

Ashby-de-la-Zouch Health Services

*Accessibility Review*

Ashby-de-la-Zouch  
***Health Services Accessibility  
Review***

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***Prepared For:***

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Commissioning Group**

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## **1. INTRODUCTION**

- 1.1 David Tucker Associates was commissioned by the West Leicestershire Clinical Commissioning Group to review the transport implications of various options for the reconfiguration of health services in the Ashby-de-la-Zouch & Measham area.
- 1.2 Within Ashby-de-la-Zouch and Measham there are three main GP practices: Ashby Health Centre; Dr Shepherd's Surgery; and Measham Medical Unit. The catchment areas for these practices cover the towns of Ashby-de-la-Zouch and Measham together with a large rural catchment area.
- 1.3 Patients from these practices are referred to Hospitals such as Burton Hospital and Derby Hospital. In addition patients are also referred to Community hospitals in Coalville, Loughborough, Hinckley and Ashby-de-la-Zouch that provide in-patient, out-patient and therapies.
- 1.4 A new medical centre is planned in Ashby-de-la-Zouch on the Burton Road to the West of the town. Its site is part of a larger parcel of land on which residential development is consented. The new medical centre will replace the existing Ashby Health Centre on North Street.
- 1.5 The reconfiguration of health services is in response to changing patterns of demand arising from demographic change and review of the suitability of existing facilities to deliver. These options in particular focus on the role for Ashby & District Hospital which is located on Leicester Road in Ashby-de-la-Zouch. The location of the hospital is shown on **Figure 1**.
- 1.6 This review therefore considers the distance, cost and time taken to access health services at Ashby & District Hospital relative to accessing health services at other sites including the new medical centre, Coalville Community Hospital and Loughborough Hospital. This considers the implications for both car users and public transport users.
- 1.7 In addition to the accessibility of each of these sites an appraisal of need has been



undertaken considering factors such as existing patterns of demand and poverty levels.

- 1.8 The report concludes that any relocation of services away from Ashby-de-la-Zouch will give rise to the greatest change in accessibility for residents within the LE65 and DE12 postcode areas. This is particularly the case for those that access services by public transport.

## 2. DEMAND FOR HEALTHCARE SERVICES

2.1 The demand for healthcare services has been evaluated in three respects. First the spatial distribution of the population as reported by the 2011 Census. Second considering whether there are particular sections of the wider population for who access to healthcare services is more critical. Third by reviewing the origins of patients who access services at Ashby & District hospital.

### Spatial Distribution of the Population

2.2 The spatial distribution of the population as reported by the 2011 Census has been plotted on **Figure 1**. This figure shows the population density across North West Leicestershire and adjacent districts. The data has been plotted based on the output areas which are the smallest areas available from the Census geography. In addition, the very generalised patterns of patients registered at the health centres in Ashby-de-la-Zouch and Measham are plotted on **Figures 2 – 4** below

