

ONEX oncology and sarcoma service

Hospital Innovations' oncology and sarcoma service focuses on providing precisely matched allograft bone products to treat limbs affected by malignant bone tumours. Our team work in close collaboration with you and your staff to ensure swift and efficient graft matching.



CHOOSE HOSPITAL INNOVATIONS

Since 2008, Hospital Innovations has been supplying a growing range of specialist products for use in orthopaedic and corrective surgery. We are a Human Tissue Authority (HTA) licensed establishment, working in partnership with five of the world's leading tissue banks.



Heritage

Allograft
experience
since 2002

Choice

Working
with 5 of the
world's leading
tissue banks

Innovation

1st to market
with a number
of processes
and products



Our ONEX Tissue Bank Partners



LifeNet Health® is a non-profit global leader in regenerative medicine and the world's largest provider of allograft bio-implants and organs for transplantation. Since 1982, LifeNet Health® has helped to save lives, restore health and give hope to thousands of patients each year. It is the world's most trusted provider of transplant solutions, from organ procurement to new innovations to bio-implant technologies and cellular therapies - a leader in the field of regenerative medicine, while always honoring the donors and healthcare professionals that allow the healing process.



Community Tissue Services® is a quality ethical provider of services to donor families, medical communities, recipients and community partners. Through recovery, processing and distribution of tissue grafts, Community Tissue Services® strives to be on the forefront of new graft development and biotechnology to better serve recipients and medical professionals.



RTI Surgical is a global, industry-leading surgical implant supplier that provides design, new product development, processing and manufacturing services in support of patients and leading medical technology companies. With expertise spanning tissue, biologics and metals, we serve OEM partners across a diverse set of market segments, including but not limited to, Dental, Plastic and Reconstructive Surgery, Sports Medicine, Spine, Trauma and Urology/Urogynecology. RTI is headquartered in Alachua, FL. and is accredited in the U.S. by the American Association of Tissue Banks.



| Large Segmental Grafts

Note: All large segmental bone grafts are supplied frozen

Femur

Product Description	Tissue Bank
Whole Femur with Head, Left or Right	LifeNet Health® CTS® RTI Surgical®
Whole Femur without Head, Left or Right	CTS®
Proximal Femur with Head, Left or Right	LifeNet Health® CTS® RTI Surgical®
Proximal Femur without Head, Left or Right	LifeNet Health® CTS®
Distal Femur, Left or Right	LifeNet Health® CTS® RTI Surgical®



Humerus

Product Description	Tissue Bank
Whole Humerus, Left or Right	LifeNet Health® CTS® RTI Surgical®
Proximal Humerus, Left or Right	LifeNet Health® CTS® RTI Surgical®
Distal Humerus, Left or Right	CTS® RTI Surgical®





Radius & Ulna

Product Description	Tissue Bank
Whole Radius, Left or Right	LifeNet Health® CTS® RTI Surgical®
Proximal Radius, Left or Right	CTS®
Distal Radius, Left or Right	CTS®
Whole Ulna, Left or Right	LifeNet Health® CTS® RTI Surgical®
Proximal Ulna, Left or Right	CTS®



Tibia & Fibula

Product Description	Tissue Bank
Whole Tibia, Left or Right	LifeNet Health® CTS® RTI Surgical®
Proximal Tibia, Left or Right	LifeNet Health® CTS® RTI Surgical®
Distal Tibia, Left or Right	LifeNet Health® CTS® RTI Surgical®
Whole Fibula, Left or Right	CTS® RTI Surgical®
Proximal Fibula, Left or Right	CTS®
Distal Fibula, Left or Right	CTS®



| Intercalary Shafts

Femoral

Product Description	Preservation	Tissue Bank
<p data-bbox="140 745 316 775">Femoral Shaft</p> 	<p data-bbox="1082 712 1241 813">Freeze-dried Frozen Preservon®</p>	<p data-bbox="1289 712 1489 813">LifeNet Health® CTS® RTI Surgical®</p>
<p data-bbox="140 1016 395 1046">Hemi Femoral Shaft</p>	<p data-bbox="1082 1003 1241 1070">Freeze-dried Frozen</p>	<p data-bbox="1305 1003 1473 1070">CTS® RTI Surgical®</p>

