

Hemostatic technology mapping by procedure (European Union)

Category	Procedure	Most common technology (select)	WoundClot® Surgical (NONRCS)
Orthopedics	Hip arthroplasty (primary)	Gelatin-based (sponges/matrices)	Usable (all procedures)
Orthopedics	Knee arthroplasty (primary)	Gelatin-based (sponges/matrices)	Usable (all procedures)
Orthopedics	Hip fracture fixation (ORIF)	Gelatin-based (sponges/matrices)	Usable (all procedures)
Orthopedics	Knee arthroscopy (meniscus/chondroplasty)	Gelatin-based (sponges/matrices)	Usable (all procedures)
Orthopedics	Shoulder arthroscopy (rotator cuff/impingement)	Gelatin-based (sponges/matrices)	Usable (all procedures)
Orthopedics	Revision joint arthroplasty	Gelatin-based (sponges/matrices)	Usable (all procedures)
Orthopedics	Ankle fracture ORIF	Gelatin-based (sponges/matrices)	Usable (all procedures)
Orthopedics	Distal radius (wrist) fracture fixation	Gelatin-based (sponges/matrices)	Usable (all procedures)
Orthopedics	Lumbar decompression (ortho/spine)	Gelatin-based (sponges/matrices)	Usable (all procedures)

Orthopedics	Spinal fusion (lumbar/cervical)	Gelatin-based (sponges/matrices)	Usable (all procedures)
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General Surgery	Inguinal hernia repair	ORC (oxidized regenerated cellulose)	Usable (all procedures)
General Surgery	Ventral/incisional hernia repair	ORC (oxidized regenerated cellulose)	Usable (all procedures)
General Surgery	Laparoscopic cholecystectomy	ORC (oxidized regenerated cellulose)	Usable (all procedures)
General Surgery	Appendectomy	ORC (oxidized regenerated cellulose)	Usable (all procedures)
General Surgery	Hemorrhoidectomy / advanced hemorrhoid procedures	ORC (oxidized regenerated cellulose)	Usable (all procedures)
General Surgery	Breast benign surgery (excision/biopsy)	ORC (oxidized regenerated cellulose)	Usable (all procedures)
General Surgery	Colectomy / colon resection	ORC (oxidized regenerated cellulose)	Usable (all procedures)
General Surgery	Small bowel resection	ORC (oxidized regenerated cellulose)	Usable (all procedures)
General Surgery	Adhesiolysis (laparoscopic/laparotomy)	ORC (oxidized regenerated cellulose)	Usable (all procedures)

General Surgery	Abscess incision & drainage / debridement	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Obstetrics	Cesarean section	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Obstetrics	Operative vaginal delivery (vacuum/forceps)	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Obstetrics	Perineal tear repair (3rd/4th degree)	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Obstetrics	Manual removal of placenta / uterine exploration	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Obstetrics	Postpartum hemorrhage surgical control (e.g., uterine sutures/balloon + surgical)	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Obstetrics	Cervical cerclage	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Obstetrics	D&C for retained products of conception	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Obstetrics	Repair of obstetric fistula	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Obstetrics	Peripartum hysterectomy (for hemorrhage)	ORC (oxidized regenerated cellulose)	Usable (all procedures)

Obstetrics	Salpingectomy at delivery (where practiced)	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Gynecology	Hysterectomy (all approaches)	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Gynecology	Sterilization / salpingectomy	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Gynecology	D&C / uterine evacuation (non-obstetric)	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Gynecology	Endometrial ablation	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Gynecology	Myomectomy	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Gynecology	Oophorectomy / ovarian cystectomy	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Gynecology	Pelvic organ prolapse repair	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Gynecology	Incontinence surgery (mid-urethral sling)	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Gynecology	Diagnostic/operative hysteroscopy	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Gynecology	Laparoscopy for endometriosis	ORC (oxidized regenerated cellulose)	Usable (all procedures)

