

Vivostat® in abdominal surgery

Abdominal surgery covers a vast number of procedures. Many of these are performed with minimally invasive techniques, and the ability to use the Vivostat® Endoscopic Applicator has proven very useful. Vivostat® is being used in a wide range of these procedures - such as:



- Liver part resections
- Pancreas
- Spleen
- Hernia mesh fixation
- Fistulas

Some general challenges that apply to most abdominal procedures are listed below:

- Haemostasis
- Sealing of the treatment area

- Gluing e.g. hernia mesh fixation
- Regeneration of tissue

Vivostat offers the surgeon a choice of two products which can help overcome these challenges. If haemostasis, sealing or gluing are the primary challenges, Vivostat® Fibrin Sealant is an excellent choice. If it is a combination of haemostasis, sealing, gluing and regeneration of tissue, Vivostat PRF® is the ideal product.

[Vivostat Autologous Fibrin Sealant](#) is an autologous sealant that outperforms other fibrin sealants on parameters such as polymerisation, elasticity, adhesion and impact on tissue.

[Vivostat PRF®](#) is a second generation platelet enriched product acting both as a haemostat/sealant while at the same time supporting tissue regeneration and wound healing.

Supporting evidence in Abdominal surgery

[Mesh Fixation with Autologous Platelet-Rich Fibrin Sealant in Inguinal Hernia Repair](#)

I.H.J.T. de Hingh, S.W. Nienhuijs, E.P. Overdevest, K. Scheele, P.A.M. Everts

European Surgical Research 2009; 43: 306–309

[Experimental study of a novel fibrin sealant for achieving haemostasis following partial hepatectomy](#)

B.R. Davidson, S. Burnett, M.S. Javed, A. Seifalian, D. Moore, N. Doctor

British Journal of Surgery 2000; 87: 790-795

[Laparoskopische Eingriffe an der Milz](#)

S. Uranüs, J. Pfeifer, O. Alimoglu, T. Hzmen

Chirurgische Gastro enterologie 2004; 20 (2):35–41

[Autologous fibrin sealant \(Vivostat\) for mesh fixation in laparoscopic transabdominal preperitoneal hernia repair](#)

Schmidt SC, Langrehr JM

Endoscopy 2006; 38:841 - 844

[Laparoscopy in Abdominal Trauma](#)

S. Uranüs, K. Dorr

European Journal of Trauma and Emergency Surgery 2010; 36: 19–24

Platelet-Rich Fibrin Sealant as a Treatment for Complex Perianal Fistulas: A Multicentre Study

F.J Pérez Lara et. al.

The Society for Surgery of the Alimentary Tract. 2014

Using autologous platelet-rich plasma for the treatment of complex fistulas

Moreno-Serrano et. al.

Revista Española de Enfermedades Digestivas 2016; Vol 108, 123-128

Abdominal video

These videos illustrate how Vivostat® is used in different abdominal procedures.

Liver surgery - Anatomical left lateral sectoriectomy from Vivostat A/S on Vimeo.

Distal Pancreatectomy from Vivostat A/S on Vimeo.

Laparoscopic hernia repair from Vivostat A/S on Vimeo.

Vivostat PRF® in burns

For decades fibrin sealant has been used for burns as a scaffold for re-epithelialization. Vivostat PRF® provides this scaffold and combines it with a high concentration of platelets relevant for tissue regeneration. Moreover, it offers the surgeon the opportunity to co-deliver skin cells/stem cells with the Vivostat PRF® solution.



The high concentration of fibrin found in Vivostat PRF[®], furthermore, acts as a glue enabling the surgeon to use Vivostat PRF[®] for graft fixations. Using Vivostat PRF[®] to fixate the graft allows the surgeon to use less staples or none at all depending on the location of the burn. The fibrin also acts as a haemostatic reducing the risk of haematoma formation, which may cause graft loss. Any remaining Vivostat PRF[®] can be applied to the graft harvest site to speed up tissue regeneration and reduce pain for the patient.

Vivostat[®] Co-Delivery

Skin cells/stem cells are expensive and it is crucial that they do not run off the burn or stick to the dressing. By using the Vivostat[®] Co-Delivery system it is possible to co-deliver skin cells/stem cells to the burn with the Vivostat PRF[®] solution i.e.

Vivostat PRF[®] is used as a carrier of the cells.



Co-

delivering the cells with the Vivostat

PRF® solution ensures that the cells stay where they are applied as the fibrin found in Vivostat PRF® polymerizes upon application.

Supporting evidence in Burns

[Evaluation of platelet-rich fibrin in deep dermal burn: a case study](#)

Fontein D., Burger M., Mannil L., Giovanoli P., Plock J.