Humeral

Product Description	Preservation	Tissue Bank
<p data-bbox="140 1641 323 1671">Humeral Shaft</p> 	<p data-bbox="1082 1619 1241 1686">Freeze-dried Frozen</p>	<p data-bbox="1289 1597 1489 1709">LifeNet Health® CTS® RTI Surgical®</p>



Tibial

Product Description	Preservation	Tissue Bank
Tibial Shaft 	Freeze-dried Frozen	LifeNet Health® CTS® RTI Surgical®

Fibular

Product Description	Preservation	Tissue Bank
Fibular Shaft 	Freeze-dried Frozen Preservon®	LifeNet Health® CTS® RTI Surgical®



| Heads & Condyles

Note: All heads and condyle grafts are supplied frozen

Femoral & Humeral

Product Description	Tissue Bank
Femoral Head	LifeNet Health® CTS®
Humeral Head, Left or Right	LifeNet Health® CTS®
Whole Femoral Condyle	LifeNet Health®
Hemi Femoral Condyle	LifeNet Health®





Tibial

Product Description	Tissue Bank
Distal Tibial Condyle	RTI Surgical®



| Cortical Struts

Femoral

Product Description	Preservation	Tissue Bank
Femoral Cortical Strut	Freeze-dried Frozen	LifeNet Health® CTS®



Tibial

Product Description	Preservation	Tissue Bank
Tibial Cortical Strut	Freeze-dried Frozen	LifeNet Health® CTS®





| Bone Void Fillers

Cancellous Chips

Product Description			Preservation	Tissue Bank
0.1 - 2mm	5cc		Preservon®	LifeNet Health®
	15cc			
	30cc			
0.25 - 0.5mm	0.25cc		Freeze-dried	CTS®
	0.5cc			
	1cc			
	2cc			
0.25 - 1mm	0.25cc	Freeze-dried	CTS®	
	0.5cc			
	1cc			
	2cc			
0.5 - 1mm	0.25cc	Freeze-dried	CTS®	
	0.5cc			
	1cc			
	2cc			
1 - 2mm	0.5cc	Freeze-dried	CTS®	
	1cc			
	2cc			



Cancellous Chips Cont'd

Product Description		Preservation	Tissue Bank
1 - 4mm	5cc	Freeze-dried Frozen Preservon®	LifeNet Health® CTS®
	15cc		
	20cc		
	30cc		
	40cc		
	60cc		
	80cc		
	90cc		
1 - 8mm	5cc	Freeze-dried Frozen Preservon®	LifeNet Health® CTS®
	10cc		
	15cc		
	20cc		
	30cc		
	40cc		
	60cc		
	80cc		
	90cc		
	160cc		
1 - 10mm	5cc	Freeze-dried Frozen	CTS®
	7.5cc		
	10cc		
	15cc		
	30cc		
	60cc		
	90cc		
	120cc		
	180cc		



Cancellous Chips Cont'd

Product Description			Preservation	Tissue Bank
4 - 10mm	15cc		Freeze-dried Frozen Preservon®	LifeNet Health® CTS®
	30cc			
	60cc			
	90cc			
	120cc			

Cortical/Cancellous Chips

Product Description			Preservation	Tissue Bank
1 - 4mm	15cc		Freeze-dried Preservon®	LifeNet Health® CTS®
	30cc			
	60cc			
	90cc			
1 - 8mm	10cc		Freeze-dried Preservon®	LifeNet Health®
	15cc			
	20cc			
	30cc			
	40cc			
	60cc			
4 - 10mm	15cc		Freeze-dried	CTS®
	30cc			
	60cc			
	90cc			



