · · · ·		41					A	-			D-II-					Α.		
George Eliot Hospital	40		c↑	A	C	B个个	С	Ł	_	B个个	Allii	A↑↑↑	C↑	A↑	A↑	C	B个个	
New Cross Hospital	230	225	D	A	c∱	D↓	B↑	С	D↓	D	Α	В↓	С	С	D↑	D	С	
Sandwell District Hospital	155	161	c↑	A	В	В	A	С	В	A↑	c↓	c∱	E₩	В	В	В↑	В	
Princess Royal Hospital Telford	213	216	C↑	Α	В	B个个	B↑	c↑	С	С	A↑↑	B个个	E	С	В	Α	B个个	
Warwick Hospital	62	68	С	Α	Α	С	D	EΨ	NA	D↓	Α	Α	D↓	В	Α	D	С	
Birmingham Heartlands Hospital	237	241	A	Α	Α	Α	A↑	D↓	В	Α	Α	В	c↓	В	В	Α	Α	
Queen Elizabeth Hospital Edgbaston	146	134	c↑	в↓	Α	c↑	В↑	D	С	С	С	В↑	c个个	D	B个个	A↑	C↑	
University Hospital Coventry	192	190	В↓	A	Α	в↓	Α	D	В↓	С	В↓	В↓	С	В	В	A	в↓	
Queens Hospital Burton upon Trent	74	82	D↓	c↑↓	С	c	Α	c↑	D	D	Α	В↓	С	B↑	D↓	c↓	С	
Royal Stoke University Hospital	278	328	A	Α	Α	A	A	С	в↓	Α	Α	Α	D↓	A	В	Α	Α	
Worcestershire Royal Hospital	238	250	D	A	С	D↓	c∱	Е	D	D↓	A	Α	D	Εψψ	С	C↑	D↓	
Hereford County Hospital	124	117	D↓	В↓	Α	D↓	c↓	Е	Εψ	c↓	С	В	D↓	В↑	Α	c↓	D↓	

# B: Team-centred results for Non-routinely admitting / Non-Acute Inpatient Teams

Non-Routinely Admitting Teams	Number o	f patients	Overall Performance			Team Centred Data											
<u> </u>			SSNAP			Combined	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	TC KI
Team Name	Admit	Disch	Level	CA	AC	KI Level	Scan	SU	Throm	Spec Asst	ОТ	PT	SALT	MDT	Std Disch	Disch Proc	Level
Royal Shrewsbury Hospital	TFP	23	TFP	A	D	TFP	NA	Е	NA	NA	E	Ε	Ε	NA	NA	NA	TFP
Good Hope General Hospital	TFP	60	С	Α	Α	С	NA	c↑	NA	NA	В	A↑	Ε	NA	в↓	A	В
Solihull Hospital	TFP	54	c↓	Α	Α	c↓	NA	в↓	NA	NA	C	D	E↓	NA	В↓	A	c↓
County Hospital	TFP	TFP	TFP	NA	TFP	TFP	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	TFP
Non -Acute Inpatient Teams	Number o	f patients	Overall Performance						Team Centred Data								
			SSNAP			Combined	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	TC KI
Team Name	Admit	Disch	Level	CA	AC	KI Level	Scan	SU	Throm	Spec	ОТ	PT	SALT	MDT	Std	Disch	Level
										Asst			_		Disch	Proc	
Moseley Hall Stroke Rehabilitation Unit	TFP	30	A↑	. A	A↑↑	A↑	NA	Α	NA	NA	A↑	В	A↑↑	NA	A↑	c∱	A↑
Staffordshire Rehabilitation Team	TFP	32	в↓	Α	c↓	Α	NA	Α	NA	NA	Α	Α	Е	NA	В↑	A	A↑
Feldon Stroke Rehabilitation Unit SWFT	TFP	36	Α	Α	В	Α	NA	Α	NA	NA	Α	Α	B↑	NA	Α	С	Α
Worcestershire Stroke Rehabilitation Unit	TFP	54	В↑	A↑	С	A↑	NA	Α	NA	NA	A↑	A↑	Е	NA	в∱	A↑	A↑

SSNAP data (July 2018 - September 2018; figure 2 below) demonstrates the number of patients seen in the West Midlands by an ESD or CST team in the acute setting. The geographical areas that these teams cover can be seen in figures 7 to 13.

# 5.2.2 Figure 2: Patients discharged with a Stroke Skilled ESD Team in the West Midlands

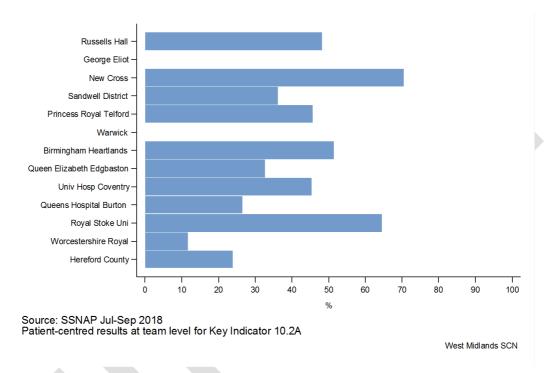


Figure 2 suggests that teams across the region are discharging a wide range of percentage (%) caseload through Early Supported Discharge; the figure also highlights that only up to approximately 70% of stroke patients in the West Midlands are able to access ESD with skilled ESD team, however it must be noted that not all services have an ESD team and those patients treated in a stroke outreach or community team cannot be recorded in SSNAP in this domain; for example, Warwick has a Stroke Outreach Team and Worcestershire has a Community Stroke Rehabilitation Team that both provide stroke specific therapy to patients after discharge.

SSNAP data (July 2018 - September 2018) demonstrates the compliance of rehabilitation therapy teams (non-routinely admitting teams) in the West Midlands for the three therapeutic areas: occupational therapy, physiotherapy and speech and language therapy as shown in figures 3, 4 and 5.

### 5.2.3 Figure 3: Compliance to National Target: Occupational Therapy

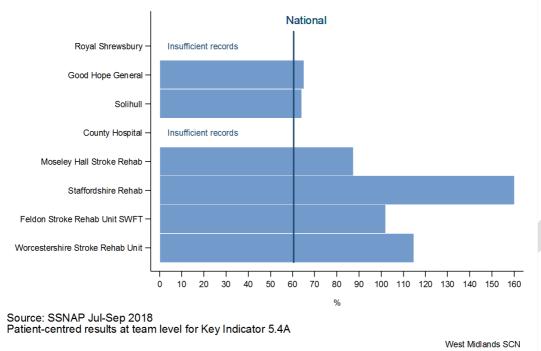


Figure 3 illustrates that the West Midlands is meeting the compliance (%) against the occupational therapy target.

### 5.2.4 Figure 4: Compliance to National Target: Physiotherapy

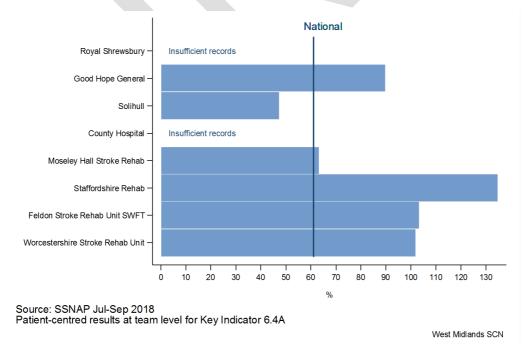
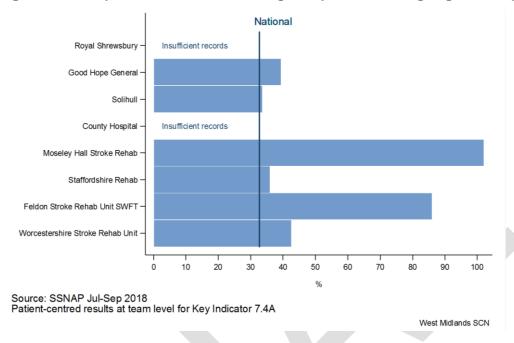


Figure 4 demonstrates that out of the 6 rehabilitation teams reported in the region, 5 teams are meeting the compliance (%) against the physiotherapy target.



### 5.2.5 Figure 5: Compliance to National Target: Speech & Language Therapy

Figure 5 highlights that the West Midlands teams are meeting the compliance (%) against the speech and language therapy target.

The impact of therapy on patient outcomes is substantial; a survey conducted by the Stroke Association in England in 2016 stated that patients felt that the physical effects of stroke were the most difficult to deal with, with 27% of patients stating that access to rehabilitation and support was poor (Stroke Association, 2016).

## 5.3 Reduced Length of Stay

To predict the potential impact of extending access to specialist ESD services on length of stay (LoS), modelling work was commissioned and directed by the West Midlands CVD Clinical Network from Midlands and Lancashire Commission support Strategy Unit in 2018.

Given the availability of detailed data, modelling work included Identifying eligible mild/moderate stroke patients, using SSNAP data to determine current ESD coverage at each stroke unit, applying a nominal 2-day reduction in LOS for each patient (Fisher et al, 2016) and to moderate the above reduction based on the scope of that unit to extend access to ESD to a nationally recognised 60% target.