Abstract presented at 53. Congress of Swiss Plastic Surgery

[Successful application of keratinocyte suspension using autologous fibrin spray](#)

Johnstone P., Kwei J.S., Filobos G., Lewis D., Jeffery S.

Journal of the International Society for Burn Injuries

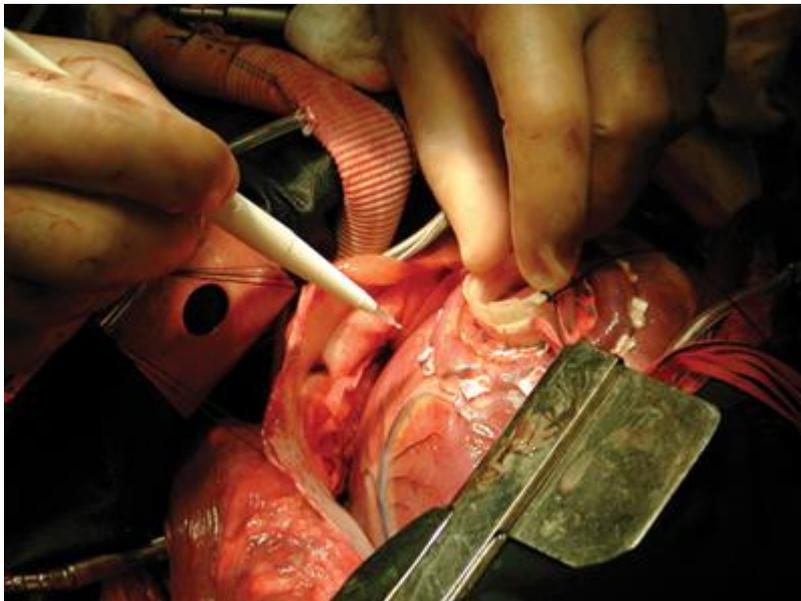
Burns video

This video shows Vivostat PRF® utilized in a burns surgery on the back. In this video Vivostat® is Co-Delivered with keratinocytes.

Burns surgery from [Vivostat A/S](#) on [Vimeo](#).

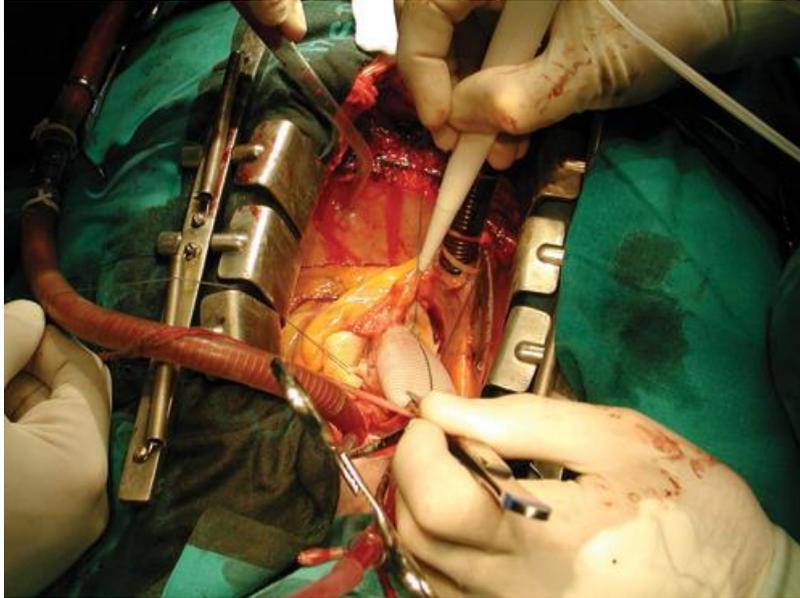
Vivostat® in cardiac surgery

For more than a decade, Vivostat® has been used in cardiac surgery. Cardiac surgeons find Vivostat® most useful for the following surgical procedures:



- Coronary artery bypass grafting (CABG)
- Aortic anastomosis during CABG
- Congenital heart surgery
- Implantation of vascular prostheses
- Operation for active endocarditis of the aortic root
- Type A aortic dissection
- Sternal wound healing
- Surgery in high-risk patients, i.e. patients in anticoagulation therapy, Plavix therapy and diabetic patients

All though great advances in cardiac surgery have been made challenges still exist – some of these are:



- Haemostasis of diffuse bleedings
- Sealing of suture lines
- Regeneration of tissue

Vivostat® offers the surgeon a choice of two products that can help with the above challenges. If haemostasis and/or sealing are the primary challenges, Vivostat® Fibrin Sealant is an excellent choice. If the primary challenge is tissue regeneration, Vivostat PRF® is the best choice

Vivostat Autologous Fibrin Sealant is an autologous sealant that outperforms other fibrin sealants on parameters such as polymerisation, elasticity, adhesion and impact on tissue.

