

# APCIFICICI TISSUE TECHNOLOGIES



# About us

Bloocell<sup>®</sup> manufactures equipment and automation systems at high standards to meet the quality requirements of the aerospace and medical / pharmaceutical industries. The biotechnology department established within our organization conducts research on artificial tissues and organs.

We serve the humanity with our products developed as a result of successful in vitro and in vivo studies. We conduct and conclude valuable studies thanks to the strengths of our structure consisting of different branches of science. Our organization focuses on long-term academic work to provide new-generation and advanced health services. The Bloocell<sup>®</sup> technology offers innovations for the medical applications of the future.









## WHAT'S BLOOCELL®

The world's leading brand that gives confidence to physicians in the field of tissue engineering. Bloocell ® is the first "ARTIFICIAL TISSUE TECHNOLOGY" in the world that can be produced in complementary, therapeutic and personalized anatomical forms in the treatment of tissue deficiency.







#### **AUTOGRAFT**

Lower risk of infection There is no risk of graft rejection ? Limited availability and more

than one surgery is required

? No Mechanical testing

? Weakening of the donor site

? Risk of site morbidity, pain

? infection and scarring

#### **ALLOGRAFT**

Greater availability than autograft Minimizing surgical time ? Risk of immunological rejection ? Risk of disease transmission ? Risk of site morbidity, pain, infection and scarring ? Limited donor pool

? No mechanical testing

#### **XENOGRAFT**

Potential for greater availability Variety of tissues ? Extremely high risk of rejection ? Ethical concerns

? Risk of zoonotic diseases

#### **BIO SCAFOLD**

Mimicking the Natural Extracellular Matrix (ECM) Mechanical Support Tissue regeneration, making them versatile for various applications Customized in terms of material, shape, porosity, and other properties Drug or Growth Factor Delivery Temporary Support and Gradual Degradation

## CONTENT OF BLOOCELL



### **Integral triple-1**



Biocompatible, no immune response

Long-term structural support

Provide mechanical support

Favorable mechanical properties, including flexibility and strength

A framework for cells to attach, proliferate, and differentiate

Biodegredable, break down into non-toxic byproducts

Excellent candidate for applications that require load-bearing

The ability to incorporate bioactive molecules

#### TRICALSIUMFOSFATE



#### POLYCAPROLACTONE







### Integral triple-2



Biocompatible, no immune response or inflammation

Bioactive, integrate with the host tissue, promoting cell attachment

Osteoconductivity, suitable environment for bone-forming cells



Biodegradable and resorbable

High porosity, allowing for the infiltration of blood vessels

Provide diffusion of nutrients and oxygen to the cells within the scaffold

Has succesful background at dental and orthopedics

## CONTENT OF BLOOCELL

## bloocell®

### Integral triple-3



Biocompatible, no immune response or adverse reactions

Component of the extracellular matrix

Biodegradable

Hydrophilic, essential for cell survival and tissue regeneration

Promotes cell attachment and migration

Tissue hydration and lubrication

Regulate the inflammatory respons

#### **HYALURONIC**





HA molecules interact directly with cell surface receptors, most notably CD44.

Inflammatory response by binding to specific receptors on immune cells, such as Toll-like receptors (TLRs). Influence various cellular processes, including cell proliferation, migration, differentiation, and gene expression.



## HOW BLOOCELL WORKS





**HA:** Ability to support cell adhesion, migration, and proliferation.

**TCP:** Promotes the adhesion of osteoblasts, the bone-forming cells, and encourages their activity, ultimately leading to new bone formation.

Customizable Reducing the risk of adverse reactions. Porosity Structure Biodegradable Tailored mechanical properties Reduced Tissue Rejection Controlled Release





## **CURRENT USE OF BLOOCELL®**





### Use of 3D printed polycaprolactone + hyaluronic acid-based scaffold in orthopedics practice: A report of two cases

Use of 3D printed polycaprolactone + hyaluronic acid-based scaffold in orthopedics practice: A report of two cases Erdi Ozdemir, Filippo Familiari, Ahmet Fırat, Gazi Huri. Journal of 3D Printing in Medicine, DOI: 10.2217/3dp-2022-0020



Case 1: 42-year-old patient showing Hamada 4B left glenohumeral osteoarthritis.



Case 2: 19-year-old patient with neglected Galeazzi fracture–dislocation and radius non-union.