The modelling work takes a baseline of inpatient activity data (2017/18) and applies adjustments for the following:

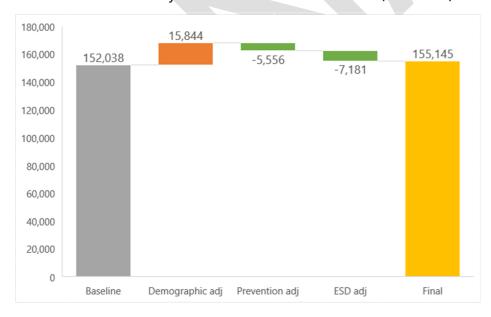
- Estimated demographic changes in the underlying population
- Plans for primary (health checks) and secondary (AF/BP management)
   prevention

The resulting analysis identified that extending access to specialist ESD could release **22 additional beds** in HASU, ASU and other IP rehab settings in the region for alternative use (figure 6). Prevention programmes could also offset this by 17 beds resulting in cost savings with bed days being saved.

### 5.3.1 Figure 6: The impact of ESD on Length of Stay

The graph below shows modelled stroke bed days on the population of the West Midlands. The calculations take into consideration demographic changes and prevention projects alongside the impact of a fully resourced ESD team. The final bed day calculation saving is equivalent to an additional 22 bed days.

#### Modelled stroke bed days for West Midlands residents 2017/18 to 2022/23



Notes: Baseline is the number of stroke patients in the West Midlands and equivalent of 463 beds in HASU, ASU and other IP rehab settings.

Demographic adj is the subnational population projections by CCG of residence, single year of age and gender Demographic growth could require an additional 48 beds.

Prevention adj assumes by 2023 that there will be an increase of 10% health check population coverage across the region and GP's will halve the gap from current to optimal care of Hypertension and AF patients.

The cost savings from additional bed days could be used to support other services within the stroke care rehabilitation pathway, for example, long term care.

### 5.4 Table 2: ESD & Rehabilitation Teams in the West Midlands

The table below outlines the Early Supported Discharge and Rehabilitation teams in each STP in the West Midlands.

STP	ESD or Outreach Teams	Community Teams				
Birmingham & Solihull	Birmingham Heartlands Hospital ESD	CST Birmingham (North, East, West &				
	(Heartlands, Good Hope & Solihull (HGS))	Central Birmingham)				
	Birmingham Community Healthcare NHS	Birmingham Neuro Rehabilitation Team				
	Trust (BCHC) ESD (South, Central & Cross	(South Birmingham)				
	City Birmingham)					
		Community Neuro Physio (South, Central & North Birmingham)				
		a North Birringham)				
Division of the state of the st	D   0	Solihull Neuro Team (South Birmingham)				
Black Country & West Birmingham	Dudley Group NHS Foundation Trust ESD	CST Dudley Stroke Rehabilitation Service				
2 minigham	Sandwell & West Birmingham NHS Trust					
	ESD					
	Royal Wolverhampton NHS Trust ESD	Outpatient Community Occupational				
	(Wolverhampton & Seisdon Peninsula)	Therapy				
		Specialist Community Stroke Team				
		(Walsall)				
		Cannock Community Stroke Team				
		Community Stroke Services				
Coventus 9	Charles Outropole Toors (North)	(Stafford/Seisdon Peninsula)				
Coventry & Warwickshire	Stroke Outreach Team (North)	Community SALT/Dietetics				
	Rugby ESD	Generic Community Team				
	Coventry & Warwickshire Portnership Trust	Community SALT/Distition/Physiotherapist				
	Coventry & Warwickshire Partnership Trust ESD	Community SALT/Dietitian/Physiotherapist				
		Community Dietitian				
	Stroke Outreach Team (South)					
Hereford & Worcester	Hereford County Hospital ESD	Community Stroke Team (Worcester)				
	Community Strate Toom (Moreontin)	Neuro Dobobilitation Toom				
Shropshire, Telford &	Community Stroke Team (Worcester) Shrewsbury & Telford Hospitals NHS Trust	Neuro Rehabilitation Team Community Neuro Rehabilitation Team				
Wrekin	ESD ESD	(based in Shrewsbury)				
Staffordshire & Stoke	University Hespitals of North Midlands NUS	Community Stroke Team (Cheshire)				
on Trent	University Hospitals of North Midlands NHS Trust Enhanced ESD (Cheshire, Stoke,	Community Stroke Team (Cheshire)				
	Stafford)	Neuro Community Team (Macclesfield)				
	ESD (Chashira East)					
	ESD (Cheshire East)					

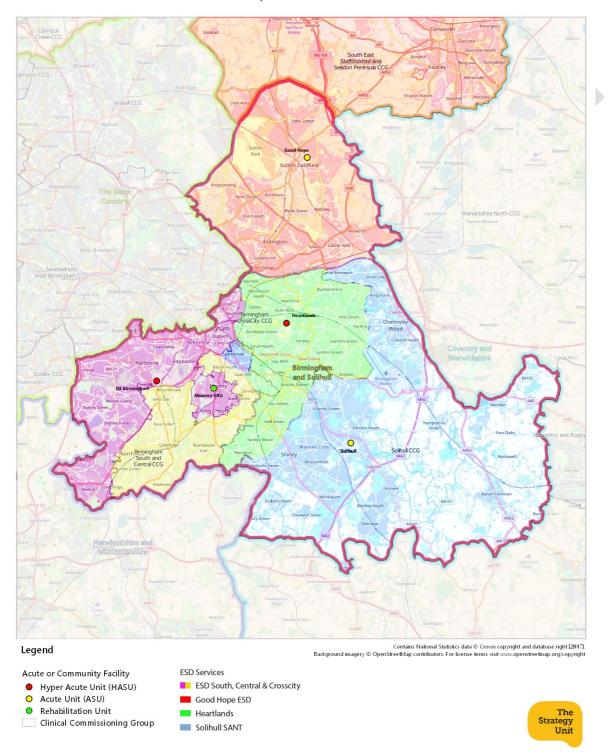
The table above highlights the variation across the region; in some STP areas there are no ESD teams available and in others, there is no CST. This emphasises the commissioning difference across the West Midlands and the high variance in outcomes for stroke patients.

Maps of services per STP area are shown in figures 7 to 13.

Referral pathways in each STP are shown Appendix (number); section 19.3. Information gathered June – October 2018.

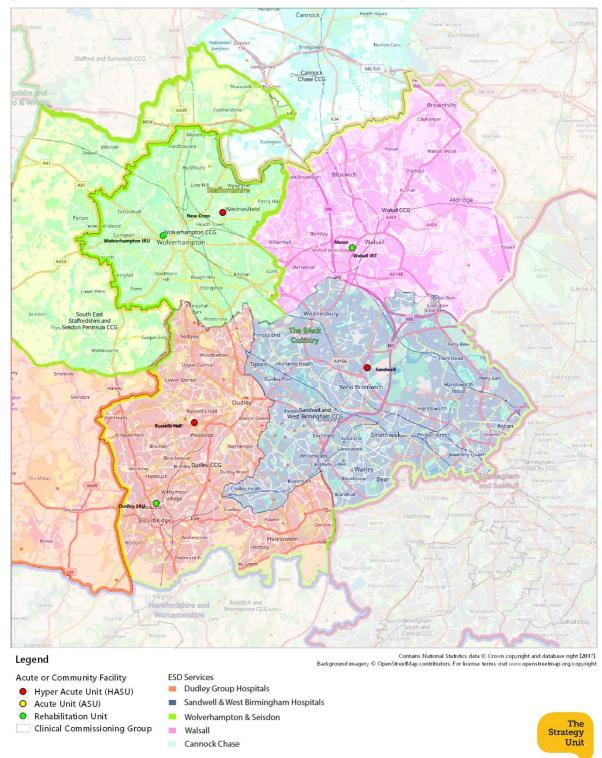
# 5.4.1 Figure 7: ESD, Rehabilitation and Community Teams in Birmingham & Solihull STP

The map below shows the geographical area of Birmingham & Solihull STP; the STP has a population of 1,164k with a stroke incidence of 1,516 in 2017/2018. The estimated stroke incidence is 1,553 in 2022/2023.



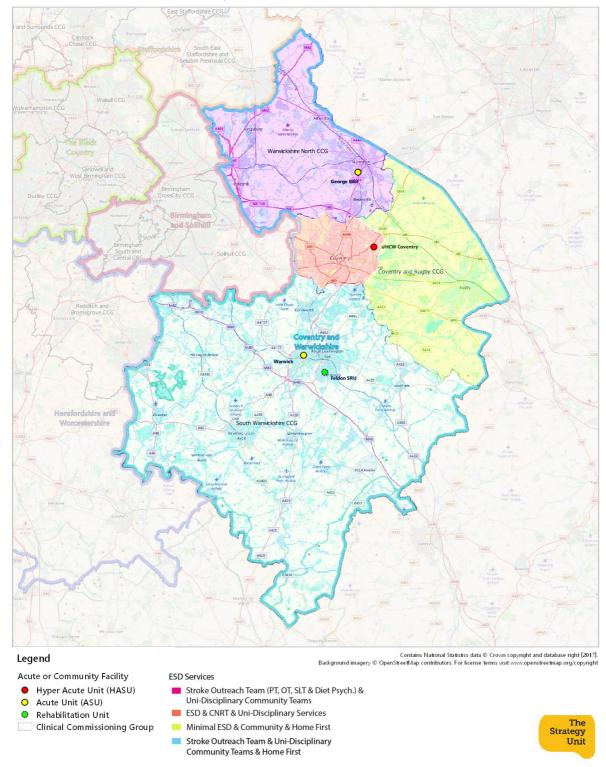
# 5.4.2 Figure 8: ESD, Rehabilitation and Community Teams in the Black Country & West Birmingham STP

The map below shows the geographical area of the Black Country & West Birmingham STP; the STP has a population of 1,348k with a stroke incidence of 1,839 in 2017/2018. The estimated stroke incidence is 1,906 in 2022/2023.



