

Integrated Impact Assessment Report for Clinical Commissioning Policies					
Policy Reference Number	1783				
Policy Title	Proton Beam Therapy for Children, Teenagers and Young Adults in the treatment of malignant and non- malignant tumours				
	Proposal <u>for routine commission</u> (ref A3.1)				
Eastion A Activity		Integrated Impact Assessment – Inc Section B - Service	dex Section C – Finance		
Section A – Activity					
A1 Current Patient Population & Demography / Growth		B1 Service Organisation	C1 Tariff		
A2 Future Patient Population & Demography		B2 Geography & Access	C2 Average Cost per Patient		
A3 Activity		B3 Implementation	C3 Overall Cost Impact of this Policy to NHS England		
A4 Existing Patient Pathway		B4 Collaborative Commissioning	C4 Overall cost impact of this policy to the NHS as a whole		
A5 Comparator (next best alternative treatment) Patient Pathway			C5 Funding		
A6 New Patient Pathway			C6 Financial Risks Associated with Implementing this Policy		
A7 Treatment Setting			C7 Value for Money		
A8 Coding			C8 Cost Profile		
A9 Monitoring					

About this Impact Assessment: instructions for completion and explanatory notes

• Each section is divided into themes.

- Each theme sets out a number of questions.
- All questions are answered by selecting a drop down option or including free text.
- Free text boxes are provided to enable succinct relevant commentary to be added which explains the rationale for response or assumption. Please limit responses to 3 sentences of explanatory text.
- Data in this document is either drawn from one of the relevant policy documents or a source for the information is provided.
- Where assumptions are included where data is not available, this is specified.

Section	on A - Activity Impact
A1 Current Patient Population & Demography / Growth	
A1.1 Prevalence of the disease/condition.	The policy covers a number of rare cancers and prevalence varies by condition and age group (paediatric, teenage & young adult (TYA)). Source: Policy Proposition section 6
A1.2 Number of patients currently eligible for the treatment according to the proposed policy commissioning criteria.	This policy replaces and updates the current policies for PBT for children (paediatrics) and TYA for the Overseas Programme.
	In 2018/19 119 paediatric patients and 59 TYA patients were approved for referral for the Proton Overseas programme
	The new policy will increase eligibility for PBT in this age group as it will encompass indications that it was not possible to treat overseas for either clinical reasons. The availability of an NHS PBT service will also mean patients who could not access PBT overseas for non-clinical reasons (e.g. travel restrictions) will now be able to access PBT.
	There will be two NHS PBT Centres. The first became operational from December 2018 and the second will be operational in 2020.
	The capacity plan for the full NHS PBT service is for 330 paediatric patients per annum and 220 TYA. Each NHS PBT centre will go through a capacity ramp-up and it is anticipated full capacity will be reached in 2021-22
	Source: NHS PBT Capacity Plan. Proton Overseas Programme database

A1.3 Age group for which the treatment is proposed according to the policy commissioning criteria.	Other		
	Paediatrics and Teenager & Young Adult (TYA)		
A1.4 Age distribution of the patient population eligible according to the proposed policy commissioning criteria	This policy covers people aged between 0 – 24 (up to 25 th birthday).		
A1.5 How is the population currently distributed geographically?	Unknown		
	 Source: Policy Proposition section 6 Emerging analysis suggests some geographical variance in referral and uptake across England. This suggests that in some regions referral and uptake rates are lower than would expected, however, this data requires further validation. Note: This policy will be adopted by the Devolved Administrations (DAs) of Wales, Scotland and Northern Ireland. Projected patient numbers for the DAs have been included in demand and capacity calculations. 		
A2 Future Patient Population & Demography			
A2.1 Projected changes in the disease/condition epidemiology, such as incidence or prevalence (prior to applying the new policy)	Increasing		
in 2, 5, and 10 years?	Source: Policy Proposition section 6		
A2.2 Are there likely to be changes in demography of the patient population and would this impact on activity/outcomes?	Yes		

