

1. Annex: Integrated Impact Assessment

A key commitment for the Fit for the Future programme is to deliver the requirements for Service Change as set out in Delivering Service Change for Patients (NHS England, 2018). An important component of this is delivery of an Integrated Impact Assessment on proposed solutions. This document contains all analysis conducted to determine the impacts of each proposed change.

2. Contents

1.	Annex: Integrated Impact Assessment	1
2.	Contents	1
3.	Equality Impact Assessment	3
3	3.1. Key Findings	3
4.	EQIA analysis	9
4.1	L. Age	10
E	EQIA summary for Age	11
4	4.2. Disability	18
E	EQIA summary for Disability	19
4.3	3. Gender	22
E	EQIA Summary for Gender	23
4	4.4. Pregnancy	27
E	EQIA Summary for Pregnancy	28
4.5	5. Marital status	29
E	EQIA Summary for Marital Status	30
4	4.6. Ethnicity	33
E	EQIA Summary for Ethnicity	34
4.7	7. Sexual orientation	38
E	EQIA Summary for sexual Orientation	39
4.8	3. Religion	40
E	EQIA Summary for Religion	41
4.9	9. Gender reassignment	44
E	EQIA Summary for Gender Re-assignment	45
5.	Health Inequalities Impact Assessment	46
5 1	Key Findings	46



6.	HIIA analysis	Strategy Unit
	1. Deprivation	
	IIA summary for Deprivation	
	·	
6.2.	,	
	IIA summary for Looked After Children (LAC)	
6.3.	·	
HI	IIA Summary for carers and unpaid carers	
٠.	4. Homelessness	
HI	IIA summary for Homelessness	61
6.5.	Substance Abuse	63
Н	IIA Summary for Substance Misuse	65
6.6.	Mental Health	66
Н	IIA Summary for Mental Health	67
7.	Health Impact Assessment	69
7.	1. Key Findings	69
Н	IA analysis	71
7.	2. Cardiovascular disease	71
Н	IA summary for Cardiovascular disease	72
7.3.	Diabetes Mellitus	
Н	IA summary for Diabetes Mellitus	75
7.4.	Neurological Conditions	
Н	IA summary for Neurological Conditions	78
7.5.	Falls among the elderly	79
Н	IA summary for falls among the elderly	80
7.6.	Overweight or Obese	82
Н	IA summary for Overweight and Obesity	83



3. Equality Impact Assessment

3.1. Key Findings

Public and staff Engagement

- Engagement from the public suggests BME communities feel it is vitally important services remain close to patients who need it most. This cohort identified the need to see a specialist at their earliest opportunity and some think that centres of excellence are a good idea to promote specialist care.
- The key concerns for patients are around access to specialist care regardless of where they live, time to assessment and overall waiting times and the availability of services locally so there is not an inequality in service provision.
- Over 65s have also expressed concerns around access to specialist staff in a timely manner.
- Both Staff and the public expressed some concerns about Gloucestershire Royal
 Hospital (GRH) being able to cope with an increase in emergency admissions with staff
 looking at it from a facilities and resource perspective and the public considering
 waiting times and parking.
- Over 65s expressed concerns around transport. Specifically they highlighted the impact
 on family and friends and the unfamiliarity of a different hospital, the surrounding area
 and how to get there. This cohort also criticised public transport reliability. This point
 was emphasised by those living outside of both Gloucester and Cheltenham where
 transport is perceived to be more complicated.
- Feedback indicated that the public are more concerned with travel times than distances when it comes to care but also indicated that for some parts of the county it can take an hour to attend hospital if the proposed changes take place and this will result in increased fuel costs on top of parking charges.



Consultation Feedback

Feedback from the consultation identified some overall themes highlighted by those with protected characteristics.

Travel was identified as concern, particularly for those over 65 and those with disabilities. Respondents were concerned about the travel times to the hospital sites from where they live and traffic across the county. Feedback also identified concerns regarding the travel between sites and if public transport is sufficient.

Those with disabilities and those over 65 identified concerns regarding **transfers** between hospital sites and wards during treatment. This cohort also identified concerns around patients who are very unwell requiring transfer for emergency treatment. This was highlighted in regards to elective colorectal centralisation and Emergency general surgery centralisation to GRH. Some feedback questioned if high risk procedures should be carried out where emergency general surgery is centralised.

Parking was identified as an issue for patients, particularly at Cheltenham General Hospital (CGH), which could become exacerbated by centralisation of elective work.

Capacity was identified as a concern by respondents. Many questioning if the hospitals can cope with the increased demand brought about by centralising services.

Both sites acting as centres of excellence, was a suggestion by many respondents who felt that the county was too large to have one centre of excellence located at one site. Some raised concerns regarding the growing population. Whereas, others felt that the centralising of services would optimise care quality, increased staff retention and learning for staff which would result in reduced waiting times and cancellations.

Community Hospitals were mentioned within feedback, questioning how they will interact with the new models of care.

Many felt that this could also be a good opportunity to **modernise** areas within the sites as part of this proposal.

Potential Positive Impacts

Centralising acute medicine enhances patient safety, improve outcomes and reduce LOS as it allows for more patients to be seen by a senior reviewer within 14 hours of arrival, associated with increased patient discharges and improved clinical outcomes. 67% of admissions to acute medicine last year were for over 65s, meaning this cohort is significantly impacted by this change and its benefits.

By centralising the IGIS hub patients will now have a 24/7 service available to them. By co-locating this with the County's Trauma hub patients are more likely to receive emergency intervention faster. By co-locating with vascular the Trust is creating a multi-disciplinary approach to management of primary angioplasty which can improve patient outcomes. 68% of interventional cardiology patients and 66% of vascular patients last year were over 65, meaning this cohort is significantly impacted by this change and its benefits.



The centralisation of services will also mean quality of care and expertise will be enhanced, particularly beneficial to patients with long term conditions or co-morbidities which are prevalent in patients with disabilities, those aged 65 and some BME communities.

By centralising services, patients will have reduced waiting times, fewer cancellations and less unplanned overnight stays. Timely appointments with fewer cancellations means patients can more effectively plan their travel (e.g. pick up and drop off times if they are not driving themselves). This will benefit all patients, including those with disabilities who may need to plan travel in advance.

Reduced unplanned overnight stays may help to limit anxiety and unfamiliarity, particularly important for patients with a learning disability.

Recommendations based on evidence Review

- 1. It is recommended that BME communities, particularly those vulnerable to long term conditions are involved in the consultation to feedback their views of the proposed changes and their perceived challenges. BME patients and those aged over 65 are disproportionately represented in the vascular patient cohort, meaning that engagement was these groups around the proposed changes to the vascular hub would be beneficial.
- 2. Proactive engagement will be needed to explain the benefits and mitigate public perceptions of additional risks to patient and visitor wellbeing. Ensure sufficient time, resource and focus is allocated to engagement with a range of groups on travel impacts, both planned and emergency, and for families and visitors as well as patients. Staff travel may also be a factor.
- 3. High quality signposting, good quality wheelchair access and interactive information for those with sensory impairments will be necessary to help patients navigate this change. Both sites will already have facilities in place for patients with disabilities but it is important to ensure these are optimised and co-designed where possible with representative organisations and patients with disabilities.
- 4. Explaining how specialist staff are distributed across the two sites will be beneficial in alleviating concerns around accessibility to specialist care equally across the county.
- 5. It is recommended a review of public transport is conducted to understand if there are limitations, to disseminate information regarding travel to patients to make journey planning easier and ensure patients are aware of what services are available.
- 6. It is recommended to work closely with local transport providers and the local authority to understand their forward plans for transport and the impact this will have on the reconfiguration proposals.



- 7. It is recommended to explore the possibility of adapting the model of elective colorectal to alleviate some concerns regarding the transfer of high risk patients. Evidence review suggests there are clinical benefits to elective colorectal being centralised in GRH with emergency general surgery, however, consultation feedback suggests that overall patients would prefer centralisation at CGH. In order to accommodate patient preference, optimise care and alleviate concerns regarding transfer, it is recommended to explore a model where elective colorectal is centralised at CGH but with high risk patients attending GRH to receive their colorectal treatment.
- 8. Communication has been identified as an area of improvement based on feedback. Providing detailed information about what to expect as a patient attending CGH A&E, what is meant by a spoke model for IGIS at CGH, how do these changes link with community hospitals and how will the hospitals continue to manage demand in the new models, are some examples.
- 9. Assess the parking at each site, including availably of disabled parking bays to understand if this will be negatively impacted by the changes.

Potential Negative Impacts

A centralised hub for IGIS will provide the capacity and capability to provide specialist centralised care for these patients. By retaining vascular at CGH, the service is maintained in the location where a higher proportion of patients are over 65. However, patient safety may be compromised by having IGIS and vascular separate, resulting in some complex and emergency patients needing to travel. It is also unclear the impact this will have on vascular and if this impact could be negative. Patients most impacted by this are those over 65 as they are more likely to have heart disease and make up over 60% of the vascular patient cohort. The impact to vascular and the impact on patient safety has been identified by Gloucestershire Hospitals NHS Foundation Trust, however, this impact has yet to be quantified by clinicians.

If emergency general surgery is centralised to GRH, people attending A&E at CGH or patients (e.g. day cases and elective colorectal) deteriorating and needing emergency general surgery may need to be transferred to GRH. Patients over 65 are most vulnerable to deterioration and currently 40% of general surgery patients are over 65, meaning they are disproportionately impacted by this. Currently, however, it is only 6 per day in total will be impacted by the new arrangements, with less than 1 patient per day need to be transferred in an emergency as a result of inpatient deterioration. This means the impact is relatively small and outweighed by the positive clinical outcomes.

GI day case patients are generally lower acuity and so are less likely to deteriorate; however, in the event a patient does deteriorate they may need to be transferred to GRH. Patients over 65 are more likely to experience co-morbidities and other health conditions and therefore could be more vulnerable to needing transfer, however, transfer as a result of



deterioration is already indicated to be low and infrequent. This is outweighed, however, by reduction in waiting times, enhanced quality of care and a reduction in the number of patients who are required to stay overnight unplanned as a result of a late start.

Feedback from staff and patients suggests parking can be a challenge at both sites. This could prove challenging for patients with a disability who will require a disabled parking bay of drop off point if the demand increases beyond what is currently available as a result of centralising services. Moving sites can also be a challenge for patients with a sensory impairment who may be familiar with their local hospital site but may be required to travel to the other site. Additional support may be needed to help patients navigate this change.

The new proposed models will mean that deteriorating patients may need to be transferred depending on the site they attended and their condition. For patients with a physical or learning disability, this may mean additional support with transport arrangements on their return home as they may not drive. It is important to note this will likely be a rare occurrence and therefore outweighed by the clinical benefits.

Recommendations based on evidence review

- It is recommended residents and service users over 65s and BME communities are engaged with to explain the reasons for centralising IGIS and the implications for keeping vascular separate or co-locating it with IGIS from a clinical outcomes perspective.
- 2. It is recommended those over 65 are engaged with regarding the proposed centralisation of emergency general surgery as 60% of the cohort are over 65. It is important to consider the impact for patients deteriorating at CGH who may need to be transferred, particularly those over 65 who may have more difficulty travelling around the county e.g. visitors such as relative who may be relying on public transport and who may have health conditions themselves. It is also recommended to consider if there will be repatriation plans for patients who started at CGH.
- 3. Identifying to the public that current A&E services at CGH will be maintained is important to alleviate concerns around its closure. Feedback from over 65s emphasises the need to ensure all patients are aware of their local A&E and where to go in the event of an emergency. There are concerns around whether they will need to learn the route to a new A&E so ensuring they know A&E is still available at CGH and what to do in the event of an emergency is important.
- 4. Any change involving emergency transport will need to be part of engagement as this could result in access concerns.
- 5. Liaise with the local authority and transport services regarding public transport options for people who may need to use public transport to travel between hospital sites or access a different site from their home.



- 6. When centralising services it is important to assess if there is an appropriate number of disabled parking bays to accommodate increases in demand of, for example, specific elective procedures. Engagement with patients with disabilities can help to identify the perceived challenges and what is required.
- 7. Moving sites can be a challenge for patients with a sensory impairment who may be familiar with their local hospital site but may be required to travel to the other site. Additional support may be needed to help patients navigate this change; engagement through representative organisations for sensory impairments and disabilities would be beneficial to understand the best way to offer support.
- 8. It is recommended patients with disabilities are part of the co-design where possible, looking at specific challenges such as disabled access and transport for those who do not drive. Engagement with representative organisations and support groups would also be needed to understand how to support patients with learning disabilities who may need to travel to a different site.



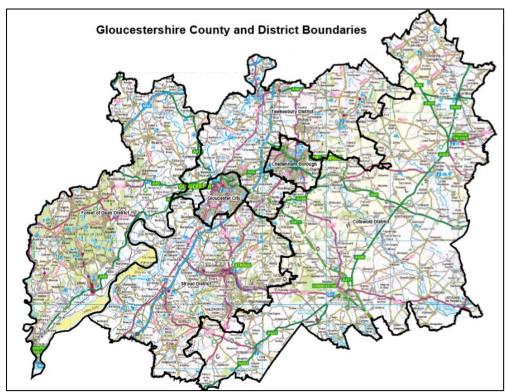
4. EQIA analysis

Public bodies have a legal duty to eliminate unlawful discrimination, to advance equality of opportunity and to have particular regard to the impact of potential service changes on defined segments of the population – known as those with 'protected characteristics'. The main protected characteristics defined in legislation and national guidance are:

- 1. Age
- 2. Disability
- 3. Sex
- 4. Pregnancy
- 5. Marital status
- 6. Race
- 7. Sexual orientation
- 8. Religion
- 9. Gender reassignment

Catchment Area

Gloucestershire covers 6 districts: Gloucester, Stroud, Forest of Dean, Tewkesbury, Cheltenham and Cotswold (see map below). This report will use this geography for analysing prevalence within the population to supplement analysis of specific patient cohorts identified through hospital data.





4.1. Age

The age of an individual, combined with additional factors including other 'protected characteristics' may affect their health and social care needs. Individuals may also experience discrimination and inequalities because of their age. Analysis of the 2008 European Social Survey in 2012 found that age discrimination was the most common form of prejudice experienced in the UK, affecting both younger and older people, with 28% of respondents saying they had experienced prejudice based on age.

Assuming current population trends continue, the population in Gloucestershire will rise by 44,300 between 2016 and 2026, from 623,100 to 667,400 (an increase of 0.7% per annum). The dominating feature of the population projections is the sharp increase in population in the age group 65 or over. These changes mean that by 2041, the proportion of people in the county who are aged 65 or over will have risen from 20.8% to 28.9%, and the proportion of people aged 85 or over will have risen from 2.9% to 5.5%. Population projections in the older age categories far exceed national averages (see Table 1).

Table 1: ONS Subnational Population Projections for Gloucestershire, the districts and England by age group, 2016 to 2041

		0-19			20-64			65+	
	Number	of people	% change	Number	of people	% change	Number	of people	% change
	2016	2041	2016 to 2041	2016	2041	2016 to 2041	2016	2041	2016 to 2041
Cheltenham	26,500	27,200	2.6%	69,100	67,200	-2.7%	21,900	33,600	53.4%
Cotswold	17,600	18,400	4.5%	47,000	44,500	-5.3%	21,500	33,500	55.8%
Forest of Dean	18,300	19,600	7.1%	46,700	45,200	-3.2%	20,200	32,100	58.9%
Gloucester	32,100	35,200	9.7%	75,600	80,600	6.6%	20,800	35,300	69.7%
Stroud	26,200	28,600	9.2%	65,400	67,100	2.6%	25,800	40,400	56.6%
Tewkesbury	19,800	22,800	15.2%	49,300	52,100	5.7%	19,500	32,100	64.6%
Gloucestershire	140,600	152,000	8.1%	353,000	356,700	1.0%	129,700	206,700	59.4%
England	13,107,000	13,672,900	4.3%	32,278,400	33,285,800	3.1%	9,882,800	14,993,600	51.7%



EQIA summary for Age

Proposed Change	Scale of Potential impact	Evidence of Potential Impact and potential duration	Consultation Outputs	Impact based on consultation	Nature of potential impact and recommendations
A3 - Centralise acute medicine to GRH	Large Scale Impact The proportion of people in the county who are aged 65 or over will rise from 20.8% to 28.9% and the proportion of people aged 85 or over will rise from 2.9% to 5.5% by 2040. Population projections in the older age categories far exceed national averages. As part of the centralisation of acute medicine there will likely be an increase at GRH from CGH. There were 7,415 admissions between Feb 19 and Jan 20 for acute medicine at CGH. 67% were over the age of 65.	Long Term Impact Long term conditions are more prevalent in those over the age of 65 making this cohort more likely to access services and may require extra provision and support to do so. The acute medical problems of older people are often similar to those of younger adults but the presentation can be atypical or there can be a number of co-existing problems that make diagnosis difficult. In these patients a minor illness can lead to deterioration¹. This commonly leads to admission into acute medicine, making this cohort likely to be impacted by the centralisation of acute medicine. Centralising acute medicine enhances patient safety, improve outcomes and reduce LOS as it allows for the co-ordination of tests and input from different specialist teams. It is also best practice for acute medicine patients to undergo consultant review within 14 hours of arrival in hospital. By centralising a finite workforce the Trust will be able to offer more consistent provision of senior reviewers which will increase the number of patients being reviewed within 14 hours, improving clinical outcomes for patients and associated with increased discharges.	141 people over 66 responded to the survey with regards to centralised acute medicine. In total for all those who responded to this question in all patient cohorts, 233 respondents were from the East and 179 the West of the county.	74% of those over 65 support the proposal to centralise of acute medicine to GRH and a further 3.5% had no opinion. Where respondents agreed, they felt that consolidating skill into one centre was sensible. Where respondents were opposed, they expressed concerns around travel to GRH and felt both hospitals should have equal skill and offer the same services. Feedback around the importance of avoiding multiple moves between sites and wards for older patients.	Centralising acute medicine enhances patient safety, improve outcomes and reduce LOS as it allows for more patients to be seen by a senior reviewer within 14 hours of arrival, associated with increased patient discharges and improved clinical outcomes. Small Negative Impact Patients over 65 may need further support to access services in the new location if their journey becomes longer and they are less familiar with the centralised location. Respondents to the consultation over 65 expressed concerns regarding travel times and travel options. Liaising with local transport e.g. through local authority partners to provide information about transport options for those over 65 and to understand more about transport plans over the next 5 to 10 years to understand if there is any plans to expand current transport options in the future. Plans to ensure patients are not moved multiple times between sites or wards at each site, particularly older patients and those with dementia.