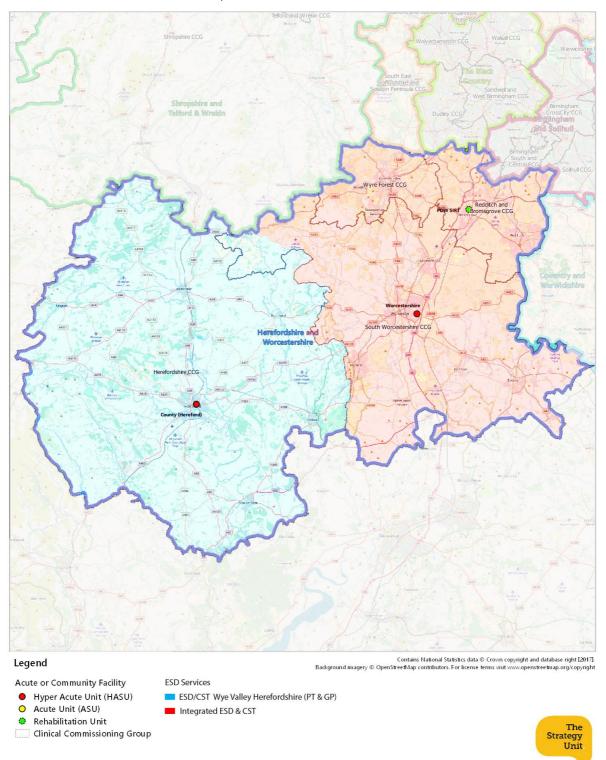
# 5.4.3 Figure 9: ESD, Rehabilitation and Community Teams in Coventry & Warwickshire STP

The map below shows the geographical area of Coventry & Warwickshire STP; the STP has a population of 910k with a stroke incidence of 1,324 in 2017/2018. The estimated stroke incidence is 1,438 in 2022/2023.



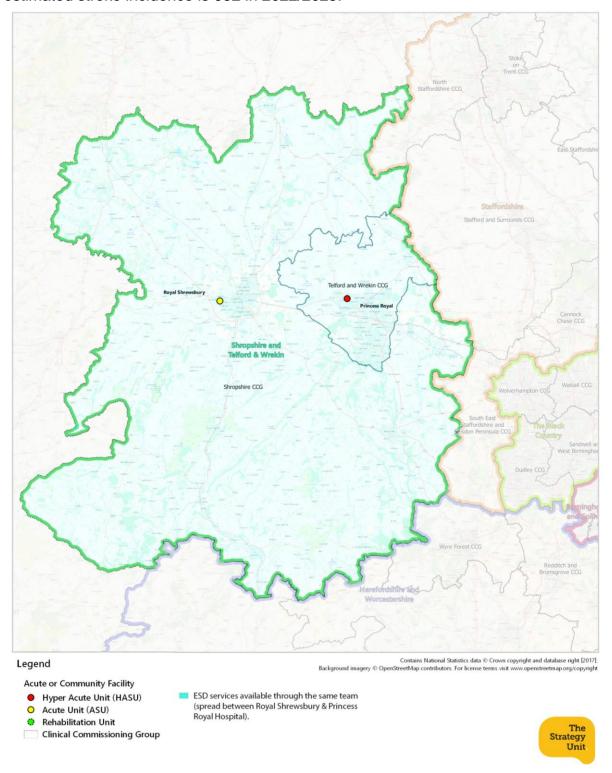
# 5.4.4 Figure 10: ESD, Rehabilitation and Community Teams in Hereford & Worcester STP

The map below shows the geographical area of Hereford & Worcester STP; the STP has a population of 773k with a stroke incidence of 1,314 in 2017/2018. The estimated stroke incidence is 1,471 in 2022/2023.



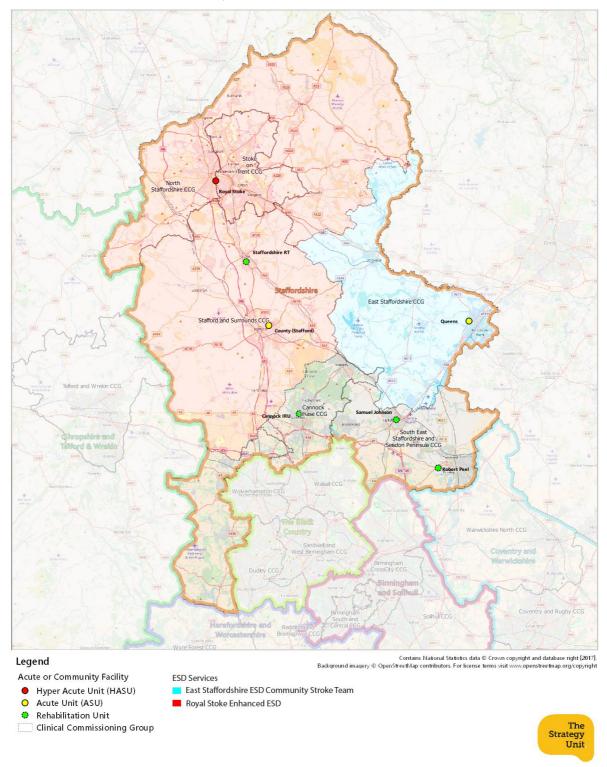
# 5.4.5 Figure 11: ESD, Rehabilitation and Community Teams in Shropshire, Telford & Wrekin STP

The map below shows the geographical area of Shropshire, Telford & Wrekin STP; the STP has a population of 486k with a stroke incidence of 874 in 2017/2018. The estimated stroke incidence is 932 in 2022/2023.



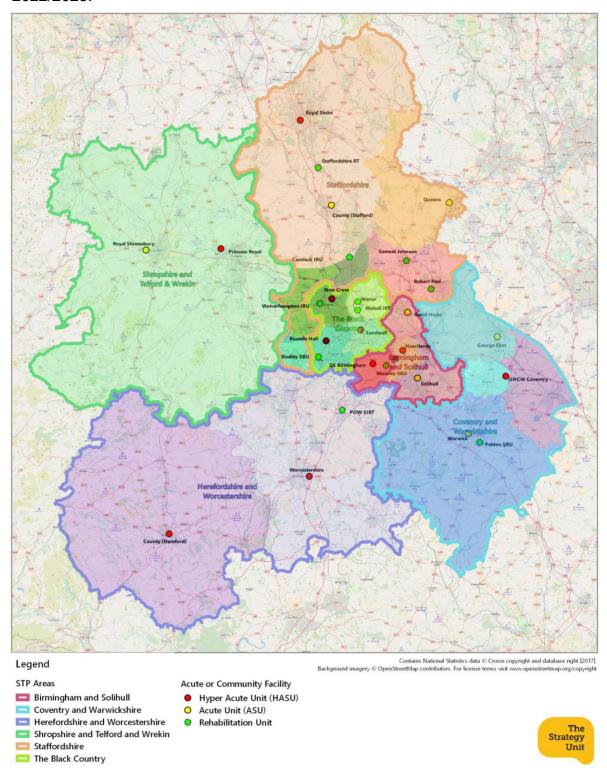
# 5.4.6 Figure 12: ESD, Rehabilitation and Community Teams in Stafford & Stoke on Trent STP

The map below shows the geographical area of Stafford & Stoke on Trent STP; the STP has a population of 1120k with a stroke incidence of 1,616 in 2017/2018. The estimated stroke incidence is 1,757 in 2022/2023.



# 5.4.7 Figure 13: ESD, Rehabilitation and Community Service Provision in the West Midlands

The West Midlands has a population of 5.8 million with a total stroke incidence of 8,483 in 2017/2018. The estimated stroke incidence for the region is 9,057 in 2022/2023.



### 6 Scope

This document should be read by all commissioning and clinical staff responsible for the management of services for stroke patients in an Early Supported Discharge or rehabilitation role. This document would be beneficial for use in primary care, community support, local authority, third sector charities and voluntary services that will all have contact with stroke patients after discharge.

This document applies equally to staff in a permanent, temporary, voluntary or contractor role acting for or on behalf of any local stroke unit, trust, CCG or community trust.

### 7 Methodology

ESD, stroke outreach, community rehabilitation, inpatient bedded rehabilitation units and community stroke team members were nominated from each Hyper-Acute Stroke Unit (HASU) clinical lead for stroke to participate in the West Midlands ESD & Rehabilitation Working Group supported by the West Midlands Cardiovascular (WM CVD) Clinical Network.

Core specialist professions included:

- Occupational therapy
- Physiotherapy
- Speech and language therapy
- Dietitian
- Psychology
- Stroke medicine
- Stroke nurse
- Social services

The WM CVD Clinical Network team and project lead (a local Stroke Consultant and Service Clinical Lead) invited all nominated colleagues from each STP area to take part in the programme of work and conducted regional meetings exploring the

following: ESD, community beds, community stroke teams, 6-month follow-up and long term follow-up.

Within the regional meetings colleagues from each profession and STP were nominated to participate in a core task and finish group.