	The UK has the second highest growth rate in Western Europe. With growth in population, it is estimated that growth in paediatric and TYA cancers will be 6.45% for 2018 – 2028. This will have a disproportionate impact (increasing) on demand for PBT. Source: Policy Proposition section 6/other			
A2.3 Expected net increase or decrease in the number of patients		Paediatric	TYA	
who will be eligible for the service, according to the proposed service specification commissioning criteria, per year in years 2-5	YR2 +/-	57	11	
and 10?	YR3 +/-	97	73	
	YR4 +/-	27	57	
	YR5 +/-	Steady state	Steady state	
	YR10 +/-	Steady state	Steady state	
Are these numbers in line with ONS growth assumptions for the age specific population? If not please justify the growth assumptions made.	Yes Estimated increa NHS PBT Servic unable to travel Emerging analys geographical va	ase in demand as o ce makes proton th overseas for treatr sis (which needs to riance in referral a some regions refe	ion & Ramp-up Pla commencement an nerapy to more pati ment o be fully validated) nd uptake across E erral and uptake rat	nd development of ents previously suggests some England. This

A3 Activity

Revise existing policy (expand or restrict an existing treatment threshold / Add an additional line of treatment / stage of treatment		
The policy will replace the existing policies for PBT for paediatrics and TYA:		
 Proton Beam Radiotherapy (High Energy) for Paediatric Cancer Treatment – NHS Overseas Programme 		
 Proton Beam Radiotherapy (High Energy) for Teenage and Young Adult Cancer Treatment – NHS Overseas Programme 		
The new policy will expand the number of indications eligible for PBT in the paediatric and TYA age groups.		
119 paediatric patients and 25 TYA patients.		
Source: Proton Overseas Programme – 2018/19 approved referral for the Proton Overseas Programme.		
550		
Planned capacity for NHS PBT Service at full-ramp (21/22):		
- Paediatrics – 330 per annum.		
- TYA – 220 per annum.		
Source: NHS PBT Service Transition & Ramp-up Plan		

A3.4 What is the estimated annual activity associated with the next best alternative comparator pathway for the eligible population? If the only alternative is the existing pathway, please state 'not applicable' and move to A4.	Not applicable
A4 Existing Patient Pathway	
 A4.1 Existing pathway: Describe the relevant currently routinely commissioned: Treatment or intervention Patient pathway Eligibility and/or uptake estimates. 	 There are currently 2 clinical commissioning policies for PBT: Proton Beam Radiotherapy (High Energy) for Paediatric Cancer Treatment Proton Beam Radiotherapy (High Energy) for Teenage and Young Adult Cancer Treatment An application for referral for PBT is made to the National PBT Clinical Panel via the PBT online referral portal. This is a virtual panel consisting of clinical experts from across the country. The panel reviews each application and assess this against the criteria contained in the clinical commissioning policies. If approved, the panel makes a commissioning recommendation that a referral can be made and this is communicated to the referring clinician. The referring clinician will then make a direct referral to an approved treatment centre. Since 2008, 929 paediatric and 219 TYA patients were 'approved for referral'. Approximately 90% of paediatric and 83% of TYA applications are approved for referral. Source: NHS PBT Service Specification; Standard Operating Procedure - Process for applying for Proton Beam Therapy and subsequent treatment centre allocation for eligible patients; Proton Overseas Programme database