Figure 2 – Ashby Health Centre County Practice

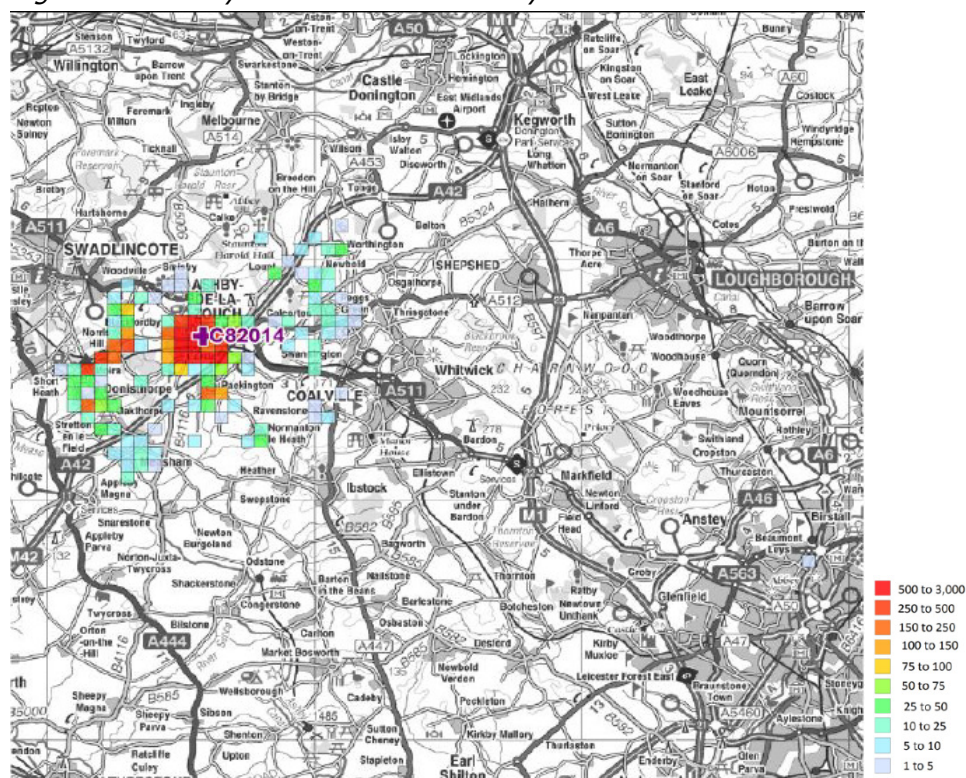


Figure 3 - Measham Medical Unity County Practice



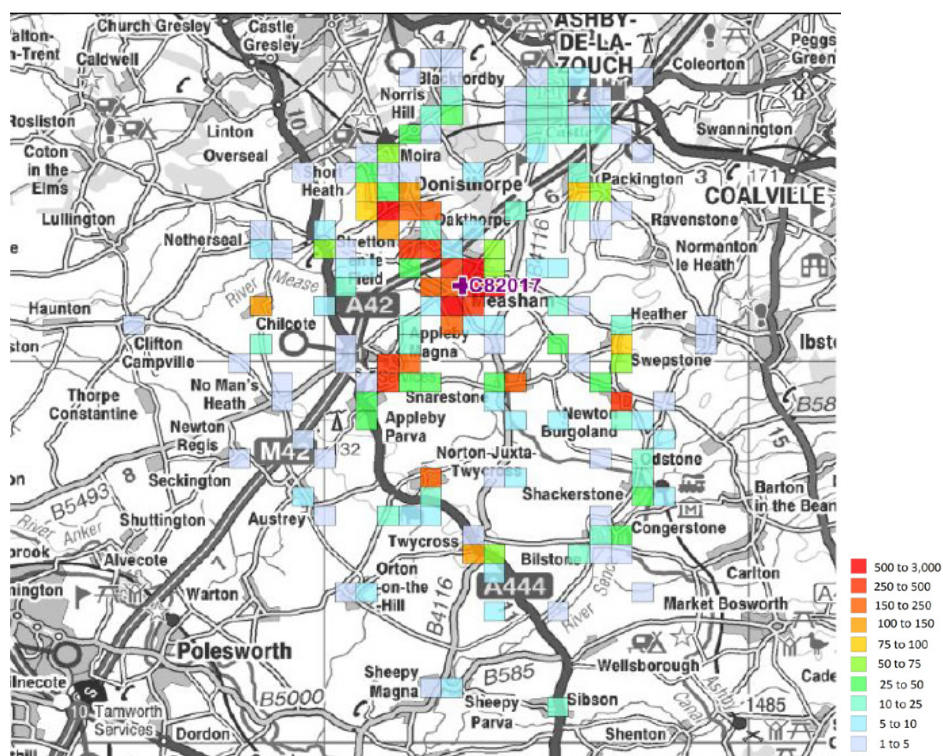
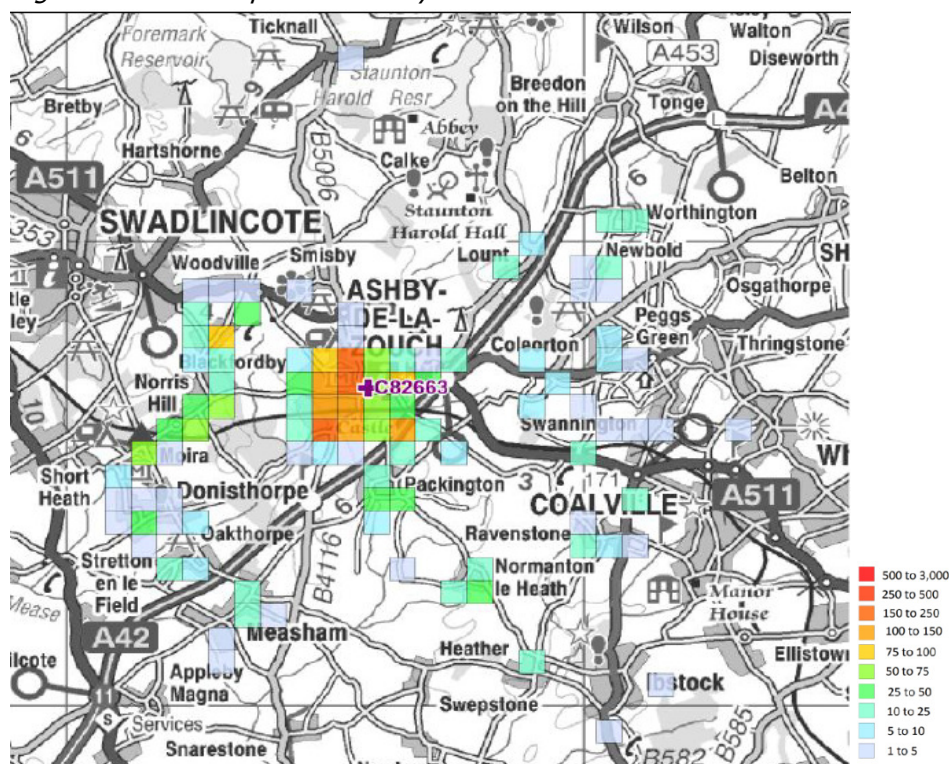


Figure 4 – Dr Shepherd County Practice



2.3 It can be seen from these plots that the main concentrations of population are within Ashby-de-la-Zouch and Measham but that there are a large number of small rural

communities who are also reliant on these practices.

### **Target Population**

- 2.4 Data has not been made available to be able to target those areas of the population within the study areas that are likely to demand access to services. The aggregate statistics for the area show an older more affluent population than the national or regional profile.
- 2.5 Forecasts show that there will be a growing proportion of elderly within the population. This is likely to have implications for the delivery of services. Again however, it is important to have a detailed breakdown of these demographics as whilst it may suggest that there is a growing proportion of the population who may have specific mobility requirements, overall the mobility of the older section of the population continue to increase relative to earlier generations both in terms of driving licences held and car ownership.

### **Admissions to Ashby Hospital**

- 2.6 There are three main groups of patients that are treated at Ashby Hospital. These are inpatients, many of whom have been transferred from other hospitals for continued treatment, out-patients and therapy patients.

### **Inpatients**

- 2.7 Inpatient beds provide rehabilitation for the elderly. There are 16 beds with a current occupancy rate of 93% throughout the year. Although there has been a reduction in the number of inpatients admitted to the hospital the average stay has increased.



*Table 1- Inpatients admitted to Ashby Hospital*

Postcode District		2011/ 2012	2012/ 2013	Combined	
				Total	Percent
LE67	Coalville, Ibstock, Markfield	36	28	64	17.4%
<b>LE65</b>	<b>Ashby-de-la Zouch, Boundary, Calke, Smisby, Willesley, Worthington</b>	<b>63</b>	<b>40</b>	<b>103</b>	<b>28.1%</b>
LE12	East Leake, West Leake, Sutton Bonington, Mountsorrel, Shepshed, Belton, Quorn, Sileby, Wymeswold	9	5	14	3.8%
<b>DE12</b>	<b>Appleby Magna, Linton, Measham, Overseal, Rosliston, Walton-on-Trent</b>	<b>38</b>	<b>38</b>	<b>79</b>	<b>21.6%</b>
Other	Other	62	47	109	29.8%
Total		208	158	366	100%

- 2.8 Approximately half of the in-patients admitted to Ashby Hospital are from the LE65 and DE12 postcode areas which cover Ashby-de-la-Zouch, Measham and the surrounding rural areas. The in-patients are relatively small in number and a large proportion of patients are transferred from other hospitals such as Queens Hospital in Burton-on-Trent. The number of trips is therefore small by patients, although these patients will receive visitors.

### **Out-patients**

- 2.9 Data provided by WLCCG summarises the origins of out-patients who were admitted to the hospital during 2011/12 & 2012/13. These are summarised in **Table 2** below.