## CLINICAL BACKGROUND



Gross appearance and microscopic morphology of the polycaprolactone (PCL) mesh confirmed by field emission scanning electron microscopic (8-4700; HTR-ATH Co., Tokys) apan). a ShetPark et al. Clinical Application of Three-Dimensionally Printed Biomaterial Polycaprolactone (PCL) in Augmentation Rhinoplasty, Aesthetic Plastic Surgery

bloocell®

#### Morphology analysi



### Assessment of cell viability and vascularization"

H&E and MT staining images are shown. No inflammation or any immune response was observed. **a. b** Histological image of H&E staining; **c. d** histological image of MT staining. P: cavity of grafted PCL mesh, black arrow: fibrovascular tissue (original magnification  $40 \times (surrounding host tissue in a critical-sized rabbit, c)$ ,  $100 \times (b d)$ )



Immunohistochemistry staining of collagen type I is shown in brown. Each collagen is indicated with black arrow lines. P: cavity of grafted PCL mesh (original magnification:  $40 \times (\mathbf{a})$ ,  $100 \times (\mathbf{b})$ )

The collagen-stimulating effect of PCL





Immunohistochemistry staining of collagen type II is shown in brown. Each collagen is indicated with black arrow lines. P. cavity of grafted PCL mesh (original magnification:  $40 \times (\mathbf{a})$ ,  $100 \times (\mathbf{b})$ )

Clinical Application of Three-Dimensionally Printed Biomaterial Polycaprolatone (PCL) in Augmentation Rhinoplasty



#### **Mineralization of PCL/TCP**



Goldner's trichrome staining (mineralized tissue = green; osteoid = red) reveals newly formed woven bone trabeculae after 4 weeks along with the presence of numerous blood vessels distributed across the defect site (A) ( $10 \times$  magnification). Multi-nucleated giant cells are detected on the surfaces of the scaffold rods and are closely associated with adipose cells as early as 4 weeks after implantation (B) ( $40 \times$  magnification).

Yeo et al. Surface Modification Of PCL-TCP Scaffolds In Rabbit Calvaria Defects: Evaluation Of Scaffold Degradation Profile, Biomechanical Properties And Bone Healing Patterns, Journal Of Biomedical Materials Research



In Safranin O staining of chondrogenesis, positive staining of proteoglycan (red) is markedly noted around outer margins of the grafted PCL mesh; space of grafted PCL implant (P) was well maintained. In a high-magnification field, the chondrocyte and lacunae (black arrow) characterized by specific structure for the chondrocyte were noted. P: cavity of grafted PCL mesh (original magnification:  $40 \times (a), 400 \times (b)$ )

Park et al. Clinical Application of Three-Dimensionally Printed Biomaterial Polycaprolactone (PCL) in Augmentation Rhinoplasty, Aesthetic Plastic Surgery

#### Anti-inflammatory effect of HA



hydroxic acd HEQT = human spacemal growth factor resport 2. HYAL = hydroxidast; CAM = interchilar adhation molociae1.; ICM = metalular marchi, E. Interchiain, RAK = transferial, in response administration of the second HYAP is marchimetaloprotection. HYAB = myolicid differentiation primary response BL, Mi-LB = nuclear factor lapp-liqher chain-shancer of activated B cells. No = not coade: FG = protectypicar, PEE = romaginade FL; TAK = transforming growth factor (TGK-FL) insteaded taxes; TAK = TC-B acces preported in terms of the second response to the second response to the transformation of metaloproteinases; TLR = coll like receptor; TMF = tumor necrosis factor; TMF = transforming growth factor.

Altman et al. Anti-Inflammatory Effects of Intra-Articular Hyaluronic Acid: A Systematic Review, Sage Journal

## CLINICAL BACKGROUND



#### THE SUCCESS OF BLOOCELL® TECHNOLOGY CONTINUES TO BE PUBLISHED IN LEADING SCIENTIFIC CONGRESSES

EAODGI2023-543/PO-SU-026 | 3-dimensional evaluation of E-polycaprolactone containing membrane's efficacy in guided bone regeneration: A retrospective study

Cem Ungor<sup>1,\*</sup>, Cavad Bextiyarli<sup>2</sup>, Seyit Yılmaz<sup>3</sup> <sup>1</sup>Oral and Maxillofacial Surgery, <sup>2</sup>Karadeniz Technical University, Trabzon, <sup>3</sup>Beykoz University, Istanbul, Turkey

> Guided bone regeneration (GBR) is one of the most commonly used treatment options for the repair of vertical and horizontal bone defects.

Bioscaffold membranes used in ridge augmentation in maxillofacial surgery on the amount of newly formed bone after application in three-dimensional (3D).