A4.2. What are the current treatment access and stopping criteria?	Current access to treatment is via approval for referral through the National PBT Clinical Panel in line with the criteria set out in existing NHS England Clinical Commissioning Policies (see A4.1 above).
 A4.3 What percentage of the total eligible population is expected to: a) Be clinically assessed for treatment b) Be considered to meet an exclusion criteria following assessment c) Choose to initiate treatment d) Comply with treatment e) Complete treatment? 	 a) Paediatric & TYA 100% b) Paediatric 10%, TYA 17% c) Paediatric & TYA estimated 95% d) Paediatric & TYA estimated 100% e) Paediatric & TYA estimated 100% It is important to note that this a complex service covering the radiotherapy element of treatment in group of relatively rare cancers. Estimates are taken from the Proton Overseas Programme. This in itself is problematic as having to access treatment overseas will impact on estimates, especially take-up. Compliance with and completion of treatment rates are high. Source: Proton Overseas Programme
A5 Comparator (next best alternative treatment) Patient Pathwa (NB: comparator/next best alternative does not refer to current pathway but to an	•
 A5.1 Next best comparator: Is there another 'next best' alternative treatment which is a relevant comparator? If yes, describe relevant Treatment or intervention Patient pathway 	No The policy replaces the existing PBT policies for paediatric and TYA for the Proton Overseas Programme which were published in 2015. There is an established care and patient pathway for these patients

Actual or estimated eligibility and uptake	
 A5.2 What percentage of the total eligible population is estimated to: a) Be clinically assessed for treatment b) Be considered to meet an exclusion criteria following assessment c) Choose to initiate treatment d) Comply with treatment e) Complete treatment? 	Not applicable.
A6 New Patient Pathway	
 A6.1 What percentage of the total eligible population is expected to: a) Be clinically assessed for treatment b) Be considered to meet an exclusion criteria following assessment c) Choose to initiate treatment d) Comply with treatment e) Complete treatment? 	Applications (assessment) for PBT are expected to increase in line with population growth, expansions of eligible indications and inclusion of patients previously unable to travel overseas for clinical or social reasons. The number of applications not eligible for treatment is expected to remain similar to those experienced through the Proton Overseas Programme. Uptake, compliance and completion of treatment rates are expected to remain high. With the introduction of the NHS PBT service these rates will be monitored and recorded. a) Paediatric & TYA 100% b) Paediatric 10%, TYA 17% c) Paediatric & TYA estimated 95% d) Paediatric & TYA estimated 100% e) Paediatric & TYA estimated 100% <i>Source: Proton Overseas Programme</i>

A6.2 Specify the nature and duration of the proposed new treatment or intervention.	Time limited
	Treatment will be delivered on an outpatient basis, 5 days per week over a 6-8 week period.
	Source: PBT Service Specification

A7 Treatment Setting

A7.1 How is this treatment delivered to the patient?	Select all that apply:
	Emergency/Urgent care attendance
	Acute Trust: inpatient
	Acute Trust: day patient
	Acute Trust: outpatient
	Mental Health provider: inpatient
	Mental Health provider: outpatient
	Community setting
	Homecare
	Other
	Treatment will be delivered on an out 6-8 week period. Many patients requi

Treatment will be delivered on an outpatient basis, 5 days per week over 6-8 week period. Many patients require other treatment such as chemotherapy concurrent to PBT. For some this will include an acute

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SOUTH Source: PBT Developme	0 BT Centres. The first nester became opera rsity College London ent and will be opera	ational from December 2018 h Hospitals NHS Foundation ational in 2020.	
es nere will be two NHS PE bundation Trust, Manch nd the second at Univer ust is under developme burce: PBT Developme	BT Centres. The first nester became opera rsity College London ent and will be opera	ational from December 2018 h Hospitals NHS Foundation ational in 2020.	
nere will be two NHS PE bundation Trust, Manch nd the second at Univer ust is under developme burce: PBT Developme	nester became opera rsity College London ent and will be opera	ational from December 2018 h Hospitals NHS Foundation ational in 2020.	
Yes There will be two NHS PBT Centres. The first at The Christie NHS Foundation Trust, Manchester became operational from December 2018 and the second at University College London Hospitals NHS Foundation Trust is under development and will be operational in 2020. Source: PBT Development Agreement. NHS Service Contract – PBT The Christie			
Select all that apply:			
	nitoring *		
atient level contract me	onitoring		
atient level drugs data	set		
atient level devices da	taset		
	ggregate Contract Mor atient level contract m atient level drugs data atient level devices da	elect all that apply: ggregate Contract Monitoring * atient level contract monitoring atient level drugs dataset atient level devices dataset	