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¹ Lawson P, Richmond C. 13 Emergency problems in older people. Emergency Medicine Journal 2005;22:370-374.



Moderate Scale Impact There were 1,855 Interventional cardiology procedures and 944 vascular surgeries at CGH between Feb 19 and Jan 20. 68% of interventional cardiology patients were over 65 and 66% of vascular patients. Considering that in addition to this, over a fifth to over a quarter by 2040, this surgery (1615) hub and vascular certoffied of the them to intervention of GRH and CGH is over 55, this cohort is likely to be the most impacted. B2 - IGIS hub and vascular colors (1816) and colors (1816) and colors (1816) and colors (1816) and vascular them to the most minpacted. B3 - IGIS hub and vascular colors (1816) and vascular them to the most minpacted of single patients. Considering that in addition to this, over a fifth of the population of GRH and CGH is over 55, this cohort is likely to be the most impacted. B4 - IGIS hub and vascular interventional radiology and intervention in many emergencies. B5 co-locating IGIS and vascular, interventional radiology and intervention in many emergencies. B7 co-locating IGIS and vascular, interventional radiology and intervention in many emergencies. B8 co-locating IGIS and vascular, interventional radiology and intervention in many emergencies. B9 co-locating IGIS and vascular, interventional radiology and intervention in many emergencies. B9 co-locating IGIS and vascular, interventional radiology and intervention in many emergencies. B9 co-locating IGIS and vascular, interventional radiology and intervention in many emergencies. B9 co-locating IGIS and vascular, interventional radiology and interventional						Strategy Offit
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² Lakatta EG, Levy D. Arterial and cardiac aging: major shareholders in cardiovascular disease enterprises, part I: aging arteries: a "set up" for vascular disease. Circulation. 2003;107:139–146 https://www.nhs.uk/conditions/Coronary-angioplasty/



Moderate Scale Impact It is estimated this will mean 2,812 patients in total may be subject to change, approximately 8 a day. The population aged 65 and over are much more likely suffer with long term conditions and ill will be expected to first the other populations aged 65 and over are much more likely suffer with long term conditions and ill patients presenting on the same day. This composed did not supported the proposal supported the supported the proposal supported the sup	It is estimated this will mean 2,812 patients in total may be subject to change, approximately 8 a day. 2080 patient episodes would move from CGH to GRH 732 patients episodes would move from GRH to CCH. General surgery activity data states that approximately 38% of patients seen at GRH are gaed 65 + and the proportion is even higher at CGH at 42%; using general surgery, wising general surgery will move from CGH to GRH. A total of 1,152 aged over 65 will be patients will move from CGH to GRH A total of 1,152 aged over 65 will be patients will move from CGH to GRH. A total of 1,152 aged over 65 will be patients will move from CGH to GRH. A total of 1,152 aged over 65 will be patients will move from CGH to GRH. A total of 1,152 aged over 65 will be patients will move from CGH to GRH. A total of 1,152 aged over 65 will be impacted by solution CG which is 40% of the estimated 2,812 overall patients impacted. Those who supported the proposal support to this question in all patients on such as proposal of the total for all those who proposed do to this question in all patient cohorts. In total for all those who in responded to this question in all patient cohorts. In total for all those who in responded to this question in all patient cohorts. In total for all those who opposed did not supported the consolidation of skills and expertise on one site and in patients were from the East and 179 the West of the dounty. Those who supported the consolidation of skills and expertise on one site and in patients were from the East and 179 the West of the dounty. The population aged 55 and over are much more ilikely surfer visit to support the cohorts, and the condition of skills and expertise on one site and in patients and in patients and in patients and in patients and to this question in all patients of the support of the total for all those who opposed did not supported the conditions and ill patients and in patients and to first and to first and to this question in all patients of the county of the county of the pa						Strategy Offic
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⁴ Watson R, Crump H, Imison C, Currie C and Gaskins M (2016) Emergency general surgery: challenges and opportunities. Research Report. Nuffield Trust.



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				Clarity around the pathway for a patient at CGH requiring emergency general surgery may be helpful as well as information regarding what can be provided in A&E at CGH in the new model. It may also be beneficial to discuss co-design with organisations such as age UK.
Moderate Scale Impact In this solution (including the impacts of all changes that will coocur with this solution in the overall model) it is estimated, 4349 patients in total may be subject to change, approximately 16 a day. 2535 patients would move from CGH to GRH 1814 patients would move from GRH to CGH Based on the prevalence of over 65s as a proxy, up to 42% of patients are over 65. This is disproportionately high compared to other age ranges.	and in turn will improve clinical outcomes. Patients are currently cancelled frequently due to the need for emergency beds, therefore, by separating elective and emergency there is dedicated resource reducing the number of cancellations for patients.	138 people over 65 responded to a question regarding this care model. In total for all those who responded to this question in all patient cohorts, 223 respondents were from the East and 178 the West of the county.	73% of respondents aged over 65 supported the proposal to centralise GI day case at CGH. Were respondents agreed, they supported the centralisation of specialise resources. Where respondents opposed, they did not support that the hospitals would offer different services and felt they should offer the same due to the size of the county and population size. Impact of population growth on proposals was a theme.	Overall Impact: Positive Large Positive Impact There will be dedicated unit which increases quality of care and in turn will improve clinical outcomes. By separating elective and emergency there is dedicated resource reducing the number of cancellations for patients. Moderate Negative Impact GI day case patients are generally lower acuity overall in this cohort and so are less likely to deteriorate; however, in the event a patient does deteriorate they may need to be transferred to GRH. This is potentially outweighed by the reduction in the number of patients who are required to stay overnight unplanned as a result of a late start in procedures. Patients over 65 are more likely to experience co-morbidities and other health conditions and therefore could be more vulnerable to needing transfer. It is recommended to provide examples of

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⁵ Dumic, I., Nordin, T., Jecmenica, M., Stojkovic Lalosevic, M., Milosavljevic, T., & Milovanovic, T. (2019). Gastrointestinal Tract Disorders in Older Age. *Canadian journal of gastroenterology & hepatology, 2019,* 6757524. https://doi.org/10.1155/2019/6757524



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					what the patient pathways will look like for an emergency and an elective patient so the differences are clear. Information regarding travel times and transport options across
					the County may also be beneficial for carers
					and relatives who have concerns regarding
					travel, based on respondents over 65.
					diave, based on respondents over 65.
	Moderate Scale Impact				Overall Impact: Positive
	GRH conducted 910 colorectal surgeries in Feb 19 to Jan 20. 42% were over the age of 65. This means over 65s will be disproportionately impacted by the	Long Term Impact With the increase in life expectancy comes an increase in the number of elderly people with	In total 140 people over 65 answered questions related to this care model.	49% of those over 65 think this centre of excellence should be located at CGH; please note a third had no opinion.	Large Positive Impact By centralising the service with relevant specialities quality of care will improve and there will be fewer cancellations as a result of better access. Consultation results suggest that patients
	centralisation to CGH.	colorectal diseases; as the incidence of	this care model.	Approximately half of all	over 65 with a disability would prefer the
	centralisation to con.	colorectal carcinomas increases with advancing	73% of those aged over 65	respondents in each cohort	service was centralised at CGH.
C5 - Elective colorectal to		age. The population of over 65s in Gloucestershire is increasing from a fifth to over a quarter by 2041 and therefore an increase in demand for colorectal could be seen.	support the proposal for a centre of excellence for planned colorectal surgery.	supported the proposal for the centre of excellence to be located at CGH rather than GRH.	Moderate Negative Impact The Proposed relocation to CGH may impact
CGH		By centralising elective colorectal surgery, quality of care could be improved as a result of co-location with other relevant specialities such as medical gastroenterology. There is also a reduced risk of cancellations for patients as they will have access to a ring fenced service.	In total for all those who responded to this question in all patient cohorts, 227 respondents were from the East and 176 the West of the county.	Comments largely focused on the convenience of the centre based on their own location of residence. Where respondents supported the proposal, they were supportive of the concept of a centre of excellence and felt that developing that on one site was sensible.	negatively on travel for patients who would have previously attended GRH. This may be a challenge for patients over 65 who may find travel more difficult and therefore it is important to engage with this cohort. If elective colorectal surgery is centralised to CGH then arrangements will need to be made for deteriorating patients who may need to be transferred to Gloucestershire for emergency general surgery, if centralised. This will impact on visitors and carers who may be reliant on public transport and who may have health conditions themselves.

⁶ 1. de Rijke JM, Schouten LJ, Hillen HF, Kiemeney LA, Coebergh JW, van den Brandt PA. Cancer in the very elderly Dutch population. Cancer. 2000;89:1121–1133.



				Strategy Unit
			supportive, they were concerned that hospitals should be equally resourced and the overall perception reflected that they felt a movement in resources were a reduction in resources.	It is recommended to engage with those over 65 regarding the impact of centralising services and the potential for transfer in the event of deterioration to understand how best to support visitors and carers in travelling to another site. It is also recommended to consider this cohort have concerns around the centralisation of emergency care and the separation from elective care e.g. in the case of colorectal patients. Another option may need to be considered for more high risk colorectal patients.
C6 - Elective colorectal to GRH	Moderate Scale Impact CGH conducted 584 colorectal surgeries and 49% were over 65. This means over 65s will be disproportionately impacted by the centralisation to GRH.	Evidence as listed above.	73% of those aged over 65 support the proposal for a centre of excellence for planned colorectal surgery. 19% of those over 65 felt the centre of excellence should be located at GRH. Please note, this is 25 people and 45 had no opinion (33%). A third of all respondents did not have an opinion on which site the centre of excellence was located. Comments largely focused on the convenience of the centre based on their own location of residence. Where respondents supported the proposal, they were supportive of the concept of a centre of excellence and felt that developing that on	Overall Impact: Positive Large Positive Impact Although a smaller percentage of patients are over 65 in GRH's general surgery cohort, The centralised services will improve access to the right specialists without the need to travel, however, data suggests this cohort is smaller in GRH than CGH, so more over 65s will need to travel in this proposed solution. This is outweighed by the benefit of having elective colorectal co-located with Emergency general surgery (if this is to go ahead) as then patients will not need to travel in the event of deterioration, something patients over 65 could be more vulnerable to. Moderate Negative Impact The Proposed relocation to GRH may impact negatively on travel for patients who would have previously attended CGH. This may be a challenge for patients over 65 who may find travel more difficult and therefore it is



	Strategy Unit
one site was sensible.	important to engage with this cohort.
Where respondents were not supportive, they were concerned that hospitals should be equally resourced and the overall perception reflected that they felt a movement in resources were a reduction in resources.	Consultation results suggest that patients over 65 would prefer the service was centralised at CGH. Therefore it is important to establish a clear plan describing the patient pathway in the event of an emergency if a patient were to be transferred from CGH. It is also recommended to consider this cohort have concerns around the centralisation of emergency care and the separation from elective care e.g. in the case of colorectal patients. Another option may need to be considered for more high risk colorectal patients.



4.2. Disability

Dementia, learning disabilities and physical disabilities have all been considered under this category.

Learning Disabilities: Estimated projections suggest that in 2019 there will be approximately 11,825 people aged 18+ living with a learning disability in Gloucestershire equating to 2.3% of the adult population. Of this group, about 2,400 are estimated to have moderate or severe learning disabilities, equating to 0.5% of the adult population.

Disabilities: According to the 2011 Census, 16.7% of Gloucestershire residents reported having a long term limiting health problem or disability. At a household level, 24.2% of households had at least one person with a long-term limiting health problem or disability.

Dementia: Only 12% of people with dementia have no comorbidities. 40% have 1-2 and 48% have 3 and a quarter of hospitals beds are occupied by patients with dementia over the age of 65.

Sensory Impairment: A sensory impairment is something that affects your hearing, vision or both your hearing and vision. Most people accessing support because of a sensory impairment are over 55 years and population projections suggest this will increase. They often experience multiple long term conditions which can impact on accessing health care services. Several services are on offer to sensory impaired people in the county including Gloucestershire Deaf Association who provide British Sign Language (BSL) Interpreters in our health care settings.



EQIA summary for Disability

In total for all those who responded to the consultation survey across all patient cohorts, there were more respondents from the East, approx. 230 respondents compared to the West of the county where there were approx. 175 respondents.

Model	Scale of Potential impact	Evidence of Potential Impact	Consultation Outputs	Impacts from Consultation	Nature of Potential Impact and recommendations
A3 - Centralise acute medicine to GRH	Moderate Scale Impact: 16.7% of Gloucestershire residents reported having a long term limiting health problem or disability. Approximately 11,825 people aged 18+ living with a learning disability in Gloucestershire equating to 2.3% of the adult population.	Long Term Impact People with a physical or learning disability will require increased provision and assistance to access services and are at a higher risk of requiring services, especially those with multiple long term conditions.	124 people with a disability answered questions regarding this care model.	71% of respondents supported the centralisation of acute medicine, 72% for those using the easy read. Those who agreed supported the efficiency benefits of centralising. Those who opposed had concerns regarding travel and the distance in traffic. Respondents with disabilities were concerned about limited transport options, particularly from rural areas or areas further from Gloucester.	Large Positive Impact By centralising services, patients will have reduced waiting times, fewer cancellations and less unplanned overnight stays. Timely appointments with fewer cancellations means patients can more effectively plan their travel (e.g. pick up and drop off times if they are not driving themselves). The centralisation of services will also mean quality of care and expertise will be enhanced, particularly beneficial to patients with long term conditions or co-morbidities which are prevalent in patients with disabilities. Reduced unplanned overnight stays may help to limit anxiety and unfamiliarity, particularly important for patients with a learning disability.



