

Stefano Bonvini PhD

Short Curriculum Vitae

Date of Birth
Address

Email:
Mobile

EDUCATION

Medical School University of Padova (Italy)	1992-1999
Postgraduate School in Vascular Surgery University Of Padova	2000-2004
Doctorate School in Cardiovascular sciences University of Padova	2005-2009

QUALIFICATIONS

Medical Degree, Padova, Italy	1999
State Licence Examination, Padova, Italy	1999
Board in Vascular Surgery (with Honours), Padova, Italy	2004
PhD in vascular sciences	2009

PREVIOUS APPOINTMENT

Staff surgeon in vascular surgery Padova Hospital (Azienda Ospedaliera) Padova, Italy	Dec 2005-July 2016
Vascular surgeon consultant Belluno Hospital	

CURRENT APPOINTMENT

Chief Vascular and Endovascular Surgery Division APSS Trento Italy	Since July 2016
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SURGICAL EXPERIENCE

More than 2000 vascular intervention as first surgeon involving all arterious districts:

- *aortic surgery*, open surgery and EVAR, elective and emergent (infra renal and suprarenal with and without reimplantation of renal arteries, minilaparotomic aces, EVAR, chimney technique, snorkel technique fenestrated and brenched graft etc),

- *carotid surgery* open and endovascular (carotid by-pass, reimplantation and TEA + patch in PTFE, saphenous vein and double everted jugular vein, also redo surgery for carotid restenosis, official consultant for combined CABG + carotid TEA, till now about 400 carotid intervention with no neurological complication, CAS)
- *lower limb arterious surgery* open and endovascular (femoro-distal by-pass, prosthetic and vein by-pass, aorto-bifemoral by-pass, profundoplastica, iliaco femoral endoarterectomy, graft infections, etc, PTA, hybrid technique, recanalisation etc,),
- *emergent interventions for trauma* (upper and lower limb, abdominal trauma, thoracique aorta trauma),
- *vascular access* for haemodialysis,
- Good experience in duplex scan diagnosis for vascular problems

More than 3000 vascular interventions as assistant also in thoracoabdominal open aneurysms repair.

Many collaboration with the Department of Engineering of the University of Trento to develop new tools and software in endovascular surgery.
Professor of Vascular Surgery at the University of Padua Italy.

Author and Co-author in different papers.

Papers and publications

1. F. Grego, D. Milite, D. Cognolato, P. Frigatti, I. Morelli, **S. Bonvini**, N. Damiani, G. Deriu. "Patch in vena giugulare esterna versus patch in PTFE dopo endoarteriectomia carotidea: studio prospettico randomizzato". G. Ital. Chir. Vasc. 2001; 8: 13-24
2. F. Grego, M. Zaramella, M. Antonello, **S. Bonvini**, K. Alfò, GP Deriu. "L'endoarteriectomia carotidea negli ottuagenari": G. Ital. Chir. Vasc. 2001; 8:87-96
3. F. Grego, S. Lepidi, N. Damiani, M. Zaramella, M. Antonello, **S. Bonvini**, GP Deriu. "Uso routinario dilazionato dello shunt in Chirurgia Carotidea". G. Ital. Chir. Vasc. 2001; 8:217-223
4. G. Deriu, P. Frigatti, **S. Bonvini**, S. Lepidi, R. Ragazzi, F. Grego. "Endovascular treatment of popliteal aneurysm". In vascular and Endovascular surgical techniques. Fourth edition –WB Saunders 2001; 427-30
5. Grego F, Frigatti P, Lepidi S, **Bonvini S**, Amista P, Deriu GP. Synchronous carotid endarterectomy and retrograde endovascular treatment of brachiocephalic or common carotid artery stenosis. Eur J Vasc Endovasc Surg. 2003 Oct;26(4):392-5.
6. Grego F, Antonello M, Lepidi S, **Bonvini S**, Deriu GP. Prospective, randomized study of external jugular vein patch versus polytetrafluoroethylene patch during