Cardiovascular	Coronary angiography ± PCI (stent)	Gelatin-based (sponges/matrices)	Usable (all procedures)
Cardiovascular	Pacemaker implantation	Gelatin-based (sponges/matrices)	Usable (all procedures)
Cardiovascular	ICD implantation	Gelatin-based (sponges/matrices)	Usable (all procedures)
Cardiovascular	CABG (coronary bypass surgery)	Gelatin-based (sponges/matrices)	Usable (all procedures)
Cardiovascular	Valve repair/replacement (open)	Gelatin-based (sponges/matrices)	Usable (all procedures)
Cardiovascular	TAVI/TAVR (structural heart)	Gelatin-based (sponges/matrices)	Usable (all procedures)
Cardiovascular	Atrial fibrillation ablation	Gelatin-based (sponges/matrices)	Usable (all procedures)
Cardiovascular	Cardioversion with TEE pathway	Gelatin-based (sponges/matrices)	Usable (all procedures)
Cardiovascular	Catheter ablation (SVT/VT spectrum)	Gelatin-based (sponges/matrices)	Usable (all procedures)
Cardiovascular	LVAD implantation	Gelatin-based (sponges/matrices)	Usable (all procedures)

Vascular Surgery	Varicose vein procedures (endovenous/stripping)	Gelatin-based (sponges/matrices)	Usable (all procedures)
Vascular Surgery	Peripheral angioplasty/stenting	Gelatin-based (sponges/matrices)	Usable (all procedures)
Vascular Surgery	EVAR (endovascular AAA repair)	Gelatin-based (sponges/matrices)	Usable (all procedures)
Vascular Surgery	Open AAA repair	Gelatin-based (sponges/matrices)	Usable (all procedures)
Vascular Surgery	Carotid endarterectomy	Gelatin-based (sponges/matrices)	Usable (all procedures)
Vascular Surgery	AV fistula creation/revision (dialysis access)	Gelatin-based (sponges/matrices)	Usable (all procedures)
Vascular Surgery	Lower-limb bypass grafting	Gelatin-based (sponges/matrices)	Usable (all procedures)
Vascular Surgery	Thrombectomy / embolectomy	Gelatin-based (sponges/matrices)	Usable (all procedures)
Vascular Surgery	Endovascular thrombolysis procedures	Gelatin-based (sponges/matrices)	Usable (all procedures)
Vascular Surgery	Major amputation (critical limb ischemia/trauma)	Gelatin-based (sponges/matrices)	Usable (all procedures)

Urology	Cystoscopy ± biopsy/fulguration	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Urology	Ureteroscopy for stones ± stent	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Urology	TURP / endoscopic BPH surgery	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Urology	Prostate biopsy (transperineal/rectal)	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Urology	Circumcision / minor penile procedures	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Urology	Nephrectomy (partial/total)	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Urology	Radical prostatectomy	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Urology	TURBT (bladder tumor resection)	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Urology	PCNL (percutaneous nephrolithotomy)	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Urology	Orchiectomy / testicular exploration	ORC (oxidized regenerated cellulose)	Usable (all procedures)

ENT	Tonsillectomy ± adenoidectomy	Gelatin-based (sponges/matrices)	Usable (all procedures)
ENT	Myringotomy ± tympanostomy tubes	Gelatin-based (sponges/matrices)	Usable (all procedures)
ENT	Endoscopic sinus surgery (FESS)	Gelatin-based (sponges/matrices)	Usable (all procedures)
ENT	Septoplasty/turbinate reduction	Gelatin-based (sponges/matrices)	Usable (all procedures)
ENT	Laryngoscopy with biopsy	Gelatin-based (sponges/matrices)	Usable (all procedures)
ENT	Tympanoplasty	Gelatin-based (sponges/matrices)	Usable (all procedures)
ENT	Mastoidectomy	Gelatin-based (sponges/matrices)	Usable (all procedures)
ENT	Parotidectomy / submandibular gland surgery	Gelatin-based (sponges/matrices)	Usable (all procedures)
ENT	Thyroid surgery (where ENT performs)	Polysaccharide powder	Usable (all procedures)
ENT	Tracheostomy	Gelatin-based (sponges/matrices)	Usable (all procedures)