Vivostat PRF® is a second generation platelet enriched product acting both as a haemostat/sealant while at the same time supporting tissue regeneration and wound healing.

Supporting evidence in Cardiac surgery

[Application of Platelet Rich Fibrin to prevent infection in the implantation of HeartWare®-LVAD-system](#)

R. -U. Kühnel, T. Müller, M. Hartrumpf, M. Erb, J. M. Albes

Kardiotechnik 2013: 22(2):43-45

Use of topical haemostatic agents to control perioperative bleeding in cardiac surgery

P. Nardi et al.

Presented at The Onassis Cardiac Surgery Center, September 2010

Minimally invasive Ross procedure through partial upper sternotomy

U. F.W. Franke, M. Albert, C. Rustenbach and H. Baumbach

Interact CardioVasc Thorac Surg 2009;9:545-546

Important steps to avoid tamponade in minimally invasive aortic valve replacement

S. Foghsgaard, H. K. Kjaergard

Department of Cardiothoracic Surgery, Gentofte Hospital, Denmark

A Comparison of the Haemostatic Effect of Vivostat Patient Derived Fibrin Sealant

J. B. Hanks, H. K. Kjaergard, D. A. Hollingsbee

European Surgical Research 2003; 35: 439-444

Vivostat System Autologous Fibrin Sealant

H. K. Kjaergard, H. R. Trumbull

The Annals of Thoracic Surgery 1998; 66: 482-486

Application of platelet rich fibrin for infection prophylaxis during implantation of HeartWare® LVAD systems

R.-U. Kuehnel, T. Mueller, L. Romeike, M. Erb, J.M. Albes

Immanuel Klinikum Bernau Herzzentrum Brandenburg, Abteilung für Herzchirurgie, 2014

Sternal wound healing

Topical use of autologous fibrin glue in high-risk CASG patients

D. Wiedemann, D. Vill, N. Bonaros, G. Laufer, T. Schachner, A. Kocher

European surgery 2011;43/5: 309-314

The laparoscopically harvested omental flap for deep sternal wound infection

J. Wingerden, M. Coret, C. Nieuwenhoven, E. Totté

European Journal Cardiothorac Surgery 2010; 37: 87-92

Bleeding from the sternal marrow can be stopped using Vivostat® patient-derived fibrin sealant

H. K. Kjaergard, H. R. Trumbull

The Annals of Thoracic Surgery 2000; 69: 1173-1175

The combination of vacuum therapy and Platelet Rich Fibrin - a new option in the treatment of mediastinitis

R.-U. Kuehnel, L.Michera, G.Loladze, Y. Kuhn, J. Albes

Presented at the Deutsche Gesellschaft für Wundheilung und Wundbehandlung congress 2012

Autologous Platelet Rich Fibrin PRF® using Growth Factors as a new Therapeutic Option for Sternal Wound Healing

Kuehnel R.U. et al.

Presented at World Society of Cardiothoracic Surgery 2011

Successful use of Platelet Rich Fibrin therapy (PRF) in post-operative cardiac surgical infected wounds: first reported case series

Datta, Subir

EACTS Daily News 2016; Issue 2

Cardiac video

This video shows how Vivostat® is utilized in an aortic valve/ by-pass procedure.

Vivostat Fibrin Sealant applied on the Aortic Root from Vivostat A/S on Vimeo.

Aortic valve / by-pass procedure from Vivostat A/S on Vimeo.

Vivostat® in neurosurgery

The Vivostat® application system possesses a number of features that are highly beneficial in neurosurgery: The Vivostat® application system offers different spray modes, e.g. “No Air” which means that it has low impact on tissue and vital organs/nerves in the skull. Furthermore,

Vivostat® is applied with extreme accuracy through precision spraying.



Neurosurgeons most often choose Vivostat® for:

- Dural closure
- Repair of dural defects
- Spinal fusions
- Tumor resections
- Filler in “dead spaces”

One of the main challenges in neurosurgery is cerebrospinal fluid (CSF) leakage. Infections are another challenge. The risk of infections increases due to “dead spaces”. It is therefore preferable to fill these with a sterile and autologous product.

Vivostat® offers the surgeon a choice of two products, which can help overcome these challenges. If sealing, gluing and/or haemostasis are the primary challenges, Vivostat® Fibrin Sealant is an excellent choice. If it is a combination of sealing, gluing, haemostasis and regeneration of tissue, Vivostat PRF® is the ideal solution.

Vivostat Autologous Fibrin Sealant is an autologous sealant that outperforms other fibrin sealants on parameters such as polymerisation, elasticity, adhesion and impact on tissue.