	Devices supply chain reconciliation dataset			
	Secondary Usage Service (SUS+)			
	Mental Health Services DataSet (MHSDS)			
	National Return**			
	Clinical Database**	\boxtimes		
	Other**	\boxtimes		
	**If National Return, Clinical database or other selected, please specify: RTDS Further data collection – referrals, outcomes will be collected by the NHS PBT service.			
A8.2 Specify how the activity related to the new patient pathway	Select all that apply:			
will be identified.	OPCS v4.8			
	ICD10	\boxtimes		
	Treatment function code			
	Main Speciality code			
	HRG			
	SNOMED			
	Clinical coding / terming methodology used by clinical profession			
	ICD03/ICC3 – NCRAS Diagnosis coding			

A8.3 Identification Rules for Drugs: How are drug costs captured?	Not applicable
A8.4 Identification Rules for Devices: How are device costs captured?	Not applicable
A8.5 Identification Rules for Activity: How are activity costs captured?	Already correctly captured by an existing specialised service line (NCBPS code within the PSS Tool NCBPS01B Proton Beam Therapy
A9 Monitoring	
A9.1 Contracts Specify any new or revised data flow or data collection requirements, needed for inclusion in the NHS Standard Contract Information Schedule.	Yes - other Specific analytical information, monitoring and reporting is required for the following: - Open-book accounting (finance and activity) - Activity - Quality Indicators - Outcomes - Clinical - Patient reported outcomes
A9.2 Excluded Drugs and Devices (not covered by the Zero Cost Model) For treatments which are tariff excluded drugs or devices not covered by the Zero Cost Model, specify the pharmacy or device	Not applicable.

monitoring required, for example reporting or use of prior approval systems.	
A9.3 Business intelligence Is there potential for duplicate reporting?	No
A9.4 Contract monitoring Is this part of routine contract monitoring?	Yes Monthly contract meetings are being/will be held with each NHS PBT provider Trust
A9.5 Dashboard reporting Specify whether a dashboard exists for the proposed intervention?	No Detailed Quality Indicators have been developed for this service. These will be included in section 6 of the standard NHS Contract agreed for the service.
A9.6 NICE reporting Are there any directly applicable NICE or equivalent quality standards which need to be monitored in association with the new policy?	No

Section B	- Service Impact
B1 Service Organisation	
B1.1 Describe how the service is currently organised? (i.e. tertiary centres, networked provision etc.)	Patients whose conditions are eligible for PBT under current clinical commissioning policy and are able to travel are treated overseas in centres in the USA and Germany.
	Patients whose conditions are not eligible or unable to travel are treated with conventional radiotherapy within the NHS.
	Source: Proton Overseas Programme
B1.2 Will the proposition change the way the commissioned service is organised?	Yes
	The majority of curative paediatric radiotherapy (excluding total body irradiation, palliative radiotherapy and whole brain radiotherapy for leukaemia) will be undertaken at the NHS PBT centres, thus impacting significantly on the current NHS paediatric radiotherapy service. Since its introduction in 2008, the proton overseas programme has already had a very significant impact on the activity of paediatric radiotherapy in existing paediatric RT centres.
	There will be a 'transitional phase' as the NHS PBT service 'ramps up'. This is estimated to be until around 2021/22 when the NHS PBT Service will be at full clinical and technical capacity.
B1.3 Will the proposition require a new approach to the organisation of care?	<u>Other</u>
	The stakeholder comments raised on the impact of PBT on paediatric radiotherapy and cancer services are important and noted by NHS England.

Over the last 18months NHS England, through a subgroup of the Radiotherapy CRG, has been working with experts in the field to understand and quantify the potential impact of PBT on paediatric radiotherapy services. and are noted by NHS England.
NHS England will ensure that an update on progress in determining the next steps will be communicated with stakeholders within three months.