The West Midlands CVD network aims to produce supporting documents for commissioners based on this work and provide regional recommendations to enable effective and sustainable commissioning of 7 day services for ESD and rehabilitation for stroke patients.

#### 7.1 Patient and Public Involvement

The Stroke Association reviewed and approved this document in December 2018 on behalf of stroke patients, their families and their carer's.

### 8 Rationale and Benefits

### 8.1 Early Supported Discharge (ESD)

There is a large body of evidence to support ESD after stroke, suggesting that this approach can deliver positive clinical outcomes whilst improving quality of life, without adverse effects (Langhorne and Baylan 2017, Fisher *et al.* 2016 & 2011).

The key aims of ESD are:

- To provide rehabilitation in the patient's home environment at an intensity equivalent to national standards (45 minutes of each required therapy per day where the patient can tolerate this (NICE 2016))
- To reduce the risk of re-admission into hospital for stroke related problems.
- To increase patient independence
- To improve quality of life for the patient.
- To support the patient, carers and family

Although ESD is an accepted and a widely implemented approach to stroke rehabilitation, not all patients can be cared for on an ESD pathway or are not on a stroke specific ESD pathway. NICE Quality Standards for Stroke were updated in 2016 to include the recommendation that ESD is offered to patients where the MDT

agree if it is suitable and can be delivered safely. The decision to offer ESD should be made by collaborative discussion between the patient and family, and core members of the MDT (NICE 2016).

The criteria for patient suitability for treatment by an ESD team are widely published. Patients should be considered for ESD if they are able to transfer from bed to chair independently or with assistance, as long as a safe and secure environment can be provided (NICE 2013). Patients meeting these criteria are commonly referred to as having "mild to moderate" stroke symptoms.

Benefits of an ESD service as part of a **stroke care pathway**;

#### For commissioners:

- ESD can expedite discharge from hospital; "ESD in a multidisciplinary setting is beneficial for patients with mild to moderate stroke and is a likely cause of the significant reduction in length of stay in stroke units in these patients" (Action on Stroke, 2018)
- ESD improves patient flow
- ESD improves performance against key measures in SSNAP
- Monitory savings

#### For patients and carer's

- Improved patient experience from acute to community services
- Improved outcomes for stroke survivors
- Benefits of patients being treated at home with no increase in carer stress (Langhorne & Baylan, 2017)
- ESD can avoid potential complications of prolonged hospital stays

### For primary care

- ESD can work closely with community teams and alongside third sector charities
- ESD can provide GPs with a community link to a stroke specialist team

A well-resourced ESD can lead on the initiation and provision of secondary prevention interventions such as exercise, smoking cessation, safe alcohol intake, managing other diet related conditions and maintaining a good nutritional intake to support rehabilitation.

### 8.2 Enhanced ESD (EESD)

Standard ESD has become routine practice to varying degrees across the UK. The expectation is that 40% of patients with stroke can be managed through such a service. In the West Midlands approximately 38% patients currently receive ESD (SSNAP Annual Report 2017-2018).

SSNAP reports, anecdotal evidence and clinical experts are suggestive that the percentage of patients who could be safely discharged with ESD could increase with some enhancements to the service model. This increase could be achieved by accepting a more dependent cohort of patients (an enhanced cohort) into ESD services. These patients could be considered to have "moderate to severe" stroke symptoms.

The predicted benefits of Enhanced Early Supported Discharge are:

- Patients with higher levels of dependency could be discharged from the acute hospital setting sooner, avoiding the potential complications of a long hospital stay.
- Patients and families could still receive high intensity rehabilitation programs to that provided in hospital.
- Patients would not necessarily achieve a discharge as early as those on an ESD pathway, but would potentially achieve a shorter length of stay than in current practice.
- Reduce pressure on in-patient rehabilitation beds, improving patient flow and increased bed capacity
- Improve performance against key measures in SSNAP
- Clinical outcomes could be equal to or better than hospital based care due to provision of rehabilitation in the patient's familiar environment.

Unlike ESD, the model for EESD is as yet untested. EESD would need to be provided by a fully coordinated team. This team would need to have higher levels of expertise in order to manage the increased level of complexity, and be resourced to meet the care and rehabilitation needs of highly dependent patients.

Where Enhanced Early Supported Discharge services are developed and commissioned, participation in SSNAP should be mandated in order to provide an evaluation mechanism.

## 9 Regional Pathway & Standards

The West Midlands Cardiovascular (CVD) Clinical Network has worked collaboratively with the West Midlands ESD & Rehabilitation Working Group to develop and agree gold standard stroke care in the West Midlands.

The flow chart below describes how a regionally agreed pathway could be implemented. Using the National Stroke Care Pathway (Stroke Services: Guidance for STP's on recommended standards for Acute Stroke Services, 2016), the West Midlands ESD & Rehabilitation Core Working Group and project lead developed the regional pathway as shown in section 9.1. This pathway was subsequently reviewed, amended and approved by the West Midlands ESD & Rehabilitation Working Group, followed by the Stroke Association, NHS England, the West Midland Stroke Expert Advisory Group and the West Midlands Stroke STP Programme Board.

### 9.1 Regional Pathway

Acute stroke bed care All therapy assessments & Early Supported Discharge (ESD) & Specialist Stroke Community treatment (<72 hrs) Rehabilitation goals agreed & documented (plan) (< 5 days) Personalised joint care plan & goal setting Appropriate active therapy (minimum 45 minutes 5 days per week) Social work assessment as appropriate (<3 days) Safe transfer of care from hospital to community GP informed of stroke survivor discharged home/hospital. GP takes medical responsibility for patients Specialist stroke rehabilitation services tailored to survivors needs Regular MDT review of personal care plans & goals Provision for social care requirements Referral as appropriate

Specialist consultations/advice from stroke teams as

needed

MDT review of patient including: therapy, psychology & dietetics.

- 6 weeks, 6 months & annually (community)
- Weekly MDT reviews in ESD with rehabilitation potential & goals met recorded

Formal hand over to GP

Ongoing provision of care and stroke survivor support requirements addressed by 3rd sector specialist charities:

Information and support provided to enable return to community life including return to work and peer support options such as support groups & digital/online support via apps (e.g. My Stroke Guide)

### 9.2 Regional Standard ESD

The table below contains the regional standard ESD service standards recommended by the WM CVD Clinical Network and developed by the West Midlands ESD & Rehabilitation Core Working Group to achieve gold standard stroke care. Regional standards were based on NICE Quality Standard [QS2], The Royal College of Physicians (RCP) National Clinical Guidance for Stroke (5th Edition; 2016), the NHS England Midlands and East Stroke Service Specification (2012), alongside the experience and expertise of specialist clinicians in stroke care rehabilitation. The standards were subsequently reviewed by the West Midlands ESD & Rehabilitation Working Group.

### Service Standards for Standard ESD<sup>1,2</sup>

#### Definition

Early Supported Discharge (ESD): Early supported discharge is rapid access to intense rehabilitation and community based assessment by a stroke specialist core MDT. It enables patients with stroke to leave hospital sooner, and receive the same quality and quantity of rehabilitation that would be provided in hospital. ESD should meet RCP guidelines<sup>2</sup> whilst allowing flexibility for individual patients' clinical needs.

# Workforce\* \*WTEs are based on RCP guidelines plus regional clinical opinion from the West Midlands ESD & Rehabilitation Working Group. This includes faceto-face clinical and

non-clinical time.

Core MDT to consist of (per 100 caseload per year/WTE<sup>3</sup>) with a designated clinical lead:

• consultant physicians (0.1)

- nurses (1.2)
- physiotherapists (1)
- occupational therapists (1-1.5)
- speech and language therapists (0.4)
- dietitians (0.2)
- clinical psychologists/neuropsychologists (0.5)
- rehabilitation assistants (2-2.5)
- social workers (0.5)
- dedicated administrative support (1)

This will need to be localised to meet geographical requirements such as widespread rural populations. Where a single member of a profession or less than 1 WTE is required the post will need to be embedded within a whole stroke pathway in order to maintain clinical competencies and governance (clinical supervision, training, peer support and case review for example). In regards to rehabilitation assistants the skill mix and competencies should be locally agreed. For example 1WTE B4 & 1.5WTE B2-3. Having a higher banded assistant could enhance patient access to rehabilitation.

