

## **SCHEDULE 2 – THE SERVICES**

## A. Service Specifications

1.	Service name	Fertility preservation service for service users with testicular tissue who are at high/very high risk of infertility and cannot store sperm.
2.	Service specification number	1867-230902
3.	Date published	18/09/2023
4.	Accountable Commissioner	NHS England england.npoc-womenandchildren@nhs.net

5.	Population and/or geography to be served
5.1	Population Covered
	All ages
	This service specification covers the provision of fertility preservation services
	for service users with testicular tissue who are at high/very high risk of infertility
	and endocrine failure and cannot store sperm.
	It is one of three convice on ecifications that describe on integrated single fortility.
	It is one of three service specifications that describe an integrated single remitive
	preservation and restoration programme.
	The other two service specifications cover: -
	<ul> <li>Fertility preservation for service users with ovarian tissue who are at</li> </ul>
	high/very high risk of infertility and cannot eggs
	<ul> <li>Fertility and endocrine restoration using cryopreserved ovarian tissue</li> </ul>
	The factility and an descine contaction consists an efficientian descends include the
	The fertility and endocrine restoration service specification does not include the
	currently clinically available for males
	currently clinically available for males.
	There are no lower and upper age limit criteria contained in this specification
	and the eligibility criteria is based on physiological potential of the testicular
	tissue.
5.2	Minimum population size
6.	Service aims and outcomes
6.1	Service aims