B2 Geography & Access

B2.1 Where do current referrals come from?	Select all that apply:	Select all that apply:	
	GP]
	Secondary care	\boxtimes	
	Tertiary care	\boxtimes	
	Other		
B2.2 What impact will the new policy have on the sources of referral?	Referrals are made via	Specialist C	ancer Centres
B2.2 What impact will the new policy have on the sources of referral?		rke are alrea	dy established through the Proton
	Overseas Programme		
B2.3 Is the new policy likely to improve equity of access?	Increase		

The new policy will allow for the expansion of clinical indications eligible for PBT.
Source: Equalities Impact Assessment

B2.4 Is the new policy likely to improve equality of access and/or outcomes?	IncreaseSee B2.3 above. An expected benefit of PBT is that patient outcomes, particularly the reduction in late side effects, increasing local control and cure rates will improve significantly.Source: Equalities Impact Assessment
B3 Implementation	
B3.1 Will commissioning or provider action be required before implementation of the proposition can occur?	No action required NHS PBT Service Specification was published in 2018 and relevant contracts signed.
B3.2 Time to implementation: Is a lead-in time required prior to implementation?	Yes - go to B3.3 The NHS PBT Service will go through a period of clinical and capacity ramp-up. Until full ramp-up is complete, estimated 2021/22, some patients may still be referred overseas for treatment. Contracts are in place with overseas providers to cover this period.
B3.3 Time to implementation: If lead-in time is required prior to implementation, will an interim plan for implementation be required?	<u>No - go to B3.4</u>

B3.4 Is a change in provider physical infrastructure required?	Yes
	There will be two NHS PBT Centres. The first at The Christie NHS Foundation Trust, Manchester became operational from December 2018 and the second at University College London Hospitals NHS Foundation Trust is under development and will be operational in 2020
B3.5 Is a change in provider staffing required?	Yes
	Each NHS PBT Centre has or will need to recruit specialist clinical and support staff. Each centre has a workforce development plan which has been agreed with the PBT Programme Board.
B3.6 Are there new clinical dependency and/or adjacency requirements that would need to be in place?	Yes
	As per the published NHS PBT Service specification 'undertaking PBT within a major cancer centre, linked to an academic oncology and medical physics framework is essential'. Dependency and adjacencies are outlined in the service specification. Specifically many patients will be receiving concurrent treatment for their condition such as chemotherapy which will need to be provided at or close to the PBT centre, e.g. chemotherapy for paediatric patients attending The Christie PBT centre will be provided at the Royal Manchester Children's Hospital.
B3.7 Are there changes in the support services that need to be in place?	Yes
	Due to the nature of the treatment (typically outpatient 5 days per week over a 6-8 week period) and locations of the centres, the majority of patients will need to be away from home for long periods and therefore comprehensive accommodation and support services will need to be in place.

B3.8 Is there a change in provider and/or inter-provider governance required? (e.g. ODN arrangements / prime contractor)	<u>No</u>		the NHS DBT convid	o providor Truoto	
	The Christie a		the NHS PBT service		
B3.9 Is there likely to be either an increase or decrease in the	Please comp	Please complete table:			
number of commissioned providers? If yes, specify the current and estimated number of providers required in each region	Region	Current no. of providers	Future State expected range	Provisional or confirmed	
	North	1	1	<u>C</u>	
	Midlands & East	0	0	Not applicable.	
	London	0	1	<u>C</u>	
	South	0	0	Not applicable.	
	Total	1	2	Not applicable.	
	Foundation T and the secon Trust is under	rust, Manchester	College London Hosp d will be operational	from December 2018 bitals NHS Foundation	

B3.10 Specify how revised provision will be secured by NHS England as the responsible commissioner.	Select all that apply:		
	Publication and notification of new policy		
	Market intervention required		
	Competitive selection process to secure increase or decrease provider configuration		
	Price-based selection process to maximise cost effectiveness		
	Any qualified provider		
	National Commercial Agreements e.g. drugs, devices		
	Procurement		
	Other	\boxtimes	
	The Development Agreement for the NHS PBT service w DH, NHS England and both Trusts in July 2015. The Development commits NHS England to contract with both minimum of 20 years. A 10 year NHS Standard Contract with The Christie and it is anticipated a similar contract w UCLH in 2019/20.	velopment Trusts for a t has been sig	
B4 Place-based Commissioning			
B4.1 Is this service currently subject to, or planned for, place- based commissioning arrangements? (e.g. future CCG lead,	No		

