

PUBLICATIONS

Beat H. Walpoth, MD

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1. Original articles (Peer Reviewed)

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2. Review articles (Peer reviewed)

1. **B. H. Walpoth**, J. Schwaller, H. Hofstetter, D. Castelli, U. Nydegger: Current problems with autologous blood supply. *Infusionsther Transfusionsmed.* 1993;20:316-326. (*IF 0.359*)
2. K.O. Lövblad, P. Senn, **B.H. Walpoth**, B.N. Walpoth, H.P. Mattle, B.P. Radanov, C. Ozdoba, G. Schroth: Increased Brain Tolerance for Ischemia in Accidental Deep Hypothermia and Circulatory Arrest. *Riv Neurorad.* 1998;11 (Suppl. 2):224-226. (*IF 0.128*)

3. Editorials (Peer reviewed)

1. **Walpoth B.H.** Novel cardiovascular implants – stents and grafts: implications for the clinician. The International Journal of Artificial Organs; 2002;Vol.25: No. 7:619. (*IF 1.072*)
2. **Walpoth B.H.** Accidental deep hypothermia: a rewarming challenge. Wien Klin Wochenschr 2002; May 15; 114(8-9): 287-8. (*IF 0.591*)
3. **B.H. Walpoth**, G.L. Bowlin. The daunting quest for a small diameter vascular graft. Expert Rev. Med. Devices, 2005; 2(6): 647-51. (*IF 0.791*)

4. Letters (Peer reviewed)

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 2. **Walpoth BH** Invited Commentary for: Leong DKH, et al. Transit-Time Flow Measurement is Essential in Coronary Artery Bypass Grafting. *Ann Thorac Surg* 2005;79:857-8.
 3. **Walpoth BH** Invited Commentary for: Ki-Bong Kim, Chang Hyun Kang, Cheong Lim. Prediction of graft flow impairment by intraoperative transit time flow measurement in off-pump coronary artery bypass using arterial grafts: comparison with the results of early postoperative coronary angiography. *Ann Thorac Surg* 2005;80(2):599.
 4. **Walpoth BH** *Letter to the Editor*: Adverse effects of local or systemic application of rapamycin for the prevention of neointimal hyperplasia. *Ann Thorac Surg* 2005;79:2201-2.
 5. Cikirikcioglu M, Kalangos A, **Walpoth BH**. Extraordinary tissue healing after synthetic bypass graft implantation. Bridge-shaped neointimal hyperplasia formation (article in Turkish) *Anadolu Kardiyol Derg.* 2006 Jun;6(2):197
 6. Cikirikcioglu M, **Walpoth BH**. Use of Biodegradable Annuloplasty Ring for Pediatric Valvuloplasty Operations. *Letter to the Editor*. *J Card Surg* 2008;23:182-183. (IF 0.70)
 7. Ken Zafren, Gordon G. Giesbrecht, Daniel F. Danzl, Hermann Brugger, Emily B. Sagalyn, **Beat Walpoth**, Eric A. Weiss, Paul S. Auerbach, Scott E. McIntosh, Mária Némethy, Marion McDevitt, Jennifer Dow, Robert B. Schoene, George W. Rodway, Peter H. Hackett, Brad L. Bennett, Colin K. Grissom. Hypothermia Evidence, Afterdrop, and Guidelines. *Comment on: Wilderness Medical Society practice guidelines for the out-of-hospital evaluation and treatment of accidental hypothermia. Wilderness Environ Med.* 2015 Sep;26(3):439-41 (IF 0.79).
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2. **B. Walpoth**, S. Geroulanos, L. Egloff, M. Turina, A. Senning. Reduction of post-bypass hemodilution by hemofiltration. *ESAO Proceedings*. 1979;6:315-319.
3. **B. Walpoth**, S. Geroulanos, M. Turina, A. Senning: Reduktion der Hämodilution durch Ultrafiltration nach kardiopulmonalem Bypass. (Reducing hemodilution through ultrafiltration following cardiopulmonary bypass). *Helv Chir Acta*. 1980;47(1-2): 231-235.
4. **B. Walpoth**, S. Geroulanos, L. Egloff, M. Turina, A. Senning: Surface changes in experimental hemofiltration. *Proceedings ESAO*. 1980;7:156-161.
5. **B. Walpoth**, D. Demierre, L. Egloff, M. Turina: Continuous oxygen partial pressure monitoring in cardiac surgery. *Proceedings ESAO*. 1981;8:301-308.
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36. **Walpoth B.H.** New Techniques for Improving small Diameter Synthetic Graft: Coatings or Systemic Treatments. EACTS/ESTS Book of Proceedings for the Postgraduate Course, Barcelona, September 2005.
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42. **B. H. Walpoth**. The importance of an International Hypothermia Registry for improving the outcome of accidental hypothermia victims. *EACTS Daily News*. 2010; Sunday 12 September 2010 : 21

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44. **B. H. Walpoth.** Foie, coeur et poumon se cultivent en laboratoire. *Tribune de Genève*. 2010; Vendredi 17 septembre 2010 :33
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6. Chapters in Books