Patient cohort	ESD will accept confirmed stroke patients from any location, with identified rehabilitation goals that will benefit from therapy.  Patients accessing ESD are mild to moderate in stroke severity and dependency: Teams need to use a stratification based on severity such as NIHSS, Bartel. Modified Rankin (MRS) or NEADL for example. Teams could consider using a scale to stratify patients locally or agree local clinical criteria.  They may complete their rehabilitation programme within their time with an ESD team or require long term support and follow up  Some patients will require ongoing rehabilitation at completion of ESD and will require referral onwards  Patients requiring only 1 core MDT should not be prevented from accessing ESD
Pathway and timelines	ESD will take confirmed stroke patients <b>from day 0 up to 6 weeks post-stroke</b> .  Rapid access to packages of care or care home placement is required to achieve early safe discharge.  ESD services should work towards an average LOS of 6 weeks within the ESD team, to prevent hand-over of care to CST for patients who are within days of completing their rehabilitation.  After a period of 6 weeks, <u>all</u> patients should have equal and timely access to CST for continued rehabilitation where required to ensure an equity of intensity.  All patients should have a clear plan for 6 week stroke medical follow up, and 6 month stroke follow up in place with flexibility to meet individual patient needs.  A plan should be in place to hand over care to the patient's GP within a locally agreed timeframe.
Therapy	Patients <b>should be offered</b> 45 minutes per day, per therapy discipline, 5 days per week <sup>2</sup> for up to 6 weeks from the start of ESD input (or medically stable in exceptional circumstances) if clinically indicated. Therapy provision should meet professional standards therefore could be delivered by a supervised non-registered team member following assessment by a registered therapist.
Service	7 days a week
provision	
% Caseload	National guidance of 40% <sup>2</sup> with conditions:  1. Any start point (day 0), until 6 weeks post stroke.  2. Accepting referrals from any part of the stroke pathway (HASU, ASU, RSU, community, ED, TIA clinic)  3. Accepting referrals from a thrombectomy pathway (from a Comprehensive Stroke Unit)
ESD Criteria	<ol> <li>Clinical or radiological diagnosis of stroke</li> <li>Transfer independently or with assistance of 1 +/- equipment requiring one person to use</li> <li>Clinically stable and fit for discharge, or needs can be met by GP and/ or advice from HASU/ ASU</li> </ol>

	4. Continence management plan (including overnight plan)
	<ol> <li>Medication management plan</li> <li>Nutrition and hydration management plan to optimise rehabilitation potential managed by dietetics</li> <li>Skin care management plan</li> <li>Mental health screen/mood and emotion screen completed in order to plan safe discharge</li> <li>Cognition and communication screen/ assessment in order to plan safe discharge</li> <li>All patients should have access to ESD if they meet the criteria regardless of their permanent address</li> <li>Social needs – patient and carer needs to be assessed, and care package in place prior to discharge to ESD</li> <li>ESD pathway to be discussed with the patient and patients' family/ carer. Benefits and any disadvantages to be discussed prior to discharge</li> <li>Discharge destination safe for provision of rehabilitation (space for equipment, safe for workforce to attend)</li> </ol>
Clinical Delivery Model	A Qualified/Registered ESD team member to assess & treat patients within 24 hours as per RCP guidelines <sup>2</sup>
Ratio of staff (therapy)	Qualified/registered: 70% Un-qualified/non-registered: 30%
Estates	<ul> <li>equipment at home (Staff to have access to 7 day buffer stock for equipment)</li> <li>gym or rehab facilities where required</li> <li>access into the community,</li> <li>transport (volunteer drivers/contracts for example) where required</li> <li>accommodation for ESD team to be based together for effective team working</li> <li>In order to support the function of ESD, IT infrastructure needs to be reviewed.</li> </ul>
Key Performance Indicators (KPI's)	<ol> <li>Completion of SSNAP</li> <li>Clinical impairment outcome measure</li> <li>Patient satisfaction outcome measure</li> <li>Quality of Life outcome measure</li> <li>Carers support/experience</li> </ol>
Guidelines	NICE Quality Standard [QS2] <sup>1</sup> Royal College of Physicians (RCP) 2016 National Clinical Guidance for Stroke (5th Edition) <sup>2</sup> NHS England Midlands and East Stroke Service Specification (2012) <sup>3</sup>

### 9.3 Regional Enhanced ESD

The table below contains the regional Enhanced ESD service standards recommended by the WM CVD Clinical Network and developed by the West Midlands ESD & Rehabilitation Core Working Group to achieve gold standard stroke care for stroke patients with a higher level of dependency. Regional standards were based on NICE Quality Standard [QS2], The Royal College of Physicians (RCP) National Clinical Guidance for Stroke (5th Edition; 2016), the NHS England Midlands and East Stroke Service Specification (2012), alongside the experience and expertise of specialist clinicians in stroke care rehabilitation including a clinical lead who has developed and initiated an enhanced ESD pilot in their local STP. The standards were subsequently reviewed by the West Midlands ESD & Rehabilitation Working Group.

Sarvica	Standarde	for Enhanced	ESD1,2
SELVICE	Statituatus	TOT ETITIATICED	EOD

_		10.20		
1 14	∍fir	1 I I I	<b>∩</b> n	1
	7 I I I	HU	OH	

Enhanced Early Supported Discharge (EESD): Enhanced Early supported discharge is rapid access to **highly specialised** intense rehabilitation and community based assessment by a stroke specialist core MDT. It enables patients with stroke to leave hospital sooner, and receive the same quality and quantity of rehabilitation that would be provided in hospital.

EESD should meet RCP guidelines<sup>2</sup> whilst allowing flexibility for individual patients' clinical needs.

Workforce\*
\*WTEs are based
on RCP guidelines
plus regional
clinical opinion
from the West
Midlands ESD &
Rehabilitation
Working Group.
This includes faceto-face clinical and

non-clinical time.

There are no national guidelines for staffing numbers required to provide EESD. The regional group recommend that EESD is provided as a bolt on service to standard ESD. As patients in EESD are more likely to require at least 2 therapists or staff members per visit, the regional group give the following recommendation for EESD:

Core EESD MDT to consist of (per 100 caseload per year/WTE<sup>3</sup>)\* with a designated clinical lead:

- consultant physicians (0.2)
- nurses (0-2.4)
- physiotherapists (2)
- occupational therapists (2-2.5)
- speech and language therapists (0.8)
- Dietitians (0.4)
- clinical psychologists (0-1)
- rehabilitation assistants (2-4)
- social workers (1)
- dedicated administrative support (1)

Workforce for EESD should have clear leadership for each profession and contain experienced staff. For clinical psychology this is usually a band 8A or above. There needs to be at least one band 7 nurse or AHP per EESD team. For speech and language therapy, dysphagia competence is essential; this is usually a band 6 or above.\* Teams need to agree their model for delivery locally to meet geographical requirements such as widespread rural populations; these numbers are a guide. Local teams may need to consider impact on existing neuro and community teams. Carers should be integrated with EESD.

Where a single member of a profession or less than 1 WTE is required the post will need to be embedded within a whole stroke pathway in order to maintain clinical competencies and governance (clinical supervision, training, peer support and case review for example).

In regards to rehabilitation assistants the skill mix and competencies should be locally agreed; having a higher banded assistant could enhance patient access to rehabilitation.

#### **Patient cohort**

EESD will accept confirmed stroke patients from any location, with identified rehabilitation goals that will benefit from therapy.

Patients suitable for EESD are likely to be more complex in nature compared to standard ESD:

Higher stroke severity

Higher dependency

Require 2 or more staff to rehabilitate or deliver care tasks

Require increased access to specialist equipment

Teams need to use a stratification based on severity such as NIHSS, Bartel. Modified Rankin (MRS) or NEADL for example – Teams could consider using a scale to stratify patients locally – (clinical picture)

May be at higher risk of complications and therefore require access to a range of specialist staff in addition to EESD.

For eg district nurses, nutrition nurses, continence specialists

Are more likely to require ongoing rehabilitation at the end of the 6 week EESD period

Are more likely to require referrals to specialist services to meet their complex needs

## Pathway timelines

EESD will take confirmed stroke patients from day 0 up to 6 weeks post-stroke.

Rapid access to packages of care or care home placement is required to achieve early safe discharge.

EESD services should work towards an average LOS of 6 weeks within the EESD team, to prevent hand-over of care to CST for patients who are within days of completing their rehabilitation

After a period of 6 weeks, all patients should have equal and timely access to CST for continued rehabilitation where required to ensure an equity of intensity.

All patients should have a clear plan for 6 week stroke medical follow up, and 6 month stroke follow up in place with

	flexibility to meet individual patient needs. A plan should be in place to hand over care to the patient's GP within a locally agreed timeframe.
Therapy	Patients should be offered 45 minutes per day per therapy, 5 days per week discipline <sup>2</sup> for up to 6 weeks if clinically indicated
Service provision	7 days a week
% Caseload	National guidance of 40% <sup>2</sup> with conditions:  1. Any start point (day 0), until 6 weeks post stroke  2. Accepting referrals from any part of the stroke pathway (HASU, ASU, RSU, community)  3. Accepting referrals from a thrombectomy pathway (from a Comprehensive Stroke Unit)  PLUS 20% bolt on to ESD(to treat 10% of the caseload) however CST MUST be fully funded and supported to allow for 60%
EESD Criteria	<ol> <li>Clinical diagnosis of stroke</li> <li>Transfer assistance of ≤ 2 +/- equipment, a trained carer may be the second person where appropriate</li> <li>Clinically stable and fit for discharge, or needs can be met by GP and/ or advice from HASU/ ASU</li> <li>Continence management plan (including overnight plan)</li> <li>Medication management plan</li> <li>Nutrition and hydration management plan to optimise rehabilitation potential managed by dietetics including daily care and ongoing review of enteral feeding routes to be determined by locally agreed policies (PEG, RIG, NGT)</li> <li>Skin care management plan</li> <li>Mental health screen/mood and emotion screen assessment completed in order to plan safe discharge</li> <li>Cognition and communication screen/ assessment in order to plan safe discharge</li> <li>NH/EAB/ D2A beds patients in D2A or EAB should have access to EESD if they meet the criteria regardless of their permanent address</li> <li>Social needs – patient and carer needs to be assessed, and care package in place prior to discharge to EESD</li> <li>EESD pathway to be discussed with the patient and patients' family/ carer. Benefits and any disadvantages to be discussed prior to discharge</li> <li>Discharge destination safe for provision of rehabilitation (space for equipment, safe for workforce to attend)</li> <li>Night time management plan (Band 7 on call)</li> </ol>