Gastroenterology (Endoscopic)	Gastroscopy (EGD) ± biopsy	Polysaccharide powder	Usable (all procedures)
Gastroenterology (Endoscopic)	Colonoscopy ± polypectomy	Polysaccharide powder	Usable (all procedures)
Gastroenterology (Endoscopic)	ERCP ± sphincterotomy/stent	Polysaccharide powder	Usable (all procedures)
Gastroenterology (Endoscopic)	PEG tube placement	Polysaccharide powder	Usable (all procedures)
Gastroenterology (Endoscopic)	Endoscopic hemostasis (ulcer/varices)	Polysaccharide powder	Usable (all procedures)
Gastroenterology (Endoscopic)	Endoscopic dilation (esophagus)	Polysaccharide powder	Usable (all procedures)
Gastroenterology (Endoscopic)	Endoscopic mucosal resection (EMR)	Polysaccharide powder	Usable (all procedures)
Gastroenterology (Endoscopic)	Endoscopic ultrasound (EUS) ± biopsy	Polysaccharide powder	Usable (all procedures)
Gastroenterology (Endoscopic)	Variceal band ligation	Polysaccharide powder	Usable (all procedures)
Gastroenterology (Endoscopic)	Endoscopic stent placement (GI obstruction)	Polysaccharide powder	Usable (all procedures)

Colorectal Surgery	Anal fissure surgery (lateral sphincterotomy)	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Colorectal Surgery	Proctologic abscess/fistula surgery	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Colorectal Surgery	Colectomy for colorectal cancer	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Colorectal Surgery	Colectomy for diverticular disease	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Colorectal Surgery	Rectal cancer resection (LAR/APR)	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Colorectal Surgery	Stoma creation	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Colorectal Surgery	Stoma closure	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Colorectal Surgery	Adhesiolysis for bowel obstruction	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Colorectal Surgery	Ileostomy/colostomy revision	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Colorectal Surgery	Pelvic floor / rectopexy procedures	ORC (oxidized regenerated cellulose)	Usable (all procedures)

HPB (Hepatobiliary & Pancreatic)	Complex cholecystectomy / re-do	Fibrin sealants	Usable (all procedures)
HPB (Hepatobiliary & Pancreatic)	Bile duct exploration	Fibrin sealants	Usable (all procedures)
HPB (Hepatobiliary & Pancreatic)	Liver resection (segmentectomy/lobectomy)	Fibrin sealants	Usable (all procedures)
HPB (Hepatobiliary & Pancreatic)	Pancreaticoduodenectomy (Whipple)	Fibrin sealants	Usable (all procedures)
HPB (Hepatobiliary & Pancreatic)	Distal pancreatectomy	Fibrin sealants	Usable (all procedures)
HPB (Hepatobiliary & Pancreatic)	Biliary bypass surgery	Gelatin-based (sponges/matrices)	Usable (all procedures)
HPB (Hepatobiliary & Pancreatic)	Splenectomy	Fibrin sealants	Usable (all procedures)
HPB (Hepatobiliary & Pancreatic)	Drainage of hepatic abscess (operative)	Fibrin sealants	Usable (all procedures)
HPB (Hepatobiliary & Pancreatic)	Liver tumor ablation (operative adjunct)	Collagen-based	Usable (all procedures)
HPB (Hepatobiliary & Pancreatic)	Management of liver trauma (operative)	Fibrin sealants	Usable (all procedures)

Thoracic Surgery	Pleural drainage / VATS pleurodesis	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Thoracic Surgery	Lung wedge resection (VATS)	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Thoracic Surgery	Lobectomy (lung cancer)	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Thoracic Surgery	Mediastinoscopy/biopsy	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Thoracic Surgery	Decortication (empyema)	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Thoracic Surgery	Bullectomy (pneumothorax)	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Thoracic Surgery	Esophagectomy	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Thoracic Surgery	Hiatal hernia repair (where thoracic performs)	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Thoracic Surgery	Chest wall resection	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Thoracic Surgery	Tracheal surgery (rare)	ORC (oxidized regenerated cellulose)	Usable (all procedures)