*Table 2- Outpatients treated at Ashby Hospital*

Postcode District		2011/ 2012	2012/ 2013	Combined	
				Total	Percent
LE67	Coalville, Ibstock, Markfield	751	745	1496	56%
<b>LE65</b>	<b>Ashby-de-la Zouch, Boundary, Calke, Smisby, Willesley, Worthington</b>	<b>213</b>	<b>147</b>	<b>360</b>	<b>13%</b>
LE12	East Leake, West Leake, Sutton Bonington, Mountsorrel, Shepshed, Belton, Quorn, Sileby, Wymeswold	125	144	269	10%
<b>DE12</b>	<b>Appleby Magna, Linton, Measham, Overseal, Rosliston, Walton-on-Trent</b>	<b>136</b>	<b>108</b>	<b>244</b>	<b>9%</b>
LE11	Loughborough, Charnwood	46	39	85	3%
Other	Other	115	111	226	8%
<b>Total</b>		<b>1386</b>	<b>1294</b>	<b>2680</b>	<b>100%</b>

2.10 As can be seen from this data, the majority of patients originate from the LE67 postcode area which includes Coalville. The LE65 postcode area which includes Ashby-de-la-Zouch itself accounts for 13% however there is a significant decline in patients between the 2011/12 and 2012/13 years. The DE12 postcode area which includes a predominantly rural area to the West of the site and accounts for 9%. Overall therefore less than a quarter of out-patient admissions are from the local area.

### **Therapy**

2.11 A detailed breakdown of the origins of patients undergoing physiotherapy at Asbhy is not available. There are around 3,174 patients annual of which around 70% come from North West Leicestershire. This is therefore by far the largest group of patients travelling to the hospital.

### **3. EXISTING ACCESS TO HOSPITALS**

3.1 WLCCG undertook a questionnaire survey. When asked how far respondents were prepared to travel:

- over a third would travel up to 5 miles; and,
- nearly half said between 6 and 10 miles.

3.2 With respect to mode of travel:

- most would opt to travel to appointments by car;
- more than a quarter would walk to appointments;
- very few would cycle; and,
- just over 2% would opt to use public transport.

3.3 No survey data is available for the existing non-emergency hospital travel for the Ashby area in particular with respect to mode share. On a national level the proportion of overall travel to attend medical appointments is small compared to commuting, education, shopping and leisure trips. Within the National Travel Survey it is therefore grouped in with personal business trips. This combined group presents 10% trips for all purposes of which around 10% are made by public transport. The majority of trips are made by car. Public transport is important though particularly for those who cannot or choose not to drive.

3.4 The cost of travel by car has been calculated in accordance RAC estimates. HMRC car travel rate is currently 45p/mile. This however only covers the cost of running small vehicles. As reflected in the RAC annual vehicle motoring costs vary depending on the vehicle and engine types. This range covers 30.2p (1000cc petrol) to 114.5p (3000cc petrol). For the purpose of this assessment 65p/mile is roughly equivalent to the running cost of a 2000cc petrol car.

3.5 Generally the costs are borne by the individuals. Under the Healthcare Travel Costs Scheme (HTCS) the cost of travelling to a hospital appointment may be refunded for those in receipt of qualifying benefits or allowances or who meet the eligibility

- criteria of the NHS Low Income Scheme. Under the scheme patients (and their escorts) should use the cheapest most appropriate means of transport which in most cases will be public transport. For travel by car the fuel costs plus unavoidable car parking and toll charges will be reimbursed.
- 3.6 Some people are eligible for non-emergency patient transport services (PTS). This is operated by Arriva on behalf of the WLCCG. These services provide free transport to and from Leicestershire hospitals for people who have a medical need for it.
- 3.7 Community transport services, for over 60s, in the local area are provided by Marlene Reid Centre Community Transport.
- 3.8 It is understood that demand for voluntary transport in the entire area MRC cover currently exceeds supply, especially in the early morning and later afternoon. MRC have in the region of 2,000 clients, many of whom are using the service weekly. There is additional demand for their services but fulfil this is subject to the ability to recruit more volunteer drivers, especially in the Ashby area.
- 3.9 In October and November, MRC carried 7 patients to Ashby Hospital and 98 patients to Burton or Derby hospitals. There is therefore significant cross-boundary demand for transport, particularly in the Ashby-de-la-Zouch and Measham areas. These trips fall outside the remit of the Arriva operated patient transport services.
- 3.10 LCC supports the MRC scheme specifically for over 60's resident in NWL primarily for transport to health related appointments. A very small number of wheelchair bound clients use MRC's accessible car. In September 2013 LCC withdrew the subsidy of 50% in support of social car schemes, effectively doubling the cost of MRC transport services to end users. This has not significantly impacted on the demand hospital and health centre transport.
- 3.11 Travel options to each of the hospital sites are set out below. These have been calculated for both car and public transport options as are available at present. It is noted that there are a number of bus services whose operations is dependent on financial support. These services are currently subject to review and LCC have

published proposals for public consultation which would reduce the number of scheduled bus services which would be supported. The final changes have not been announced.

- 3.12 It is proposed to expand the provision of demand responsive services to replace the scheduled services which are to be withdrawn. Demand responsive transport services operate within defined corridors and to a schedule defined by LCC (typically services will be provided in different areas on different days). Users must book in advance, typically by telephone.

### Ashby District Hospital

3.13 Ward visiting hours are:

- 14:00 to 16:00 and 18:00 to 20:00

3.14 Journey distances and off-peak travel times have been estimated and summarised in **Table 2** below. Travel costs have been estimated based on distance travelled on the basis of £0.65/mile. There are no charges for parking at Ashby District Hospital although the availability is limited.

*Table 2- Car travel to Ashby District Hospital*

		Distance	time	cost
		miles	minutes	£
LE65	coalville	5	11	£ 3.49
	ibstock	6	10	£ 3.66
	markfield	10	20	£ 6.46
LE67	ashby-de-la-zouch	0	2	£ 0.20
	calke	6	13	£ 3.98
	smisby	4	9	£ 2.68
	willesley	3	11	£ 1.99
	worthington	5	10	£ 3.09
LE12	east leake	15	27	£ 9.47
	west leake	15	22	£ 9.87
	sutton bonington	15	22	£ 9.43
	mountsorrel	17	34	£ 11.05
	shepshed	9	18	£ 5.77
	belton	7	14	£ 4.35
	Quorn	15	31	£ 9.47
	sileby	18	34	£ 11.42
	wymeswold	18	31	£ 11.58
DE12	appleby magna	8	13	£ 5.40
	measham	4	9	£ 2.36
	overseal	5	13	£ 3.25
	rosliston	9	22	£ 6.13
	walton-on-trent	13	28	£ 8.61
LE11	loughborough	12	24	£ 7.96
	charnwood	17	33	£ 10.97