Patients (7 females and five males)

Vertical bone gain were 1.63 ± 0.69 mm

Horizontal bone gain were 4.03 ± 1.45 mm

The implant survival rates were 100% in all patients.







## **BLOOCELL CUSTOM MADE**



bloocell®

Bone tissue formation was observed after 10 months with custom made  $$\sf Bloocell\ Hybrit^{\tiny (0)}$$ 



## **BLOOCELL ALL**



### ARTIFICAL TISSUE TECHNOLOGIES

#### Bloocell® HYBRID

It is made of titanium and polymer materials and is used in brain surgery and craniofacial surgery commonly.

#### Bloocell® BCRM

It is a biodegradable implant made of an enzymatic polymer,tricalcium phosphate lant hyaluronic acid.

#### **Bloocell® TITANIUM**

It is made of titanium material and is used in commonly neurosurgery surgery.







BLOOCELL® ORTHO



BLOOCELL® DENTAL



BLOOCELL®









BLOOCELL® PLASTIC RECONSTRUCTIVE

BLOOCELL® CMF



BLOOCELL	BIOSCAFFOLD	FRAME SHEET			
	CAT NUMBER	DESCRIPTION	A mm	B mm	THICNESS mm
	52000	Bloocell Bioscafold Frame Sheet	20	20	1
BLOOCELL	BIOSCAFFOLD	CYLINDER			
	CAT NUMBER	DESCRIPTION	DIAMETER mm	LENGHT mm	
	52001	Bloocell Bone Matriks Implant Synthetic	6	10	
	52002	Bloocell Bone Matriks Implant Synthetic	8	10	
ALL LAND	52003	Bloocell Bone Matriks Implant Synthetic	10	10	
	52004	Bloocell Bone Matriks Implant Synthetic	6	20	
	52005	Bloocell Bone Matriks Implant Synthetic	8	20	
	52006	Bloocell Bone Matriks Implant Synthetic	10	20	
BLOOCELL	BIOSCAFFOLD	RECTAGLE SHEET			
	CAT NUMBER	DESCRIPTION	DIAMETER mm	LENGHT mm	
	52007	Bloocell Bone Matriks Implant Synthetic Plug	12	5	
	52008	Bloocell Bone Matriks Implant Synthetic Plug	15	5	
	52009	Bloocell Bone Matriks Implant Synthetic Plug	18	5	
BLOOCELL	BIOSCAFFOLD	RECTAGLE SHEET			
	CAT NUMBER	DESCRIPTION	A mm	B mm	C mm
	52336	Bloocell Bioscafold Rectagle Sheet	40	9	1,1
	52339	Bloocell Bioscafold Rectagle Sheet	13	3,5	0,9
BLOOCELL	FLEX BARRIER				
	CAT NUMBER	DESCRIPTION	A mm	B mm	C mm
	52411	BFB Small	70	70	10
	52412	BFB Medium	86	88	15
	52413	BFB Large	95	98	18





BLOOCELL	CUSTOM MADE GLENOID			
	DESCRIPTION	Out Diameter mm	Height mm	Angle Degree
	Glenoid Scafold	27	10	std
	Glenoid Scafold	27	10	7,5
	Glenoid Scafold	27	10	15
	Glenoid Scafold	27	15	std
	Glenoid Scafold	27	15	7,5
	Glenoid Scafold	27	15	15
BLOOCELL	CUSTOM MADE HTO WEDGE			
	DESCRIPTION	Height mm	LENGHT mm	
	HTO Wedge	6	3	
	HTO Wedge	8	3	
	HTO Wedge	6	6	
	HTO Wedge	8	6	
	HTO Wedge	10	5,5	
	HTO Wedge	12	5,5	
	HTO Wedge	14	5,5	
	HTO Wedge	16	5,5	
	HTO Wedge	18	5,5	





BLOOCELL	CUSTOM MADE ACETABULAR CAGE			
	DESCRIPTION	Diameter mm	Height mm	
	Acetabular Scafold Cages	49	9	
	Acetabular Scafold Cages	49	11	
	Acetabular Scafold Cages	49	13	
	Acetabular Scafold Cages	51	9	
	Acetabular Scafold Cages	51	11	
	Acetabular Scafold Cages	51	13	
	Acetabular Scafold Cages	57	9	
	Acetabular Scafold Cages	57	11	
	Acetabular Scafold Cages	57	13	
	Acetabular Scafold Cages	61	9	
	Acetabular Scafold Cages	61	11	
	Acetabular Scafold Cages	61	13	