	The aims of the service are to: -			
	Provide fertility preservation treatment for service users with testicular			
	tissue who are at high or very high risk of reproductive and endocrine			
		failure and who cannot store sperm.		
	Prov	/ide spec	alist fertility expertise and advice.	
		ide surge	ery to remove testicular tissue.	store and enventoeenve
	PIOV     tosti	/ide a Tis	sue Establishment (TE) that can s	store and cryopreserve
		ura comp	ue. Jianaa with tha Human Tiasua Aut	tharity Pagulations
	• Elisi	ure comp	vervice delivery is in line with natio	and international
		elines an	d established best practice	
	guiu			
6.2	Outcomes			
•	NHS Outco	mes Fra	mework Domains & Indicators	
	Domain 1	Prever	nting people from dying premature	ely
	Domain 2	Enhan	cing quality of life for people with	long-term
		conditi	ons	
	Domain 3	Helping	g people to recover from episodes	s of ill-health or
		followir	ng injury	
	Domain 4	Ensuri	ng people have a positive experie	nce of care
	Domain 5	Treatin	ig and caring for people in safe er	vironment and
		nrotoct	ting them trom avoidable harm	
		protect		
	Reference	Domain	Rationale	Indicator
	Reference	Domain	Rationale	Indicator
	Reference FPS-Ov01	Domain 4,5	Rationale To understand the proportion of	Indicator Proportion of service users
	Reference FPS-Ov01	Domain 4,5	Rationale To understand the proportion of service users receiving tissue	Indicator Proportion of service users having treatment for a
	Reference FPS-Ov01	Domain 4,5	Rationale         To understand the proportion of service users receiving tissue cryopreservation	Indicator Proportion of service users having treatment for a malignant and non- malignant condition that
	Reference FPS-Ov01	Domain 4,5	Rationale         To understand the proportion of service users receiving tissue cryopreservation	Indicator Proportion of service users having treatment for a malignant and non- malignant condition that places them at high/very
	Reference FPS-Ov01	Domain 4,5	Rationale         To understand the proportion of service users receiving tissue cryopreservation	Indicator Proportion of service users having treatment for a malignant and non- malignant condition that places them at high/very high risk of infertility who
	Reference FPS-Ov01	Domain 4,5	Rationale         To understand the proportion of service users receiving tissue cryopreservation	Indicator Proportion of service users having treatment for a malignant and non- malignant condition that places them at high/very high risk of infertility who receive testicular tissue envorcementation
	Reference FPS-Ov01	Domain 4,5	Rationale         To understand the proportion of service users receiving tissue cryopreservation	Indicator Proportion of service users having treatment for a malignant and non- malignant condition that places them at high/very high risk of infertility who receive testicular tissue cryopreservation
	Reference FPS-Ov01	Domain 4,5	Rationale         To understand the proportion of service users receiving tissue cryopreservation	Indicator Proportion of service users having treatment for a malignant and non- malignant condition that places them at high/very high risk of infertility who receive testicular tissue cryopreservation
	Reference FPS-Ov01	Domain 4,5 e will com	Rationale To understand the proportion of service users receiving tissue cryopreservation	Indicator Proportion of service users having treatment for a malignant and non- malignant condition that places them at high/very high risk of infertility who receive testicular tissue cryopreservation
	Reference FPS-Ov01 The service national Sp the quality	Domain 4,5 e will com pecialised metrics a	Rationale         To understand the proportion of service users receiving tissue cryopreservation         plete/upload data for all listed qual Services Quality Dashboard (SS nd their descriptions including the	Indicator Proportion of service users having treatment for a malignant and non- malignant condition that places them at high/very high risk of infertility who receive testicular tissue cryopreservation ality metrics to the QD). The full version of e numerators and
	Reference FPS-Ov01	Domain 4,5 e will com pecialised metrics a prs can b	Rationale         To understand the proportion of service users receiving tissue cryopreservation         plete/upload data for all listed qual Services Quality Dashboard (SS nd their descriptions including the e accessed at	Indicator Proportion of service users having treatment for a malignant and non- malignant condition that places them at high/very high risk of infertility who receive testicular tissue cryopreservation ality metrics to the QD). The full version of a numerators and
	Reference FPS-Ov01 The service national Sp the quality denominate https://www	Domain 4,5 e will com becialised metrics a ors can be v.england	Rationale To understand the proportion of service users receiving tissue cryopreservation plete/upload data for all listed qua Services Quality Dashboard (SS nd their descriptions including the e accessed at I.nhs.uk/commissioning/spec-	Indicator Proportion of service users having treatment for a malignant and non- malignant condition that places them at high/very high risk of infertility who receive testicular tissue cryopreservation ality metrics to the QD). The full version of a numerators and
	Reference FPS-Ov01 The service national Sp the quality denominate https://www services/np	Domain 4,5 e will com becialised metrics a brs can be v.england bccrg/spe	Rationale         To understand the proportion of service users receiving tissue cryopreservation         plete/upload data for all listed qual Services Quality Dashboard (SS and their descriptions including the e accessed at Linhs.uk/commissioning/spec-cdashboards/	Indicator Proportion of service users having treatment for a malignant and non- malignant condition that places them at high/very high risk of infertility who receive testicular tissue cryopreservation ality metrics to the QD). The full version of a numerators and
	Reference FPS-Ov01 The service national Sp the quality denominate https://www services/np	Domain 4,5 e will com becialised metrics a ors can be v.englanc	Rationale         To understand the proportion of service users receiving tissue cryopreservation         oplete/upload data for all listed qual Services Quality Dashboard (SS and their descriptions including the e accessed at Inhs.uk/commissioning/spec-cdashboards/	Indicator Proportion of service users having treatment for a malignant and non- malignant condition that places them at high/very high risk of infertility who receive testicular tissue cryopreservation ality metrics to the QD). The full version of a numerators and
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<u>7.</u> 7.1	Reference FPS-Ov01 The service national Sp the quality denominate https://www services/np Service de Service me At birth, the cells, which	Domain 4,5 e will com becialised metrics a brs can be v.englanc bccrg/spe escription odel e testicles n after puis	Rationale         To understand the proportion of service users receiving tissue cryopreservation         oplete/upload data for all listed quaters         oplete/upload data for all listed	Indicator Proportion of service users having treatment for a malignant and non- malignant condition that places them at high/very high risk of infertility who receive testicular tissue cryopreservation ality metrics to the QD). The full version of a numerators and Ils (SSCs) and Leydig tosterone respectively.
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significant numbers of SSCs and Leydig cells leading to premature gonadal failure, infertility, and endocrine dysfunction. In some cases, this will occur before the patient has reached puberty and in advance of being able to store sperm.
For service users whose treatment puts them at high/very high risk of reproductive and endocrine failure and unable to freeze/store sperm, testicular tissue cryopreservation (TTC) is the only treatment available to preserve fertility and endocrine function.
TTC requires a surgical procedure under general anaesthetic to remove healthy tissue which is then cryopreserved and stored at a very low temperature to preserve the SSCs and Leydig cells within the tissue for use in adulthood to restore fertility and endocrine function.
Hub and Spoke/Tissue Establishment Model The service will be delivered through an integrated hub and spoke model arrangement. The Hub is a hospital based clinical service and provides a fertility preservation programme, coordination of service provision across services, leadership and advice. The Hub also participates in and receives expert clinical and technical advice from a National Expert Group.
This model centralises the specialist fertility expertise in the Hub whilst enabling testicular tissue collection surgery to take place in the service user's local surgical treatment centre (Spoke). The tissue is then processed, cryopreserved, and stored at an appointed TE licenced by the Human Tissue Authority. This model is similar to fertility preservation programmes operating in German speaking countries (FertiPROTEKT), Denmark and Nordic Countries (Nordfertil) and the Oncofertility Consortium in the USA.
<ul> <li>The Hub</li> <li>Have a named Programme Lead who is responsible for ensuring compliance of the service across the Hub/Spoke/TE services in accordance with the service specification standards.</li> <li>Put in place Service Level Agreements (SLAs) /Third Party Agreements (TPA) with the Spoke site and TE and agree and monitor quality assurance measures across the Hub/Spoke services.</li> <li>Participate in a National Expert Group made up of experts from across the UK covering fertility, onco-fertility, oncology, haematology, endocrinology, psychology, genetics and ethics.</li> <li>The Hub panel will oversee the fertility preservation programme and monitor quality assurance between Hub/Spoke and Hub/TE services.</li> <li>Provide MDT advice on complex cases and on auto-transplantation.</li> </ul>
 service users and/or their parents/ person with parental responsibility (PPR). This will include the development and update of fertility