B2 - IGIS hub and vascular centralised to GRH
C3 - EGS centralised to GRH
C11 - GI day cases to CGH

		Strategy
124 people with a disability answered	71% support the proposal for an IGIS hub and spoke	Madayata Nagatiya Immast
questions regarding this	model, 77% for those using	Moderate Negative Impact
care model.	the easy read. Those who supported the hub model supported the avoidance of duplication, centralising specialist service provision and staff retention.	Feedback from staff and patients suggests parking can be a challenge at both sites. Therefore, by centralising services it is important to assess if there is an appropriate number of disabled parking bays to accommodate increases in demand of, for example, specific elective procedures.
	Those opposed, had concerns regarding resources spread across the county and some residents being too far away from the hub site.	The new proposed models will mean that deteriorating patients may need to be transferred depending on the site they attended and their condition. For patients with a physical or learning disability, this may mean additional support with transport arrangements on their return home as they may not drive.
	57% support vascular surgery at GRH but nearly a quarter had no opinion.	Moving sites can also be a challenge for patients with a sensory impairment who may be familiar with their local hospital site but may be required to travel to the
123 people with a disability answered questions regarding this	66% support EGS centralisation to GRH, 67% for those using the easy read	other site. Additional support may be needed to help patients navigate this change.
care model.	Those who supported, commented on planned surgery being less likely to be interrupted by emergency surgery.	High quality signposting, good quality wheelchair access and interactive information for those with sensory impairments will be necessary to help patients navigate this change. Both sites will already have facilities in place for patients with disabilities but it is important to ensure these are optimised.
	Those who opposed had concerns around parking being difficult and around coverage across the whole county.	It is recommended that those with a disability are involved in the consultation to understand their needs and perceived challenges. It is also recommended that local transport providers are engaged with to understand if there are transport options running
121 people with a disability answered questions regarding this	72% of people with a disability supported GI day case at CGH, 67% of those	between the two hospitals and frequency of these. Explore the possibility of modernising areas within sites
care model.	using the easy read, and 19% had no opinion.	if needed.
	Those who supported put	Indicate how the proposed plans with work alongside



			Strategy c
		emphasis on quality of care	community provision such as community hospitals.
		and centralising skills.	
		Those opposed had concerns	
		around CGH parking facilities	
		and accessibility.	
		79% of those with a disability	
C5 - Elective		support the proposal for a	
colorectal to CGH		centre of excellence, 73% of	
		those using the easy read.	
		47% of those with a disability	
		felt the centre of excellence	
		should be at CGH	
		21% of those with a disability	
		felt the centre of excellence	
		should be at GRH	
		Those who supported	
C6 - Elective		expressed that reducing	
colorectal to GRH		duplication was important.	
		Those who opposed had	
		concerns around centralising	
		to one site for the	
		population size the hospitals	
		serve.	
		Make better use of	
		community hospitals was	
		also a theme from feedback.	

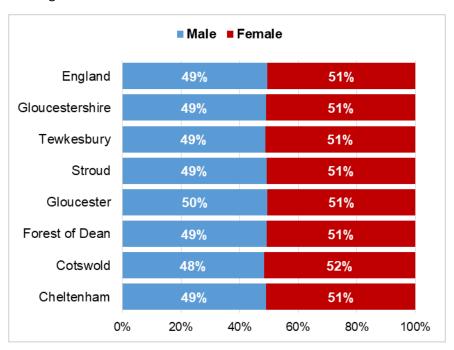


4.3. Gender

The sex of an individual, combined with additional factors such as living alone, may affect their health and social care needs. Individuals may also experience discrimination and inequalities because of their sex. A report by the European Social Survey found 24% of respondents had experienced prejudice based on their sex. Discrimination on the grounds of sex was reported by more respondents than discrimination based on ethnicity.

The overall population split by sex in Gloucestershire is slightly skewed towards females, with males making up 49.1% of the population and females accounting for 50.9%. In Gloucestershire in 2017, 52.9% of people aged 65-84 were female, whilst for people aged 85+ the difference was more marked with females accounting for 64.6% of the total population. This situation is also reflected at district, regional and national level. As a result of this, 71% of single pensioner households are shown to be headed by a woman. It is worth highlighting that women were more likely than men to be living in a household without access to a car.

Figure 1: population by proportion of males and females within the catchment area, Gloucestershire and England.





EQIA Summary for Gender

In total for all those who responded to the consultation survey across all patient cohorts, there were more respondents from the East, approx. 230 respondents compared to the West of the county where there were approx. 175 respondents. More females answered the survey, approx. 260 females and 180 males.

Model	Scale of Potential impact	Evidence of Potential Impact	Consultation Outputs	Impacts from Consultation	Nature of Potential Impact and recommendations
A3 - Centralise acute medicine to GRH		Long Term Impact It is difficult to determine the driver behind why more females are treated in acute medicine in CGH, however, it could be because although there is a gynaecology department in CGH, Obstetrics is in Women's and Children in GRH. Therefore this demand could be skewed by females of pregnancy age. Pregnant women can present to any acute hospital service at any time during their pregnancy or the postpartum period, which is up to 12 months post-delivery. Women may	262 females and 182 males answered questions in relation to this care model.	73% of females and 72% of males support centralised acute medicine at GRH. Those who supported saw benefits in centralising and improvements in quality of care. Those opposed at concerns around increasing travel times for unwell patients and felt there should be two acute medical sites at both locations. There were also comments regarding how GRH would accommodate the additional acute medical	Overall Impact: Positive Large Positive Impact It is evident that males are disproportionately impacted in some cohorts and females in others, however, the centralisation of services and the separation of elective and emergency where possible in these proposed changes will improve quality of care, create opportunities for enhanced training and understanding of patient's conditions as a result of co-located specialities and therefore improve clinical outcomes for patients. Small Negative Impact It is possible that males could be disproportionately impacted if vascular was to remain at CGH and IGIS to
		present with acute medical problems that need to be managed differently because of pregnancy, or may present with obstetric syndromes ⁷ .		the additional acute medical demand.	impacted if vascular was to remain at CGH and IGIS to centralise at GRH as 69% of interventional cardiology patients were male. This could mean that is a patient needs to be moved to the vascular hub at CGH from GRH evidence suggests they are more likely to be

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⁷ https://www.rcplondon.ac.uk/guidelines-policy/acute-care-toolkit-15-managing-acute-medical-problems-pregnancy



B2 - IGIS hub and vascular centralised to GRH	Moderate Scale Impact There were 1,855 Interventional cardiology procedures and 944 vascular surgeries at CGH between Feb 19 and Jan 20. 69% of interventional cardiology patients were male and vascular was	It is estimated that around 1.4 million people in the UK have survived a heart attack, approx.1 million men and 380,000 women. There are currently 2.3 million people living with Coronary heart disease in the UK, 1.5 million are men ⁸ . Therefore males may be disproportionately impacted by changes to cardiology and vascular services.	257 females and 184 males answered questions in relation to this care model.	70% of females and 70% of males supported a hub and spoke model for IGIS where IGIS is at GRH and the spoke at CGH. Those in support felt the rational was clear and understood the need to centralise expressive equipment and resources. Those who opposed had concerns around patient safety if patients who are very unwell need to be transferred to the other site. They also felt this should be offered at both sites. 66% of females and 60% of	male; however, this is likely to be less than 1 patient per day and the clinical outcomes are likely to outweigh this. It is recommended that a clear outline of how patients will be transferred in emergencies for each pathway are completed so patients can understand what will happen and ensure all the appropriate safety measures are in place. It must also be helpful to consider repatriation options for patients transferred, if not already doing so.	
	•	It is estimated that around 1.4 million		· ·	· · · · ·	
		people in the UK have survived a heart		Those who opposed had		
	· · ·	attack, approx.1 million men and		concerns around patient		
				· ·		
	•			•		
	20. 69% of					
GKH	interventional			· ·		
	0, ,			offered at both sites.		
		<i>o</i> ,		66% of females and 60% of		
	only marginally more			males support vascular		
	male.			surgery at GRH.		
				Comments from some		
				respondents question if more services are being		
				centralised to GRH		
				compared to CGH and		
				question how this model		
				works with hospital care in		
				Oxford.		

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⁸ https://www.bhf.org.uk/what-we-do/our-research/heart-statistics



	Moderate Scale Impact	Long Term Impact	260 females and 181 males	73% of females and 70% of
			responded to questions	males support the
	General surgery activity	There is no evidence to suggest that	regarding this care model.	centralisation of EGS to GRH.
	data states that	males or females are more likely to use		
	approximately 54% of	EGS services in GRH. The overall		Those who support this,
	patients seen at GRH are	population of general surgery patients		commented on the need
	female and 52% at CGH.	are 52% female, however, there is no		have single site if this
	Using general surgery	evidence to suggest females are more		improves care quality and
	activity as a proxy, this	likely to receive emergency general		safety. There was also
	could suggest females	surgery.		support if this reduces
C3 - EGS	may be slightly			waiting times and
centralised to	disproportionately			cancellations for planned
GRH	impacted by this,			surgery.
0	however, the difference			
	in gender is very small.			Those opposed have
				concerns regarding the time
				it would take to transfer a
				patient in an emergency due
				to the size of the county.
				Comments also reflected
				concerns around how
				patients get home following
				discharge if they live near Cheltenham.
	Moderate Scale Impact	Medium Term Impact	256 females and 181 males	79% of females and 75% of
	Woderate Scale Impact	Wedium Term impact	responded to questions	males support GI day case to
	In this solution	There is no evidence to suggest that	regarding this care model.	CGH.
	(including the impacts of	males or females are more likely to use	regarding this care model.	con.
	all changes that will co-	EGS services in GRH. The overall		Those who support
	occur with this solution	population of general surgery patients		commented on day case
	in the overall model) it is	are 52% female, however, there is no		beds being ring-fenced,
C11 - GI day	estimated, 4349	evidence to suggest females are more		resulting in fewer
cases to CGH	patients in total may be	likely to receive emergency general		cancellations.
	subject to change,	surgery. Evidence does suggest,		
	approximately 16 a day.	however, that, as compared to men		Those opposed, commented
	2535 patients would	with IBS, women with IBS are more		on the need for day case to
	move from CGH to GRH	likely to report additional functional		be available at both sites to
	1814 patients would	gastrointestinal (GI) conditions		save patients travelling.
	move from GRH to CGH.	including globus, dysphagia, bloating,		



	Using general surgery as a proxy we know that 54% of patients at GRH who would attend CGH in the proposed change are female. Suggesting females could be disproportionately impacted by this.	constipation, fecal incontinence and pelvic floor dysfunction ⁹ . This could suggest women may be more likely to report concerns and seek treatment.		
C5 - Elective colorectal to CGH	Moderate Scale Impact GRH conducted 910 colorectal surgeries in Feb 19 to Jan 20. There were slightly more males than females in this patient cohort (51%) but very marginal.	Evidence suggests differences in gender across colorectal cancer. The overall incidence is higher in men, with an earlier age distribution, however, important sex differences exist in anatomical site. There were relatively small differences in screening uptake, route to diagnosis, cancer staging at diagnosis. Women are more likely to present as emergency cases, with more men diagnosed through screening and two-week-wait ¹⁰ .	253 females and 182 males responded to questions regarding this care model.	83% of females and 81% of males support elective colorectal being centralised. Those in support commented elective pathways not being disturbed by emergency pathways through things like cancellations. Some respondents commented on whether there still needs to be some
C6 - Elective colorectal to GRH	Moderate Scale Impact CGH conducted 584 colorectal surgeries. 53% of this patient cohort were male.	Evidence same as above		emergency capacity at both sites. 52% of females and 48% of males support this at CGH. Please note over a quarter of females and a third of males did not have an opinion.

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⁹ Cain et al (2009) Gender Differences in Gastrointestinal, Psychological, and Somatic Symptoms in Irritable Bowel Syndrome, Dig Dis Sci, 54(7) 1542–1549.

White, A., Ironmonger, L., Steele, R.J.C. et al. A review of sex-related differences in colorectal cancer incidence, screening uptake, routes to diagnosis, cancer stage and survival in the UK. BMC Cancer 18, 906 (2018). https://doi.org/10.1186/s12885-018-4786-7



4.4. Pregnancy

The Equality Act protects women who are pregnant, have given birth in the last 26 weeks (non-work context) or are on maternity leave (work context) against discrimination in relation to their pregnancy.

There were 6,739 live births in Gloucestershire in 2016. Table 2 shows the age of mothers at the delivery of their baby in five year age bands), the highest proportion of deliveries were to women aged 30 to 34 continuing the trend of later motherhood. Births to mothers aged 25-29 and 30-34 account for a slightly higher proportion of total births in Gloucestershire than they do nationally, whilst those to mothers aged under 25 account for a slightly lower proportion.

At district level, Gloucester and the Forest of Dean have a higher proportion of births to mothers aged under 20 (4.0% and 3.6% respectively) than Gloucestershire and England. Cheltenham, Cotswold and Stroud have a higher proportion of births to mothers aged 35+ than Gloucestershire and England.

Table 2: % of births by age of mother

	Total number of	% of total births by age of mother						
	live births		20-24	25-29	30-34	35-39	40-44	45+
Cheltenham	1,328	2.0	10.6	24.4	36.3	21.5	5.1	0.2
Cotswold	730	1.5	10.5	25.2	34.2	22.6	5.3	0.5
Forest of Dean	844	3.6	15.8	32.5	29.5	15.2	3.3	0.2
Gloucester	1,768	4.0	16.2	31.6	31.6	13.7	2.7	0.3
Stroud	1,094	1.9	10.3	28.6	34.3	19.7	4.8	0.3
Tewkesbury	975	1.9	11.7	31.4	33.8	17.5	3.5	0.1
Gloucestershire	6,739	2.6	12.8	29.1	33.3	17.9	4.0	0.3
England	663,157	3.2	14.6	28.0	31.8	18.1	4.0	0.3



EQIA Summary for Pregnancy

In total for all those who responded to the consultation survey across all patient cohorts, there were more respondents from the East, approx. 230 respondents compared to the West of the county where there were approx. 175 respondents.

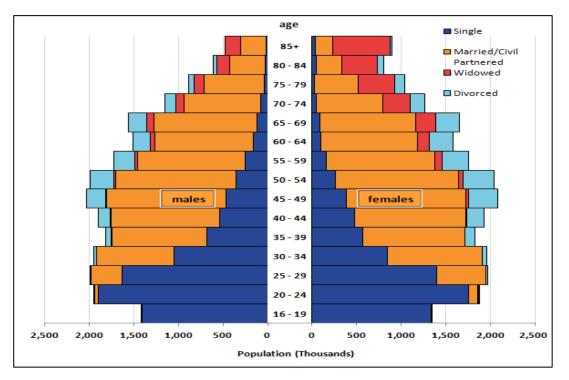
Model	Scale of Potential impact	Evidence of Potential Impact	Consultation Outputs	Impacts from Consultation	Nature of Potential Impact and recommendations
A3 - Centralise acute medicine to GRH	Moderate Scale Impact There were 6,739 live births in Gloucestershire in 2016; Gloucester and the Forest of Dean have a higher proportion of births to mothers aged	There is currently limited data to determine any impact of the changes for women during pregnancy.	There is nothing in the consultation document to suggest significant concerns from those pregnant or regarding pregnancy in relation to these models of care.	There is nothing in the consultation document to suggest significant concerns from those pregnant or regarding pregnancy in relation to these models of care.	Proposed changes to services are expected to maintain current inclusive support service approach. It is recommended to engage
B2 - IGIS hub and vascular centralised to GRH C3 - EGS centralised to GRH C11 - GI day cases to CGH C5 - Elective colorectal to CGH	under 20 (4.0% and 3.6% respectively) than Gloucestershire and England. Cheltenham, Cotswold and Stroud have a higher proportion of births to mothers aged 35+ than Gloucestershire and England.				with a representative distribution of the population, to include those pregnant or new parents.
C6 - Elective colorectal to GRH					



4.5. Marital status

According to the latest data from the ONS, the majority (50.6%) of the population in England and Wales aged 16 and over in 2015 were married and this is similar in Gloucestershire. The next largest group within the population were single, never married or civil partnered (34.5%). The population who were divorced or widowed made up a smaller proportion of the total population at 8.1% and 6.5% respectively. The smallest group within the population were those who were civil partnered, making up 0.2% of the population aged 16 and over in 2015.

Figure 2: Population Estimates (aged 16 and over) by marital status, age group and sex, 2015





EQIA Summary for Marital Status

In total for all those who responded to the consultation survey across all patient cohorts, there were more respondents from the East, approx. 230 respondents compared to the West of the county where there were approx. 175 respondents.

Model	Scale of Potential impact	Evidence of Potential Impact	Consultation Outputs	Impacts from Consultation	Nature of Potential Impact and recommendations
A3 - Centralise acute medicine to GRH	Moderate scale Impact As part of the centralisation of acute medicine there will likely be an increase at GRH from CGH. There were 7,415 admissions between Feb 19 and Jan 20 for acute medicine at CGH. 46% of acute medicine patients are married, 16% single and 9% widowed. A large number not stated	There is currently limited data to ascertain any impact of the changes for those who are from any particular marital status.	There is no significant evidence from consultation feedback to suggest this patient cohort is significantly impacted.	There is no significant evidence from consultation feedback to suggest this patient cohort is significantly impacted.	Proposed changes to services are expected to maintain current inclusive support service approach. It is recommended to engage with a representative distribution of the population to include those who are married, divorced, widowed, single and separated.
B2 - IGIS hub and vascular centralised to GRH	Moderate scale Impact There were 1,855 Interventional cardiology procedures and 944 vascular surgeries at CGH between Feb 19 and Jan 20. 49% of interventional cardiology patients and 45% of vascular patients at CGH are married.				