Clinical Delivery Model	A Qualified/Registered team member to assess & treat patients within 24 hours as per RCP guidelines <sup>2</sup>
Ratio of staff (therapy)	Qualified/registered: 60% Un-qualified/non-registered: 40%
Estates	<ul> <li>equipment at home (Staff to have access to 7 day buffer stock for equipment)</li> <li>gym or rehab facilities where required</li> <li>access into the community,</li> <li>transport (volunteer drivers/contracts for example)</li> <li>accommodation for EESD team to be based together for effective team working</li> </ul> In order to support the function of EESD, IT infrastructure needs to be reviewed.
Key Performance Indicators (KPI's)	<ol> <li>Completion of SSNAP mandatory</li> <li>Clinical impairment outcome measure</li> <li>Patient satisfaction outcome measure</li> <li>Quality of Life outcome measure</li> <li>Carers support/experience</li> <li>EESD is a new relatively untested pathway. Relationships between teams, shared education, best practice, and experience need to be built in order to see the required outcomes. A lead in time of 9-12 months is recommended in order to see improvements in SSNAP reports.</li> </ol>
Guidelines	NICE Quality Standard [QS2] <sup>1</sup> Royal College of Physicians (RCP) 2016 National Clinical Guidance for Stroke (5th Edition) <sup>2</sup> NHS England Midlands and East Stroke Service Specification (2012) <sup>3</sup>

### 10 Long Term Care/Follow-Up

National standards (Guidance for STP's on recommended standards for Acute Stroke Services, 2016) state that following 6 weeks of ESD or EESD, patients requiring on-going stroke support should be discharged into Community Stroke Teams (CST) with no delay. Those patients who have not accessed ESD/EESD should have immediate access to specialist Community Stroke Teams (CST); for example those patients who required an in-patient stay greater than 6 weeks. Currently not all areas of the West Midlands have immediate access to CST.

CST is an interdisciplinary team based together who set and work on shared goals with the patients and family, building on work done within a bedded unit or ESD/EESD and embedding rehab into life at home or in the community.

#### The input should be:

- Patient centred
- Will provide therapy for those showing gains and achievement of goals as a result of this intervention
- For as long as a patient is benefitting
- Focused on living life after stroke, all be it differently and focusing on a patient's roles, priorities and quality of life
- Empowering a person to self-manage where possible
- Empowering a person to seek tertiary on going peer and community support

#### Key needs

- Able to see new referrals within 72 hours
- Meet RCP and NICE standards
- Meet Mid and East CST service specification
- Be stroke specialist (workforce, training, caseload stroke specific)
- Accept referrals from ASU, RSU, ESD and EESD
- Be flexible in LOS in order to meet patients individual needs
- KPIs should allow for intensity of rehab to be stepped down as appropriate
- Should prepare the patient for therapy to end by signposting to long term support

- Should link within stroke pathway to specialist services required, to 6 month follow up and third sector/community support (including peer support)
- A plan should be in place to hand over care to the patient's GP within a locally agreed timeframe.

### 11 Risks and Interdependencies

### 11.1 Table 3: Risks

The table below outlines risks that may be observed or found by stroke specialist clinicians in their day to day working role or local organisations. The following mitigations have been devised as a guide to assist in risk management.

Risk	Mitigation
Higher re-admission rates could be	Pathway should include a mechanism for
observed in the EESD group due to the	immediate acute stroke advice in order to
high level of complexity	support admission avoidance. Example:
	Wolverhampton prevention pathway: -
	Medical input contributes to an avoidance of
	re-admissions. Rapid intervention team
	(B7/8a AMPs under a stroke physician or
	rehabilitation consultant triages patients for
	medical review)
Re-admission with a medical or surgical	Re-referral to E/ESD needs to be in place,
condition can lead to patients dropping	and a local mechanism for tracking patients
off the stroke pathway	who are re-admitted agreed
HASU and ASU workforce are reluctant to	Plan lead in time of 1 year for team to be fully
refer to EESD pathway due to lack of	functional. Education and joint working
experience of EESD	across pathway required
Recruitment and retention: lack of	Local recruitment drives should be optimised.
availability of appropriately trained and	The development of regional training should
skilled staff	be reviewed.
	Local issues to be logged on risk registered
	and flagged to senior managers within their
	respective trusts/organisations.
	Consider incentivising posts to help retention
	(training programme/training posts).
Patients discharged with EESD may not	There is a need to ensure all interventions

be offered treatment equal to those in	are available to all patients regardless of
hospital. Examples are VTE prevention	where they are being treated
(IPC) and FEAS	
CST carries the burden of most complex	Shared teams, rotational posts and split
long term patients. Possibility of burnout	posts should be considered
within teams	
In regards to ESD and EESD, patients	Local agreement should be in place to
being discharged earlier than the average	ensure equity of provision. There is a need to
length of stay may incur care home costs	ensure that patients with higher dependency
or care package costs earlier, therefore	needs are not disadvantaged financially by
increasing the financial burden	ESD or EESD.
Patients and families find it difficult to	Education on stroke pathway and inclusion of
manage high intensity rehabilitation in the	patient and carer in care planning. Support
home environment	from appropriate agencies such as the
	Stroke Association could be sought.
Patients decline ESD service input and	The acute team responsible for the patient
leave hospital but later decide they need	should notify their GP of a high-risk
specialist input	discharge and inform of routes to refer into
	the service.

### 11.2 Pathway interdependencies

long term follow up services.

In order to increase the percentage of stroke patient cohorts who are able to be discharged earlier, there is a need for a whole pathway view of stroke.

The working group recommends that a whole pathway view is undertaken, and that Early Supported Discharge and Enhanced Early Supported Discharge are not commissioned in isolation from Hyper Acute Stroke Units, Acute Stroke Units, Community Stroke Units, Rehabilitation Stroke Units, Community Stroke Teams and

Some stroke services are commissioned together with services that provide rehabilitation to other clinical specialities where existing services provide rehabilitation to stroke but are part of a wider team providing treatment to other patient groups e.g. neurology. Re-designing services to establish Early Supported

Discharge/Enhanced Early Supported Discharge should not disadvantage or impact co-existing services.

Other local considerations may include:

- Where re-allocation of in-patient rehabilitation resources will compromise the safety and function of small community hospitals
- Location of ESD/EESD teams may be important in terms of provision of acute medical support.
- Where existing contracts will be negatively impacted by the development of ESD/EESD
- Venus Thrombosis Embolism (VTE) prevention: For all patients in hospital receiving intermittent pneumatic compression (IPC) VTE prevention should be considered as part of the discharge plan for standard and enhanced ESD patients. An alternative to IPC should be considered on an individual patient basis and guided by local policy.

ESD and CST services should ensure patients, carers and families access the appropriate support and advice working collaboratively with patient and carer support services.

### 12 Non-ESD Pathways

Patients who are not suitable for ESD or EESD should follow non-ESD/EESD pathways.

Patients who are not suitable for ESD or EESD include:

- Patients who do not have any therapy needs but should have access to emotional support, information, signposting and resources to help them adjust to life after stroke.
- Palliative/End of Life care
- Environment unsuitable,
- Safety issues that prevent discharge (medical, physical, emotional, social and psychological)
- Patient choice
- Care needs that cannot be met at home

- Patients who require a slower stream approach
- Patients who are highly complex and require a specialist rehab bed

Patients in this cohort could go to:

- A rehabilitation bed (level 1-2)
- Remain in an ASU
- A care home bed without therapy
- Specialist home
- Their own home but at risk (no therapy accepted but referral to community support/ third sector for access to emotional support, information etc.)

### 13 Specialist pathways

Patients with highly complex needs after stroke will require access to non-stroke specific but highly specialist services. A stroke pathway should be designed to ensure there are clear access routes and pathways of care. The following may be required, this list is not exhaustive:

- · Spasticity management
- Specialist seating
- Splinting and orthotics
- FES
- Return to work/work retention
- Mental health services
- Medical services diabetes management, cardiovascular
- Neuro-ophthalmologist
- Neuro-psychology
- Pharmacy
- Support for carers

### 14 Education and Training

All staff should undertake and maintain regular stroke specific training and core competencies. For example, Stroke Training and Awareness Resources (STARS), Stroke Specific Education Framework (SSEF) or other local models should be implemented and evidenced.

Patient and carers should be signposted to local services to support them with any training needs.

#### 14.1 The Stroke Association

The Stroke Association has over 30 years of experience working with stroke survivors and carers giving them a good understanding of an individual's needs and what a good quality of life means for them. The Stroke Association support stroke survivors and carers to identify their needs and the outcomes that matter to them and they tell them that recovery after stroke becomes less overwhelming with their support.

The Stroke Association's trained and skilled coordinators support people through the ups and downs of their individual recovery journey to help them rebuild their lives. Their services are based on a holistic model of wellbeing and quality of life in the stroke recovery context, and an outcomes framework co-produced with stroke survivors and carers. Individuals tell the Stroke Association that they value their holistic approach; the way they listen; the accessible way they explain things; the continuity of their support; the way they proactively encourage and support progress; and the way they draw on experience to help people better understand their situation and manage their recovery.