Vivostat PRF® is a second generation platelet enriched product acting both as a haemostat/sealant while at the same time supporting tissue regeneration and wound healing.

Supporting evidence in Neurosurgery

[Use of fibrin sealant \(Vivostat®\) in skull base surgery](#)

P.M. Baptista, S. Fernández, B. Bejarano, R. Manrique

University of Navarra, the ENT and Neuro Department, Navarra, Spain

[A safety study of the use of Vivostat® patient-derived fibrin sealant containing tranexamic acid in neurosurgery](#)

L. Poulsgaard, A. Mørck, N.E. Holm

Presented at 18th Annual Meeting of the North American Skull Base Society 2007

[Use of autologous fibrin adhesive in neurosurgery](#)

D. Bovenzi et al

Presented at SIDEM (Società Italiano di Emaferesi e Manipolazione Cellulare) 2007

[Using an Autologous Fibrin Sealant in the Preventing of Cerebrospinal Fluid Leak with Large Skull Base Defect Following Endoscopic Endonasal Transsphenoidal Surgery](#)

Yildirim AE. et al

Turkish Neurosurgery 2013, Vol: 23, No: 6, 736-741

[Autologous fibrin sealant \(Vivostat®\) in the neurosurgical practice: Part I: Intracranial surgical procedure](#)

Graziano, et al

Surgical Neurology International 2015, 6:77.

[Autologous fibrin sealant \(Vivostat®\) in the neurosurgical practice: Part II: Vertebro-spinal procedures](#)

Graziano. et al

Surgical Neurology International 2016, Vol: 7, Suppl 3

[Vivostat: an autologous fibrin sealant as useful adjunct in endoscopic transnasal CSF-leak repair](#)

Tomazic et. al.

Department of General Otorhinolaryngology, Head and Neck Surgery, ENT-University Hospital

Graz, 2014

Neuro video

The following videos illustrate how Vivostat® is used in Neurosurgery.

[Preventing CSF leaks with Vivostat Fibrin Sealant](#) from [Vivostat A/S](#) on [Vimeo](#).

[Acoustic neuroma - translabyrinthine approach](#) from [Vivostat A/S](#) on [Vimeo](#).

Vivostat® in orthopedic surgery

Multiple studies have shown the positive effects of fibrin and platelets^{1,2} when used in the following applications:



- Common challenges within orthopaedic surgery are bleeding and regeneration of tissue and bone. The successful handling of these challenges will have a positive effect on complications and re-operations, leading to faster rehabilitation, shorter hospital stay and lower overall procedure costs. Joint replacements
- Connective tissue repair
- Bone Repair

Vivostat offers the surgeon a choice of two products which can help overcome these challenges. If achieving haemostasis is the primary goal, Vivostat® Fibrin Sealant is an excellent choice. If the primary challenge is connective tissue regeneration, Vivostat PRF® is the best choice.

Vivostat Autologous Fibrin Sealant is an autologous sealant that outperforms other fibrin sealants on parameters such as polymerisation, elasticity, adhesion and impact on tissue.

Vivostat PRF® is a second generation platelet enriched product acting both as a haemostat/sealant while at the same time supporting tissue regeneration and wound healing.



1: *The biology of platelet-rich plasma and its application in trauma and orthopaedic surgery* · Alsousou J et al. · *J Bone Joint S.* 2009;91-B:987-96

2: *Fibrin sealant use for minimising peri-operative allogeneic blood transfusion* · Carless P. et al. · *Cochrane Database of Systematic Reviews* · July 2009

Supporting evidence in Orthopaedic surgery

[Cartilage repair evolution in post-traumatic osteochondral lesions of the talus: From open field autologous chondrocyte to bone-marrow-derived cells transplantation](#)

S. Giannini, R. Buda, M. Cavallo, A. Ruffilli, A. Cenacchi, C. Cavallo, F. Vannini
Injury: International Journal of Care of the Injured 2010; 41: 1196–1203

[Use of autologous bone marrow cells concentrate enriched with platelet-rich fibrin on corticocancellous bone allograft for posterolateral multilevel cervical fusion](#)

G. Vadalà, A. Di Martino, M. C. Tirindelli, L. Denaro, V. Denaro
Journal of Tissue Engineering and regenerative Medicine 2008; 2: 515–520

[Femoroacetabular Osteoplasty by means of anterior mini open approach combined with arthroscopy. Surgical Technique and results at a minimum followup of 4 years](#)

V. Bellotti et al.

GIOT Febbraio 2013;39:30-38

[Knee surgeons at London Bridge Hospital get stuck into the use of Biological glues](#)

London Bridge Hospital

Health Matters 2016; Issue 18, p.11

Orthopaedic surgery

Following videos show how Vivostat® is used in orthopaedic surgery.