	information leaflets/video /website for service users and clinicians on all aspects of fertility and treatment options
	Aspects of fertility and treatment options.
•	Develop and maintain a hub Quality Management System which will include details of Hub and Speke convices menogement and
	include details of Hub and Spoke services management and
	governance arrangements which will be detailed in shared standard
	in the Link (Spake and TE (SLA))/(TDA). These will sever all areas within
	the netionst pethway and will demonstrate compliance with the Human
	Tionus Authority Human Application License for the appealisted Tionus
	Establishment
•	Ensure all service users, parents and PPR have adequate information to
	give informed consent for the storage of testicular tissue.
•	Store data on all referrals and tissue procurement episodes and report
	data as required to NHSE and other regulatory authorities.
•	Ensure that serious adverse events/ reactions associated with the
	fertility preservation treatment are reported by Spoke sites to the Hub
	and that these are notified to the TE.
•	Have in place arrangements to enable the reconsenting of service users
	at the age of 18 years for ongoing storage of testicular tissue if testicular
	tissue consent was originally given by a parent or person with parental
	responsibility.
•	Have in place arrangements to enable contact with service users and
	Spoke services to ensure service users are aware of the tissue stored
	and to collect clinically relevant information.
•	Collect data on deceased service users and pass this information onto
	the LE so that the LE can ensure that tissue is either disposed or made
	available for research as per the patient's pre-collection or over 18-year-
	Old Consent.
•	with the certification standards and HTA regulations and to
	onsure that any areas of concern are addressed, and corrective and
	preventative plans are completed and effective
•	Have in place a system for obtaining patient feedback to inform service
•	evaluation and development.
•	Ensure that all patient data complies with the United Kingdom Data
	Protection Action (UKDPA) regulations.
•	Hold a register of all relevant Hub and Spoke personnel detailing their
	roles and delegated responsibilities, including a named individual trained
	to undertake fertility preservation counselling.
•	Use their job planning, appraisal, and revalidation system to ensure that
	all members of the team are appropriately trained and competent to
	carry out their designated roles.
•	Coordinate with adult fertility services providing fertility preservation
	treatment, auto-transplantation, menopause, and counselling services to
	ensure adequate transitional care arrangements
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The Tissues Establishment (Cryopreservation services)
Must operate in compliance with the HTA Quality and Safety Standards
and hold a Human Tissue Authority Human Application (HTA HA) Sector
Licence for procurement, processing, testing, storage, distribution, and
disposal of testicular tissue.
Must have the capacity, supported by a capacity plan, that details how
the TE will manage the variable clinical demand such that cases are not
delayed or deferred and fertility preservation care can be delivered to
coordinate with all aspects of the patient's primary treatment and
Must have in place quality accurance measures and acception down
• Must have in place quality assurance measures and associated key performance indicators to ensure compliance with all parts of the TE
Preparation Processing Dossier (PPD). These will be required by the
HTA for regular inspections and should be shared with the HUB as
detailed in the SLA/TPA.
<ul> <li>Must have third party agreements in place with Spoke centres (third</li> </ul>
party sites) for the delegation of procurement activities in compliance
with HTA Licence regulations.
Must have access to a dedicated courier for transfer of tissue samples in
a traceable and compliant way as detailed in the PPD.
• Must have capacity in the cryostorage tarks to quarantine samples until the mandatory HTA virology testing is reported and to divide service
user samples between separate liquid nitrogen tanks, to mitigate the risk
of total loss of a service user's tissue due to liquid nitrogen tank failure.
• Must ensure that all patient data complies with the UKDPA regulations.
Must have arrangements in place to use their job planning, appraisal,
and revalidation processes to ensure that all members of the team are
appropriately trained and competent to carry out their designated roles.
Must have arrangements in place to monitor quality control of     processing between technicians and over time to ensure that the quality
of tissue stored is maintained
<ul> <li>Will report quality measures to the Hub site and discuss them with the</li> </ul>
Hub at an annual review meeting.
• Must have arrangements in place to keep patient records/data to ensure
traceability for a minimum of 30 years after clinical use or disposal of
tissue, in an appropriate and readable storage medium (including an
electronic format) as per HTA standards.
Spoke Centres (local surgical services)
The Spoke Centre:
Will have a nominated named Clinical Lead who is responsible for
ensuring compliance with the requirements set out in the SLA with the
Hub and the TE TPA, document control and Spoke Centre standard
operating procedures.