The Stroke Association has a range of packages that can be funded in a specific area to support the long term needs of stroke survivors and their families including;

- Stroke Recovery Service
- Emotional Support
- Communication Support
- Post Stroke Reviews (including 6 Month Reviews)

Further information, resources and support for patients and carers can be found on the Stroke Association website: https://www.stroke.org.uk/

### 14.1.1 Table 4: Stroke Association Services Provided in the West Midlands

The table below shows the services that are currently provided in each STP area in the West Midlands. The Stroke Association has a range of packages that can be funded in a specific area to support the long term needs of stroke survivors.

		Stroke Association Services				
STP	Area	Stroke Recovery Service (SRS)	Post Stroke Review including 6 Month Reviews	Emotional Support	Communication Support	
Birmingham & Solihull	North Birmingham	Yes	Yes (For approx. 300- 400 strokes; Not QE as they complete them)	No	Yes (included in SRS model)	
	South Birmingham	Yes (combined with above)	No	No	Yes (included in SRS model)	
	Dudley	No	No	No	No	
Black Country & West Birmingham	Wolverhampton & Seisdon Peninsula	No	No	No	No	
	Sandwell & West	Yes	Yes	No	No	
	Coventry & Rugby	Yes (not Rugby)	Yes (not Rugby)	No	No	
Coventry & Warwickshire	North Warwickshire	Yes	No	No	No	
	South Warwickshire	No	No	No	No	
Hereford &	Hereford	No	No	No	No	
Worcester	Worcester	Yes	No	No	Yes (included in SRS model)	
Shropshire, Telford &	Telford	No	Yes	No	No	
Wrekin	Shropshire	Yes	No	No	No	
Ctoffe udebi:	Stoke	Yes	No	No	No	
Staffordshire & Stoke on Trent	North Staffordshire	Yes	No	No	No	
Helit	South Staffordshire	No	No	No	No	

### 15 Regional Recommendations

The West Midlands CVD Clinical Network and West Midlands ESD & Rehabilitation Working Group make **6 key regional recommendations** as follows;

### 1. Equitable funding of standard ESD and CST

All standard ESD and community stroke rehabilitation teams to be sufficiently staffed to enable safe 7 day service provision; Commissioning bodies should ensure standard ESD is available to all patients who meet the criteria as outlined in this document. Patient and public involvement should be included as part of any review or development of services.

### 2. Whole Pathway Commissioning

The working group recommends that a whole pathway view is undertaken, and that ESD and EESD are not commissioned in isolation from HASU, ASU, CSU, RSU, CST and long term follow up services. This is supported by the National Stroke Programme and National Director for Stroke, which/who takes a whole pathway approach.

### 3. Community follow-up

Whilst under the care of a stroke specific team or stroke rehabilitation team patients should be re-assessed in the community on a regular basis as per their clinical need by a stroke specialist, have therapeutic care plans and access to therapists.

Following discharge from rehabilitation services stroke patients should have the opportunity for regular review, advice and support with the option of re-referral to stroke specific therapy if clinically appropriate; this could be provided by a range of NHS or third sector providers.

### 4. Step down services

6 weeks before patients leave the ESD service; it is recommended that where there is a clinical need, patients should then enter Community Stroke Team (CST) /Step down Services without any delay.

### 5. Discharge to Assess (D2A)

The D2A pathway or other similar pathways could be inappropriate for stroke patients as they may prevent continuity and fragment the stroke care pathway. The pathway for ESD should not run alongside D2A/other similar pathways unless the full stroke pathway can be provided without disadvantaging patients, carer's and families.

### 6. Primary care and community support

Direct access or Telemedicine for GPs and rehabilitation teams; this would allow contact with a designated stroke physician (for example, a rehabilitation consultant).

### 16 Next Steps

In order to support the aforementioned system-wide issues and ensure improvement plans are initiated, the West Midlands CVD Clinical Network will support teams, STPs and CCGs to achieve equitable and sustainable 7 day services across the region. Standard ESD gap analysis will feed into STP level reports and local recommendations/improvement plans.

The network intends to facilitate training and annual ESD & rehabilitation events to share best practice, knowledge, and quality improvement; working in collaboration with Health Education England and Local Authorities to establish a learning network as requested by the working group.

The WM CVD Clinical network will perform 'deep dive' assessments into rehabilitation teams and regular reviews to support the continuous improvement cycle.

Teams are advised to use this regional guidance to support local discussions to improve access to 7 day services.

### 17 Appendices

#### 17.1 References & Resources

Action Plan for Stroke in Europe 2018 – 2030 (2018) online: https://actionplan.eso-stroke.org/

Chouliara N *et al.*, (2014): Implementing evidence-based stroke Early Supported Discharge services: a qualitative study of challenges, facilitators and impact. *Clinical Rehabilitation*, 28 (4), 370-377

Cobley CS *et al.*, (2013): A qualitative study exploring patients' and carers' experiences of Early Supported Discharge services after stroke. *Clinical Rehabilitation*, 27 (8), 750 – 757

Fisher RJ et al., (2011): A consensus on stroke - Early Supported Discharge. Stroke, 42, 1392-1397

Fisher RJ et al., (2016): Is Stroke Early Supported Discharge still effective in practice? A prospective comparative study. Clinical Rehabilitation, 30 (3), 268-276

Langhorne P & Baylan S (2017): Early supported discharge services for people with acute stroke (Review). *Cochrane Database of Systematic Reviews*.

London Strategic Clinical Networks http://www.londonscn.nhs.uk/wp-content/uploads/2015/06/str-service-spec-esd-062015.pdf

National Stroke Care Pathway (Professor Tony Rudd) *online:*<a href="https://www.strokeaudit.org/SupportFiles/Documents/miscellaneous/Stroke-Services-Guidance-for-STPs-on-recommended-s.aspx">https://www.strokeaudit.org/SupportFiles/Documents/miscellaneous/Stroke-Services-Guidance-for-STPs-on-recommended-s.aspx</a>

NHS Long Term Plan (2019) online: https://www.longtermplan.nhs.uk/wp-content/uploads/2019/01/nhs-long-term-plan.pdf

NHS Midlands & East (2012): Stroke Services Specification online: https://www.england.nhs.uk/midseast/wp-content/uploads/sites/7/2018/03/final-stroke-spec.pdf

NHS East Midlands Cardiovascular Network (2012/2013): Early Supported Discharge Service Specification *online: https://www.england.nhs.uk/mids-east/wp-content/uploads/sites/7/2018/03/stroke-early-supported-discharge-specification.pdf* 

NICE (2013): Stroke Rehabilitation in Adults; Clinical Guideline CG162 *online*: https://www.nice.org.uk/guidance/cg162

NICE (2016): Stroke in Adults; Quality Standard QS2 online: https://www.nice.org.uk/quidance/gs2

SSNAP: https://www.strokeaudit.org/Documents/National/PostAcuteOrg/2015/2015-PAOrgNationalEAVPhase2.aspx

Stroke Association (2015): Current, future and avoidable costs of stroke in the UK: Executive summary Part 2: Societal costs of stroke in the next 20 years and potential returns from increased spending on research *online*:

https://www.stroke.org.uk/sites/default/files/costs\_of\_stroke\_in\_the\_uk\_report\_executive\_summary\_part\_2.pdf

Stroke Association (2016): A New Era for Stroke *online:* https://www.stroke.org.uk/sites/default/files/anefs\_report\_web.pdf

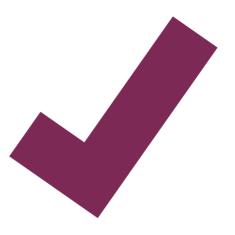
Stroke Association (2018): State of the Nation *online: https://www.stroke.org.uk/resources/state-nation-stroke-statistics* 

### 17.2 ESD & Rehabilitation Working Group Terms of Reference



# **Terms of Reference**

NHS England West Midlands ESD & Rehabilitation Working Group Supporting the delivery of the Stroke STP Working Group & Stroke Expert Advisory Group work programme



### **Document management**

Document filename: NHSE Stroke West Midlands Review Group - Terms of reference					
Directorate / programme	Medical	Project	NHSE West Midlands ESD & Rehabilitation Working Group		
Document reference					
Programme manager	Victoria Millward	Status	DRAFT		
Owner	Carron Sinter	Version	0.1		
Author	Sarah Rogers	Version issue date	[Publish Date]		

### **Revision history**

Version	Date	Summary of changes			
0.1					

### Reviewers

This document must be reviewed by the following people:

Reviewer name	Title/responsibility	Date	Version
Carron Sintler	Project Lead	28/06/2018	0.1
Victoria Millward	Head of CVD Clinical Network WM	28/06/2018	0.1
Dr Sissi Ispoglou	Clinical Lead stroke physician	28/06/2018	0.1
NHSE West Midlands ESD & Rehabilitation Working Group		28/06/2018	0.1

### **Approved by**

This document must be approved by the following people:

Name	Signature	Title	Date	Version
Dr Sissi Ispoglou		Clinical Lead		
Dr Kiran Patel		Medical Director NHSE WM		
Stroke EAG				

### **Document control**

The controlled copy of this document is maintained by NHS England. Any copies of this document held outside of that area, in whatever format (e.g. paper, email attachment), are considered to have passed out of control and should be checked for currency and validity.