Cartilage Repair

[Cartilage repair - Chondrotissue graft and Vivostat PRF](#) from [Vivostat A/S](#) on [Vimeo](#).

Meniscal Repair

[Vivostat PRF used for meniscal repair](#) from [Vivostat A/S](#) on [Vimeo](#).

Total Knee Replacement

[Vivostat PRF in Total Knee Replacement - Orthopaedic Surgery](#) from [Vivostat A/S](#) on [Vimeo](#).

Hip Replacement

[Vivostat PRF in Total Hip Replacement](#) from [Vivostat A/S](#) on [Vimeo](#).

Golfer's Elbow

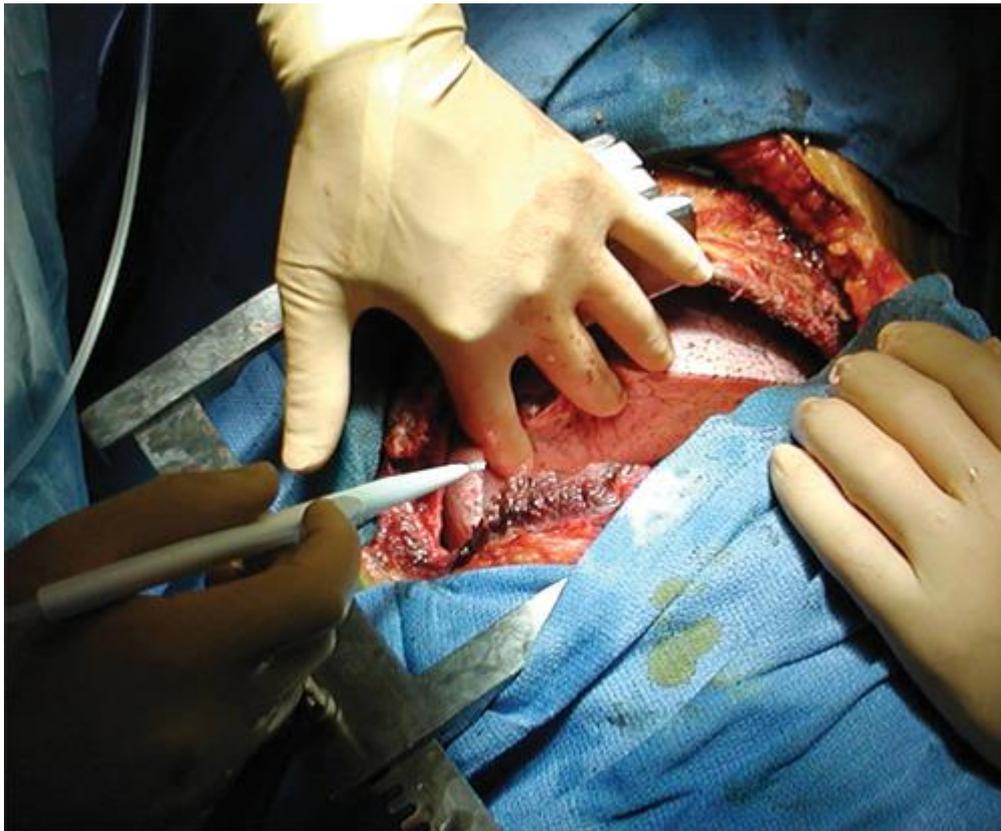
[Medial epicondylitis - Golfer's Elbow HD](#) from [Vivostat A/S](#) on [Vimeo](#).

Meniscal Transplant

[Vivostat PRF - Meniscal transplant](#) from [Vivostat A/S](#) on [Vimeo](#).

Vivostat® in thoracic surgery

One of the most common complications in thoracic surgery is prolonged air leakage. Fibrin sealant has been shown to reduce the incidence of prolonged air leaks and thereby enabling faster drain removal.