- carotid endarterectomy: perioperative and long-term results. *J Vasc Surg.* 2003 Dec;38(6):1232-40.
7. Grego F, Stramana R, Lepidi S, Antonello M, **Bonvini S**, Zaramella M, Deriu GP. Primitive proatlantal intersegmental artery and carotid endarterectomy. *J Vasc Surg.* 2004 Mar;39(3):691.
 8. Grego F., **Bonvini S.**, Lepidi S., Cognolato D., Deriu GP. "Gli aneurismi dell'aorta addomianle complessi" In aneurismi dell'aorta addomianle" Ed. Minerva Medica 2003: 290-298
 9. Deriu GP. **Bonvini S.**, Antonello M., Zaramella M., Tripepi A. "Prevenzione dell'insufficienza renale post-operatoria nel trattamento degli aneurismi dell'aorta addominale coinvolgenti le arterie renali". In "Aneurismi dell'aorta addominale" Ed. Minerva Medica 2003: 119-136
 10. G. Deriu, **S. Bonvini**, S. Lepidi, F. Grego. "Rôle actuel du pontage Carotido-sous-clavier" In "Chirurgie des troncs supra-aortiques" Editions AERCV 2003:129-148
 11. GP Deriu, **S. Bonvini**, P. Frigatti. "Chirurgia endovascolare" . In *Malattie del cuore e dei vasi.* 2° edizione McGraw-Hill 2001: 861-64
 12. GP Deriu, P. Frigatti, **S. Bonvini**. "Patologia aneurismatica dell'aorta addominale e toracica". In *Malattie del cuore e dei vasi.* 3° edizione Mc.Graw-Hill 2005: 749-55
 13. F. Grego, GP Deriu, S. Lepidi, **S. Bonvini**, M. Antonello, P. Frigatti. "Aspetti tecnici del trattamento chirurgico delle dissezioni tipo B". In "Patologia dell'aorta toracica", Ed. Minerva Medica 2005:99-110
 14. **Bonvini S**, Ricotta JJ, Piazza M, Ferretto L, Grego F ViPS technique as a novel concept for a sutureless vascular anastomosis. *J Vasc Surg.* 2011 Sep;54(3):889-92.
 15. Piazza M, **Bonvini S**, Ferretto L, Menegolo M, Frigatti P, Ricotta JJ 2nd, Grego F. Modification of the viabahn padova sutureless technique for challenging anastomosis between a prosthetic graft and a circumferentially calcified target artery. *J Endovasc Ther.* 2012 Jun;19(3):457-60.
 16. Deriu G, Grego F, Frigatti P, Gerosa G, Piazza M, **Bonvini S**, Maturi C, Antonello M, Menegolo M. Unusual inflow sources and device introduction sites in aortic arch debranching. *J Cardiovasc Surg (Torino).* 2012 Apr;53(2):143-51.
 17. **Bonvini S**, Albiero M, Ferretto L, Angelini A, Battocchio P, Fedrigo M, Piazza M, Thiene G, Avogaro A, Fadini GP, Grego F. The peritoneum as a natural scaffold for vascular regeneration. *PLoS One.* 2012;7(3):e33557. Epub 2012 Mar 16.
 18. Ferretto L, Piazza M, **Bonvini S**, Battocchio P, Grego F, Ricotta JJ. ViPS (Viabahn Padova Sutureless) technique: preliminary results in the treatment of peripheral arterial disease. *Ann Vasc Surg.* 2012 Jan;26(1):34-9. Epub 2011 Oct 22.