BLOOCELL	MEMBRAN				
	CAT NUMBER	DESCRIPTION	A mm	B mm	THICNESS mm
	52000	Bloocell Bone Membran	20	20	0,3
		Bloocell Bone Membran	25	25	0,3
		Bloocell Bone Membran	20	30	0,3
		Bloocell Bone Membran	30	40	0,3
BLOOCELL	BIOSCAFFOLD	SHEET			
	CAT NUMBER	DESCRIPTION	A mm	B mm	THICNESS mm
Mandonotome	52000	Bloocell Bone Matriks Implant Synthetic	20	20	1
		Bloocell Bone Matriks Implant Synthetic	25	25	1
		Bloocell Bone Matriks Implant Synthetic	20	30	1
		Bloocell Bone Matriks Implant Synthetic	30	40	1
BLOOCELL	BIOSCAFFOLD	CYLINDER			
	CAT NUMBER	DESCRIPTION	DIAMETER mm	LENGHT mm	
	52004	Bloocell Bone Matriks Implant Synthetic	6	20	
	52005	Bloocell Bone Matriks Implant Synthetic	8	20	





BLOOCELL	. BIOSCAFFOLD	SHEET			
	CAT NUMBER	DESCRIPTION	A mm	B mm	THICNESS mm
	52000	Bloocell Bone Matriks Implant Synthetic	20	20	1
		Bloocell Bone Matriks Implant Synthetic	25	25	1
		Bloocell Bone Matriks Implant Synthetic	20	30	1
		Bloocell Bone Matriks Implant Synthetic	30	40	1
BLOOCELL	EXTENDED OF	RBITAL IMPLANT			
	CAT NUMBER	DESCRIPTION	A mm	B mm	THICNESS mm
	52292	B-Extended orbital rim implants	47	40	6,37mm
	52293	B-Extended orbital rim implants	47	40	6,37mm
BLOOCELL	ORBITAL IMPL	ANT			
	CAT NUMBER	DESCRIPTION	A mm	B mm	THICNESS mm
	52294	B-Orbital Implant Left	40	40	8,45mm
	52295	B-Orbital Implant Right	40	40	8,45mm





BLOOCELL	MIDFACE FOR	M IMPLANT			
	CAT NUMBER	DESCRIPTION	A mm	B mm	C mm
	52296	B-Midface Form Implant Left	60	40	4
	52297	B-Midface Form Implant Right	60	40	4
	52298	B-Midface Form Implant Left	65	41	4
	52299	B-Midface Form Implant Right	65	41	4
BLOOCELL	EXTENDED MA	LAR SHAPES			
	CAT NUMBER	DESCRIPTION	A mm	B mm	C mm
	52302	Bloocell Extended , small - left	45	24	3
	52303	Bloocell Extended , small - right	45	24	3
	52304	Bloocell Extended , medium - left	50	26	4
	52305	Bloocell Extended , medium - right	50	26	4
	52306	Bloocell Extended , large - left	55	27	5
	52307	Bloocell Extended , large - right	55	27	5
BLOOCELL	RZ MALAR IMP	PLANT			
	CAT NUMBER	DESCRIPTION	A mm	B mm	C mm
	52308	Bloocell rz malar left	50	19	3
	52309	Bloocell rz malar right	50	19	3
	52310	Bloocell rz malar left	50	19	5
	52311	Bloocell rz malar right	50	19	5





BLOOCELL	M MALAR IMP	LANT				
	CAT NUMBER	DESCRIPTION	A mm	B mm	C mm	D mm
	52312	Bloocell m malar left	64	19	3	15
	52313	Bloocell m malar right	64	19	3	15
	52314	Bloocell m malar left	64	19	4,5	17
	52315	Bloocell m malar right	64	19	4,5	17
BLOOCELL	NASAL AND					
	CAT NUMBER	DESCRIPTION		A mm	B mm	C mm
	52335	Bloocell Nasal AND		22	37	0,5
BLOOCELL	NASAL SHEET					
	CAT NUMBER	DESCRIPTION		A mm	B mm	C mm
	52336	Bloocell Nasal Sheet		40	9	1,1
BLOOCELL	NASAL VALVE					
	CAT NUMBER	DESCRIPTION		A mm	B mm	C mm
	52337	Bloocell External Nasal Valve		25	11	0,85
	52338	Bloocell External Nasal Valve		25	11	0,6
BLOOCELL	LATERAL NASA	AL VALVE				
	CAT NUMBER	DESCRIPTION		A mm	B mm	C mm
	52339	Bloocell Lateral Nasal Valve		13	3,5	0,9
BLOOCELL	PARANASAL					
	CAT NUMBER	DESCRIPTION		A mm	B mm	C mm
	52340	Bloocell Paranasal left		28	26	4,5
	52341	Bloocell Paranasal right		28	26	4,5
	52342	Bloocell Paranasal left		30	28	7
	52343	Bloocell Paranasal right		30	28	7