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	Will ensure that all service users have fertility risk discussed and     recorded as part of the primary treatment planning MDT
	recorded as part of the primary treatment planning MDT.
	<ul> <li>Will, as part of the service user's treatment planning process, discuss in outline fertility risk and potential preservation options with PPR and where appropriate the service user.</li> </ul>
	Will, if storage of sperm is not appropriate, the Spoke Site will refer
	service users who wish to discuss fertility preservation and potential
	provide detailed information and arrange consultations with the service users.
	Will, where TTC as fertility preservation treatment is agreed to be
	appropriate, the Hub and Spoke sites and TE will coordinate care and
	surgery times.
	Will, whenever possible, arrange surgery for testicular tissue collection
	under the same general anaesthetic as other surgical procedures (such
	as central venous line insertion, gastrostomy, bone marrow aspirate).
	<ul> <li>Will ensure that consent for fertility preservation treatment involving</li> </ul>
	storage of testicular tissue has been taken following consultation with a
	named person on the Hub/Spoke Consent Log prior to surgery.
	<ul> <li>Must have a named surgeon responsible for carrying out surgery to</li> </ul>
	remove the testicular tissue. The lead surgeon must be listed in the
	Hub/Spoke delegation log.
	Must ensure that there is a named individual trained in the requirements     of the HTA to ensure that the consent form for testicular tissue
	collection processing and storage is available and has been signed by
	the service user or PPR.
	Must have a named person responsible for the coordination and liaison
	with the TE to collect the Tissue Box from a dedicated courier service
	pre- and post-surgery. The named person will be responsible for
	handling the testicular tissue in theatre, packaging of the tissue,
	completion of all essential paperwork and the return of the testicular
	tissue to the courier for transport to the TE.
	• Will be required to collect pre and post tissue clinical data for submission
	to the Hub and participate in audit exercises and the sharing of audit
	reports as agreed between the Hub and the Spoke Centre.
	• INJUST Ensure that all patient data complies with the UKDPA regulations.
	Will report serious adverse events or reaction (SAE/R) associated with     testigular tissue collection to the Hub as seen as identified. The Hub will
	inform the TF to allow all parties to fulfil their legal requirements
	<ul> <li>Must have in place arrangements for obtaining patient feedback to</li> </ul>
	inform service evaluation and development.
	Must use job planning, appraisal, and revalidation processes to ensure
	that all members of the team are appropriately trained and competent to
	fulfil their designated roles.