- 19 Piazza M, Frigatti P, Scrivere P, **Bonvini S**, Noventa F, Ricotta JJ 2nd, Grego F, Antonello M. Role of aneurysm sac embolization during endovascular aneurysm repair in the prevention of type II endoleak-related complications. *J Vasc Surg.* 2013 Apr;57(4):934-41.
- 20 Piazza M, Menegolo M, Ferrari A, **Bonvini S**, Ricotta JJ, Frigatti P, Grego F, Antonello M. Long-term outcomes and sac volume shrinkage after endovascular popliteal artery aneurysm repair. *Eur J Vasc Endovasc Surg.* 2014 Aug;48(2):161-8. doi: 10.1016/j.ejvs.2014.04.011. Epub 2014 Jun 7.
21. **Bonvini S**, Zavatta M, Menegolo M, Grego F, Piazza M, Aortic hybrid sutureless anastomosis on porcelain aorta, *Journal of Endovascular Therapy.*
22. **Bonvini S**, Wassermann V, Menegolo M, Scrivere P, Grego F, Piazza M. Surgical Infrarenal "Neo-neck" Technique During Elective Conversion after EVAR with Suprarenal Fixation. *Eur J Vasc Endovasc Surg.* 2015 Aug;50(2):175-80. doi: 10.1016/j.ejvs.2015.03.027. Epub 2015 Apr 25.
23. Piazza M, Squizzato F, Spolverato G, Milan L, **Bonvini S**, Menegolo M, Grego F, Antonello M. Outcomes of polytetrafluoroethylene-covered stent versus bare-metal stent in the primary treatment of severe iliac artery obstructive lesions. *J Vasc Surg.* 2015 Aug 5. pii: S0741-5214(15)01148-9. doi: 10.1016/j.jvs.2015.05.028. [Epub ahead of print]
24. Systemic Inflammatory Response and Severe Thrombocytopenia after Endovascular Thoracic Aortic Aneurysm Repair. Silvestrin V, **Bonvini S**, Antonello M, Grego F, Vettor R, Rossato M. *Case Rep Med.* 2017;2017:3018919. doi: 10.1155/2017/3018919. Epub 2017 Jan 5. PMID: 28154580
25. Use of a Thoracic Endograft in an Acute Abdominal Aortic Setting: Case Report and Literature Review. Tasselli S, Perini P, Paini E, Milan L, **Bonvini S**. *Vasc Endovascular Surg.* 2017 Oct;51(7):493-497. doi: 10.1177/1538574417718446. Epub 2017 Jul 26. Review. PMID: 28743219
26. Critical Upper Limb Ischemia Due to Brachial Tourniquet in Misdiagnosed Thoracic Outlet Syndrome after Carpal Tunnel Decompression: A Case Report. Tiengo C, Monticelli A, **Bonvini S**, Wassermann V, Venezia ED, Bassetto F. *World J Plast Surg.* 2017 Sep;6(3):375-379.
27. Technical Success and Long-Term Results with Excluder/C3 Endoprosthesis in Narrow Aortic Bifurcations: First Italian Multicentre Experience. Veraldi GF, Mezzetto L, Vaccher F, Scorsone L, **Bonvini S**, Raunig I, Wassermann V, Tasselli S. *Ann Vasc Surg.* 2018 Oct;52:57-66. doi: 10.1016/j.avsg.2018.03.025. Epub 2018 May 18. PMID: 29778608
28. Twenty-two Year Multicentre Experience of Late Open Conversions after Endovascular Abdominal Aneurysm Repair. Perini P, Gargiulo M, Silingardi R, Bonardelli S, Bellosta R, **Bonvini S**, Michelagnoli S, Tusini N, Capelli P, Freyrie A; LOCOS-1 investigators. *Eur J Vasc Endovasc Surg.* 2020 Feb 4. pii: S1078-