BLOOCELL	CHIN				
	CAT NUMBER	DESCRIPTION	A mm	B mm	C mm
	52367	Bloocell Chin Small	40	25	5
	52368	Bloocell Chin Medium	47,5	37,5	7
	52369	Bloocell Chin Large	48,5	38	9
BLOOCELL	MODULER CHI	N			
	CAT NUMBER	DESCRIPTION	A mm	B mm	C mm
	52370	Mos Small	56	33	5
	52371	Mod Medium	56	36	7
	52372	Mod Large	57	38	9
BLOOCELL	EXTENDED CH	IN			
	CAT NUMBER	DESCRIPTION	A mm	B mm	C mm
	52373	Bloocell Extended chin small	45	47	3
	52374	Bloocell Extended chin medium	45	47	5
	52375	Bloocell Extended chin large	45	47	7
	52376	Bloocell Extended chin small	45	47	3
	52377	Bloocell Extended chin medium	45	47	7
	52378	Bloocell Extended chin large	45	47	7





BLOOCELL	TWO-PIECE CH	IIN			
	CAT NUMBER	DESCRIPTION	A mm	B mm	C mm
<b>\</b>	52379	Bloocell Two Piece Chin	72	42	3
	52380	Bloocell Two Piece Chin	74	42	5
	52381	Bloocell Two Piece Chin	78	50	7
	52382	Bloocell Two Piece Chin	80	55	9
BLOOCELL	MANDIBULAR	ANGLE			
	CAT NUMBER	DESCRIPTION	A mm	B mm	C mm
	52383	Bloocell Mandibular Angel Left-small	65	35	18
	52384	Bloocell Mandibular Angel Right-small	65	35	18
	52385	Bloocell Mandibular Angel Left- medium	65	35	20
	52386	Bloocell Mandibular Angel Right- medium	65	35	20
	52387	Bloocell Mandibular Angel Left-large	65	35	20
	52388	Bloocell Mandibular Angel Right-large	65	35	10
	52389	Bloocell Mandible Angle Left	47	38	15
	52390	Bloocell Mandible Angle Right	47	38	18





BLOOCELL	TITAN W				
<u></u>	CAT NUMBER	DESCRIPTION	A mm	B mm	THICNESS mm
	52270	BTW	40mm	60mm	0,85mm
	52271	BTW	40mm	60mm	1,00mm
BLOOCELL	INFERIOR MEI	DIAL ORBITAL IMPLANT			
	CAT NUMBER	DESCRIPTION	A mm	B mm	THICNESS mm
	52288	B-Inferior medial orbital left	25	26	2,50 mm
	52289	B-Inferior medial orbital right	25	26	2,50 mm
BLOOCELL	3 D ORBİTAL F	LOOR			
	CAT NUMBER	DESCRIPTION			
and the second second	52250	Bloocell Titan 3d Orbital Floor, Btb Left Small			
8	52251	Bloocell Titan 3d Orbital Floor, Btb Right Small			
0.9 M	52252	Bloocell Titan 3d Orbital Floor, Btb Left Large			
	52253	Bloocell Titan 3d Orbital Floor, Btb Right Large			



## **BLOOCELL NEURO**



BLOOCEL	L MEMBRAN				
	CAT NUMBER	DESCRIPTION	A mm	B mm	THICNESS mm
	52000	Bloocell Bone Membran	20	20	1
		Bloocell Bone Membran	25	25	1
		Bloocell Bone Membran	20	30	1
		Bloocell Bone Membran	30	40	1
BLOOCEL	L FLEX BARRIE	R			
	CAT NUMBER	DESCRIPTION	A mm	B mm	C mm
	52405	BFB small Left	61	78	18
	52406	BFB small Right	61	78	18
	52407	BFB medium Left	74	93	20
	52408	BFB medium Right	74	93	20
	52409	BFB large Left	82	105	20
	52410	BFB large Right	82	105	20
	52411	BFB Small	70	70	10
	52412	BFB Medium	86	88	15
	52413	BFB Large	95	98	18
BLOOCEL	L TITAN W				
	CAT NUMBER	DESCRIPTION	A mm	B mm	THICNESS mm
	52270	BTW	40mm	60mm	0,85mm
	52271	BTW	40mm	60mm	1,00mm