3.15 An appraisal of the travel costs by bus is summarised in **Table 3**.

*Table 3- Bus travel to Ashby District Hospital*

		Route	Time minutes
LE65	coalville	No9A	16
	ibstock	No15>No9	44
	markfield	No29>No9	55
LE67	ashby-de-la-zouch	No9/No9a/No129	6
	calke	-	0
	smisby	No9	30
	willesley	No8	39
	worthington	No129	45
LE12	east leake	No1>No129	82
	west leake	Soar Valley>No1>No126>No9a	146
	sutton bonington	Skylink Notts>No155>No9a	82
	mountsorrel	No126>No129	86
	shepshed	No129	36
	belton	No129	33
	Quorn	No2>No129	71
	sileby	No2>No129	94
	wymeswold	No8 > No129	93
DE12	appleby magna	No7	28
	measham	No7/No8	20
	overseal	No8	41
	rosliston	No22>No9	77
	walton-on-trent	No22>No9	86
LE11	loughborough	No1/No4>No129	70
	charnwood	No126>No129	103

3.16 Note that the No. 7 and No. 129 services are LCC supported services which are subject to review. Options that have been subject to consultation include the reduction in the frequency or the replacement by a DRT service.

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### **Ashby New Medical Centre**

- 3.17 The proposed Medical Centre in Ashby will replace an existing Health Centre in the centre of the town. Analysis of travel patterns for the medical centre showed that the new site was better located to the existing populations in Ashby.
- 3.18 In terms of public transport routes the site will be served via a local shuttle bus that operates within Ashby and the Midland Classic 9 service.
- 3.19 There are 79 car parking spaces planned for the site. Disable parking will also be available.

### Coalville Community Hospital

3.20 Coalville Community Hospital is located on Broom Leys Road, Coalville, Leicestershire LE67 4DE. Ward visiting hours at the hospital are:

- Monday – Friday - 14:00 to 15:00 and 18:30 to 20:00
- Weekends and bank holidays - 14:00 to 16:00 and 18:00 to 20:00

3.21 Journey distances and off-peak travel times have been estimated and summarised in **Table 4** below. Travel costs have been estimated based on distance travelled on the basis of £0.65/mile. There are no charges for parking at Coalville Community Hospital although the availability is limited.

*Table 4- Car travel to Coalville Community Hospital*

		Distance	time	cost
		miles	minutes	£
LE65	coalville	2	4	£ 1.06
	ibstock	5	10	£ 3.25
	markfield	5	10	£ 3.01
LE67	ashby-de-la-zouch	6	13	£ 4.14
	calke	11	21	£ 6.91
	smisby	9	16	£ 5.61
	willesley	10	20	£ 6.78
	worthington	6	16	£ 3.90
LE12	east leake	11	23	£ 7.15
	west leake	10	22	£ 6.70
	sutton bonington	9	21	£ 5.93
	mountsorrel	11	23	£ 7.11
	shepshed	4	9	£ 2.76
	belton	5	12	£ 3.29
	Quorn	9	18	£ 5.65
	sileby	13	24	£ 8.21
DE12	wymeswold	14	27	£ 9.38
	appleby magna	13	19	£ 8.13
	measham	9	15	£ 5.89
	overseal	15	21	£ 9.67
	rosliston	18	30	£ 11.90
LE11	walton-on-trent	18	35	£ 11.54
	loughborough	8	16	£ 4.96
	charnwood	12	22	£ 7.76

3.22 The bus stops at the hospital are equipped with shelters and there is a zebra

crossing to access buses towards the town centre. Journey times and the routes for travel by bus are summarised in **Table 5**. These journey times do not include the access time or waiting times to access services other than where changes are required (as they do in the majority of instances). Where interchange between buses is required there can be variations in the overall journey times. The times shown are generally the shortest changeover times and so depending on the time of day some of these journeys may be longer.

*Table 5- Bus travel to Coalville Community Hospital*

		Bus services including changes	time minutes
LE65	coalville	No11	6
	ibstock	No159>No11	28
	markfield	No9a>No11	34
LE67	ashby-de-la-zouch	No9a>No11	31
	calke	No61>No9a>No126	143
	smisby	No2>No9a>No11	90
	willesley	No9a>No11	71
	worthington	No155	27
LE12	east leake	No1>No126	85
	west leake	Skylink Notts>No155	93
	sutton bonington	Skylink Notts>No155	91
	mountsorrel	No126	86
	shepshed	No126>No11	38
	belton	No129>No9>No11	99
	Quorn	No126	72
	sileby	No2>No29a	101
	wymeswold	No8>No126	111
DE12	appleby magna	No7>N440>No11	51
	measham	No8>No9>No11	65
	overseal	No8>No9>No11	86
	rosliston	No22>No9>No126	143
	walton-on-trent	No22>No9>No126	138
LE11	loughborough	No126	59
	charnwood	No126	59

3.23 The majority of services to and from Coalville route through or terminate at the town centre. The site is approximately 2.0km from the town centre which equates to a walk time of up to 30 minutes. There is a local shuttle bus service within Coalville to the Hospital. The Arriva Midlands No. 11 operates from Memorial Square via the Hospital to Agar Nook. It is a regular service operating every 10 minutes from 06:35



to 17:50 Monday to Friday and 06:45 to 17:55 Saturday. There is no service on Sunday.

- 3.24 The No. 11 service does not extend into the evening periods. The nearest bus routes which operate during the evening periods are on the London Road and Bardon Road which are both around 900m walk from the site. This is equivalent to a 10 minute walk. Access to the evening visiting hours and on Sundays is therefore limited.

### Loughborough Hospital

3.25 Loughborough Hospital is located off the A6004 Epinal Way on Hospital Way, Loughborough LE11 5JY. Ward visiting hours are:

- 14:00 to 16:00 and 18:30 to 20:00

3.26 Journey distances and off-peak travel times have been estimated and summarised in **Table 6** below. Travel costs have been estimated based on distance travelled on the basis of £0.65/mile. There are no charges for parking at Loughborough Hospital although the availability is limited.