tissue in the event of service user's death or if the service user no longer plans to use the tissue.
Where service users are too young to provide their own consent, it is a person with parental responsibility who will provide consent on behalf of the patient.
The consent from the person with parental responsibility must be obtained voluntarily with full disclosure of information and will therefore be deemed both appropriate and ethical. The process of informed consent is dynamic, ongoing and should be adapted as new information becomes available.
Once the patient has reached adulthood, and has gained capacity to consent for themselves, they should be counselled, and consent should be sought for the ongoing storage or removal from storage of their testicular tissue.
Service Eligibility and Exclusion Criteria
TTC requires the removal of healthy tissue for storage and potential usage in the future. This treatment is only appropriate for those service users where the risk of loss of testicular function and resultant infertility exceeds 50% (i.e., where storage of tissue gives the service user a greater chance of future fertility than leaving the tissue in situ.) The thresholds for high/very high risk of infertility acknowledges that success rates (defined as live births) for all types of fertility preservation are less than 100%. Infertility risk thresholds within this service specification are in line with the Children's Cancer and Leukaemia Onco-Fertility Guidelines for patients receiving chemotherapy and radiotherapy. The service will be informed by similar guidelines for other service users and will rely upon diagnostic expert advice to the Hub and the National Expert Group.
<ul> <li>Eligibility criteria</li> <li>service users who cannot store sperm whose treatment places them at a high* or very high* risk of infertility.         <ul> <li>high risk* (60-80%) tissue storage gives best chance of future fertility.</li> <li>very high risk* (&gt;80%)</li> </ul> </li> </ul>
OR
<ul> <li>service users undergoing total orchidectomy. AND</li> </ul>
<ul> <li>who must be medically fit for fertility preservation surgery under general anaesthesia AND</li> </ul>
<ul> <li>not in reproductive failure and whose testicular tissue, has a physiological potential to ensure sufficient reserve for future use.</li> </ul>
Exclusion criteria
Service users not included in the service specification are those:

• who can successfully store sperm



	<ul> <li>who are at low** or medium** risk of infertility as defined by international quidelines and peer reviewed tools</li> </ul>
	<ul> <li>low risk** (&lt;10%: i.e., in line with the background population</li> </ul>
	Infertility risk), modium right** (10,60% - ticque in aitu aives the best abance of
	future fertility)
	- who are in reproductive failure with testion for tissue that looks the
	who are in reproductive failure with testicular tissue that lacks the physiological potential to ensure sufficient reserve for future use
	<ul> <li>where TTC could delay their primary treatment and cause detrimental</li> </ul>
	harm
	<ul> <li>where surgery or a general anaesthetic would carry undue risk</li> </ul>
	Transition
	All healthcare services are required to deliver developmentally appropriate
	healthcare to service users and families. Children and young people with
	ongoing healthcare needs may present direct to adult services or may be
	Transition is defined as a 'purposeful and planned process of supporting young
	people to move from children's to adults' services. Poor planning of transition
	and transfer can result in a loss in continuity of treatment, service users being
	lost to follow up and disengagement, poor self-management, and inequitable
	children's NHS services in line with what they are responsible for plan
	organise and implement transition support and care (for example, holding joint
	annual review meetings with the child/young person, their family/carers, the
	children's and adult service). This should ensure that young people are equal
	partners in planning and decision making and that their preferences and
	Wisnes are central throughout transition and transfer. NICE guidelines
	13-14 at the latest, or as developmentally appropriate and continue until the
	young person is embedded in adult services. This service covers children and
	adults and therefore addresses all transition needs of service users.
73	Clinical Networks
1.0	There is a requirement for providers of this service to comply with the
	provisions of Schedule 2A (Clinical Networks) of the NHS Standard Contract
	2022/23 The Particulars. This includes meeting the requirements of the
	relevant Specialised Services Clinical Network Specification.
7.4	Essential Staff Groups
	The Hub
	• Fertility Preservation Programme Lead responsible for the delivery of the
	service across the Hub/Spoke services and nominated deputy.
	Specialist fertility expert     Description and young adult appelogy/beamstalegy appeloty to the state
	Faediatric and young adult oncology/naematology consultant     Consultant productric ourgoon
	Consultant paediating surgeon