BLOOCELL	TITAN ORBITA	L FLOOR AND WALL				
	CAT NUMBER	DESCRIPTION	A mm	B mm	C mm	THICKNESS
North State	52254	MAX BTOF	42mm	41mm	1,0mm	0,85mm
	52255	MAX BTOF left	42mm	41mm	1,0mm	1,0mm
	52256	MAX BTOF right	42mm	41mm	1,0mm	1,0mm
BLOOCELL	® T BITAL FLO	OR AND WALL				
	CAT NUMBER	DESCRIPTION	A mm	B mm	C mm	THICKNESS
	52257	BTOF	42mm	41mm	1,0mm	0,85mm
	52258	BTOF left	42mm	41mm	1,0mm	1,0mm
	52259	BTOF right	42mm	41mm	1,0mm	1,0mm
	52260	BT	42mm	41mm	1,0mm	1,0mm
BLOOCELL	TITAN IMPLAN	ITS				
	CAT NUMBER	DESCRIPTION		A mm	B mm	C mm
					5	
	52260	BTI		50mm	76mm	0,85mm
	52260 52261	BTI BTI		50mm 38mm	76mm	0,85mm
	52260 52261 52262	BTI BTI BTI		50mm 38mm 50mm	76mm	0,85mm
	52260 52261 52262 52263	BTI BTI BTI BTI		50mm 38mm 50mm 38mm	76mm	0,85mm
	52260 52261 52262 52263 52264	BTI BTI BTI BTI BTI		50mm 38mm 50mm 38mm 50mm	76mm	0,85mm
	52260 52261 52262 52263 52264 52265	BTI BTI BTI BTI BTI BTI BTI		50mm 38mm 50mm 38mm 50mm 38mm	76mm	0,85mm
	52260 52261 52262 52263 52264 52265 52266	BTI BTI BTI BTI BTI BTI BTI		50mm 38mm 50mm 38mm 50mm 38mm 50mm	76mm	0,85mm
	52260 52261 52262 52263 52264 52265 52266 52266	BELOCIAI HON BTI BTI BTI BTI BTI BTI BTI BTI		50mm 38mm 50mm 38mm 50mm 38mm 50mm 38mm	76mm	0,85mm
	52260 52261 52262 52263 52264 52265 52266 52266 52267 52268	BELOCIAI HON BTI BTI BTI BTI BTI BTI BTI BTI BTI BTI		50mm 38mm 50mm 38mm 50mm 38mm 50mm 38mm 50mm	76mm	0,85mm



## **BLOOCELL ENT**



BLOOCELL BIOSCAFFOLD FRAME SHEET							
	CAT NUMBER	DESCRIPTION	A mm	B mm	THICNESS mm		
	52000	Bloocell Bioscafold Frame Sheet	20	20	1		
BLOOCELL BIOSCAFFOLD CYLINDER							
	CAT NUMBER	DESCRIPTION	DIAMETER mm	LENGHT mm			
	52001	Bloocell Bone Matriks Implant Synthetic	6	10			
	52002	Bloocell Bone Matriks Implant Synthetic	8	10			
All Internet	52003	Bloocell Bone Matriks Implant Synthetic	10	10			
	52004	Bloocell Bone Matriks Implant Synthetic	6	20			
	52005	Bloocell Bone Matriks Implant Synthetic	8	20			
	52006	Bloocell Bone Matriks Implant Synthetic	10	20			
BLOOCELL NASAL DORSAL							
	CAT NUMBER	DESCRIPTION	A mm	B mm	C mm		
	52316	Bloocell Nasal Dorsal	43	22	16		
BLOOCELL	NASAL DORSU	IM					
	CAT NUMBER	DESCRIPTION	A mm	B mm	C mm		
1	52326	Bloocell Nasal Dorsum	4	4	45		
	52327	Bloocell Nasal Dorsum	4	4	55		
	52328	Bloocell Nasal Dorsum	5	5	45		
	52329	Bloocell Nasal Dorsum	5	5	55		
	52330	Bloocell Nasal Dorsum	9	9	55		