C3 - EGS centralised to GRH	Moderate Impact: General surgery activity data states that approximately 36% of patients seen at GRH are married compared to 44% at CGH. Using general surgery activity as a proxy, this suggests patients are most likely to be married.
C11 - GI day cases to CGH	Moderate Impact: In this solution (including the impacts of all changes that will cooccur with this solution in the overall model) it is estimated, 4349 patients in total may be subject to change, approximately 16 a day. 2535 patients would move from CGH to GRH 1814 patients would move from GRH to CGH Using general surgery as a proxy we know that 36% of patients at GRH who would attend CGH in the proposed change are married.
C5 - Elective colorectal to CGH	Moderate scale Impact: GRH conducted 910 colorectal surgeries in Feb 19 to Jan 20. 39% of patients were married at GRH.

	Strategy Unit		



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CC Floring	Moderate Impact:			
C6 - Elective colorectal to GRH	CGH conducted 584 colorectal surgeries and 43% of patients at CGH were married			



4.6. Ethnicity

The prevalence of ethnic minorities in Gloucestershire is lower than national averages at 4.6% of the population from Black and Minority Ethnic (BME) backgrounds; this figure increased to 8.4% when the Irish, Gypsy or Irish Traveller and 'other White' categories were included¹¹.

Based on data, from the Gloucestershire county council population profile, amongst people aged 65 and over, 58.5% of Asian/Asian British people and 56.7% of Black African/Caribbean/Black British people had a long-term health problem/disability compared with 48.9% of White British people. Amongst the Gloucestershire population of all ages, people of Gypsy or Irish Traveller origin were much more likely to be in poor health than other ethnic groups (15.9% of Gypsy/Irish Travellers compared with 4.6% of White British people).

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¹¹ https://inform.gloucestershire.gov.uk/media/2087689/equality-profile-2019-final.pdf



EQIA Summary for Ethnicity

In total for all those who responded to the consultation survey across all patient cohorts, there were more respondents from the East, approx. 230 respondents compared to the West of the county where there were approx. 175 respondents.

Model	Scale of Potential impact	Evidence of Potential Impact	Consultation Outputs	Impacts from Consultation	Nature of Potential Impact and recommendations
A3 - Centralise acute medicine to GRH	Large Scale Impact As part of the centralisation of acute medicine there will likely be an increase at GRH from CGH. There were 7,415 admissions between Feb 19 and Jan 20 for acute medicine at CGH. 4% were BME	In Gloucestershire amongst people aged 65 and over, 58.5% of Asian/Asian British people and 56.7% of Black African/Caribbean/Black British people had a long-term health problem/disability compared with 48.9% of White British people.	39 people who are BAME responded to questions regarding this care model.	82% of BAME respondents supported the centralisation of acute medicine to GRH. Respondents questioned if this would increase demand at GRH and how GRH would accommodate this demand. Those in support, commented ton reduced waiting times and quality of care offered. Those opposed had concerns regarding the A&E capability at CGH if acute medicine were to be at GRH.	Large Positive Impact Centralised services ensure the best quality care is made available to patients and will benefit patients with complex or long term needs, which correlates with some BME patient cohorts. The co-location of relevant specialist services improves training and enhanced understanding of patient conditions, leading to better clinical outcomes and improving access to services with fewer cancellations. Small Negative Impact Some patient cohorts are disproportionately from BME communities such as vascular patients. Therefore, changes to the vascular hub will impact on this



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B2 - IGIS hub and vascular centralised to GRH	Moderate Scale Impact There were 1,855 Interventional cardiology procedures and 944 vascular surgeries at CGH between Feb 19 and Jan 20. 4% of cardiology patients and 5% of vascular patients at CGH are BME. This is disproportionately higher than the overall BME population of Gloucestershire at 4.6% BME.	Research suggests South Asians are more likely to develop coronary heart disease than white Europeans. Those who are African or African Caribbean are at higher risk of developing high blood pressure and having a stroke than other ethnic groups and all are more likely to develop diabetes than the rest of the population ¹² . Therefore, BME patients are likely to be impacted by this proposed change.	38 people who are BAME responded to questions regarding this care model.	74% of BAME respondents supported the proposal for an IGIS Hub and spoke model with the spoke at CGH. Some respondents commented on the risks related to transferring patients between sites. 75% of BAME respondents support vascular surgery at GRH.	cohort, particularly if this results in further travel or the possibility of requiring a transfer from one site to another, however, this is only in a very small number of circumstances. It is recommend that information regarding travel times and repatriation between sites is made clear to help residents and patients understand more about the transfer process and how frequently transfers are to happen. Having patient representatives as an integral part of the co-design of services is crucial to ensure there is wide representation from those with the conditions that are being impacted. Particularly considering that for some of the conditions being impacted, there are disproportionate
C3 - EGS centralised to GRH	Moderate Scale Impact: General surgery activity data states that approximately 8% of patients seen at GRH are BME compared to 6% at CGH. Using general surgery activity as a proxy, this suggests BME patients are disproportionately impacted.		responded to questions egarding this care nodel. Those in supp the proposal and commen benefits of rewaiting times cancellations. Those opposes	85% of BAME respondents support the centralisation of EGS. Those in support thought the proposal was clear and commented on the benefits of reduced waiting times and less cancellations. Those opposed, commented on the	numbers of BAME patients.

¹² https://www.bhf.org.uk/informationsupport/risk-factors/ethnicity



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		 		Strategy U
			increased demand to GRH and the risks associated with transferring patients between sites.	Strategy C
C11 - GI day cases to CGH	In this solution (including the impacts of all changes that will co-occur with this solution in the overall model) it is estimated, 4349 patients in total may be subject to change, approximately 16 a day. 2535 patients would move from CGH to GRH 1814 patients would move from GRH to CGH.	37 people who are BAME responded to questions regarding this care model.	78% of BAME respondents supported day case GI at CGH. Some respondents commented if all GI should stay together, others commented that separating emergency and elective has benefits.	
	Using general surgery as a proxy we know that 8% of patients at GRH who would attend CGH in the proposed change are BME. This suggests BME patients are disproportionately impacted.			



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C5 - Elective colorectal to CGH	Moderate Scale Impact: GRH conducted 910 colorectal surgeries in Feb 19 to Jan 20. 4% were BAME patients.		85% of those who are BAME support the proposal for a centre of excellence 43% of BAME respondents felt the centre of excellence should be at CGH	
C6 - Elective colorectal to GRH	Moderate Scale Impact: CGH conducted 584 colorectal surgeries in Feb 19 to Jan 20. 5.6% were BAME patients. This is disproportionately high compared to the population of BAME which is 4.6%.	36 respondents who are BAME responded to questions regarding this care model.	24% of BAME respondents felt the centre of excellence should be at GRH Please note 11% had no opinion. Those in support commented on the clear rational for centralising services. Those opposed, commented on the need for specialist services at both sites.	



4.7. Sexual orientation

People who are lesbian, gay or bisexual (LGB) are more likely to have experienced depression or anxiety, attempted suicide or had suicidal thoughts and self-harmed than men and women in general¹³. LGB population aged over 55 are more likely than heterosexual people over 55 to live alone and are more likely than heterosexual people to say that they expect to rely on health and social care providers as they get older.¹⁴ The prevalence of the LGB population in Gloucestershire is estimated to be around 5% - 7%¹⁵.

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Stonewall, 2011, Lesbian, Gay and Bisexual People in Later Life. www.stonewall.org.uk/sites/default/files/LGB_people_in_Later_Life__2011_.pdf Accessed 18/12/201

¹³ Stonewall, 2015, Mental Health, Stonewall health briefing http://www.stonewall.org.uk/sites/default/files/Mental Health Stonewall Health Briefing 2012 .pdf Accessed 18/12/2017

 $^{^{15}\} https://inform.gloucestershire.gov.uk/media/2087689/equality-profile-2019-final.pdf$



EQIA Summary for sexual Orientation

In total for all those who responded to the consultation survey across all patient cohorts, there were more respondents from the East, approx. 230 respondents compared to the West of the county where there were approx. 175 respondents.

Model	Scale of Potential impact	Evidence of Potential Impact	Consultation Outputs	Impacts from Consultation	Nature of Potential Impact and recommendations
A3 - Centralise acute medicine to GRH	Small- Moderate Scale Impact The LGBTQ+ community is estimated to form 5% - 7% of the	According to the Stonewall survey, 13% of LGBTQ+ people have experienced some	19 respondents who are LGBT+ responded to questions regarding this care model.	58% of LGBT+ respondents supported the centralisation of acute medicine Some respondents commented on concerns regarding the distance for those living further from Gloucester, others	
B2 - IGIS hub and vascular centralised to GRH	Gloucestershire population.	form of unequal treatment from healthcare staff because they are LGBTQ+ and 23% have witnessed it. This includes 32% of	18 respondents who are LGBT+ responded to questions regarding this care model.	55% of LGBT+ respondents supported an IGIS hub and spoke model with CGH as the spoke. However, 39% had no opinion. 78% supported vascular surgery at GRH.	Overall Impact: Neutral Proposed changes to services are expected to maintain inclusive support service approach. It is recommended to ensure
C3 - EGS centralised to GRH		trans people and 24% of Asian LGBTQ+ people who have experienced unequal treatment.	19 respondents who are LGBT+ responded to questions regarding this care model.	74% of LGBT+ respondents supported EGS centralised to GRH. Some respondents commented they felt CGH still needed to have adequate emergency care.	LGBTQ+ communities are included in the consultation and are able to feed back the views as changes to health care settings c be challenging to patients who may alread feel healthcare is unequal (as shown in the Stonewall survey).
C11 - GI day cases to CGH			18 respondents who are LGBT+ responded to questions regarding this care model.	78% of LGBT+ respondents support GI day case at CGH.	
C5 - Elective colorectal to CGH C6 - Elective colorectal to GRH			19 respondents who are LGBT+ responded to questions regarding this care model.	84% of LGBT+ respondents supported the centralisation of elective colorectal. 58% felt this should be CGH and 26% had no opinion.	

4.8. Religion

According to the 2011 Census, 63.5% of residents in Gloucestershire were Christian, making it the most common religion. This was followed by no religion which accounts for 26.7% of the total population.

Gloucestershire has a higher proportion of people who are Christian, have no religion or have not stated a religion than the national figures. In contrast it has a lower proportion of people who follow a religion other than Christianity, which reflects the ethnic composition of the county.

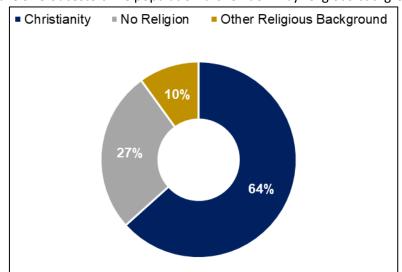


Figure 3: Gloucestershire population broken down by religious background

At district level:

- Cheltenham had the lowest proportion of people who are Christian at 58.7% of the total population; this was lower than the county and marginally lower than the national figure.
- Cotswold had the highest proportion of people who follow Christianity.
- Cheltenham had the highest proportion of Buddhists, Hindus and people who have no religion.
- At 3.2% of the total population Gloucester had the highest proportion of Muslims.
- Stroud had the highest proportion of people who follow an "Other Religion" and of people who did not state their religion.



EQIA Summary for Religion

In total for all those who responded to the consultation survey across all patient cohorts, there were more respondents from the East, approx. 230 respondents compared to the West of the county where there were approx. 175 respondents.

Model	Scale of Potential impact	Evidence of Potential Impact	Consultation Outputs	Impacts from Consultation	Nature of Potential Impact and recommendations
A3 - Centralise acute medicine to GRH	Small Scale Impact As part of the centralisation of acute medicine there will likely be an increase at GRH from CGH. There were 7,415 admissions between Feb 19 and Jan 20 for acute medicine at CGH. 60%cute medicine patients were Christian and 7% have no religion.	Approximately 64% of the Gloucestershire population are from a Christian background and almost 27% have no religion. Only estimated 10% of the population has other religious backgrounds.	There is no significant evidence from consultation feedback to suggest this patient cohort is significantly impacted.	There is no significant evidence from consultation feedback to suggest this patient cohort is significantly impacted.	Overall Impact: Neutral It is important to ensure an evenly represented group feedback through the consultation, meaning that religions are represented when feeding back views. Many patients did not state their religion and so it is difficult to know how different religions are impacted which is why it is important to ensure the consultation continues feedback from all religions. As an
B2 - IGIS hub and vascular centralised to GRH	Small Scale Impact There were 1,855 Interventional cardiology procedures and 944 vascular surgeries at CGH between Feb 19 and Jan 20. 48% of interventional cardiology patients and 33% of vascular patients at CGH are Christian. 0.7% are Muslim and a large proportion did not state their religion.				captures feedback from all religions. As an example some patients will want reassurance that they can request the gender of their doctor for religious reasons



	1	,	Strategy Un
C3 - EGS centralised to GRH	Small Scale Impact General surgery activity data states that approximately 45% of patients seen at GRH are Christian compared to 53% at CGH. 0.4% of patients are CGH were Hindu and a further 0.4% Muslim.		
C11 - GI day cases to CGH	Small Scale Impact In this solution (including the impacts of all changes that will cooccur with this solution in the overall model) it is estimated, 4349 patients in total may be subject to change, approximately 16 a day. 2535 patients would move from CGH to GRH 1814 patients would move from GRH to CGH Using general surgery as a proxy we know that 45% of patients at GRH who would attend CGH in the proposed change are Christian and 1% are Muslim.		
C5 - Elective colorectal to CGH	Small Scale Impact GRH conducted 910 colorectal surgeries in Feb 19 to Jan 20. 42% of patients were Christian, the large majority remaining stated they had no religion or did not state their religion.		





4.9. Gender reassignment

The Equality Act 2010 protects transgender people. It is therefore important this is clearly understood and followed within the organisation, for both patients and staff who are transgender.

Transgender people are more likely to report mental health conditions and to attempt suicide than the general population¹⁶. Transgender people encounter significant difficulties in accessing and using health and social services¹⁷. Numbers of people identifying as transgender across the county is increasing with current estimates at 0.6% people aged 16 and over¹⁸.

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¹⁶ House of Commons Women and Equalities Committee, 2016, Transgender Equality . www.publications.parliament.uk/pa/cm201516/cmselect/cmwomeq/390/390.pdf Accessed 24/01/2019

www.publications.parliament.uk/pa/cm201516/cmselect/cmwomeq/390/390.pdf Accessed 24/01/2019 The Stonewall (2015) Unhealthy Attitudes www.stonewall.org.uk/sites/default/files/unhealthy_attitudes.pdf Accessed 24/01/2019

¹⁸ https://inform.gloucestershire.gov.uk/media/2087689/equality-profile-2019-final.pdf



EQIA Summary for Gender Re-assignment

In total for all those who responded to the consultation survey across all patient cohorts, there were more respondents from the East, approx. 230 respondents compared to the West of the county where there were approx. 175 respondents.

Model	Scale of Potential impact	Evidence of Potential Impact	Consultation Outputs	Impacts from Consultation	Nature of Potential Impact and recommendations
A3 - Centralise acute medicine to GRH	Small Scale Impact The estimated prevalence of gender re-assignment is 0.6% in Gloucestershire.	There is limited evidence regarding the impact to those who have undergone gender reassignment, however, impacts may mirror those of sexual orientation (see above)	There is no significant evidence from consultation feedback to suggest this patient cohort is significantly impacted.	There is no significant evidence from consultation feedback to suggest this patient cohort is significantly impacted.	Overall Impact: Neutral Proposed changes to services are expected to maintain inclusive support service approach. It is recommended to ensure transgended people are included in the
B2 - IGIS hub and vascular centralised to GRH					consultation
C3 - EGS centralised to GRH					
C11 - GI day cases to CGH					
C5 - Elective colorectal to CGH C6 - Elective colorectal to GRH					



5. Health Inequalities Impact Assessment

5.1. Key Findings

Consultation Feedback

Travel was identified as concern, particularly for carers. Respondents were concerned about the travel times to the hospital sites from where they live and traffic across the county. Feedback also identified concerns regarding the travel between sites and if public transport is sufficient. Some respondents mentioned if technology could be utilised to deliver virtual appointments, avoiding travel.

Subsidised Transport could be explored as many respondents fed back on the cost of transport between hospital sites and home.

Request to increase **Homeless Outreach**, particularly in Cheltenham. Feedback from the Homelessness Forum and Housing and Support Forum identified that those who are homeless or rough sleeping do not tend to travel outside of their immediate area and so travelling further for medical care may be difficult.

Many respondents commented that centralising services would support **staff retention** and encourage recruitment.

Potential Positive impacts

25% of Gloucester city's population are living in deprived areas, approx. 32,000 people. Therefore centralising emergency general surgery, acute medicine and IGIS to GRH provides improved access to the right specialists to manage the care of this higher risk community. Deprivation is linked to comorbidities and poorer health outcomes, therefore, centralising services to form different hubs with co-located specialities across both sites with enhanced quality of care and reduced waiting times will benefit all those living in deprivation across the County.