Neurosurgery	Lumbar decompression (discectomy/laminectomy)	Gelatin-based (sponges/matrices)	Usable (all procedures)
Neurosurgery	Cervical decompression	Gelatin-based (sponges/matrices)	Usable (all procedures)
Neurosurgery	Ventricular shunt placement	Gelatin-based (sponges/matrices)	Usable (all procedures)
Neurosurgery	Craniotomy for tumor	Gelatin-based (sponges/matrices)	Usable (all procedures)
Neurosurgery	Burr hole / subdural evacuation	Gelatin-based (sponges/matrices)	Usable (all procedures)
Neurosurgery	Aneurysm clipping/coiling (surgical or endovascular)	Gelatin-based (sponges/matrices)	Usable (all procedures)
Neurosurgery	Complex spine fusion	Gelatin-based (sponges/matrices)	Usable (all procedures)
Neurosurgery	Stereotactic intracranial biopsy	Gelatin-based (sponges/matrices)	Usable (all procedures)
Neurosurgery	Deep brain stimulation	Gelatin-based (sponges/matrices)	Usable (all procedures)
Neurosurgery	Decompressive craniectomy (trauma)	Gelatin-based (sponges/matrices)	Usable (all procedures)

Trauma & Acute Care	Wound debridement / washout	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Trauma & Acute Care	Damage-control laparotomy	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Trauma & Acute Care	Splenectomy (trauma)	Fibrin sealants	Usable (all procedures)
Trauma & Acute Care	Bowel injury repair/resection	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Trauma & Acute Care	Chest tube insertion	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Trauma & Acute Care	Fasciotomy	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Trauma & Acute Care	Vascular repair for trauma	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Trauma & Acute Care	External fixation (temporary)	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Trauma & Acute Care	Skin grafting after trauma/burn	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Trauma & Acute Care	Hemorrhage control packing (pelvic/abdominal)	ORC (oxidized regenerated cellulose)	Usable (all procedures)

Plastic & Reconstructive	Skin lesion excision/repair	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Plastic & Reconstructive	Skin grafting	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Plastic & Reconstructive	Regional flap reconstruction	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Plastic & Reconstructive	Breast reconstruction	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Plastic & Reconstructive	Hand tendon repair	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Plastic & Reconstructive	Scar revision	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Plastic & Reconstructive	Pressure ulcer debridement + flap	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Plastic & Reconstructive	Burn excision and grafting	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Plastic & Reconstructive	Free flap reconstruction (microvascular)	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Plastic & Reconstructive	Craniofacial reconstruction	ORC (oxidized regenerated cellulose)	Usable (all procedures)

Dermatologic Surgery	Excision of benign skin lesions	Polysaccharide powder	Usable (all procedures)
Dermatologic Surgery	Excision of basal cell carcinoma	Polysaccharide powder	Usable (all procedures)
Dermatologic Surgery	Excision of squamous cell carcinoma	Polysaccharide powder	Usable (all procedures)
Dermatologic Surgery	Mohs surgery	Polysaccharide powder	Usable (all procedures)
Dermatologic Surgery	Skin biopsies (punch/shave)	Polysaccharide powder	Usable (all procedures)
Dermatologic Surgery	Abscess incision & drainage	Polysaccharide powder	Usable (all procedures)
Dermatologic Surgery	Nail surgery (ingrown nail)	Polysaccharide powder	Usable (all procedures)
Dermatologic Surgery	Curettage & electrodesiccation	Polysaccharide powder	Usable (all procedures)
Dermatologic Surgery	Local flap closure / reconstruction	Polysaccharide powder	Usable (all procedures)
Dermatologic Surgery	Sentinel node biopsy (melanoma pathway)	Polysaccharide powder	Usable (all procedures)