### **BLOOCELL ENT**



BLOOCELL NASAL DORSUM MIMIC						
	CAT NUMBER	DESCRIPTION	A mm	B mm	C mm	
11	52331	Nasal	41	3,1	9	
	52332	Nasal Small	53	5		
	52333	Nasal Large	68	9		
	52334	Nasal S	67	6,4		
BLOOCELL	NASAL SHEET					
	CAT NUMBER	DESCRIPTION	A mm	B mm	C mm	
	52336	Bloocell Nasal Sheet	40	9	1,1	
BLOOCELL NASAL VALVE						
	CAT NUMBER	DESCRIPTION	A mm	B mm	C mm	
	52337	Bloocell External Nasal Valve	25	11	0,85	
	52338	Bloocell External Nasal Valve	25	11	0,6	
BLOOCELL	LATERAL NASA	AL VALVE				
	CAT NUMBER	DESCRIPTION	A mm	B mm	C mm	
	52339	Bloocell Lateral Nasal Valve	13	3,5	0,9	
BLOOCELL	PARANASAL					
	CAT NUMBER	DESCRIPTION	A mm	B mm	C mm	
	52340	Bloocell Paranasal left	28	26	4,5	
	52341	Bloocell Paranasal right	28	26	4,5	
	52342	Bloocell Paranasal left	30	28	7	
	52343	Bloocell Paranasal right	30	28	7	





BLOOCELL BIOSCAFFOLD SHEET							
	CAT NUMBER	DESCRIPTION	A mm	B mm	THICNESS mm		
	52000	Bloocell Bone Matriks Implant Synthetic	20	20	2		
BLOOCELL	BIOSCAFFOLD	CYLINDER					
	CAT NUMBER	DESCRIPTION	DIAMETER mm	LENGHT mm			
	52001	Bloocell Bone Matriks Implant Synthetic	6	10			
	52002	Bloocell Bone Matriks Implant Synthetic	8	10			
ALL IN CONTRACTOR	52003	Bloocell Bone Matriks Implant Synthetic	10	10			
	52004	Bloocell Bone Matriks Implant Synthetic	6	20			
	52005	Bloocell Bone Matriks Implant Synthetic	8	20			
	52006	Bloocell Bone Matriks Implant Synthetic	10	20			
BLOOCELL	EXTENDED OR	BITAL IMPLANT					
	CAT NUMBER	DESCRIPTION	A mm	B mm	THICNESS mm		
	52292	B-Extended orbital rim implants	47	40	6,37mm		
	52293	B-Extended orbital rim implants	47	40	6,37mm		
BLOOCELL ORBITAL IMPLANT							
	CAT NUMBER	DESCRIPTION	A mm	B mm	THICNESS mm		
	52294	B-Orbital Implant Left	40	40	8,45mm		
	52295	B-Orbital Implant Right	40	40	8,45mm		





BLOOCELL	MIDFACE FORI	M IMPLANT			
	CAT NUMBER	DESCRIPTION	A mm	B mm	C mm
	52296	B-Midface Form Implant Left	60	40	4
	52297	B-Midface Form Implant Right	60	40	4
	52298	B-Midface Form Implant Left	65	41	4
	52299	B-Midface Form Implant Right	65	41	4
BLOOCELL	EXTENDED MA	LAR SHAPES			
	CAT NUMBER	DESCRIPTION	A mm	B mm	C mm
	52302	Bloocell Extended , small - left	45	24	3
	52303	Bloocell Extended , small - right	45	24	3
	52304	Bloocell Extended , medium - left	50	26	4
	52305	Bloocell Extended , medium - right	50	26	4
	52306	Bloocell Extended , large - left	55	27	5
	52307	Bloocell Extended , large - right	55	27	5
BLOOCELL	RZ MALAR IMF	PLANT			
	CAT NUMBER	DESCRIPTION	A mm	B mm	C mm
	52308	Bloocell rz malar left	50	19	3
	52309	Bloocell rz malar right	50	19	3
	52310	Bloocell rz malar left	50	19	5
	52311	Bloocell rz malar right	50	19	5





BLOOCELL M MALAR IMPLANT						
	CAT NUMBER	DESCRIPTION	A mm	B mm	C mm	D mm
	52312	Bloocell m malar left	64	19	3	15
	52313	Bloocell m malar right	64	19	3	15
	52314	Bloocell m malar left	64	19	4,5	17
	52315	Bloocell m malar right	64	19	4,5	17
BLOOCELL	NASAL DORSA	L				
	CAT NUMBER	DESCRIPTION		A mm	B mm	C mm
	52316	Bloocell Nasal Dorsal		43	22	16
BLOOCELL	NASAL DORSU	IM				
	CAT NUMBER	DESCRIPTION		A mm	B mm	C mm
1	52326	Bloocell Nasal Dorsum		4	4	45
	52327	Bloocell Nasal Dorsum		4	4	55
	52328	Bloocell Nasal Dorsum		5	5	45
	52329	Bloocell Nasal Dorsum		5	5	55
	52330	Bloocell Nasal Dorsum		9	9	55
BLOOCELL	NASAL DORSL					
	CAT NUMBER	DESCRIPTION		A mm	B mm	C mm
	52331	Nasal		41	3,1	9
	52332	Nasal Small		53	5	
	52333	Nasal Large		68	9	
	52334	Nasal S		67	6,4	