C1 Tariff/Pricing

C1.1 How is the service contracted and/or charged? Only specify for the relevant section of the patient pathway	Select all	Select all that apply:			
		Not separately charged – part of local or national tariffs			
	Drugs	Excluded from tariff – pass through			
		Excluded from tariff - other			
		Not separately charged – part of local or national tariffs			
	Devices	Excluded from tariff (excluding ZCM) – pass through			
		Excluded from tariff (excluding ZCM) – other			
		Via Zero Cost Model			
		Paid entirely by National Tariffs			
		Paid entirely by Local Tariffs			
		Partially paid by National Tariffs			
	Activity	Partially paid by Local Tariffs			
		Part/fully paid under a Block arrangement			
		Part/fully paid under Pass-Through arrangements			
		Part/fully paid under Other arrangements			

C1.2 Drug Costs Where not included in national or local tariffs, list each drug or combination, dosage, quantity, list price including VAT if applicable and any other key information e.g. Chemotherapy Regime. NB discounted prices or local prices must not be included as these are subject to commercial confidentiality and must not be disclosed.	Not applicable
C1.3 Device Costs Where not included in national or local tariff, list each element of the excluded device, quantity, list or expected price including VAT if applicable and any other key information. NB: Discounted prices or local prices must not be included as these are subject to commercial confidentiality and must not be disclosed.	Not applicable
C1.4 Activity Costs covered by National Tariffs List all the HRG codes, HRG descriptions, national tariffs (excluding MFF), volume and other key costs (e.g. specialist top up %)	Not applicable
C1.5 Activity Costs covered by Local Tariff List all the HRGs (if applicable), HRG or local description, estimated average tariff, volume and any other key costs. Also indicate whether the Local Tariff(s) is/are newly proposed or established and if newly proposed how is has been derived, validated and tested.	Not applicable

C1.6 Other Activity Costs not covered by National or Local Tariff Include descriptions and estimates of all key costs.	 The Development Agreement with the two provider Trusts and states that in the first five years after service commences at UCLH payments will be made on a 'block basis' for actual costs validated by NHS England as covered by an open book accounting period. (Note: This period will be five years after start of service at UCLH and therefore seven years at The Christie). This arrangement has been confirmed in the signed NHS Standard Service Contract with The Christie. During this period costs will be monitored through open-book accounting which in turn will be used to calculate the tariff for future years at which point it will be decided if there should be a national or local tariff.
C1.7 Are there any prior approval mechanisms required either during implementation or permanently?	Yes A referral pathway and portal that will ensure referrals are made within clinical commissioning policy and directed to a multi-disciplinary team (MDT) within each Trust.

C2 Average Cost per Patient		
C2.1 What is the estimated cost per patient to NHS England, in years 1-5, including follow-up where required?	The indicative cost per patient is c£43.7k. This is based on the financial modelling undertaken for the PBT Service Specification (1737) and is the anticipated cost once the service has fully ramped up (expected to be 2021/22).	
Are there any changes expected in year 6-10 which would impact the model?		
C3 Overall Cost Impact of this Policy to NHS England		
C3.1 Specify the budget impact of the proposal on NHS England in relation to the relevant pathway.	<u>Cost neutral</u>	
	The patients covered by this policy are already included in the total number of patients set out in the PBT Service Specification (1737) and therefore do not represent an increase in overall patient numbers or costs.	
C3.2 If the budget impact on NHS England cannot be identified set out the reasons why this cannot be measured.	Not applicable.	
C3.3 If the activity is subject to a change of commissioning responsibility, from CCG to NHS England, has a methodology for the transfer of funds been identified, and calculated?	Not applicable.	