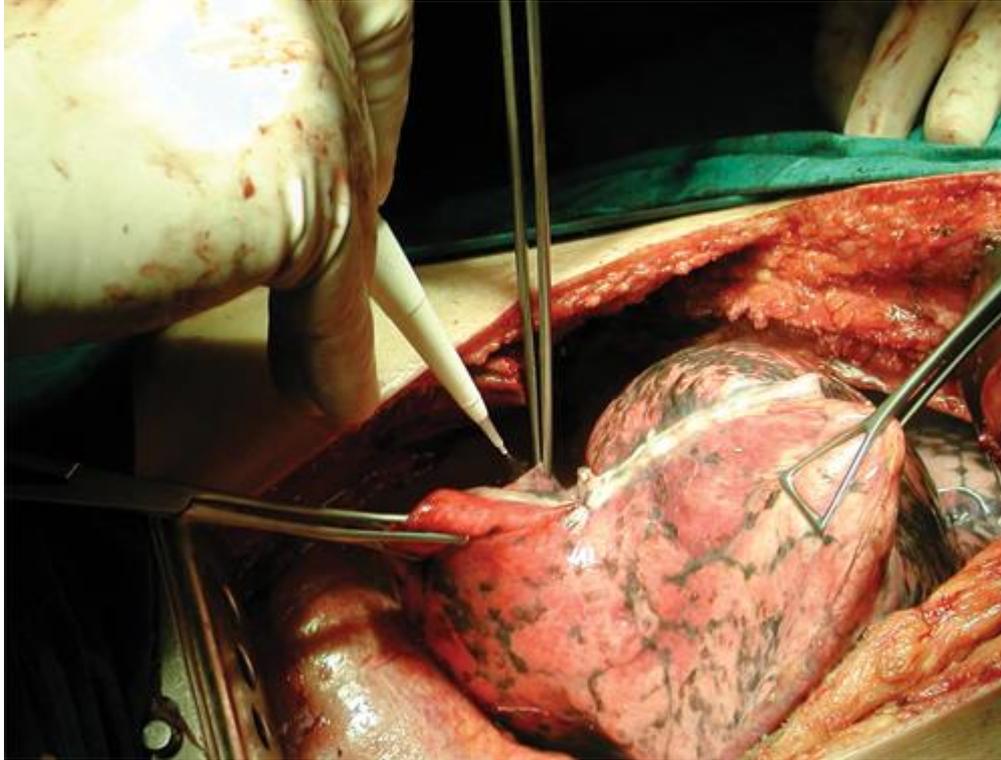
An optimal product solution in this special surgical field provides a number of features that are important for a positive outcome:

- The sealant must be very **elastic**, i.e. it must be possible to apply on a deflated lung without compromising physical properties when the lung is re-inflated
- Polymerization must be very fast to ensure the sealant remains where applied

Surgeons find **Vivostat® Fibrin Sealant** most useful for the following surgical procedures:

- Pulmonary resections

- Extended resections
- Post operative bronchopleural stump fistulae
- Spontaneous pneumothorax
- Bullous emphysema



An added benefit of the Vivostat® system is the option of applying the special [Endoscopic Applicator](#). When using the Endoscopic Applicator, Vivostat® Fibrin Sealant is applied through the same unique nozzle as is the case with the Spraypen®. Due to the pre-bent nozzle, the spray tip can easily be pointed in many directions, offering the surgeon freedom of control of the application, which is not obtainable with conventional systems.

Supporting evidence in Thoracic surgery

[A prospective, randomized trial comparing BioGlue and Vivostat for the control of alveolar air leak](#)

E. Belcher, M. Dusmet, S. Jordan, G. Ladas, E. Lim, P. Goldstraw

The Journal of Thoracic and Cardiovascular Surgery 2010, Volume 140, Number 1; 32-38

[Autologous fibrin sealant reduces the incidence of prolonged air leak and duration of chest tube drainage after lung volume reduction surgery](#)

C. Moser, I. Opitz, W. Zhai, V. Rousson, E. W. Russi, W. Weder, D. Lardinois

The Journal of Thoracic and Cardiovascular Surgery 2008, Volume 136, Number 4; 843-849

[The effect of autologous fibrin sealant \(Vivostat\) on morbidity after pulmonary Lobectomi - a prospective randomized, blinded study](#)

A. Belboul, L. Dernevik, O. Aljassim, B. Skrbic, G. Rådberg, D. Roberts

European Journal of Cardio-thoracic Surgery 2004; 26: 1187–1191

[A prospective randomized trial comparing homologous and autologous fibrin sealants for the control of alveolar air leak](#)

B. Kılıç, E. Erşen, A. Demirkaya, H. Volkan Kara, N. Alizade, M. İşcan, K. Kaynak, A. Turna

European Journal of Thoracic Disease 2017; 9(9): 2915-2922

[Autologous Fibrin sealant \(Vivostat\) in General Surgery Post interventional survey at three exemplary patients](#)

J. Jacobs

Department of Thoracic Surgery and Thoracic Endoscopy; Essen, Germany

[Autologer Fibrinkleber in der Thoraxchirurgie Machbarkeitsstudie in einem Zentrum](#)

J. Jacobs, S. Welter, M. Altmayer, A. Breull, G. Stamatidis

Presented at DACH 2010

Thoracic video

The following videos illustrate how Vivostat® is used in thoracic surgery.

Wedge resection

[Multiple wedge resection](#) from **[Vivostat A/S](#)** on **[Vimeo](#)**.