*Table 6- Car travel to Loughborough Hospital*

		distance	time	cost
		miles	minutes	£
LE65	coalville	9	20	£ 5.73
	ibstock	12	24	£ 7.52
	markfield	9	14	£ 5.48
LE67	ashby-de-la-zouch	12	23	£ 7.72
	calke	13	28	£ 8.53
	smisby	13	25	£ 8.53
	willesley	21	29	£ 13.89
	worthington	10	21	£ 6.30
LE12	east leake	8	15	£ 4.71
	west leake	6	14	£ 4.14
	sutton bonington	5	13	£ 3.37
	mountsorrel	6	14	£ 4.02
	shepshed	4	10	£ 2.93
	belton	7	13	£ 4.51
	Quorn	4	10	£ 2.40
	sileby	7	14	£ 4.35
	wymeswold	6	16	£ 4.23
DE12	appleby magna	24	29	£ 15.23
	measham	20	24	£ 13.00
	overseal	26	31	£ 16.78
	rosliston	29	39	£ 18.97
	walton-on-trent	33	39	£ 21.13
LE11	loughborough	1	3	£ 0.41
	charnwood	1	3	£ 0.41



3.27 The bus stops at the hospital are located on A6044 Epinal Way and are equipped with shelters and there is a zebra crossing to access buses towards the town centre. Journey times and the routes for travel by bus are summarised in **Table 7**. These journey times do not include the access time or waiting times to access services other than where changes are required (as they do in the majority of instances).

*Table 7 - Bus travel to Loughborough Hospital*

		Route	time minutes
LE65	coalville	No126	43
	ibstock	No159>No126	64
	markfield	No29>No126	83
LE67	ashby-de-la-zouch	No129>No126	63
	calke	No61>Skylink Leics/Derby	154
	smisby	No9a>No126	125
	willesley	No9a>No126	93
	worthington	No155>No126	64
LE12	east leake	No1	35
	west leake	Soar Valley>No1	55
	sutton bonington	Skylink Notts	25
	mountsorrel	No126	30
	shepshed	No127/No126/No4	20
	belton	No129>No126	43
	Quorn	No126/No127	16
	sileby	No2>N127	43
	wymeswold	No8>No127	42
DE12	appleby magna	No440	103
	measham	No8>No9a>No126	92
	overseal	No8>No9a>No126	113
	rosliston	No22>No440>No126	140
	walton-on-trent	No22>No9>No126	155
LE11	loughborough	No126/No127	6
	charnwood	No126/No127	6

3.28 Note that the No. 7 and No. 129 (Ashby de la Zouch to Loughborough) services are LCC supported services which is subject to review. Options that have been subject to consultation include the reduction in the frequency or the replacement by a DRT service.

### Queens Hospital, Burton-on-Trent

3.29 Queens Hospital is located on Belvedere Road, Burton-on-Trent DE 13 0RB. Journey distances and off-peak travel times have been estimated and summarised in **Table 8** below. Travel costs have been estimated based on distance travelled on the basis of £0.65/mile.

*Table 8- Car travel to Burton Hospital*

		distance	time	cost
		miles	minutes	£
LE65	coalville	16	33	£ 10.08
	ibstock	16	34	£ 10.73
	markfield	30	36	£ 19.54
LE67	ashby-de-la-zouch	11	26	£ 6.74
	calke	13	30	£ 8.33
	smisby	11	25	£ 6.95
	willesley	11	29	£ 6.99
	worthington	14	32	£ 9.51
LE12	east leake	24	35	£ 15.48
	west leake	23	32	£ 14.42
	sutton bonington	21	32	£ 13.98
	mountsorrel	33	47	£ 21.08
	shepshed	26	34	£ 16.98
	belton	17	34	£ 10.77
	Quorn	30	44	£ 19.50
	sileby	33	48	£ 21.45
	wymeswold	28	41	£ 18.36
DE12	appleby magna	13	28	£ 7.96
	measham	11	27	£ 7.48
	overseal	8	20	£ 5.00
	rosliston	6	15	£ 3.82
	walton-on-trent	6	15	£ 4.14
LE11	loughborough	26	38	£ 16.45
	charnwood	33	46	£ 21.00

3.30 Journey times and the routes for travel by bus are summarised in **Table 9**. These journey times do not include the access time or waiting times to access services other than where changes are required (as they so in the majority of instances).

*Table 9 - Bus travel to Burton Hospital*

		Route	time minutes
LE65	coalville	No9A>No1	84
	ibstock	No15>No9A>No1	112
	markfield	No29>No9>No1	137
LE67	ashby-de-la-zouch	No9A>NoV2	66
	calke	No61>No4>NoV2	120
	smisby	No9>No1	117
	willesley	No9A>No1	98
	worthington	No155>No9>No1	160
LE12	east leake	No1>Notts to Cardiff Central	116
	west leake	Soar Valley>No1>Notts to B'ham	140
	sutton bonington	Skylink Notts>Skylink Leics/Derby>Edinburgh to Plymouth	119
	mountsorrel	NoX27>Sprint>London St Pancreas to Sheffield>Notts to B'ham	107
	shepshed	No4>London St Pancreas to Notts>Notts to B'ham	137
	belton	No129>No9A>No1	109
	Quorn	NoX27>Sprint>London St Pancreas to Sheffield>Notts to B'ham	95
	sileby	No2>NoX3>London St Pancreas to Sheffield>Notts to Cardiff Central	108
	wymeswold	No8>Kettering to Sheffield>Edinburgh to Plymouth	116
DE12	appleby magna	No7>No19	89
	measham	No19>No12E>NoV1	84
	overseal	No21>No1	51
	rosliston	No22>No4	57
	walton-on-trent	No22>No4	48
LE11	loughborough	London St Pancreas to Sheffield>Notts to B'ham	66
	charnwood	No126>Sprint>Kettering to Sheffield>Edinburgh to Plymouth	131

## Derby Hospital

3.31 Journey distances and off-peak travel times have been estimated and summarised in **Table 10** below. Travel costs have been estimated based on distance travelled on the basis of £0.65/mile.

*Table 10- Car travel to Derby Hospital*

		distance	time	cost
		miles	minutes	£
LE65	coalville	24	36	£ 15.44
	ibstock	25	36	£ 16.25
	markfield	29	32	£ 19.09
LE67	ashby-de-la-zouch	16	31	£ 10.56
	calke	16	23	£ 10.16
	smisby	15	26	£ 9.75
	willesley	18	35	£ 11.38
	worthington	19	28	£ 12.19
LE12	east leake	23	29	£ 14.63
	west leake	21	26	£ 13.41
	sutton bonington	20	26	£ 13.00
	mountsorrel	29	42	£ 18.69
	shepshed	25	29	£ 16.25
	belton	24	30	£ 15.84
	Quorn	26	39	£ 17.06
	sileby	29	42	£ 19.09
Wymeswold	27	34	£ 17.47	
DE12	appleby magna	20	34	£ 13.00
	measham	18	33	£ 11.38
	overseal	16	27	£ 10.16
	rosliston	16	21	£ 10.56
	walton-on-trent	15	17	£ 9.75
LE11	loughborough	24	32	£ 15.44
	charnwood	28	38	£ 17.88

3.32 Journey times and the routes for travel by bus are summarised in **Table 11**. These journey times do not include the access time or waiting times to access services other than where changes are required (as they so in the majority of instances).