	<ul> <li>Consultant in reproductive medicine/fertility/gynaecology</li> </ul>
	<ul> <li>Consultant endocrinologist</li> </ul>
	<ul> <li>Clinical nurse specialist/key worker</li> </ul>
	<ul> <li>Programme administrative coordinator and deputy</li> </ul>
	Data manager
	Psychologist/counsellor
	Ethicist as required.
	Geneticist
	National Expert Group – drawn from Hub/Spoke site and specialty
	experts.
	Clinical Lead/Fertility experts from Hub sites, spoke sites and auto-
	transplant sites.
	<ul> <li>Specialist and onco-fertility experts</li> </ul>
	Endocrinologist
	<ul> <li>Experts from Clinical Reference Groups/fertility services where patients are deemed to be at high risk of infertility</li> </ul>
	Clinical nurse specialist representative from the Hub site
	<ul> <li>Patient and public voice representative</li> </ul>
	The Tissue Establishment
	<ul> <li>HTA designated Individual and deputy.</li> </ul>
	HTA licence holder contact
	Quality manager
	Technician(s) trained in processing and cryopreservation of ovarian and
	testicular tissue.
	<ul> <li>Technician (s) trained in thawing cryopreserved tissue</li> </ul>
	Consultant histopathologist
	Consultant microbiologist
	Molecular biology and genetic expertise to assess safety of tissue
	Administrative support
	The Spoke Centres
	<ul> <li>Lead consultant responsible for the fertility preservation treatment</li> </ul>
	activities undertaken at the Spoke centre.
	<ul> <li>Paediatric/adult surgeon/gynaecologist with an interest in fertility</li> </ul>
	preservation (as appropriate)
	<ul> <li>Third party coordinator/person trained to attend theatre.</li> </ul>
	Administrative coordinator
	<ul> <li>Clinical nurse specialist/key worker</li> </ul>
	Data manager
75	Essential equipment and/or facilities



	The Hub requires access to:
	<ul> <li>Histopathology for quality assessment of tissue stored.</li> </ul>
	<ul> <li>Microbiology for clinical management of service uses.</li> </ul>
	<ul> <li>IT support from data management and Hub/Spoke systems.</li> </ul>
	The Tissue Establishment requires access to:
	A facility that meets the requirements of the HTA and has a HTA Human
	Sector Application Licence for the procurement, processing, storage,
	testing and distribution of reproductive tissue and has sufficient capacity
	to meet clinical needs of the associated Hub/Spoke services
	<ul> <li>Tissue Storage facilities which meet HTA standards and are of sufficient capacity to meet clinical need.</li> </ul>
	<ul> <li>Histopathology molecular biology and genetics expertise for guality</li> </ul>
	assessment of tissue stored.
	<ul> <li>Microbiology for sterility testing of tissue and processing.</li> </ul>
	Environmental monitoring of processing facility
	<ul> <li>Testing for mandatory markers of infection as per relevant</li> </ul>
	regulations/legislation
	<ul> <li>Dedicated courier for transport of testicular tissue in appropriate</li> </ul>
	temperature monitored boxes.
	The Snoke Centres require:
	<ul> <li>Day case and inpatient paediatrics and/or adult facilities to enable</li> </ul>
	surgery under general anaesthesia. The facilities must be able to
	manage complex medical issues
	<ul> <li>Access to theatre lists for procurement of testicular tissue and other</li> </ul>
	treatment related surgery such as insertion of a central venous line or
	astrostomy
	<ul> <li>IT and data management support</li> </ul>
	s in and data management support
7.0	
7.0	Interdependent Service Components – Links with other NHS services
7.7	Additional requirements
	Not applicable
7.8	Commissioned providers
7.9	LINKS TO OTHER KEY DOCUMENTS
	Treatment Centres This service specification sets out standards for specialist
	cancer services including fertility preservation linked to cancer treatment that
	can impact on fertility.
	NHS England » Children's cancer services: Principal treatment centres service
	specification



Children's cancer services; paediatric oncology shared care unit service specification

<u>NHS England » Children's cancer services: Paediatric oncology shared care</u> <u>unit service specification</u>

NHS England » Teenage and young adult cancer clinical network specification This service specification describes the arrangements in place to ensure that service users get access to the right care, in the right place at the right time as part of a network approach to service delivery, including access to fertility treatment

Fertility preservation for service users with ovarian tissue who are at high/very high risk of infertility and cannot store mature eggs service specification. [link to follow]

Fertility and endocrine restoration using cryopreserved ovarian tissue; service specification. [Link to follow]