Bronchial stump insufficiency

[Bronchial stump insufficiency](#) from **[Vivostat A/S](#)** on **[Vimeo](#)**.

Vivostat® in vascular surgery

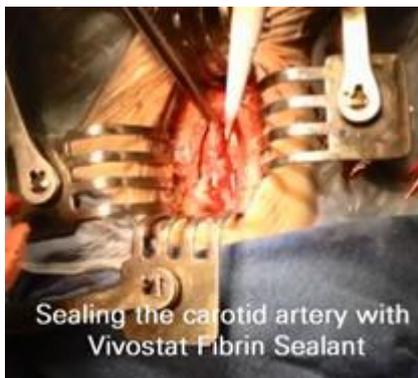
Vascular surgeons find Vivostat® Fibrin Sealant most useful for the following surgical procedures:



- Aortic aneurysm resection
- Peripheral bypass
- Carotid endarterectomy

Fibrin Sealant has been used for centuries to handle challenges in vascular surgery such as:

- Bleeding
- Infections
- Re-operations



Vivostat® Fibrin Sealant is an autologous sealant that outperforms other fibrin sealants on parameters such as polymerisation, elasticity, adhesion and impact on tissue.

Vascular surgeons use Vivostat® Fibrin Sealant because of its exceptional elastic and adhesive performance on the graft surface and its ability to improve haemostasis. With these product characteristics it is possible to protect the anastomosis and reduce the risk of re-operations.

Further, the surgeon is able to use **Vivostat® Co-Delivery** to apply a given substance (e.g. drug or cells) with

the Vivostat® Fibrin Sealant. With Vivostat® Co-Delivery the vascular surgeon is able to reduce infections by applying antibiotics together with Vivostat® Fibrin Sealant.

Vascular videos

These videos illustrate how Vivostat® is used in vascular surgery.

Abdominal aorta

[Vascular surgery - abdominal aorta 2 \(Vivostat\)](#) from [Vivostat A/S](#) on [Vimeo](#).

Aortic diverticulum

[Vascular surgery - Aortic diverticulum \(Vivostat\)](#) from [Vivostat A/S](#) on [Vimeo](#).

Carotid artery

[Vascular surgery - Carotid artery \(Vivostat\)](#) from [Vivostat A/S](#) on [Vimeo](#).

Vivostat PRF® in wound care

Platelets containing essential growth factors are increasingly used in treating challenging wounds. Vivostat Platelet Rich Fibrin (PRF®) has successfully been used to treat:



- Diabetic foot ulcers
- Venous ulcers
- Pressure ulcers
 - Surgical wounds
 - Skin grafts

The combination of platelets and fibrin in Vivostat PRF® is unique. Not only does the fibrin protect the platelets from proteolytic degradation, it also ensures the slow release of growth factors over time and makes the PRF® solution polymerize immediately upon application, which means that the platelets stay where they are applied.

Learn more about the Vivostat PRF® [product characteristics here](#).

The Vivostat® fully automated processing system secures a consistent, high number of platelets extracted from the patient's own blood. Learn more about the [Vivostat® system here](#)

Vivostat A/S also offers wound care specialists the flexible wound treatment, [Vivostat® Wound Therapy](#), that combines Growth Factors, Antibiotics and Vagus Stimulation. Vivostat® Wound Therapy consists of 3 scientifically proven techniques that separately or in a combination can effectively combat non-healing wounds!

Supporting evidence in Wound Therapy

Use of autologous platelet-rich fibrin on hard-to-heal wound

P. Steenvoorde, L.P. van Doorn, C. Naves, J. Oskam

Journal of Wound Care 2008; 17 (2): 60-63

Our experience in the treatment of chronic ulcers using Vivostat® PRF®. Series of 10 cases

M. Fuertes, V. Velasco, G.E. Larrañaga, G. Peirona

Cir. plást. Ibero-latinoam 2009; 35 (2): 141-148

Clinical Experience of Vivostat® Platelet Rich Fibrin (PRF®) in treatment of Diabetic foot ulcers

M. Löndahl

Presented at the 13eme Conference nationale des plaies et cicatrisations 2009

Comparative Study of two different treatment methods using autologous thrombocyte-fibrin treatment of diabetic foot ulcers

G. Larsson, M. Löndahl

Presented at Jubileumsriksstämman 2008

Growth factor and proteinase profile of Vivostat platelet-rich fibrin linked to tissue repair

M. S. Agren, K. Rasmussen, B. Pakkenberg & B. Jørgensen

Vox Sanguinis (2013); 107(1), 37-43

Autologes thrombozytenreiches Fibrin – eine neue Möglichkeit zur Wundtherapie bei komplizierten chronischen Wunden