*Table 11 - Bus travel to Derby Hospital*

		Route	time minutes
LE65	coalville	X38>9	1hr 40mins
	ibstock	X38>9>15	2hr 6mins
	Markfield	Mickleover Blue>440>29A	2hr 5mins
LE67	ashby-de-la-zouch	X38>9	1hr 18mins
	calke	Royal Derby>61	1hr 48mins
	smisby	X38>9	2hr 5mins
	Willesley	X38>9	1hr 45mins
	worthington	X38>9>155	1hr 56mins
LE12	east leake	Mickleover Blue>Red Arrow>63	1hr 29mins
	west leake	Mickleover Blue>44>train>1>Soar Valley	1hr 53mins
	sutton bonington	Mickleover Green>Skylink Leicester>Skylink Nottingham	1hr 52mins
	mountsorrel	Mickleover Blue>440>127	1hr 35mins
	shepshed	Mickleover Blue>440>126	1hr 20mins
	belton	Mickleover Blue>440>126	2hr 30mins
	Quorn	Mickleover Blue>440>127	1hr 23mins
	sileby	Mickleover Blue>440>2	1hr 44mins
	wymeswold	Mickleover Blue>440>127>8	1hr 57mins
DE12	appleby magna	X28>9>7	1hr 50mins
	measham	X38>19	1hr 34mins
	overseal	X38>21	56mins
	rosliston	X38>22	1hr 17mins
	walton-on-trent	X38>22	1hr 8mins
LE11	loughborough	Royal Derby>train	52mins
	charnwood	Mickleover Blue>440>127	1hr 51mins

## Leicester General Hospital

3.33 Journey distances and off-peak travel times have been estimated and summarised in **Table 12** below. Travel costs have been estimated based on distance travelled on the basis of £0.65/mile.

*Table 12- Car travel to Leicester General Hospital*

		distance	time	cost
		km	minutes	£
LE65	coalville	16	36	£ 10.16
	ibstock	16	39	£ 10.56
	markfield	11	26	£ 6.91
LE67	ashby-de-la-zouch	21	47	£ 13.81
	calke	31	55	£ 19.91
	smisby	23	49	£ 15.03
	willesley	25	53	£ 16.25
	worthington	23	45	£ 15.03
	east leake	21	38	£ 13.81
LE12	west leake	24	40	£ 15.44
	sutton bonington	18	41	£ 11.78
	mountsorrel	9	23	£ 5.69
	shepshed	18	35	£ 11.38
	belton	20	39	£ 13.00
	Quorn	11	25	£ 6.91
	sileby	10	23	£ 6.50
	wymeswold	17	29	£ 10.97
	appleby magna	27	50	£ 17.47
DE12	measham	23	47	£ 15.03
	overseal	29	54	£ 19.09
	rosliston	33	61	£ 21.13
	walton-on-trent	46	64	£ 29.66
	loughborough	14	28	£ 9.34
LE11	charnwood	10	21	£ 6.50

3.34 Journey times and the routes for travel by bus are summarised in **Table 13**. These journey times do not include the access time or waiting times to access services other than where changes are required (as they so in the majority of instances).



*Table 13 - Bus travel to Leicester General Hospital*

		Route	time minutes
LE65	coalville	UHL>29	1hr 13mins
	ibstock	UHL>120>15	1hr 39mins
	markfield	UHL>29A	54mins
LE67	ashby-de-la-zouch	UHL>29A>9	2hrs 6mins
	calke	UHL>train>43>61	2hrs 42mins
	smisby	UHL>120>9A>9	3hrs 17mins
	willesley	UHL>29A>9	2hrs 40mins
	worthington	UHL>29>155	1hrs 49mins
LE12	east leake	UHL>train>9>63	1hr 9mins
	west leake	UHL>train>1>Skylink Nottingham>Soar Valley	1hr 54mins
	sutton bonington	UHL>train>1>Skylink Nottingham	1hr 27mins
	mountsorrel	16>126	1hr 8mins
	shepshed	UHL>train>4	1hr 11mins
	belton	22B>440>129	1hr 40mins
	Quorn	16>126	1hr 16mins
	sileby	UHL>train	34mins
	wymeswold	UHL>X7>Skylink Leicester Derby>8	1hr 44mins
DE12	appleby magna	UHL>120>9A>7	2hr 43mins
	measham	UHL>29>9A>A	2hr 33mins
	overseal	UHL>train>X38>21	2hr 9mins
	rosliston	UHL>train>X38>22	2hr 37mins
	walton-on-trent	UHL>train>X38>22	2hr 28mins
LE11	loughborough	UHL>train	35mins
	charnwood	16>126	1hr 27mins

3.35 As can be seen from the above table, travel by scheduled public transport is significantly slower than by private car. The majority of trips are also complex with two or more changes.

### Leicester Glenfield Hospital

3.36 Journey distances and off-peak travel times have been estimated and summarised in **Table 14** below. Travel costs have been estimated based on distance travelled on the basis of £0.65/mile.

*Table 14- Car travel to Glenfield Hospital*

		distance	time	cost
		miles	minutes	£
LE65	coalville	10	20	£ 6.50
	ibstock	11	22	£ 7.15
	markfield	5	11	£ 3.41
LE67	ashby-de-la-zouch	16	29	£ 10.03
	calke	20	36	£ 12.80
	smisby	18	32	£ 11.50
	willesley	19	36	£ 12.68
	worthington	15	30	£ 9.63
LE12	east leake	17	29	£ 11.01
	west leake	21	28	£ 13.24
	sutton bonington	20	28	£ 12.80
	mountsorrel	8	14	£ 5.04
	shepshed	13	20	£ 8.00
	belton	15	24	£ 9.55
	Quorn	10	15	£ 6.34
	sileby	9	13	£ 5.93
DE12	wymeswold	16	21	£ 10.68
	appleby magna	22	35	£ 14.02
	measham	18	31	£ 11.78
	overseal	24	38	£ 15.56
	rosliston	28	45	£ 17.79
	walton-on-trent	41	48	£ 26.20
LE11	loughborough	12	18	£ 7.84
	charnwood	8	11	£ 5.36

3.37 Journey times and the routes for travel by bus are summarised in **Table 15**. These journey times do not include the access time or waiting times to access services other than where changes are required (as they so in the majority of instances).