BLOOCELL	NASAL AND						
	CAT NUMBER	DESCRIPTION	A mm	B mm	C mm		
U	52335	Bloocell Nasal AND	22	37	0,5		
BLOOCELL	BLOOCELL NASAL SHEET						
	CAT NUMBER	DESCRIPTION	A mm	B mm	C mm		
	52336	Bloocell Nasal Sheet	40	9	1,1		
BLOOCELL	NASAL VALVE						
	CAT NUMBER	DESCRIPTION	A mm	B mm	C mm		
	52337	Bloocell External Nasal Valve	25	11	0,85		
	52338	Bloocell External Nasal Valve	25	11	0,6		
BLOOCELL LATERAL NASAL VALVE							
	CAT NUMBER	DESCRIPTION	A mm	B mm	C mm		
	52339	Bloocell Lateral Nasal Valve	13	3,5	0,9		
BLOOCELL	PARANASAL						
	CAT NUMBER	DESCRIPTION	A mm	B mm	C mm		
	52340	Bloocell Paranasal left	28	26	4,5		
	52341	Bloocell Paranasal right	28	26	4,5		
	52342	Bloocell Paranasal left	30	28	7		
	52343	Bloocell Paranasal right	30	28	7		





BLOOCELL	. FLEX BARRIEF	2			
	CAT NUMBER	DESCRIPTION	A mm	B mm	C mm
	52405	BFB small Left	61	78	18
	52406	BFB small Right	61	78	18
	52407	BFB medium Left	74	93	20
	52408	BFB medium Right	74	93	20
	52409	BFB large Left	82	105	20
	52410	BFB large Right	82	105	20
	52411	BFB Small	70	70	10
	52412	BFB Medium	86	88	15
	52413	BFB Large	95	98	18
BLOOCELL	. TITAN W				
<i>~</i> ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	CAT NUMBER	DESCRIPTION	A mm	B mm	THICNESS mm
	52270	BTW	40mm	60mm	0,85mm
	52271	BTW	40mm	60mm	1,00mm
BLOOCELL		DIAL ORBITAL IMPLANT			
	CAT NUMBER	DESCRIPTION	A mm	B mm	THICNESS mm
	52288	B-Inferior medial orbital left	25	26	2,50 mm
	52289	B-Inferior medial orbital right	25	26	2,50 mm





BLOOCELL 3 D ORBITAL FLOOR						
	CAT NUMBER	DESCRIPTION				
and the second	52250	Bloocell Titan 3d Orbital Floor, E	3tb Left Small			
8	52251	Bloocell Titan 3d Orbital Floor, E	3tb Right Sma <b>ll</b>			
	52252	Bloocell Titan 3d Orbital Floor, E	3tb Left Large			
Ê	52253	Bloocell Titan 3d Orbital Floor, E	3tb Right Large			
BLOOCELL TITAN ORBITAL FLOOR AND WALL						
	CAT NUMBER	DESCRIPTION	A mm	B mm	C mm	THICKNESS
	52254	MAX BTOF	42mm	41mm	1,0mm	0,85mm
	52255	MAX BTOF left	42mm	41mm	1,0mm	1,0mm
	52256	MAX BTOF right	42mm	41mm	1,0mm	1,0mm
BLOOCELL	® T BITAL FLOO	DR AND WALL				
	CAT NUMBER	DESCRIPTION	A mm	B mm	C mm	THICKNESS
	52257	BTOF	42mm	41mm	1,0mm	0,85mm
all s	52258	BTOF left	42mm	41mm	1,0mm	1,0mm
	52259	BTOF right	42mm	41mm	1,0mm	1,0mm
	52260	BT	42mm	41mm	1,0mm	1,0mm





BLOOCELI	TITAN IMPLAN	пз			
	CAT NUMBER	DESCRIPTION	A mm	B mm	C mm
	52260	BTI	50mm	76mm	0,85mm
	52261	BTI	38mm		
	52262	BTI	50mm		
	52263	BTI	38mm		
	52264	BTI	50mm		
	52265	BTI	38mm		
	52266	BTI	50mm		
	52267	BTI	38mm		
	52268	BTI	50mm		
	52269	BTI	38mm		



# Do you hear Symphony?





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