The centralisation of services will provide more comprehensive and co-located specialised care, which could be beneficial for carers who are caring for someone with multiple conditions. Centralisation also means services will be ring fenced, ensuring fewer cancellations, reduced waiting times and improved clinical outcomes, resulting in improved self-care. These benefits will help to support carers to reduce their time attending hospital with the person they are caring for and improve the health outcomes of both the person they are caring for and, in turn, potentially their own health.

There are 79 people registered with Gloucestershire's homeless healthcare team and it has been identified this cohort are significantly most likely to use A&E and community care services and evidence suggests those who are homeless are more likely to have multiple health conditions. Given rates of homelessness are slightly higher in Gloucester than surrounding areas; centralising emergency general surgery to GRH provides improved access to the right specialists to manage the care of homeless people who present with multiple conditions.

There is a strong association between physical health and mental health. People with long-term conditions, such as diabetes or cardiovascular disease, have significantly raised rates of depression,



anxiety and other mental health problems. Evidence suggests they receive poorer quality care than those with a single condition.¹⁹ Therefore by centralising services patients with comorbidities could receive a better quality of specialist care. In Particular, emergency services where the majority of patients with mental health conditions are already attending as 1.2% of all A&E attendances last year were for mental health conditions, the large majority attending GRH A&E.

Potential Negative Impacts

Carers and unpaid carers are likely to experience the clinical benefits of better quality of care for the patient, shorter waiting times and specialist services working in a mutli-disciplinary approach which could help to reduce their number of hospital visits. It is possible, however, in some instances a carer may need to attend both sites based on the proposed changes (although unlikely), or in the event the patient deteriorates, they may need to transfer to Gloucestershire Royal for emergency surgery if they are currently at CGH. These events have been estimated to happen for less than 1 patient a day, meaning that, the benefits outweigh the risks for carers.

Enhanced clinical outcomes outweigh the negative impacts of travel for the majority of cohorts, however, it is important to consider the possible impact of additional cost in travel for some either through fuel costs or public transport fares for all patients, but particularly considering those in low income households. It is important to consider that this is outweighed by enhanced clinical outcomes as centralising services will likely reduce waiting times and therefore parking fees and in all the proposed solutions, over half of all patients impacted will see a neutral impact in travel (a change +/-20 mins).

Evidence Based Recommendations

- 1. It is recommended a review of public transport is conducted to understand if there are limitations, to disseminate information regarding travel to patients to make journey planning easier and ensure patients and carers are aware of what services are available.
- 2. It is recommended to conduct a review of transport options, including subsidised options for transport which can be disseminated to patients ensuring they are aware of all the options they can access.
- 3. Explore if increasing outreach services for those who are Homeless is needed and would be beneficial.
- 4. It is recommended to explore what could be moved to virtual appointment where possible to reduce the need for patients and carers to travel for outpatient appointments.

¹⁹ https://www.kingsfund.org.uk/projects/mental-health-and-long-term-conditions-cost-co-morbidity



6. HIIA analysis

6.1. Deprivation

In general, Gloucestershire is not a very deprived county; looking at the 151 upper-tier authorities, Gloucestershire has a rank of 126, putting it in the least deprived quintile for overall deprivation. An average IMD rank for each of the six districts in Gloucestershire shows that even the most deprived district (Gloucester City) falls in the middle quintile (middle 20%) for deprivation out of 326 English authorities. Tewkesbury, Cotswold, and Stroud districts are in the least deprived quintile, with Cheltenham in the second least deprived quintile. However there are pockets of deprivation and 13 areas of Gloucestershire are in the most deprived 10% nationally. These 13 areas account for 20,946 people (3.4% of the county population). Comparison of data between 2015 and 2019 indicates that there have been minimal changes to the increase/ decrease in levels of deprivation in the county²⁰.

Figure 17 shows that Gloucester City has the highest proportion of population living in the most deprived quintile at around 25% and this is 2.5 times higher than the equivalent proportion for Cheltenham (10%).

Deprivation: Inequality in life expectancy

According to the latest available data, men who reside in the least deprived IMD quintile in Gloucestershire live 8.4 years longer on average compared to those who live in the most deprived areas; this is statistically similar to the regional average of 7.4 years but significantly better than the national average of 9.5 years (see Figure 18)²¹.

The inequality in life expectancy among females also showed a similar trend with women living in the least deprived quintiles of Gloucestershire living 5.4 years longer on average than their counterparts living in the most deprived areas; this was significantly better than the national average but similar to the regional rates (see Figure 22).

https://inform.gloucestershire.gov.uk/media/2094524/gloucestershire_deprivation_2019_v13.pdf

²¹ https://fingertips.phe.org.uk/search/life%20expectancy#page/0/gid/1/pat/6/par/E12000009/ati/102/are/E1 0000013



Figure 16: Overall Index of Multiple Deprivation 2019 Map of Gloucestershire by IMD 2019 Quintile²².

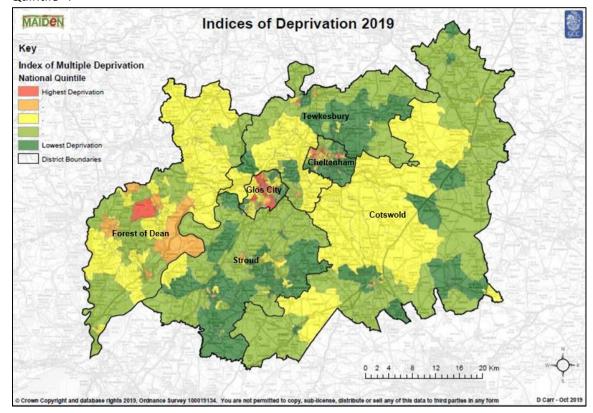
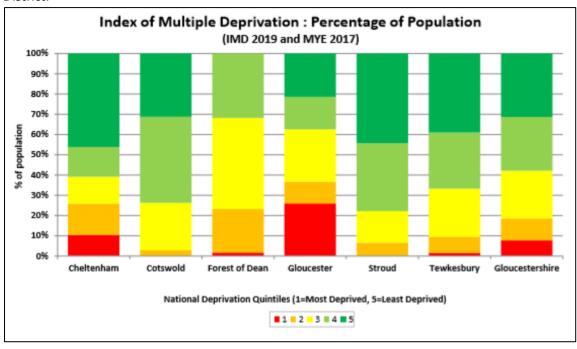


Figure 17: Overall Index of Multiple Deprivation 2019 – Percentage of Population by Quintile and District.



²² https://inform.gloucestershire.gov.uk/media/2094524/gloucestershire_deprivation_2019_v13.pdf



Figure 21: Graph showing number of years of inequality in life expectancy among males living in the most deprived and least deprived IMD quintiles; 2016-2018²³

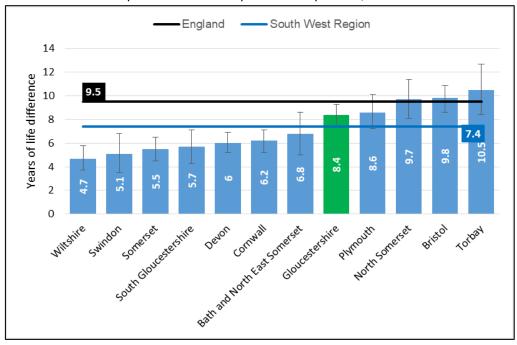
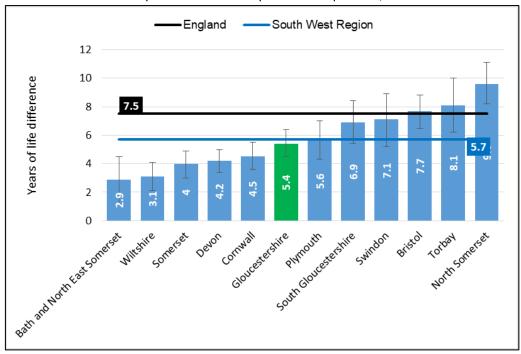


Figure 22: Graph showing number of years of inequality in life expectancy among females living in the most deprived and least deprived IMD quintiles; 2016-2018



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HIIA summary for Deprivation

In total for all those who responded to the consultation survey across all patient cohorts, there were more respondents from the East, approx. 230 respondents compared to the West of the county where there were approx. 175 respondents.

Proposed Change	Scale of Potential impact	Evidence of Potential Impact	Consultation Outputs	Impact based on consultation	Nature of potential impact and recommendations
A3, B2, C3 and C6 Centralise/move various services to GRH	Approximately 7.7% of the Gloucestershire population live within the most deprived IMD quintile which equates to just over 48,000 people being potentially impacted. At a district level, Gloucester city has the highest proportion of its population living in the most deprived areas (25%) equating to approximately 32,500 people; this is followed by Cheltenham (11,700), Forest of Dean (2,600) and Tewkesbury (1,800). None of the areas within Stroud nor Cotswold fall under the most deprived quintile. Overall, an estimated 72% of the population living in the most deprived areas appear to live closer to GRH (based on district level map information) and this equates to around 35,000 people.	Long Term Impact The lack of affordability for private vehicles in low-income households, combined with limited public transport services in many peripheral social housing estates, considerably exacerbates the problem (of inequalities to healthcare) in many parts of the UK ²⁴ People in the most deprived areas in England can expect to have two or more health conditions at 61 years, which is 10 years earlier than people in the least deprived areas, according to research carried out by the Health Foundation ²⁵ The more deprived areas in both England and Wales experienced a higher number of deaths from leading causes such as heart diseases, chronic respiratory diseases and lung cancer than less deprived areas ²⁶	128 people in the 12 most deprived wards responded to questions regarding these care models.	64% of those living in the 12 most deprived wards supported the centralisation of acute medicine at GRH 68% of those living in the 12 most deprived wards supported EGS at GRH. 80% of those living in the 12 most deprived wards supported centralisation of elective colorectal. 55% thought this should be at CGH. 78% of those living in the 12 most deprived wards supported GI day case at CGH. 63% of those living in the 12 most deprived wards supported GI day case at CGH. 63% of those living in the 12 most deprived wards supported an IGIS hub and spoke model with CGH being the spoke. 60% also supported vascular surgery at GRH and just under a quarter had no opinion.	Overall Impact: Positive Large Positive Impact Given that around 35,000 people, accounting for 72% of the population living in the most deprived areas live closer to GRH; centralising/moving services to GRH provides improved access to the right specialists to manage the care of those living in the most deprived areas. Services will be providing specialist care where residents are more likely to have multiple conditions. In the event proposed change B2 were to happen, vascular services would also be centralised to GRH. Based on research, those in deprived areas are more at risk of conditions that may benefit from specialised vascular services and this area has the highest proportion of residents in deprivation. In the event that the proposed change "B3" were to happen, vascular services would still remain in CGH and would not be centralised, benefiting the deprived population in Cheltenham whilst still

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https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/784685/future_of_mobility_access.pdf

²⁴ Lucas et al, 2019; Inequalities in mobility and Access in the UK Transport System: Evidence Review:

https://www.health.org.uk/news-and-comment/news/people-in-most-deprived-areas-of-england-develop-multiple-health-conditions-10-years

https://www.ons.gov.uk/peoplepopulationandcommunity/birthsdeathsandmarriages/deaths/articles/howdoesdeprivationvarybyleadingcauseofdeath/2017-11-01



					Strategy offi	٠
					providing other specialist services (IGIS) closer to the higher proportion of deprived residents in Gloucester.	
C5, C11 services to CGH (or in the case of B3 to keep vascular at CGH)	Large Scale Impact Approximately 7.7% of the Gloucestershire population live within the most deprived IMD quintile which equates to just over 48,000 people being potentially impacted. At district level, Gloucester city has the highest proportion of its population living in the most deprived areas (25%) equating to approximately 32,500 people; this is followed by Cheltenham (11,700), Forest of Dean (2,600) and Tewkesbury (1,800). None of the areas within Stroud nor Cotswold fall under the most deprived quintile. Overall, an estimated 72% of the population living in	Long Term Impact Inequalities in the provision of transport services are strongly linked with where people live, and the associated differences in life expectancy, access to employment, healthcare, education, are all influenced by deprivation. The lack of affordability for private vehicles in low-income households, combined with limited public transport services in many peripheral social housing estates, considerably exacerbates the problem in many parts of the UK ²⁷		Some respondents have concerns around access and transport to a site further from where they live. Some have concerns that the county is too large for centralised services. Those in support have stated they are happy to travel for care that is optimised whilst others think both sites should be centres of excellence. Greater visibility and support given to people needing to claim travel expenses for hospital visits was a theme from the feedback.	Moderate Negative Impact However, patients who live in the most deprived areas nearer to CGH (approx. 13,000) may need further support to access services in the new location if their journey becomes longer and they are less familiar with the centralised location. Engaging with lower income areas within Gloucester City is important to understand if they currently struggle to access healthcare and if they think the proposed centralisations and movement of services from CGH to GRH will improve their access to healthcare. It is recommended that residents are made aware of transport options for low income families both from the hospital and from local transport services. This includes opportunities for subsidised travel.	
	the most deprived areas live closer GRH (based on a map view of these areas being geographically closer) and this equates to around 35,000 people.					
			l			

²⁷ Lucas et al, 2019; Inequalities in mobility and Access in the UK Transport System: Evidence Review: https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/784685/future_of_mobility_access.pdf

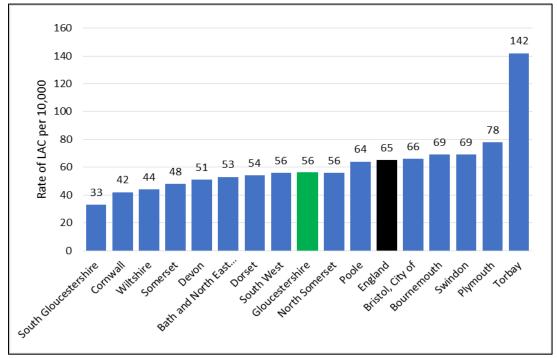


6.2. Looked After Children (LAC)

According to data from the department for Education, there are just under 80,000 children who are in care in England. Most are taken into care over fears of abuse or neglect. They are vulnerable to health inequalities, and exhibit significantly higher rates of mental health issues, emotional disorders (anxiety and depression), hyperactivity and autistic spectrum disorder conditions²⁸.

In Gloucestershire there were 718 looked after children in 2019; this equated to a rate of 56 per 10,000 persons, which is lower than England (65 per 10,000); however it is worth noting that the rate of LAC has increased by a third from 2015 to 2019²⁹ (see Figure 18).

Figure 18: Graph showing the rate of looked after children per 10,000 in local authorities in the South West region and national rate, 2019

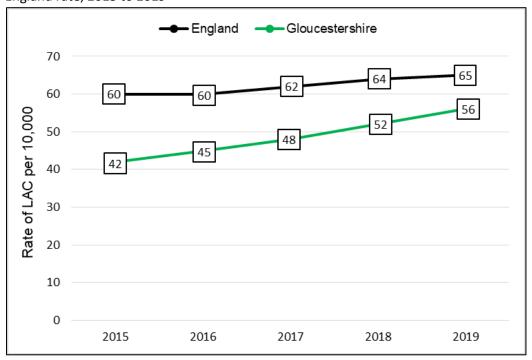


 $^{{\}color{red}^{28}} \ {\color{red}\underline{https://www.rcpch.ac.uk/resources/looked-after-children-lac}}$

https://www.gov.uk/government/statistics/children-looked-after-in-england-including-adoption-2018-to-2019



Figure 19: Graph showing the rate of looked after children per 10,000 in Gloucestershire and England rate, 2015 to 2019





HIIA summary for Looked After Children (LAC)

In total for all those who responded to the consultation survey across all patient cohorts, there were more respondents from the East, approx. 230 respondents compared to the West of the county where there were approx. 175 respondents.

Model	Scale of Potential impact	Evidence of Potential Impact	Consultation Outputs	Impacts from Consultation	Nature of Potential Impact and recommendations
A3 - Centralise acute medicine to GRH B2 - IGIS hub and vascular centralised to GRH C3 - EGS centralised to GRH C11 - GI day cases to CGH C5 - Elective colorectal to CGH C6 - Elective colorectal to GRH	In Gloucestershire there were 718 looked after children in 2019; this equated to a rate of 56 per 10,000 persons, which is lower than England (65 per 10,000); however it is worth noting that the rate of LAC has increased by a third from 2015 to 2019	Long Term Impact There is limited evidence regarding the impact to those who are looked after children; however evidence suggests that they are vulnerable to health inequalities, and exhibit significantly higher rates of mental health issues, emotional disorders (anxiety and depression), hyperactivity and autistic spectrum disorder conditions ³⁰ .	There is no significant evidence from consultation feedback to suggest this patient cohort is significantly impacted.	There is no significant evidence from consultation feedback to suggest this patient cohort is significantly impacted.	Overall Impact: Neutral Proposed changes to services are expected to maintain current inclusive support service approach. It is recommended to consult with a representative distribution of the population.