C4 Overall cost impact of this policy to the NHS as a whole	
C4.1 Specify the budget impact of the proposal on other parts of the NHS.	Budget impact for CCGs: <u>No impact on CCGs</u>
	Budget impact for providers:
	<u>Cost neutral</u>
	An Open Book method of reimbursement is being operated until five years after the opening of the service at UCLH to ensure there is no budgetary impact to Trusts during the ramp up stage of the service development.
C4.2 Taking into account responses to C3.1 and C4.1, specify the budget impact to the NHS as a whole.	Cost neutral
	The costs relating to this policy are all covered with the PBT Service Specification financial modelling (1737)
C4.3 Where the budget impact is unknown set out the reasons why this cannot be measured	Not applicable.
C4.4 Are there likely to be any costs or savings for non-NHS commissioners and/or public sector funders?	No
	Costs of treatment are solely within the NHS.
C5 Funding	

C5.1 Where a cost pressure is indicated, state known source of funds for investment, where identified, e.g. decommissioning less clinically or cost-effective services.	Not applicable
C6 Financial Risks Associated with Implementing this Policy	
C6.1 What are the material financial risks to implementing this policy?	The financial risks associated with the new PBT service were covered within the PBT Service Specification (1737) and original Full Business Case.
	The main risk is that the ramp up of capacity takes longer than planned as NHS England will need to cover the fixed costs associated with the new service whilst continuing to send patients overseas. Current indications are that ramp-up is progressing to plan.

C6.2 How can these risks be mitigated?	A transition and ramp-up plan is in place with the NHS PBT providers to ensure the switch from overseas provision to NHS provision.
C6.3 What scenarios (differential assumptions) have been explicitly tested to generate best case, worst case and most likely total cost scenarios?	The patient cohort covered by this policy are covered in the overall financial modelling of the new PBT service, as set out in the service specification 1737. The models tested included a fully ramped up baseline of 1,300 and 1,500 patients.
C6.4 What scenario has been approved and why?	1,300 patients per annum has been agreed as the most likely scenario and provides for a value for money, affordable, and sustainable service. This was agreed between NHS England and both Trusts and is as set out in the signed Development Agreement.
C7 Value for Money	
C7 Value for Money C7.1 What published evidence is available that the treatment is cost effective as evidenced in the evidence review?	There is no published evidence of cost-effectiveness
C7.1 What published evidence is available that the treatment is	There is no published evidence of cost-effectivenessThe current service provision involves sending patients either to the USA. or to Europe. The average cost per patient exceeds £130k. At full clinical and technical capacity of 1,300 patients (including adults), it is expected that the cost of treatment in the NHS service will be c£43.7k. The true impact will not be quantified until both Trusts are at full operational and technical capacity.
C7.1 What published evidence is available that the treatment is	The current service provision involves sending patients either to the USA. or to Europe. The average cost per patient exceeds £130k. At full clinical and technical capacity of 1,300 patients (including adults), it is expected that the cost of treatment in the NHS service will be c£43.7k. The true impact will not be quantified until both Trusts are at full operational and

	Available pricing data suggests the treatment is lower cost compared to current/comparator treatment	\boxtimes
	Available clinical practice data suggests the new treatment has the potential to improve value for money	
	Other data has been identified	
	No data has been identified	
	The data supports a high level of certainty about the impact on value	
	The data does not support a high level of certainty about the impact on value	
	Comparison with costs per patient currently being paid through the Proton Overseas Programme and tested against the procurement for interim PBT service provision in 2017.	or

C8 Cost Profile

C8.1 Are there non-recurrent capital or revenue costs associated with this policy?	<u>No</u>
	Any non-recurring costs will be captured in the open book accounting period.
C8.2 If yes, confirm the source of funds to meet these costs.	Not applicable

The full integrated impact assessment should be used for all clinical commissioning policies and for policy statements which are proposing a not for routine commissioning position. The rapid impact assessment template should be used for urgent policy statements and for policy statements which are proposing routine commissioning