Cancellous Cubes & Blocks

Product Description			Preservation	Tissue Bank
Cubes	5cc		Freeze-dried Preservon®	LifeNet Health® CTS®
	7.5cc			
	15cc			
	20cc			
	30cc			
	60cc			
	40cc			
	90cc			
Block	20x20x30mm		Freeze-dried Preservon®	LifeNet Health®



| Osteobiologics

Demineralised Bone Putty

Product Description			Preservation	Tissue Bank
Putty	0.5cc		Ambient Freeze-dried	LifeNet Health® Surgalign™
	1cc			
	2.5cc			
	5cc			
	10cc			
Putty with Chips	0.5cc		Ambient Freeze-dried	LifeNet Health® Surgalign™
	1cc			
	2.5cc			
	5cc			
	10cc			

Demineralised Bone Paste

Product Description			Preservation	Tissue Bank
Paste	2cc		Freeze-dried	Surgalign™
	5cc			
	10cc			
	20cc			



Demineralised Bone Cont'd

Product Description			Preservation	Tissue Bank
Chips, 1 - 4mm	2.5cc		Freeze-dried	LifeNet Health®
	5cc			
	10cc			
Cubes	8x8x8mm		Freeze-dried	LifeNet Health®
	10x10x10mm			
	12x12x12mm			
	14x14x14mm			
Fibres	2cc		Freeze-dried	LifeNet Health® CTS®
	5cc			
	10cc			
	15cc			
	30cc			
Strips	10x20x2mm		Freeze-dried	LifeNet Health®
	15x40x2mm			
	20x50x2mm			
	20x25x6mm			
	15x20x6mm			
	10x20x8mm			



Graft Processing and Sterilisation

Allowash®

The Allowash® process encompasses a comprehensive and validated process during which greater than 99% of bone marrow and blood elements are removed from the internal tissue matrix. This step along with a subsequent chemical sterilant treatment have been shown to substantially reduce bacterial and fungal bioburden and inactivate enveloped and non-enveloped viruses.

Allowash XG®

Allowash XG® utilises the Allowash® process with the addition of terminally administered low-dose, low-temperature irradiation; sterilising tissue to a Sterility Assurance Level of 10^{-6} without compromising the biomechanical or biochemical properties of the tissue.

Aseptic

Aseptic processing minimises the chance that donor tissue can be contaminated during preparation. It involves specific, validated protocols which include mechanically agitating the tissue to remove blood, lipids and cells; cleaning them with detergents, antibiotics, antifungals or chemical disinfectants; and cutting/shaping them in a clean room. While aseptically processed allografts are prepared and tested in ways which reduce microorganism presence, aseptic processing cannot be labelled sterile and can only yield a Sterility Assurance Level of 10^{-3} .

BioCleanse®

The BioCleanse® Tissue Sterilisation Process is a validated, fully automated chemical and mechanical sterilisation process that achieves a 12-log reduction of bacteria, fungi and spores and inactivates viruses in bone and soft tissue allograft. This process sterilises tissue to a Sterility Assurance Level of 10^{-6} without augmentation of irradiation.

Cancelle® SP

The Cancelle® SP Process is a proprietary process that sterilises DBM while simultaneously allowing it to maintain its osteoinductive potential. Through a combination of oxidative treatments and acid or alcohol washes, debris is removed and pathogens are inactivated. Cleansing rinses remove residual chemicals, maintaining biocompatibility. Low temperature, low dose gamma irradiation preserves the utility of the graft. A final irradiation dose is applied terminally to achieve a Sterility Assurance Level of 10^{-6} .

Electron Beam

The E-Beam process utilises electrons in order to disrupt the strands of DNA within the tissue, resulting in graft sterilisation in a matter of seconds to a Sterility Assurance Level of 10^{-6} without the use of gamma irradiation.

Low-dose Gamma Irradiation

Low-dose gamma irradiation achieves a Sterility Assurance Level of 10^{-6} utilising a radiation dose of 1.1-1.5 mrad administered at ultra low temperatures after the bioimplants are packaged to preserve the grafts biomechanical integrity.