*Table 15 - Bus travel to Glenfield Hospital*

		Route	time minutes
LE65	coalville	No29	38
	ibstock	No15>No120	55
	markfield	No29	20
LE67	ashby-de-la-zouch	No9A>No26	88
	calke	No61>No42>Sheffield to London St. Pancras>No22>No14A	189
	smisby	No9>No9>No29A	162
	willesley	No9A>No26	124
	worthington	No155>No26	84
LE12	east leake	No1>Sheffield to London St. Pancras>No22>No14A	78
	west leake	Soar Valley>No1>Sheffield to London St. Pancras>No22>No14A	95
	sutton bonington	Skylink Nottingham>No126>No40	95
	mountsorrel	No126>No40	50
	shepshed	No126>No29	65
	belton	No129>Skylink Leicester to Derby>No28	101
	Quorn	No154>UHL	47
	sileby	No2>No28	54
	wymeswold	No8>Skylink Leicester to Derby>No28	99
DE12	appleby magna	No7>No9A>No26	128
	measham	No8>No9A>No26	122
	overseal	No8>No9>No26	143
	rosliston	No22>No9>No29A	165
	walton-on-trent	No22>No9>No29A	175
LE11	loughborough	Sheffield to London St. Pancras>No22>No162	48
	charnwood	No126>No154>UHL	79

### Leicester Royal Infirmary Hospital

3.38 Journey distances and off-peak travel times have been estimated and summarised in **Table 16** below. Travel costs have been estimated based on distance travelled on the basis of £0.65/mile.

*Table 16- Car travel to LRI Hospital*

		distance	time	cost
		miles	minutes	£
LE65	coalville	16	27	£10.20
	ibstock	17	30	£10.81
	markfield	9	20	£5.65
LE67	ashby-de-la-zouch	21	37	£13.69
	calke	26	44	£16.49
	smisby	23	40	£15.15
	willesley	25	44	£16.37
	worthington	23	37	£15.03
LE12	east leake	18	35	£11.42
	west leake	26	35	£16.90
	sutton bonington	26	35	£16.45
	mountsorrel	8	20	£5.44
	shepshed	18	26	£11.66
	belton	21	31	£13.20
	Quorn	11	22	£6.74
	sileby	10	20	£6.34
DE12	wymeswold	17	28	£11.09
	appleby magna	28	43	£17.71
	measham	24	39	£15.48
	overseal	29	45	£19.26
	rosliston	33	53	£21.49
	walton-on-trent	46	55	£29.86
LE11	loughborough	13	24	£8.25
	charnwood	9	17	£5.77

3.39 Journey times and the routes for travel by bus are summarised in **Table 17**. These journey times do not include the access time or waiting times to access services other than where changes are required (as they so in the majority of instances).

*Table 17 - Bus travel to LRI Hospital*

		Route	time minutes
LE65	coalville	No29>No84A	67
	ibstock	No159>No153	79
	markfield	No29>No84A	49
LE67	ashby-de-la-zouch	No9A>No26>No84	117
	calke	No61>No42>Sheffield to London St. Pancras	165
	smisby	No9>Cardiff to Nottingham>Sheffield to London St. Pancras	182
	willesley	No9>No29A>No84A	158
	worthington	No155>No240>NoX44	81
LE12	east leake	No1>Sheffield to London St. Pancras	57
	west leake	Soar Valley>No1>Sheffield to London St. Pancras	74
	sutton bonington	Skylink Nottingham>No9>Sheffield to London St. Pancras	76
	mountsorrel	No126>No85	49
	shepshed	No127>Skylink Leicester to Derby>No85	74
	belton	No129>Skylink Leicester to Derby>No85	87
	Quorn	No154>Skylink Leicester to Derby>No85	51
	sileby	Lincoln to Leicester	33
	wymeswold	No8>Sheffield to London St. Pancras	68
DE12	appleby magna	No7>No9A>No26>No84	157
	measham	No8>No9A>No26>No84	151
	overseal	No21>No1>B'ham NS to Nottingham>Sheffield to London St. Pancras	135
	rosliston	No22>No19>B'hamNS to Nottingham>Sheffield to London St. Pancras	152
	walton-on-trent	No22>No19>B'hamNS to Nottingham>Sheffield to London St. Pancras	152
LE11	loughborough	Nottingham to London St. Pancras	27
	charnwood	No126>No85	68

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#### **4. COMPARISON OF ASHBY TO OTHER HEALTHCARE SITES**

- 4.1 Based on the estimated travel times summarised above a comparison between the travel time to access health services in Ashby has been prepared compared to Coalville, Loughborough, Burton, Derby and the Leicester Hospitals .
- 4.2 The results for travel by car are summarised in **Table 18** below.
- 4.3 The results for travel by bus are summarised in **Table 19** below.



*Table 18 – Comparison travel time by car relative to Ashby District Hospital*

		Coalville	Loughboro	Burton	Derby	LGH	Glenfield	LRI
LE67	coalville	-7	9	22	25	25	9	16
	ibstock	0	14	24	26	29	12	20
	markfield	-10	-6	16	12	6	-9	0
LE65	ashby-de-la-zouch	11	21	24	29	45	27	35
	calke	8	15	17	10	42	23	31
	smisby	7	16	16	17	40	23	31
	willesley	9	18	18	24	42	25	33
	worthington	6	11	22	18	35	20	27
LE12	east leake	-4	-12	8	2	11	2	8
	west leake	0	-8	10	4	18	6	13
	sutton bonington	-1	-9	10	4	19	6	13
	mountsorrel	-11	-20	13	8	-11	-20	-14
	shepshed	-9	-8	16	11	17	2	8
	belton	-2	-1	20	16	25	10	17
	Quorn	-13	-21	13	8	-6	-16	-9
	sileby	-10	-20	14	8	-11	-21	-14
wymeswold	-4	-15	10	3	-2	-10	-3	
DE12	appleby magna	6	16	15	21	37	22	30
	measham	6	15	18	24	38	22	30
	overseal	8	18	7	14	41	25	32
	rosliston	8	17	-7	-1	39	23	31
	walton-on-trent	7	11	-13	-11	36	20	27
LE11	loughborough	-8	-21	14	8	4	-6	0
	charnwood	-11	-30	13	5	-12	-22	-16