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³⁰ https://www.rcpch.ac.uk/resources/looked-after-children-lac



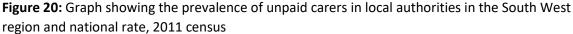
6.3. Carers and Unpaid Carers

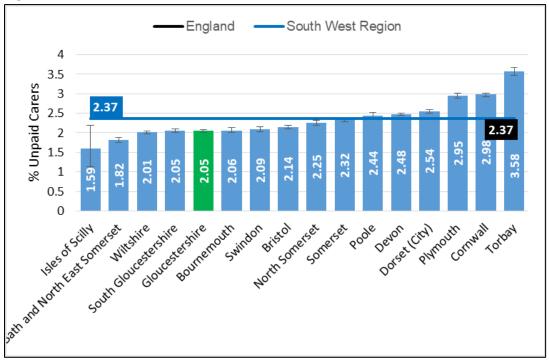
Increasing numbers of people are living with complex health needs and disabilities and require help with everyday activities. These people are often cared for, informally and unpaid, by family, friends, and neighbours.

Around 6.5 million carers in the UK provide care worth an estimated £57 billion to £100 billion per year. The number varies across the UK with a higher proportion of carers in Wales and Northern Ireland³¹.

Providing unpaid care can affect carers' education, employment, relationships, household finances, health and well-being. Effects on carers tend to worsen with the more care provided. Support for carers can be provided by a range of organisations, such as employers and governments, and it can include financial, employment-related, respite care, and emotional and social support. Some carers, such as those from ethnic minorities, can find it difficult to access support. Respite breaks, training, and counselling can improve carers' mental health and reduce stress.

There is very little publically available data on the prevalence of unpaid and paid carers; according to the 2011 census the prevalence of unpaid carers within the Gloucestershire population was 2.05% and this was significantly lower than both regional and national averages (2.37%).





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³¹ https://researchbriefings.files.parliament.uk/documents/POST-PN-0582/POST-PN-0582.pdf



HIIA Summary for carers and unpaid carers

In total for all those who responded to the consultation survey across all patient cohorts, there were more respondents from the East, approx. 230 respondents compared to the West of the county where there were approx. 175 respondents.

	Scale of Potential impact	Evidence of Potential Impact	Consultation Outputs	Impacts from Consultation	Nature of Potential Impact and recommendations
	Small Scale Impact	Long Term Impact	135 carers	69% of carers supported	Overall Impact: Positive
1			responded to	the centralising of acute	
	According to the 2011 census the	Caring responsibilities can have an	questions	medicine to GRH.	Large Positive Impact
	prevalence of unpaid carers	adverse impact on the physical and	regarding these		
	within the Gloucestershire	mental health, education and	care models.	63% of carers supported	The centralisation of services will provide more specialist care which
	population was 2.05% and this	employment potential of those		centralising EGS to GRH.	could be beneficial for carers who are caring for someone with multiple
	was significantly lower than both	who care, which can result in			conditions. The waiting times will be reduced and fewer cancellations
	regional and national averages,	significantly poorer health and		78% of carers supported	will help to support carers who often have to plan and make
	however, unpaid carers are likely	quality of life outcomes.		centralising elective	arrangements.
GRH	to be under-represented.	There is have a self-self-self-self-self-self-self-self-		colorectal. 44% thought	
1		These in turn can affect a carer's effectiveness and lead to the		this should be a CGH and	Overall, centralised services will provide shorter lengths of stay, faster
1		admission of the cared for person		36% had no opinion.	diagnostics and minimised waiting times which will help carers who have
1		to hospital or residential care. 84%		73% of carers supported GI	to attend hospital regularly.
1		of carers said that caring has had a		day case at CGH.	It will also result in ring fenced services which means more access to
1		negative impact on their health and		day case at COII.	services and therefore better health outcomes for the patient and
1		evidence suggests there is a 23%			improved self-care.
		increased risk of stroke for spousal		65% of carers supported	improved sen-care.
1		carers.		an IGIS hub and spoke	Moderate Negative Impact:
B2 - IGIS hub and		64.6.5.		model with CGH as the	moderate regulare impacts
vascular		Carers attribute their health risk to		spoke and 19% had no	If, however, centralisation results in extended travel time or a more
centralised to		a lack of support, with 64% citing a		opinion. 67% supported	complex journey, this could lead to carers finding this more challenging.
GRH		lack of practical support. ³²		vascular surgery at GRH.	
1					Carers may have to attend a different site or even both sites and
1					contend with the challenges that come with this, for example, parking
				Those in support of	which is reportedly a challenge from engagement with the public.
C3 - EGS				proposed centralisations	
centralised to				to GRH felt this was the	It is also possible that carer and patient may need to transfer to another
GRH				right location as centre of	site in the event of patient deterioration in certain circumstances. This is
GNII				the county.	in a very small number of circumstances, however.

³² https://www.england.nhs.uk/commissioning/comm-carers/carer-facts/



Some carers expressed concerns regarding travelling to GRH from other parts of the county. Increased patient and	oort may be required to
carer travel time was a theme.	nu disability access, traver
C11 - Gl day cases	
to CGH	
C5 - Elective	
colorectal to CGH	
C6 - Elective	
colorectal to GRH	



6.4. Homelessness

The number of rough sleepers identified by the Ministry of Housing, Communities and Local Government are extremely small in Gloucestershire identifying just 19 people. Therefore this report will look at the impact to those statutorily homeless. This is identified as the count of households who are living in temporary accommodation provided under the homeless legislation.

As such, statutorily homeless households contain some of the most vulnerable members of our communities and are at a higher risk of long term conditions, mental health, smoking and various other illnesses, thus this cohort require a higher provision of care³³. Being homeless also comes with a higher risk of delayed discharge from hospital, lengthening stays or cause repeated admissions to hospitals³⁴.

Numerous risk factors are associated with the likelihood of someone becoming homeless, and these broadly fall under individual circumstances and the wider forces. The risks range from drug and alcohol issues, bereavement, or experience of the criminal justice system, to the wider determinants of health such as inequality, unemployment, and housing supply and affordability³⁵

The rate of homelessness in Gloucestershire varies substantially by district. The highest rates are seen in Gloucester with 219 households accepted as homeless, equating to a rate of 4.12 per 1000 households; this is significantly higher than both county and national rates and double the rate of Cheltenham at 2.09 (see Figure 22).

²²

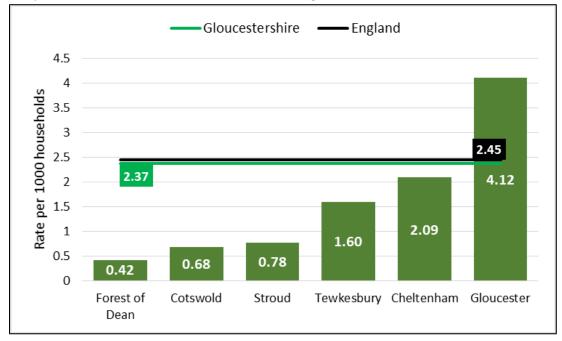
³³ <u>Morton , Jane</u>. Primary Health Care (2014+); London <u>Vol. 27, Iss. 8,</u> (Sep 2017): 25. DOI:10.7748/phc.2017.e1289

³⁴ https://publichealthmatters.blog.gov.uk/2018/02/09/the-inequalities-of-homelessness-how-can-we-stop-them-dying-young/

https://publichealthmatters.blog.gov.uk/2018/02/09/the-inequalities-of-homelessness-how-can-we-stop-them-dying-young/



Figure 22: Graph showing rate of acceptances per 1000 households in Gloucestershire districts compared with Gloucestershire and national averages, 2017/18



Locally sourced data provided by NHS Gloucestershire Clinical Commissioning Group and Gloucestershire County Council indicates there are 40 rough sleepers in Gloucestershire currently.

Gloucester 17, Cheltenham 9, Cotswold 7, Forest of Dean 3, Stroud 2 and Tewkesbury 2.

There are also 79 people registered with Gloucestershire's Homeless Healthcare team. This group are more likely to be male and are far younger than the overall CCG cohort. This cohort used A&E and community care services more, as well as mental health services.



HIIA summary for Homelessness

In total for all those who responded to the consultation survey across all patient cohorts, there were more respondents from the East, approx. 230 respondents compared to the West of the county where there were approx. 175 respondents.

Proposed Change	Scale of Potential impact	Evidence of Potential Impact	Consultation Outputs	Impacts from Consultation	Nature of potential impact and recommendations
	Small Scale Impact	Long Term Impact	Minutes from the Gloucester	Feedback from those representing	Overall Impact: Positive
			Homeless Forum and the Housing	those who are homeless in the	
	On average 2.37 per 1000	Homeless people are at a	and Support Forum.	Gloucester Homeless Forum and	Large Positive Impact
	households are homeless in	higher risk of long term		Housing and Support Forum	
	Gloucestershire. In Cheltenham 108	conditions, mental health,		expressed concerns about how	Given rates of homelessness are
	households are accepted as	smoking and various other		the proposals will meet the needs	slightly higher in Gloucester; a
	homeless, in Tewkesbury this figure	illnesses, thus this cohort		of the vulnerable clients that	centralising/moving services to GRH
	is 61 households and in Cotswold 26.	require a higher provision of		attend Cheltenham Open Door	provides improved access to the right
	This means approx. 195 homeless	care ³⁶ . Being homeless also		who have very complex needs and	specialists to manage the care of
	may currently be living closer to CGH	comes with a higher risk of		MA also discussed concerns about	homeless people who present with
A3, B2, C3 and C6	and therefore could be impacted by	delayed discharge from		how people rough sleeping often	multiple conditions.
Centralise/move	the proposed move of services to	hospital, lengthening stays or		don't like to leave the immediate	
various services	GRH from CGH (based on a map	cause repeated admissions to		area and travel for appointments.	Services in these solutions will be
to GRH	view of these areas being	hospital ³⁷ .			located near the highest proportion of
	geographically closer)			Feedback also suggests requests	homeless people in Gloucestershire,
		Those known to		for more outreach services to the	improving access to specialist care
	There are 79 people registered with	Gloucestershire's homeless		homeless, in particular in	without additional travel.
	the Homeless Healthcare team.	healthcare team are more		Cheltenham.	
		likely to be male and are far			Homeless people are more likely to
		younger than the overall CCG			have long term conditions and multiple
		cohort. This cohort used A&E			conditions which means centralising
		and community care services			and co-locating services will provide
		more, as well as mental health			support for more complex needs such
		services.			as these.

Morton, Jane. **Primary Health Care (2014+); London** Vol. 27, Iss. 8, (Sep 2017): 25. DOI:10.7748/phc.2017.e1289 https://publichealthmatters.blog.gov.uk/2018/02/09/the-inequalities-of-homelessness-how-can-we-stop-them-dying-young/



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	Small Scale Impact	Long Term Impact		Small Negative Impact
C5 and C11 move various services to CGH (or in the case of B3 to keep vascular at CGH)	The highest rates of homelessness acceptances are seen in Gloucester with 219 households accepted as homeless, equating to a rate of 4.12 per 1000 households; this is significantly higher than both county and national rates and double the rate of Cheltenham at 2.09. In addition to this Stroud has 39 homeless households and Forest of Dean 15. Making the assumption that these areas are closer to GRH, there are approximately 273 homeless who may be impacted by the proposed move of some services to CGH. (based on a map view of these areas being geographically closer)	Homeless people are some of the most vulnerable and needy members of our communities and are at a higher risk of long term conditions, mental health, smoking and various other illnesses, thus this cohort require a higher provision of care. Being homeless also comes with a higher risk of delayed discharge from hospital, lengthening stays or cause repeated admissions to hospitals.		Patients who are homeless, especially those from outside of Gloucester district may need further support to access services in the new location if their journey becomes longer and they are less familiar with the centralised location. It is recommended that organisations that advocate for homeless people locally such as Cheltenham Open door and others, are part of the co-design around transport and repatriation of those who are homeless to understand the pathway of care and how that impacts on homeless people or rough sleepers if they are required to travel out of their local area. Explore if there are more outreach opportunities for homeless people and if this is needed.



6.5. Substance Abuse

There is evidence to suggest that young people who use recreational drugs run the risk of damage to mental health including suicide, depression and disruptive behaviour disorders. Regular use of cannabis or other drugs may also lead to dependence. Among 10 to 15 year olds, an increased likelihood of drug use is linked to a range of adverse experiences and behaviour, including truancy, exclusion from school, homelessness, time in care, and serious or frequent offending³⁸.

Patients with substance use disorder diagnoses, specifically those with drug use-related diagnoses, have higher rates of recurrent acute care hospital utilisation than those without substance use disorder diagnoses³⁹.

The age standardised hospital admissions due to substance misuse in Gloucestershire is among the lowest in the South West region at 38 per 100,000 persons; lower than both regional and national rates, although there is a lack of data to determine statistical significance or comparisons. The age standardised mortality rate due to substance misuse is highest in the district of Gloucester with a rate of 7 per 100,000 over the period from 2016 to 2018; this is significantly higher than both Gloucestershire and England rates. All other districts had a rate similar to national and county rates or lower.

Figure: Age standardised rate of hospital admissions due to substance misuse per 100,000 within local authorities within the South West region compared with regional and national rates, 2018/19

63

³⁸ Schlossarek S et al U: Psychosocial Determinants of Cannabis Dependence: A Systematic Review of the Literature. Eur Addict Res 2016;22:131-144.

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6034987/



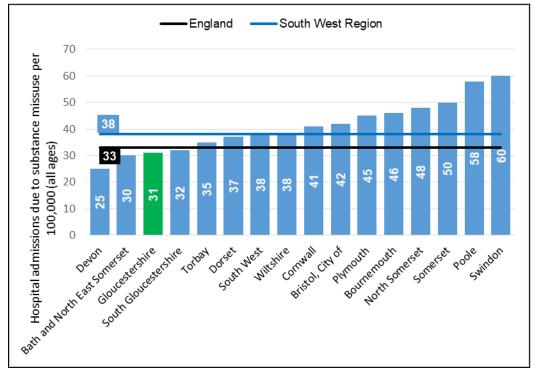
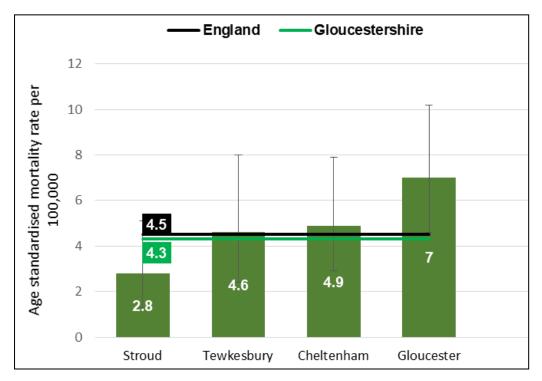


Figure: Age standardised mortality rate due to substance misuse per 100,000 within Gloucestershire districts, compared with county and national rates, 2016 - 2018



^{*}Numbers were too low for Cotswold and Forest of Dean



HIIA Summary for Substance Misuse

In total for all those who responded to the consultation survey across all patient cohorts, there were more respondents from the East, approx. 230 respondents compared to the West of the county where there were approx. 175 respondents.

Model	Scale of Potential impact	Evidence of Potential Impact	Consultation Outputs	Impacts from Consultation	Nature of Potential Impact and recommendations
A3 - Centralise acute medicine to GRH	Moderate Scale Impact The age standardised hospital admissions due to substance misuse in Gloucestershire is among the lowest in the South West region at 38	Patients with substance use disorder diagnoses, specifically those with drug use-related diagnoses, have higher rates of	There is no significant evidence from consultation feedback to suggest this patient cohort is significantly impacted.	There is no significant evidence from consultation feedback to suggest this patient cohort is significantly impacted.	Proposed changes to services are expected to maintain current inclusive support service approach.
B2 - IGIS hub and vascular centralised to GRH	per 100,000 persons; lower than both regional and national rates; however mortality rates suggest that the	recurrent acute care hospital utilisation than those without substance use disorder			
C3 - EGS centralised to GRH C11 - GI day cases to CGH C5 - Elective colorectal to CGH C6 - Elective colorectal to GRH	district of Gloucester City has the highest rates of deaths due to substance misuse, significantly higher than county and national averages.	diagnoses ⁴⁰ .			