Matracell®

Matracell® is a patented and validated decellularisation process that renders allograft tissue acellular by removing over 97% of the donor genetic material without compromising the biomechanical or desired biochemical properties of the graft.

PAD®

The PAD® process is a demineralisation technology that provides precise bone demineralisation to achieve the ideal residual calcium level of 1 – 4%. This controlled process protects bone morphogenic proteins while ensuring optimal osteoinductivity.

Preservon®

Preservon® is a proprietary and patented glycerol-based preservation solution that allows tissue to be stored in a fully hydrated state at ambient temperature. This eliminates the need for lengthy rehydration steps and saves valuable theatre time.

Allograft Matching Process

1 Specify

Fill in our allograft matching form with your tissue requirements and submit it either via your local Sales Specialist or to our Customer Service team

2 Match

We will consult with our Tissue Bank partners to provide you with graft options that best match your surgical needs

3 Collaborate

Our team will collaborate and provide you with specific graft specifications to ensure you receive the best possible graft solution

4 Deliver

The graft will be shipped to your required Hospital in one of our validated shipping containers via your preferred delivery service

ONEX oncology and sarcoma service

HOSPITAL INNOVATIONS

Allograft Matching Form

Hospital Name: Date of Request:

Surgeon Name: Date of Surgery:

Patient ID Number:

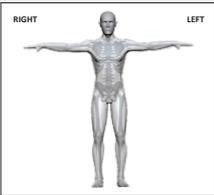
PATIENT DETAILS

Patient D.O.B: Patient Gender: Male Female

Patient Height:ftin Patient Weight:stlbs
 orcm orkgs

Please mark on the diagram below the area being treated: If applicable, please include a sketch of the required graft*:

RIGHT LEFT



PROXIMAL

DISTAL

GRAFT TYPE

Segmental Humerus <input type="checkbox"/> Proximal <input type="checkbox"/> Radius <input type="checkbox"/> Distal <input type="checkbox"/> Ulna <input type="checkbox"/> Whole <input type="checkbox"/> Femur <input type="checkbox"/> Tibia <input type="checkbox"/> Fibula <input type="checkbox"/>	Shaft Humerus <input type="checkbox"/> Femur <input type="checkbox"/> Tibia <input type="checkbox"/> Fibula <input type="checkbox"/>	Stout Femur <input type="checkbox"/> Tibia <input type="checkbox"/>	Other Whole Ilium <input type="checkbox"/> Semi Ilium <input type="checkbox"/> Talus <input type="checkbox"/> Whole Elbow <input type="checkbox"/> Extensor Mechanism** <input type="checkbox"/>
--	---	--	--

GRAFT DIMENSIONS

Min/Max Length: Min.....mm Max.....mm Min/Max Diameter (shortest point): Min.....mm Max.....mm

Condyle Measurements (if required): AP Widthmm ML Widthmm

*If you would prefer to provide radiographic images, please send appropriate X-Ray/MRI disc and completed form to the address at the bottom of the form
 **for extensor mechanism grafts, please include via email all specific graft dimensions that are required (i.e. quadriceps tendon length, patella tendon length & width)

This form is to be completed and forwarded to Hospital Innovations' Customer Service Team via:
 Email: orders@hospitalinnovations.co.uk or Fax: 01443 719 560
 Hospital Innovations Limited | Concept House | Talbot Green Business Park | Pontyclun | CF72 9FG | 01443 719 555

Did you know?

In 2011 Hospital Innovations introduced their pioneering allograft return service, now adopted by other tissue providers.

This flexible and convenient practice has revolutionised the way human tissue is managed and since its introduction in 2011 has saved both the NHS and private sector millions.

SAVING NHS AND PRIVATE HOSPITALS OVER

£6,000,000
since 2011

Speak to your local Sales Specialist for further information or contact us using the details below:

T: 01443 719 555

E: info@hospitalinnovations.co.uk

www.hospitalinnovations.com

Hospital Innovations Limited
Concept House
Talbot Green Business Park
Pontyclun
CF72 9FG

HOSPITAL
INNOVATIONS 