Endocrine Surgery	Thyroidectomy (partial/total)	Polysaccharide powder	Usable (all procedures)
Endocrine Surgery	Parathyroidectomy	Polysaccharide powder	Usable (all procedures)
Endocrine Surgery	Adrenalectomy	Polysaccharide powder	Usable (all procedures)
Endocrine Surgery	Neck dissection for thyroid malignancy	Polysaccharide powder	Usable (all procedures)
Endocrine Surgery	Re-operative thyroid surgery	Polysaccharide powder	Usable (all procedures)
Endocrine Surgery	Thyroid lobectomy	Polysaccharide powder	Usable (all procedures)
Endocrine Surgery	Complex parathyroid exploration	Polysaccharide powder	Usable (all procedures)
Endocrine Surgery	Retroperitoneal endocrine tumor excision	Polysaccharide powder	Usable (all procedures)
Endocrine Surgery	Pancreatic endocrine tumor surgery	Fibrin sealants	Usable (all procedures)
Endocrine Surgery	MEN-related multi-gland surgery	Polysaccharide powder	Usable (all procedures)

Oncology Surgery	Breast cancer surgery (lumpectomy/mastectomy)	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Oncology Surgery	Colorectal cancer resection	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Oncology Surgery	Radical prostatectomy (cancer)	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Oncology Surgery	Lung cancer surgery (lobectomy/wedge)	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Oncology Surgery	Melanoma wide local excision ± SLNB	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Oncology Surgery	Hysterectomy for gynecologic cancer	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Oncology Surgery	Ovarian cancer debulking	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Oncology Surgery	Partial nephrectomy/nephrectomy (cancer)	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Oncology Surgery	Head & neck tumor resection	ORC (oxidized regenerated cellulose)	Usable (all procedures)
Oncology Surgery	Liver metastasis resection (HPB oncology)	ORC (oxidized regenerated cellulose)	Usable (all procedures)

Interventional Radiology	Central venous access (ports/tunneled lines)	Collagen-based	Usable (all procedures)
Interventional Radiology	Image-guided abscess drainage	Collagen-based	Usable (all procedures)
Interventional Radiology	Angiography with embolization (bleeding control)	Collagen-based	Usable (all procedures)
Interventional Radiology	Peripheral angioplasty (IR/vascular)	Collagen-based	Usable (all procedures)
Interventional Radiology	TIPS procedure	Collagen-based	Usable (all procedures)
Interventional Radiology	Percutaneous biliary drainage/stenting	Collagen-based	Usable (all procedures)
Interventional Radiology	Nephrostomy placement	Collagen-based	Usable (all procedures)
Interventional Radiology	Tumor ablation (RFA/microwave)	Collagen-based	Usable (all procedures)
Interventional Radiology	Uterine artery embolization	Collagen-based	Usable (all procedures)
Interventional Radiology	Vertebroplasty/kyphoplasty	Collagen-based	Usable (all procedures)

Dental & Maxillofacial	Tooth extraction (incl impacted wisdom teeth)	Collagen-based	Usable (all procedures)
Dental & Maxillofacial	Dental abscess drainage	Collagen-based	Usable (all procedures)
Dental & Maxillofacial	Mandible fracture ORIF	Collagen-based	Usable (all procedures)
Dental & Maxillofacial	Zygomatic/maxillary fracture ORIF	Collagen-based	Usable (all procedures)
Dental & Maxillofacial	TMJ arthroscopy/arthroplasty	Collagen-based	Usable (all procedures)
Dental & Maxillofacial	Orthognathic surgery	Collagen-based	Usable (all procedures)
Dental & Maxillofacial	Cleft lip/palate repair	Collagen-based	Usable (all procedures)
Dental & Maxillofacial	Maxillofacial tumor excision	Collagen-based	Usable (all procedures)
Dental & Maxillofacial	Bone grafting / implants (hospital cases)	Collagen-based	Usable (all procedures)
Dental & Maxillofacial	Salivary duct/gland procedures	Collagen-based	Usable (all procedures)