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⁴⁰ Walley et al (2012) Acute care hospital utilization among medical inpatients discharged with a substance use disorder diagnosis. <u>J Addict Med.</u> 2012 Mar;6(1):50-6. doi: 10.1097/ADM.0b013e318231de51

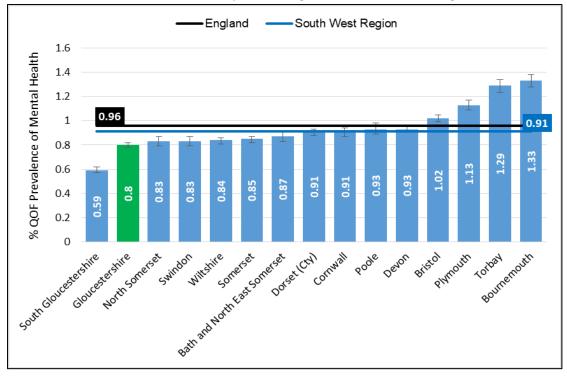


6.6. Mental Health

The prevalence of mental health disease within the GP practice registered population within Gloucestershire is among the lowest in the South West region at 0.8%; significantly lower than both regional and national averages (see Figure 24).

During 2018/19, 351 people attended CGH ED and 1447 attended GRH with a mental health issue. This total of 1798 across the 2 sites equates to 1.2% of all attendances during this year. This data clearly demonstrates that more people attend GRH than CGH with mental health related issues.

Figure 24: Graph showing QOF prevalence of the registered population with a mental health disease in local authorities in South West compared to regional and national averages 2015/16 to 2017/18





HIIA Summary for Mental Health

In total for all those who responded to the consultation survey across all patient cohorts, there were more respondents from the East, approx. 230 respondents compared to the West of the county where there were approx. 175 respondents.

Model	Scale of Potential impact	Evidence of Potential Impact	Consultation Outputs	Impacts from Consultation	Nature of Potential Impact and recommendations
A3 - Centralise acute medicine to GRH	Moderate Scale Impact The prevalence of mental health disease within the GP practice registered population within Gloucestershire is among the lowest in the South West region at 0.8%; significantly lower than both regional and national averages, however, a number of mental health conditions are undiagnosed or underrepresented. During 2018/19, 351 people attended CGH ED and 1447 attended GRH with a mental health issue. This total of 1798 across the 2 sites equates to 1.2% of all attendances during this year. This data clearly demonstrates that more people attend GRH than CGH with mental health related issues.	Long Term Impact There is a strong association between mental and physical ill health. People with long-term conditions, such as diabetes or cardiovascular disease, have significantly raised rates of depression, anxiety and other mental health problems. Evidence suggests that many of these people receive poorer quality care than those with a single condition. 41	22 respondents with mental health conditions answered questions in relation to these care models	62% of those with a mental health condition supported centralised acute medicine 62% of those with a mental health condition supported EGS centralised to GRH and 19% had no opinion. 57% of those with a mental health condition supported centralised elective colorectal and 29% had no opinion. 50% supported it at CGH and 35% had no opinion. 57% of those with a mental health condition supported GI day case at CGH and 29% had no opinion. 62% of those with a mental health condition supported an IGIS hub with a spoke at CGH and 19% had no opinion. 60% supported vascular surgery at GRH and 20% had no opinion.	Overall Impact: Positive Large Positive Impact By centralising services patients with comorbidities could receive a better quality of specialist care. Particularly emergency services where the majority of patients with mental health conditions are already attending. Moderate Negative Impact Patients with anxiety disorders and other mental health disorders which may be exacerbated by change in routine or need to travel may find these challenging. It is recommended those with mental health conditions and organisations supporting those with mental health conditions form part of the design of services, particularly considering the impact of travel or a new environment on those with mental health conditions that may be exacerbated by these changes.

https://www.kingsfund.org.uk/projects/mental-health-and-long-term-conditions-cost-co-morbidity



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			feedback were around the	
			increased likelihood of seeing a	
			specialist on first appointment	
			rather than being redirected and	
			quality of care optimised.	
			Some respondents expressed	
			concerns around capacity at one	
			site by centralising services.	
			_	
B2 - IGIS hub and				
vascular centralised to				
GRH				
C3 - EGS centralised to				
GRH				
C11 - GI day cases to				
CGH				
C5 - Elective colorectal				
to CGH				
C6 - Elective colorectal	1			
to GRH				
	1			



7. Health Impact Assessment

7.1. Key Findings

Consultation Feedback

Care Quality was viewed as a benefit by many respondents who felt centralising services would optimise care. Some commented that they were happy to travel for optimised care or that location was less important compared to quality.

Those over 65 with disabilities and those with long term conditions had concerns regarding the potential need to **transfer** some patients for emergency treatment who may be very unwell.

Potential Positive Impacts

Diabetes tends to be prevalent with other co-morbidities such as, heart conditions, meaning that this cohort is likely to be impacted by the centralisation of services as they are likely to use several different services due to having multiple conditions. This means centralising services will improve their quality of care by reducing waiting times, faster diagnostics and a multi-disciplinary approach to conditions.

Obesity is often linked to a large number of co-morbidities which mean obese patients are significantly more likely to be impacted by the proposed changes. The movement of services could result in specialist care being provided in one place leading to a better quality of care.

Patients who fall regularly are one of the cohorts more likely to be impacted by the proposed changes as they will usually attend hospital more than other cohorts in the population. 1,812 people per 100,000 in Gloucestershire are admitted to hospital due to falls. This cohort may benefit from the centralisation of services in the same way as over 65s because frailty can correlate with age, see "Age" section of the EQIA.

Potential Negative Impacts

In the event that the proposed change "B3" were to happen, vascular services would still remain in CGH and would not be centralised. By having IGIS separate from vascular this could result in compromised patient safety and could result in patients needed to be transferred if they are vulnerable to deterioration such as those with cardiovascular disease. This may also impact on what cardiovascular disease patients receive in the vascular hub at CGH. The impact of the separation of vascular on patient safety is not yet known but has been raised as a concern by staff, and therefore remains a concern for patients vulnerable to deterioration or those with complex heart conditions. The impact to vascular and the impact on patient safety has been identified by Gloucestershire Hospitals NHS Foundation Trust, however, this impact has yet to be quantified by clinicians.



Evidence Based Recommendations

- It is recommended a review of public transport is conducted to understand if there are limitations, to disseminate information regarding travel to patients to make journey planning easier and ensure patients and carers are aware of what services are available.
- It is recommended to conduct a review of transport options, including subsidised options for transport which can be disseminated to patients ensuring they are aware of all the options they can access.
- Explore if increasing outreach services for those who are Homeless is needed and would be beneficial.
- It is recommended to explore what could be moved to virtual appointment where possible to reduce the need for patients and carers to travel for outpatient appointments.
- It is recommended to explore the possibility of adapting the model of elective colorectal to alleviate some concerns regarding the transfer of high risk patients. Evidence review suggests there are clinical benefits to elective colorectal being centralised in GRH with emergency general surgery, however, consultation feedback suggests that overall patients would prefer centralisation at CGH. In order to accommodate patient preference, optimise care and alleviate concerns regarding transfer, it is recommended to explore a model where elective colorectal is centralised at CGH but with high risk patients attending GRH to receive their colorectal treatment.



HIA analysis

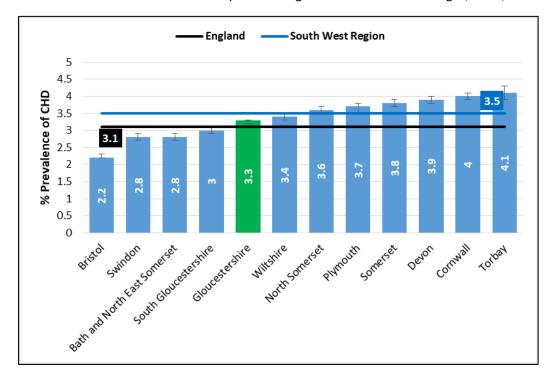
7.2. Cardiovascular disease

Cardiovascular disease (CVD) is responsible for 26% of all deaths in the UK. This equates to approximately 160,000 deaths each year or an average of 435 people each day and at least 42,000 of these deaths occur prematurely. ⁴² There are multiple risk factors for cardiovascular disease; these include old age, ethnicity, deprivation, gender, smoking, obesity etc. ⁴³

The more deprived areas in both England and Wales experienced a higher number of deaths from leading causes including cardiovascular and other related conditions than less deprived areas.⁴⁴

The prevalence of cardiovascular disease within the GP practice registered population within Gloucestershire is 3.3%, which is significantly lower than the regional average (3.5%) but significantly higher than the national average (3.1%) see Figure 25.

Figure 25: Graph showing QOF prevalence of chronic heart disease in the registered population in local authorities in South West compared to regional and national averages, 2017/18



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 $\frac{https://www.ons.gov.uk/people population and community/births deaths and marriages/deaths/articles/how does deprivation vary by leading cause of death/2017-11-01$

⁴² https://www.heartuk.org.uk/downloads/heart-uk-state-of-the-nation-report-2018.pdf

⁴³ https://ada.com/cardiovascular-disease-risk-factors/



HIA summary for Cardiovascular disease

In total for all those who responded to the consultation survey across all patient cohorts, there were more respondents from the East, approx. 230 respondents compared to the West of the county where there were approx. 175 respondents.

Proposed Change	Scale of Potential impact	Evidence of Potential Impact	Consultation Outputs	Impacts from Consultation	Nature of potential impact and recommendations
A3, B2, C3 and C6 Centralise/move various services to GRH	Large Scale Impact The prevalence of cardiovascular disease within the GP practice registered population within Gloucestershire is 3.3%, which is significantly lower than the regional average (3.5%) but significantly higher than the national average (3.1%). Over the period between April 2018 and March 2019, there was a total of 3,783 cardiology/vascular patients seen across GRH and CGH; 3,334 (88%) of these patients were seen at CGH. While there is insufficient data to ascertain whether there is a higher prevalence of cardiovascular patients living nearer to CGH compared to GRH; it can be denoted that the vast majority of cardiology patients are currently seen at CGH and proposed changes are most likely to impact this cohort.	There are multiple risk factors for cardiovascular disease; these include old age, ethnicity, deprivation, gender, smoking, obesity etc. 45 The more deprived areas in both England and Wales experienced a higher number of deaths from leading causes including cardiovascular and other related conditions than less deprived areas. 46 Approx. 35,000 people, accounting for 72% of the population living in the most deprived areas live closer to GRH; centralising/moving services to GRH provides improved access to the right specialists to manage the care of those living in the most deprived areas who are at a higher risk of cardiovascular disease.	81 respondents with Long term conditions responded to questions regarding these care models.	73% of those with a long term condition supported acute medicine centralised to GRH. 69% of those with a long term condition supported EGS centralised to GRH and 10% had no opinion. 84% of those with a long term condition supported the centralisation of elective colorectal. 48% felt it should be at CGH. 74% of those with a long term condition supported GI day case at CGH. 73% of those with a long term condition supported and IGIS Hub with the spoke at CGH and 52% supported vascular surgery at GRH with 30% having no opinion. Feedback regarding colorectal raised concerns regarding transfers of very unwell patients	Overall Impact: Negative Large Positive Impact: In the event proposed change B2 were to happen, vascular services would also be centralised to GRH. Based on research, those in deprived areas are more at risk of conditions that may benefit from specialised vascular services and this area has the highest proportion of residents in deprivation. The centralisation of services will result in cardiovascular patients experiencing reduced waiting times, less cancellations and improved clinical outcomes as a result of the co-location of specialities. Large Negative Impact In the event that the proposed change "B3" were to happen, vascular services would still remain in CGH and would not be centralised. This could result in less optimised patient safety and could result in patients needed to be transferred. This may impact on what

https://ada.com/cardiovascular-disease-risk-factors/
 https://ada.com/cardiovascular-disease-risk-factors/
 https://www.ons.gov.uk/peoplepopulationandcommunity/birthsdeathsandmarriages/deaths/articles/howdoesdeprivationvarybyleadingcauseofdeath/2017-11-01



Strategy Unit

				Strategy Unit
			and the time required for transfer impacting on patient outcomes. Feedback also expressed concerns around the impact centralising acute medicine will have on the A&E offer at CGH.	vascular patients receive at CGH also. The impact of the separation of vascular on patient safety is not yet known, and therefore remains a concern for patients vulnerable to deterioration or those with complex heart conditions. Until the impact is quantified, this remains high.
C5, C11 services to CGH (or in the case of B3 to keep vascular at CGH)	Large Scale Impact The prevalence of cardiovascular disease within the GP practice registered population within Gloucestershire is 3.3%, which is significantly lower than the regional average (3.5%) but significantly higher than the national average (3.1%). Over the period between April 2018 and March 2019, there was a total of 3,783 cardiology/vascular patients seen across GRH and CGH; 449 (12%) of these patients were seen at GRH.	As above		It is recommended that patient pathways regarding transfer are made clear so patients can understand the impact of transfer in the event of being unwell. An assessment of travel times between sites in an emergency may also be beneficial

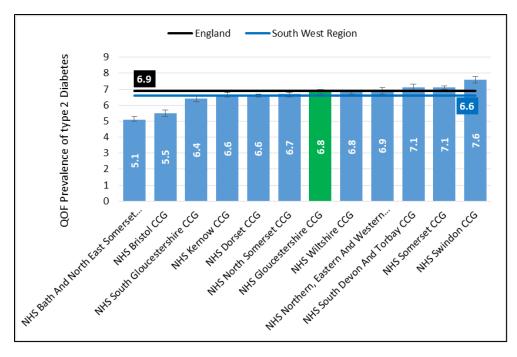


7.3. **Diabetes Mellitus**

Research suggests that those living in the most deprived areas within the UK are 2.5 time more likely to be suffering from Diabetes.⁴⁷ Those suffering from diabetes also have a high likelihood of coming from a BME background; Type 2 Diabetes is up to 6 times more likely in people of South Asian descent and 6 times more likely among Afro-Caribbean's. 48

The prevalence of Type 2 Diabetes within the GP practice registered population within Gloucestershire is similar compared to the South West region and national average at 6.8% (see Figure 26).

Figure 26: Graph showing QOF prevalence of the registered population with a Diabetes Mellitus in local authorities in South West compared to regional and national averages, 2017/18



study British Medical Journal 2000; 321: 405-412.



HIA summary for Diabetes Mellitus

In total for all those who responded to the consultation survey across all patient cohorts, there were more respondents from the East, approx. 230 respondents compared to the West of the county where there were approx. 175 respondents.

Model	Scale of Potential impact	Evidence of Potential Impact	Consultation Outputs	Impacts from Consultation	Nature of Potential Impact and recommendations
A3 - Centralise acute	Small Scale Impact: The	Long Term Impact	81 respondents	73% of those with a long term condition	Overall Impact: Positive
medicine to GRH	prevalence of Type 2		with Long term	supported acute medicine centralised to GRH.	
B2 - IGIS hub and	Diabetes within the GP	There is limited evidence	conditions		Positive Impact
vascular centralised	practice registered	regarding the impact to those	responded to	69% of those with a long term condition	Diabetes is prevalent with other co-
to GRH	population within	who are Diabetics; however,	questions	supported EGS centralised to GRH and 10% had	morbidities such as, heart conditions, meaning
C3 - EGS centralised	Gloucestershire is similar	evidence suggests that those	regarding these	no opinion.	that this cohort is likely to be impacted by the
to GRH	compared to the South West	living in the most deprived areas	care models.		centralisation of services as they are likely to
C11 - GI day cases to	region and national average	within the UK are 2.5 time more		84% of those with a long term condition	use multiple services due to having multiple
CGH	at 6.8%	likely to be suffering from		supported the centralisation of elective	conditions. This could mean centralising
C5 - Elective		Diabetes. ⁴⁹ Those suffering from		colorectal. 48% felt it should be at CGH.	services will improve their quality of care and
colorectal to CGH		diabetes also have a high			enhance clinical outcomes.
		likelihood of coming from a BME		74% of those with a long term condition	
		background; Type 2 Diabetes is		supported GI day case at CGH.	It is recommended to use existing forums to
		up to 6 times more likely in		700/ 61/ 11/ 1 / 11/1	engage with patients with long term
		people of South Asian descent		73% of those with a long term condition	conditions and also to engage with
		and 6 times more likely among Afro-Caribbean's. 50 This cohort		supported and IGIS Hub with the spoke at CGH and 52% supported vascular surgery at GRH	representative organisations for long term conditions such as diabetes.
05 51 11		may face challenges and		, ,	conditions such as diabetes.
C6 - Elective		perceived challenges in access to		with 30% having no opinion.	
colorectal to GRH		services in general, especially		Feedback regarding colorectal raised concerns	
		those within BME background ⁵¹		regarding transfers of very unwell patients and	
		those within blvic background		the time required for transfer impacting on	
				patient outcomes.	
				patient outcomes.	
				Feedback also expressed concerns around the	
				impact centralising acute medicine will have on	
				the A&E offer at CGH.	
				1	1

⁴⁹ https://www.diabetes.org.uk/about_us/news_landing_page/uks-poorest-twice-as-likely-to-have-diabetes-and-its-complications
⁵⁰ Association of glycaemia with macrovascular and microvascular complications of Type 2 diabetes: prospective observational study British Medical Journal 2000; 321: 405-412.