#### **Outline Terms of Reference**

### **NHSE West Midlands ESD & Rehabilitation Working Group**

#### 1. Background

Early supported discharge (ESD) and rehabilitation are vital parts of the stroke care pathway that enable patients to increase their independence and function through access to various specialist therapeutic interventions, Currently in the West Midlands there is inequitable care and variable access to services both in the acute and community sectors.

### 2. Purpose

The West Midlands ESD & Rehabilitation working group will act as an expert consultative body for the provision of ESD pathways and a strategy for increasing the percentage of patients discharged with ESD. It will advise on wider system issues regarding the provisions of community services for the stroke population of the region.

#### 3. Governance

The West Midlands ESD & Rehabilitation Working Group will be managed and supported by NHS England (West Midlands) CVD Clinical Network on behalf of the West Midlands STPs. The Clinical Lead will report to the Stroke Expert Advisory Group (EAG) and Stroke STP Review Group.

### 4. Membership

- The core membership of the West Midlands ESD & Rehabilitation Working Group will comprise of:
  - Carron Sintler Project Lead
  - o Dr Sissi Ispoglou Clinical lead
  - Sarah Rogers Project Manager & Project Support
  - Core specialist professions from each STP.
    - Occupational therapy
    - Physiotherapy
    - Speech and language therapy
    - Dietitian
    - Psychology
    - Stroke medicine
    - Stroke Nurse
    - Social services

Other professional groups such as pharmacy, ophthalmology and general practice, for example, will be approached where expert opinions are required.

Quoracy to be determined

#### 5. Deputies

By agreement of the Chair.

### 6. Voting Members

All members as described in the Membership above.

### 7. Frequency of Meetings

The West Midlands ESD & Rehabilitation Working Group will meet at a frequency required by the programme of work defined at the outset. Initially the group will meet face-to-face on a monthly to bi-monthly basis with fortnightly virtual meetings if required.

At least 6 weeks advance notice shall be provided when organising meetings in order to enable clinicians to reschedule clinical commitments and attend.

Urgent matters arising between meetings: In the event of an urgent matter arising between meetings that cannot wait for resolution until the next scheduled meeting the Chair in consultation with the CVD Clinical Network will convene a virtual or real meeting with at least 2 other members to take such action as is necessary.

#### 8. Core Activities

Primary objectives to deliver the aforementioned purpose of the work group include:-

- Development of a proposed model of ESD across the West Midlands
- Proposed pathway for rehabilitation & community pathways across the West Midlands (STP specific)
- Produce a good practice model for increasing ESD
   Proposed pathways for non-ESD patients, for example, severe or highly complex patients requiring in-patient rehabilitation, or end of life care

#### 9. Communication

Upon request it is expected that the membership, remit and minutes of the group will be shared with the STP group, Stroke EAG, NHSE DCO team and hence Regional Office of NHS England and any constituent organisations.

#### 10. Conflict of Interests

All conflict of interests (pecuniary and non-pecuniary) must be declared and notified to the Chair in advance of any meetings. Members will be asked to withdraw by the Chair from any items that involve a conflict of interest.

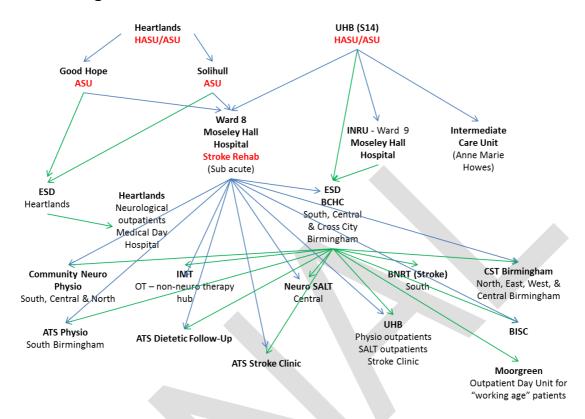
#### 11. Review

These terms of reference will be reviewed annually or sooner if required.

Membership of the group will be reviewed and appointed to annually in line with these Terms of reference

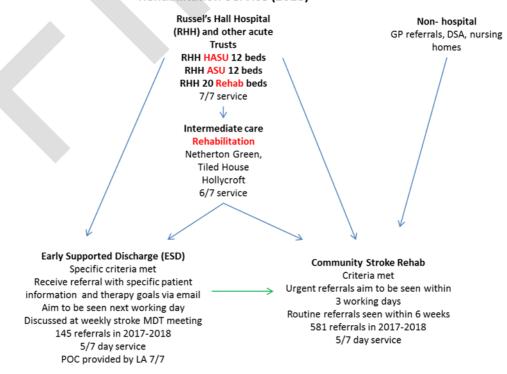
### 17.3 Referral Pathways in the West Midlands (2018)

### 17.3.1 Birmingham & Solihull STP

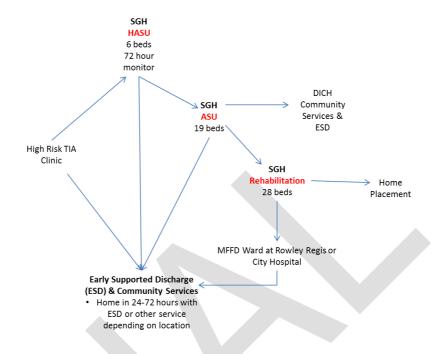


### 17.3.2 The Black Country & West Birmingham STP

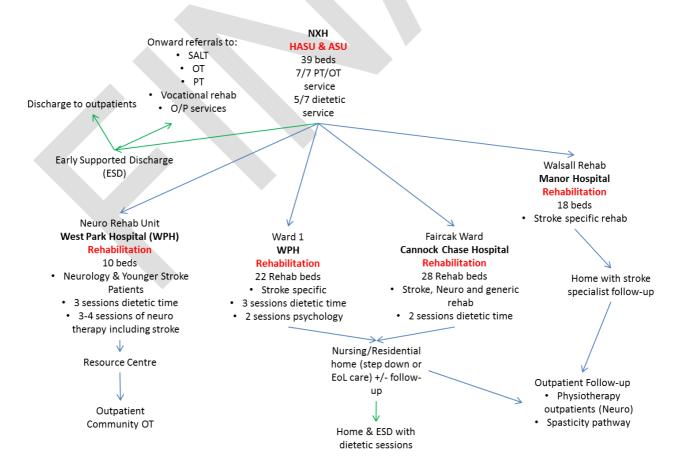
# Pathway for Dudley Group Foundation Trust ESD and Community Stroke Rehab within Dudley Rehabilitation Service (2018)



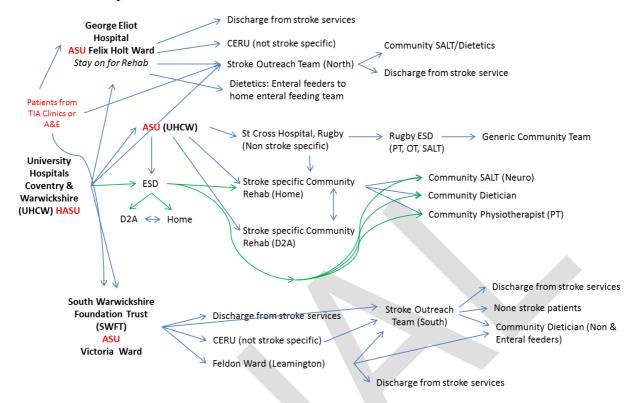
#### Pathway for Sandwell General Hospital (SGH; 2018)



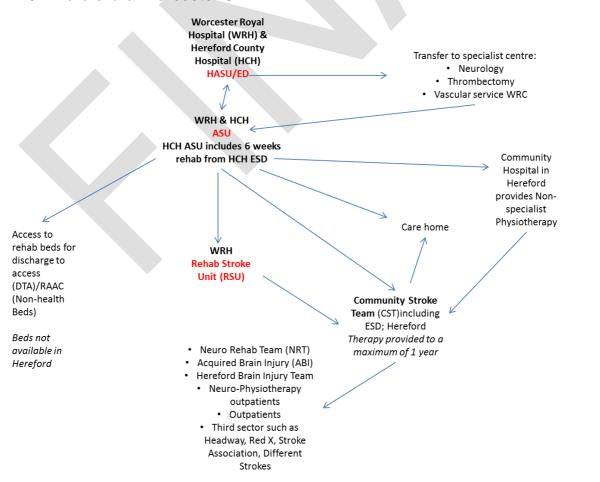
#### Pathway for Wolverhampton & Seisdon Peninsula ESD Team (2018)



### 17.3.3 Coventry & Warwickshire STP

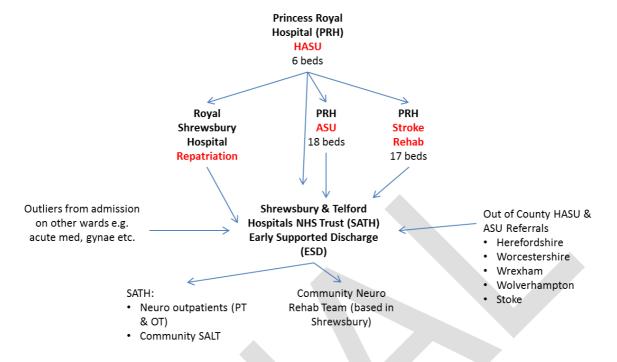


#### 17.3.4 Hereford & Worcester STP



Page 60 of 61

### 17.3.5 Shropshire, Telford & Wrekin STP



### 17.3.6 Staffordshire and Stoke on Trent STP