K.P. Arenth, C. Schneider, D. Ockert

Wundtherapie bei komplizierten chronischen Wunden 2009

Selected case stories, Vivostat® platelet rich fibrin (PRF®) in the treatment of chronic wounds

B. Jørgensen, M. Löndahl, G. Larsson, H. Monberg

Published in the Swedish wound magazine "Sår" - March 2008

Vivostat PRF® for the treatment of hard to heal ischemic diabetic ulcer

P. Steenvoorde, L. van Doorn, J. Oskam

From the department of Surgery Rijnland Hospital Leiderdorp and the Rijnland Wound Clinic Leiderdorp, in the Netherlands

Use of autologous growth factors to heal chronic wounds

D. Sommer

Forum Sanitas – The Informative Medical Magazine 2008

Platelet Rich Fibrin (PRF) for hard to heal ulcers in patients with diabetic feet

C. Naves, P. Steenvoorde, L. Van Doorn

European Tissue Repair Society 2008

Autologus Platelet-Rich Fibrin for the treatment of hard to heal diabetic ulcers

L. van Doorn, P. Steenvoorde, J. Oskam

Noordwijkerhout 2007

Platelet Rich Fibrin seems to be a safe and effective treatment in diabetic patients with lower extremity fistula

Å. Asmundsson, M. Löndahl, I. Dupros, G. Larsson, P. Katzman

Skane University Hospital (Lund, SWEDEN)

Effects of locally applied autologous Platelet-Rich Fibrin® (PRF®) on split-thickness skin graft donor sites

P. Danielsen, B. Jørgensen, T. Karlsmark, L.N. Jørgensen, M. Ågren

Presented at EWMA 2010

Platelet gel applications in oral mucositis in CGVHD

A.S. Ferraro et al.

Presented at the European Hematology Association Congress 2008

Application of PLTs gel for the treatment of refractory chronic GvHD skin lesions

A. Picardi et al.

Presented at the meeting European Group for Blood and Marrow Transplantation

Tension free Primary Closure with Autologous Platelet Gel Versus Vivostat™ for the Definitive Treatment of Chronic Sacrococcygeal Pilonidal Disease

Gipponi et al

In vivo 24: 583-590 (2010)

Autologes thrombozytenreiches Fibrin kombiniert mit vagaler Stimulation

T. Payrits et. al

Skriptum Kongressjournal, 12. Jahrestagung der Österreichischen gesellschaft für Wundbehandlung

10 April, 2010

Platelet Rich Fibrin seems to be a safe and effective treatment in diabetic patients with lower extremity fistula

M. Löndahl et. al

[Platelet gel applications in oral Mucisitis in CGVHD](#)

A.S. Ferraro et. al

13th Congress of the European Hematology Association

June 12-15, 2008

[Platelet-released growth factors induce the antimicrobial peptide human beta-defensin-2 in primary keratinocytes](#)

Bayer et. al

Experimental Dermatology, 2016, 25, 460–465

Wound care video

The following videos show how Vivostat PRF® is used to treat wounds.

[Treatment of foot wound](#) from [Vivostat A/S](#) on [Vimeo](#).

[Perianal fistula treated with Vivostat PRF](#) from [Vivostat A/S](#) on [Vimeo](#).

The surgeon says

Vivostat® has over the course of time been in the hands of thousands of surgeons. Below you will find comments from a few surgeons who feel that Vivostat® Fibrin Sealant and Vivostat PRF® are able to make a difference.

Dr. Jose Luis Rodrigo, Orthopaedic surgeon in Clínica Quirón, Valencia, Spain



"The clinical results are excellent; we have shown improvement of shoulder functionality and shortened the rehabilitation period."

Dr. Manuel Ribas, Chief of the Hip Unit. Dexeus University Institute, Barcelona, Spain.



"Since we started to use the Vivostat® system, we have recorded lower morbidity than with other haemostatic systems."

Dr. Peter Siesjö, Division of Neurosurgery, Lund University Hospital, Sweden



"At Lund University Hospital we have been able to reduce the incidence of CSF leakages substantially by using Vivostat® Fibrin Sealant".

Dr. Jan Jacobs, Chief Surgeon Thoracic Department, Klinikum Ludwigshafen, Ludwigshafen, Germany



"Vivostat® Fibrin Sealant is a superior product; it has a number of benefits that clearly help minimize post surgical air leakage in a safe and effective way".

Dr. Victoriano Marlet, Chief of the Shoulder Unit and Shoulder Arthroscopy Unit. Dexeus University Institute, Barcelona, Spain.



"The patients experience less pain and a quicker recovery after having been treated with Vivostat® Fibrin Sealant".