29. Endovascular repair of an intrathoracic subclavian artery aneurysm with a single-branched thoracic endograft in a hostile anatomy **Stefano Bonvini**¹, Nicola Spadoni¹, Sebastiano Tasselli¹ *Vascular* 2022 Sep 17;17085381221128058.doi: 10.1177/17085381221128058.
30. Unusual Endovascular Treatment of Iliac Occlusive Disease With a Physician-Modified Endograft to Preserve a Transplant Renal Artery **Stefano Bonvini**¹, Igor Raunig¹, Valentina Wassermann¹, Benedetto Petralia², Sebastiano Tasselli¹ *J Endovasc Ther Case report* 2022 Apr;29(2):283-288. doi: 10.1177/15266028211036476. Epub 2021 Aug 8.
31. Early and midterm outcomes following open surgical conversion after failed endovascular aneurysm repair from the "Italian North-east Registry of surgical Conversion After Evar" (INTRICATE) Andrea Xodo¹, Mario D'Oria², Francesco Squizzato¹, Michele Antonello¹, Franco Grego¹, **Stefano Bonvini**³, Domenico Milite⁴, Paolo Frigatti⁵, Diego Cognolato⁶, Gian Franco Veraldi⁷, Reinhold Perkmann⁸, Luca Garriboli⁹, Antonio Maria Jannello⁹, Sandro Lepidi¹⁰; *J Vasc Surg.* 2022 Jan;75(1):153-161.e2. doi: 10.1016/j.jvs.2021.05.053. Epub 2021 Jun 26.
32. Endovascular Aortic Repair with the "Step-by-Step" Deployment of the Endurant Stent-Graft System in Severe Neck Angulation: Technique and Review of the Literature Sebastiano Tasselli¹, Valentina Wassermann², Igor Raunig², Flavio Pancheri², **Stefano Bonvini**² *Ann Vasc Surg.* 2020 Oct;68:553-558. doi: 10.1016/j.avsg.2020.05.030. Epub 2020 May 29.
33. Surgical "New Aortic Carrefour Technique" for Late Open Conversion After Endovascular Aortic Repair Gian Franco Veraldi¹, Davide Mastroilli², Stefano Bonvini³, Mario D'Oria⁴, Sandro Lepidi⁴, Luca Mezzetto¹ *Ann Vasc Surg.* 2021 Jan;70:434-443. doi: 10.1016/j.avsg.2020.06.027. Epub 2020 Jun 26.
34. Early and midterm outcomes of endovascular aneurysm repair with an ultra-low-profile endograft from the Triveneto Incraft Registry Marco Zavatta¹, Francesco Squizzato², Giovanni Balestriero³, **Stefano Bonvini**⁴, Reinhold Perkmann⁵, Domenico Milite⁶, Gian Franco Veraldi⁷, Michele Antonello²; *J Vasc Surg.* 2021 Jun;73(6):1950-1957.e2. doi: 10.1016/j.jvs.2020.09.044.
35. Endovascular aortic repair with the Gore Excluder Conformable endograft in severe neck angulation: Preliminary experience and technical aspects **Stefano Bonvini**¹, Sebastiano Tasselli¹, Igor Raunig¹, Valentina Wassermann¹, Michele Piazza², Michele Antonello² *Vascular.* 2021 Apr;29(2):183-189. doi: 10.1177/1708538120952665. Epub 2020 Sep 1.
36. Distensibility of Deformable Aortic Replicas Assessed by an Integrated In-Vitro and In-Silico Approach Luigi Di Micco¹, Giulia Comunale¹, **Stefano Bonvini**², Paolo Peruzzo¹, Francesca Maria Susin¹ *Bioengineering (Basel).* 2022 Feb 26;9(3):94. doi: 10.3390/bioengineering9030094.

Experience in microsurgery in animals with experimental PhD thesis regarding an in vivo model of ischemia reperfusion renal injury (Title: Temporary renal reperfusion to increase safe ischemic time).

Post graduate thesis: Incomplete AAA sealing post EVAR: 190 consecutive cases

Speaker in different congresses (national and international). Presenter for original papers at the SCV Nice 2013, Charing Cross Congress, ESVS annual congress, etc.

Winner of the 2010 ESCVS Young Vascular Prize of the European Society for Cardiovascular Surgery

7 months experience in France :

1996 Toulouse -Cardiology and General Surgery- Erasmus program,

1999 Tours-Vascular Surgery and Emergencies-

2013 Bordeaux CHU Pellegrin Service de Chirurgie Vasculaire Chez Prof. E. Ducasse.

2016 Lille DIU in « advanced endovascular aortic procedure »

Good knowledge of English and French