*Table 19 – Comparison travel time by bus relative to Ashby District Hospital*

		Coalville	Loughboro	Burton	Derby	LGH	Glenfield	LRI
LE67	coalville	-7	27	68	84	57	22	51
	ibstock	0	20	68	82	55	11	35
	markfield	-10	28	82	70	-1	-35	-6
LE65	ashby-de-la-zouch	11	57	60	72	120	82	111
	calke	8	27	68	84	57	22	51
	smisby	7	95	87	95	167	132	152
	willesley	9	54	59	66	121	85	119
	worthington	6	19	115	71	64	39	36
LE12	east leake	-4	-47	34	17	-13	-4	-25
	west leake	0	-91	-6	-33	-32	-51	-72
	sutton bonington	-1	-57	37	30	5	13	-6
	mountsorrel	-11	-56	21	9	-18	-36	-37
	shepshed	-9	-16	101	44	35	29	38
	belton	-2	10	76	117	67	68	54
	Quorn	-13	-55	24	12	5	-24	-20
	sileby	-10	-51	14	10	-60	-40	-61
wymeswold	-4	-51	23	24	11	6	-25	
DE12	appleby magna	6	75	61	82	135	100	129
	measham	6	72	64	74	133	102	131
	overseal	8	72	10	15	88	102	94
	rosliston	8	63	-20	0	80	88	75
	walton-on-trent	7	69	-38	-18	62	89	66
LE11	loughborough	-8	-64	-4	-18	-35	-22	-43
	charnwood	-11	-97	28	8	-16	-24	-35



4.4 As can be seen from the above table, the greatest change is on public transport access times in particular from the LE65 and DE12 postcode areas. Together however these account for 22% of the overall out-patient trips based on existing patterns. Therefore a weighted average has been calculated based on postcode districts. This weighted average is summarised in **Table 20** below.

*Table 20 – Weighted average travel time for out patients relative to Ashby District Hospital*

	Car		Bus	
	Coalville Community Hospital	Loughborough Hospital	Coalville Community Hospital	Loughborough Hospital
LE67	-3	3	-9	28
LE65	1	2	2	12
LE12	-1	-1	1	1
DE12	1	1	4	9
LE11	0	-1	-1	-1
Other	0	0	0	0
Weighted Average	-2	5	-3	49

4.5 As shown in **Table 20** the relocation of services to Coalville Hospital would have a positive overall effect on accessibility for both car and bus users. The relocation of services to Loughborough Hospital would have a negative overall effect on accessibility for both car and bus users although the differences for car users are small. This suggests that the choice of destination for out-patient treatment is driven largely by non-transport considerations as patients are not currently accessing the most convenient centre for treatment. There may however be external considerations influencing this pattern.

4.6 The DE12 postcode area would be the worst affected by the relocation of services away from Ashby-de-la-Zouch. This area is predominantly rural and includes the communities of Appleby Magna, Linton, Measham, Overseal, Rosliston, Walton-on-Trent.

4.7 The main bus services in this area, the No. 7 and No. 8, are supported by



Leicestershire County Council and therefore there may be scope for the routing to be amended to reflect the pattern of services. Notwithstanding this it is likely that the relative accessibility of Burton Hospital will increase for residents in this area compared to Coalville and Loughborough Hospital.

## **5. CAR PARKING**

- 5.1 There is car parking available at all sites. Generally this is available free of charge to visitors to the hospital. Given the scale of the operations at each of the site and the generally residential areas within which the sites are located, this should minimise the potential for over-spill into adjacent areas. The absence of controls may however affect the utility of these spaces for patients and their visitors.
- 5.2 The ability to park near to each of the sites will be influenced by not only the amount of parking at each of the sites but also how effectively those spaces are used in particular whether there is any separate provision made for staff as opposed to patients and visitors. This distinction is important as whilst patient and visitor spaces will regularly turnover, perhaps hourly, spaces used by staff will remain occupied throughout the day.
- 5.3 As present, there is no usage data available for the sites.
- 5.4 A car parking survey has been undertaken at Coalville Community Hospital. Peak periods of demand occur mid morning and early afternoon. During these periods the demand exceeds the available supply resulting in car being parked in non-designated areas. Full details are included at **Appendix A**.
- 5.5 It is likely that this excess demand may be address through parking management and travel planning policies at the site. In total there are around 138 car parking spaces at the hospital. The main car parking area in front of the hospital has 75 spaces. On average each space within this area turned over 2.8 times per day however half (38) of all the spaces were occupied for in excess of 6 hours. There is therefore a significant element of long-stay car parking and seeking to displace this element of car parking would free up capacity for multiple short term stays.
- 5.6 The medical centre at Ashby has been planned on the basis of providing an appropriate level of parking commensurate with the requirements of a facility of this nature. Should services here or indeed at any of the other sites be expanded then the parking provision should be reviewed to ensure that the parking supply and



management policies remain appropriate.



## **6. CONCLUSIONS**

- 6.1 David Tucker Associates was commissioned by the West Leicestershire Clinical Commissioning Group to review the transport implications of various options for the reconfiguration of health services in the Ashby-de-la-Zouch area. These options focus on the role for Ashby & District Hospital which is located on Leicester Road in Ashby-de-la-Zouch.
- 6.2 The majority of the sites have two visiting periods. The first is mid-afternoon and the second is early evening. Current bus timetables limit accessibility during the early evening visiting hours however this applies now. This will be further reduced if planned changes to scheduled bus services are implemented. Private car use will therefore be the predominant transport mode for those that have access.
- 6.3 For those without a car and with a medical need, there are transport services operated by Arriva within Leicestershire. As set out above, for many patients particularly in the Ashby-de-la-Zouch and Measham areas, hospitals in Derby and Burton are geographically nearer resulting in additional demand on the Marlene Reid Centre services.
- 6.4 Voluntary and Community transport services operated by the Marlene Reid Centre with a particular remit for assisting those over 60. These play a significant role particularly in the absence of scheduled services or for cross-boundary travel provision for those with medical need to access to Burton and Derby hospitals.
- 6.5 The largest impact in terms of accessibility arising from a relocation of services from Ashby-de-la-Zouch would be felt in the DE12 and LE65 areas. These account for 22% of the outpatients treated at the existing hospital. Overall however based on the existing distribution of out-patients shows that journey times would be decreased if more services were located at locally or at Coalville Community Hospital.

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