⁵¹ https://bmjopen.bmj.com/content/6/11/e012337



7.4. Neurological Conditions

The number of people living with neurological conditions in England is rising and will continue to increase. This is due in part to advances in neonatal healthcare meaning more children with neurological conditions survive beyond birth and into adulthood. Public Health England's 2018 Neurology Mortality reports show that number of deaths in England relating to neurological disorders rose by 39% over 13 years, while deaths in the general population fell by 6% over the same period. ⁵²

According to the NHS & CQC 2017 Adult Inpatient Survey, Patients with neurological conditions reported poorer experiences for confidence and trust, respect and dignity, respect for patient-centred values and overall experience of care. In response to the NHS 2016 patient experience survey, just 41% (n=2,132) of patients described the health services they received for their neurological condition as 'good' or 'excellent'. 53

The 2013-14 NHS England survey of patients of GP practices found that people with long-term neurological conditions have the lowest health-related quality of life of any long-term condition.⁵⁴

The prevalence of neurological conditions among the registered population is similar in Gloucestershire compared with the South West Region and National rates at 8.8%.

The rate of hospital admissions for epilepsy among under 19s is 87.5 per 100,000; this is statistically similar to the South West regional average (71.5) but statistically higher than the national average (70.6) by a small margin.

Figure 27: Graph showing prevalence neurological conditions among the registered population in local authorities in South West compared to regional and national averages, 2017/18

⁵² Public Health England (2018) Deaths associated with neurological conditions in England 2001 to 2014: Data analysis report. Available online at https://www.gov.uk/government/publications/deaths-associated-withneurological-conditions

⁵³ The Neurological Alliance (2017): Falling short: How has neurology patient experience changed since 2014? Available online at http://www.neural.org.uk/store/assets/files/668/original/Neurological_Alliance_Falling_Short_-
How has neurology patient experience shanged since 2014 pdf.

How has neurology patient experience changed since 2014.pdf

54 The Neurological Alliance (2017): Falling short: How has neurology patient experience changed since 2014? Available online at http://www.neural.org.uk/store/assets/files/668/original/Neurological_Alliance__Falling_Short__How_has_neurology_patient_experience_changed_since_2014.pdf



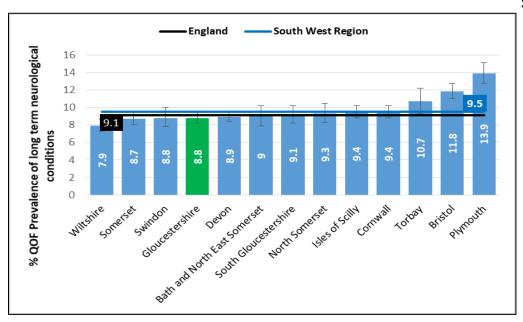
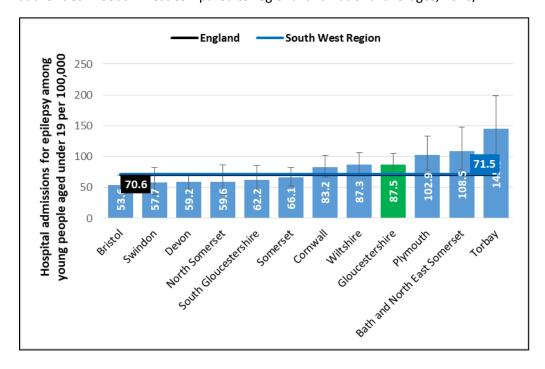


Figure 28: Graph the rate of hospital admissions for epilepsy among under 19s per 100,000 in local authorities in South West compared to regional and national averages, 2016/17





HIA summary for Neurological Conditions

In total for all those who responded to the consultation survey across all patient cohorts, there were more respondents from the East, approx. 230 respondents compared to the West of the county where there were approx. 175 respondents.

Model	Scale of Potential impact	Evidence of Potential Impact	Consultation Outputs	Impacts from Consultation	Nature of Potential Impact and recommendations
A3 - Centralise acute medicine to GRH B2 - IGIS hub and vascular centralised to GRH C3 - EGS centralised to GRH C11 - GI day cases to CGH C5 - Elective colorectal to CGH	Moderate scale Impact: The prevalence of neurological conditions among the registered population is similar in Gloucestershire compared with the South West Region and National rates at 8.8%. The rate of hospital admissions for epilepsy among under 19s is 87.5 per 100,000; this is statistically similar to the South West regional average (71.5) but statistically higher than the national average (70.6) by a small margin. Over the period between April 2018 and March 2019, there was a total of 1,042 neurology patents seen at GRH and 644 (62%) of these patients lived closer to GRH than CGH thus if services were to be	Long Term Impact According to the NHS & CQC 2017 Adult Inpatient Survey, Patients with neurological conditions reported poorer experiences for confidence and trust, respect and dignity, respect for patient-centred values and overall experience of care. In response to the NHS 2016 patient experience survey, just 41% (n=2,132) of patients described the health services they received for their neurological condition as 'good' or 'excellent'. 55 The 2013-14 NHS England survey of patients of GP practices found that people with long-term neurological conditions have the lowest health- related quality of life of any long-	81 respondents with Long term conditions responded to questions regarding these care models.	73% of those with a long term condition supported acute medicine centralised to GRH. 69% of those with a long term condition supported EGS centralised to GRH and 10% had no opinion. 84% of those with a long term condition supported the centralisation of elective colorectal. 48% felt it should be at CGH. 74% of those with a long term condition supported GI day case at CGH. 73% of those with a long term condition supported and IGIS Hub with the spoke at CGH and 52% supported vascular surgery at GRH with 30% having no opinion. Feedback regarding colorectal raised concerns regarding transfers of very unwell patients and the time required for transfer impacting on patient outcomes.	recommendations
	moved from GRH to CGH, this cohort is most likely to be impacted.	term condition. ⁵⁶		Feedback also expressed concerns around the impact centralising acute medicine will have on the A&E offer at CGH.	

⁵⁵ The Neurological Alliance (2017): Falling short: How has neurology patient experience changed since 2014? Available online at http://www.neural.org.uk/store/assets/files/668/original/Neurological Alliance Falling Short - How has neurology patient experience changed since 2014.pdf

⁵⁶ The Neurological Alliance (2017): Falling short: How has neurology patient experience changed since 2014? Available online at http://www.neural.org.uk/store/assets/files/668/original/Neurological_Alliance__Falling_Short_-_How_has_neurology_patient_experience_changed_since_2014.pdf

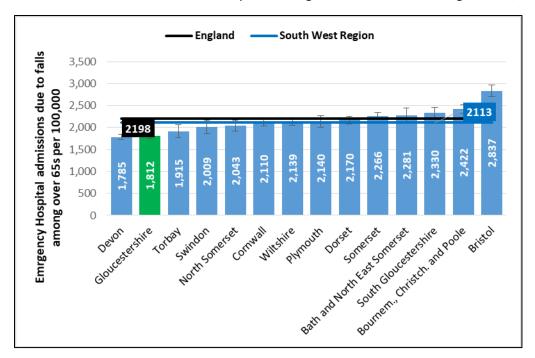


7.5. Falls among the elderly

A rapidly ageing population means that doctors in all specialties are likely to encounter older people with falls. Falls in the elderly are common and associated with major morbidity and mortality. Falls cause injuries, fractures, loss of confidence and independence, depression and death. Recurrent falls and fear of falling are the most common reasons for an older person to require nursing home care. An initial fall may be a manifestation of an acute illness and may be the only presenting feature. However, it is known that an index fall is a risk for future falls and approximately half of those who fall once are likely to do so again.⁵⁷

The rate of emergency hospital admissions due to falls among those aged over 65 per 100,000 in Gloucestershire is among the lowest in the South West region; a rate of 1,812 per 100,000 at Gloucestershire makes it significantly lower than both regional and national averages.

Figure 29: Graph the rate of emergency hospital admissions due to falls among over 65s per 100,000 in local authorities in South West compared to regional and national averages, 2018/19



⁵⁷ https://www.rcpe.ac.uk/sites/default/files/anderson.pdf



HIA summary for falls among the elderly

In total for all those who responded to the consultation survey across all patient cohorts, there were more respondents from the East, approx. 230 respondents compared to the West of the county where there were approx. 175 respondents.

Model	Scale of Potential impact	Evidence of Potential Impact	Consultation Outputs	Impacts from Consultation	Nature of Potential Impact and recommendations
A3 - Centralise acute medicine to GRH	Large Scale Impact: The rate of emergency hospital admissions due to falls among those aged over 65 per 100,000 in Gloucestershire is	Long Term Impact Falls cause injuries, fractures, loss of	58 people over the age of 65 with a disability answered questions regarding these care models.	69% of those over 65 with a disability supported the centralisation of acute medicine 60% of those over 65 with a disability supported EGS at GRH and 21% strongly opposed this.	Positive Impact Patients who fall regularly are likely to be a cohort impacted by the proposed changes as they will likely attend hospital more than other cohorts in the population. 1,812 people per 100,000 in Gloucestershire are admitted to hospital due to
B2 - IGIS hub and vascular centralised to GRH	among the lowest in the South West region; a rate of 1,812 per 100,000 at Gloucestershire makes it significantly lower than both regional and national averages.	confidence and independence, depression and death. Recurrent falls and fear of falling are the most common reasons for an older person to require nursing home care. An initial fall may be a manifestation of an acute illness and may be the only presenting feature. However, it is known that an index fall is a risk for future falls and approximately half of those who fall once are likely to do so again. Shall once are likely to do so again. Shall once are likely to do so again. Shall once are likely to do so again this cohort focuses on those aged over 65; see "Age" section of the EQIA (pages 5-10). Although it is to be noted that this cohort is a particularly vulnerable subset of the elderly population, hence more provision of care needs to be given.		83% of those over 65 with a disability supported the centralisation of elective colorectal, 52% supporting it at CGH and 29% with no opinion. 73% of those over 65 with a disability supported GI day case at CGH. 75% of those over 65 with a disability supported the IGIS hub and spoke model with spoke at CGH, 58% supported vascular surgery at GRH and 21% had no opinion. Respondents in support commented on the location being less important if the care is "excellent". Some respondents had concerns around the transfer of patients in an emergency to GRH from CGH.	falls. This cohort may benefit from the centralisation of services in the same way as over 65s because frailty correlates with age, see "Age" section of the EQIA (pages 5-10). It is recommended to engage through existing forums with patients Or via representative organisations for frailty and falls. It is recommended to conduct some analysis to understand the travel offer in the area and how vulnerable patients can be supported in this. It is also recommended to consider this cohort have concerns around the centralisation of emergency care and the separation from elective care e.g. in the case of colorectal patients. Another option may need to be considered for more high risk colorectal patients.
C3 - EGS centralised]			Travelling around the county was also a	

⁵⁸ https://www.rcpe.ac.uk/sites/default/files/anderson.pdf

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to GRH		concern for some.	
C11 - GI day cases to			
CGH			
C5 - Elective			
colorectal to CGH			
C6 - Elective			
colorectal to GRH			



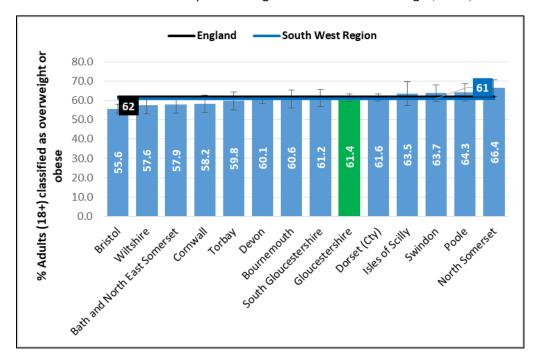
7.6. Overweight or Obese

Excess weight and obesity is a risk factor for various health conditions, including type 2 diabetes, high blood pressure, cardiovascular disease, fatty liver disease, various cancers and kidney disease.⁵⁹

Overweight and obese individuals are less likely to access healthcare and are less likely to receive evidence-based and bias-free healthcare when they do engage according to various studies. 606162

The prevalence of overweight and obesity in Gloucestershire if 61.4%; this is similar to both regional and national rates.

Figure 30: Prevalence of overweight and obese among the population aged 18 and over in local authorities in South West compared to regional and national averages, 2018/19



⁵⁹ https://www.niddk.nih.gov/health-information/weight-management/health-risks-overweight

Aldrich T., Hackley B. (2010). The impact of obesity on gynecologic cancer screening: an integrative literature review. J Midwifery Womens Health 55, 344–356. 10.1016/j.jmwh.2009.10.001 [PubMed] [CrossRef] [Google Scholar]

⁶¹ Forhan M., Salas X. R. (2013). Inequities in healthcare: a review of bias and discrimination in obesity treatment. Can. J. Diabetes 37, 205–209. 10.1016/j.jcjd.2013.03.362 [PubMed] [CrossRef] [Google Scholar]

⁶² Phelan S. M., Burgess D. J., Yeazel M. W., Hellerstedt W. L., Griffin J. M., van Ryn M. (2015). Impact of weight bias and stigma on quality of care and outcomes for patients with obesity. Obes. Rev. 16, 319–326. 10.1111/obr.12266 [PMC free article] [PubMed] [CrossRef] [Google Scholar]



HIA summary for Overweight and Obesity

In total for all those who responded to the consultation survey across all patient cohorts, there were more respondents from the East, approx. 230 respondents compared to the West of the county where there were approx. 175 respondents.

Model	Scale of Potential impact	Evidence of Potential Impact	Consultation Outputs	Impacts from Consultation	Nature of Potential Impact and recommendations
A3 - Centralise acute	Large Scale Impact:	Long Term Impact	81 respondents	73% of those with a long term	
medicine to GRH			with Long term	condition supported acute	
B2 - IGIS hub and vascular centralised to GRH	The prevalence of overweight and obesity	Research suggests statistically significant associations for overweight with the	conditions responded to	medicine centralised to GRH.	
C3 - EGS centralised to GRH	in Gloucestershire	incidence of type II diabetes, cancer,	questions	69% of those with a long term	0
C11 - GI day cases to CGH	is61.4%; this is similar to	cardiovascular diseases asthma, gallbladder	regarding these	condition supported EGS	Overall Impact: positive
C5 - Elective colorectal to CGH	both regional and national rates.	disease, osteoarthritis and chronic back pain ⁶³ .	care models.	centralised to GRH and 10% had no opinion.	Obesity is often linked to a large number of co-morbidities which mean obese
C6 - Elective colorectal to		Overweight and obese individuals are less likely to access healthcare and are less likely to receive evidence-based and bias-free healthcare when they do engage according to studies. 6465666		84% of those with a long term condition supported the centralisation of elective colorectal. 48% felt it should be at CGH.	patients are more likely to be impacted by the proposed changes. The movement of services could result in specialist care being provided in one place leading to a better quality of care.
GRH		Evidence suggests that this cohort may face challenges and perceived challenges in access to services in general and also are at a higher risk of mobility related barriers. ⁶⁷		74% of those with a long term condition supported GI day case at CGH.	It is recommended to engage through existing forums with patients Or via representative organisations.
		,		73% of those with a long term condition supported and IGIS Hub with the spoke at CGH and 52%	

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⁶³ Guh, D.P., Zhang, W., Bansback, N. *et al.* The incidence of co-morbidities related to obesity and overweight: A systematic review and meta-analysis. *BMC Public Health* **9**, 88 (2009). https://doi.org/10.1186/1471-2458-9-88

⁶⁴ Aldrich T., Hackley B. (2010). The impact of obesity on gynecologic cancer screening: an integrative literature review. **J Midwifery Womens Health** 55, 344–356. 10.1016/j.jmwh.2009.10.001 [PubMed] [CrossRef] [Google Scholar]

⁶⁵ Forhan M., Salas X. R. (2013). Inequities in healthcare: a review of bias and discrimination in obesity treatment. Can. J. Diabetes 37, 205–209. 10.1016/j.jcjd.2013.03.362 [PubMed] [CrossRef] [Google Scholar]

⁶⁶ Phelan S. M., Burgess D. J., Yeazel M. W., Hellerstedt W. L., Griffin J. M., van Ryn M. (2015). Impact of weight bias and stigma on quality of care and outcomes for patients with obesity. Obes. Rev. 16, 319–326. 10.1111/obr.12266 [PMC free article] [PubMed] [CrossRef] [Google Scholar]

⁶⁷ https://www.ncbi.nlm.nih.gov/pubmed/20059707



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	supported vascular surgery at GRH with 30% having no opinion.	
	Feedback regarding colorectal raised concerns regarding transfers of very unwell patients and the time required for transfer impacting on patient outcomes.	
	Feedback also expressed concerns around the impact centralising acute medicine will have on the A&E offer at CGH.	