1. **B. Walpoth**, O. Hess, J. Kugelmeier, A. Senning, M. Turina.: Hemodynamic and biochemical assessment of cardioplegic myocardial protection. Chapter in: Myocardial Protection for Cardiovascular Surgery, W. Isselhard (Ed), Pharmazeutische Verlagsgesellschaft, (Cologne) 1979: 255-263.
2. **B. Walpoth**, L. Egloff, A. Senning, M. Turina, D. J. Hearse, M. V. Braimbridge: Review of cardioplegic techniques - a multicenter study. Chapter in: Textbook of Clinical Cardioplegia, R. Engelman and E. Levitsky (Eds), Futura Publishing Company, 1982: 453-463.
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4. **B. Walpoth**, D. Weber, F. Barbalat-Rey, M. Schmidt, B. Faidutti, R. Mégevand: Comparison of three methods of myocardial preservation: storage, intermittent and continuous perfusion. Chapter in: Clinics of CSI; Myocardial Protection via the Coronary Sinus. W. Mohl, D. Faxon, E. Wonder (Eds.), Steinkopf, 1986:203-207.
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6. U. Volken, **B. Walpoth**, U. Nydegger, U. Althaus: Retransfusion des Thoraxdrainageblutes: Quantitative und qualitative Analyse. Chapter in: Methoden der perioperativen Eigenblut-transfusion. W. Mempel und M. U. Heim (Eds) Demeter Verlag, 1991:80-84.
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10. **B.H. Walpoth**, G. Beldi, A. Bosshard, O.M. Hess, T. Carrel: Transit time flow measurements: from Bench to Bedside. Chapter in: Intraoperative graft patency verification in cardiac and vascular surgery. G. D'Ancona, H.L. Karamanoukian, M. Ricci, T.A. Salerno, J. Bergsland (Eds.). Futura Publishing Company, 2001.
11. **B.H. Walpoth**. Implication of treatment and outcome of survivors of accidental deep hypothermia: the need for a hypothermia registry. Proceedings of the 5th World Congress on Mountain Medicine and High Altitude Physiology. Health and Height. Eds. Viscor G, Ricart de Mesones A, Leal C. Pubs: UB Publications. 2003; 255-57.
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 14. Cikirikcioğlu M, Kalangos A, **Walpoth BH**. Intraoperative verification of graft patency in coronary bypass operations with blood flow measurement (Koroner bypass cerrahisinde greft açıklığının intraoperatif akimi ölçüm teknikleri ile değerlendirmesi). In: Cardiovascular Surgery (in Turkish: Kalp ve Damar Cerrahisi). Chap. 98; p1471-1479. Ed: Prof. Dr. E Duran. 2004.
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 18. Möller M, de Valence S, **Walpoth BH**. Nanofibre-based vascular grafts. Chapter in: Nanomedicine and the Cardiovascular System. Eds. Ross J. Hunter, Victor R. Preedy. 2011.
 19. **B.H. Walpoth**, Kalangos A. New concepts of drug elution for improving stents and vascular prostheses. Chapter in: ESVB 2011. New Endovascular Technologies. From bench test to clinical practice. Eds. N. Chakfé, B. Durand, W. Meichelboeck. Pubs: Europrot Strasbourg, France (ISBN 2-9523959-3-4), 2011.
 20. **B.H. Walpoth**, M. Meyer, C. Gaudet-Blavignac, Ph. Baumann, P. Gilquin, C. Lovis. Accidental Hypothermia: the need for the International Hypothermia Registry. Chapter in : Hypothermia. Clinical Aspects of Body Cooling. Analysis of Dangers. Directions of Modern Treatment: Eds. Sylwierz Kosinski, Tomasz Darocha, Jerzy Sadowski, Rafal Drwila. Pubs: Jagiellonian University Press, Poland. (ISBN 978-83-233-4063-8, 2017.

7. Theses**A. Accepted Theses (Bern)**

1. **Volken, Ulrike**
Retransfusion des Thoraxdrainageblutes: Quantitative und qualitative Analyse (1990)
2. **Locher, Thomas**
Akzidentelle Hypothermie in der Schweiz (1980-1987) - Kasuistik und prognostische Faktoren (1990)
3. **Niklès, Jean-Michel**
Komplementaktivierung in autologen und homologen Blutprodukten während herzchirurgischen Eingriffen mit extrakorporellem Kreislauf (1991)
4. **Pfäffli, Thomas**
Quantitative und qualitative Aspekte eines aus dem Restblut der extrakorporalen Zirkulation aufbereiteten Erythrozytenkonzentrates (1991)
5. **Tschopp, Andreas**
Correlation of in vivo Cardiac Phosphorous Nuclear Magnetic Resonance with Myocardial Histology and Planimetry in Experimental Heterotopic Heart Transplantation (1991)
6. **Ammon, Andreas**
Tierexperimentelle Erprobung neuer Gefässprothesen im arterio-venösen Shuntmodell unter besonderer Berücksichtigung der Prothesenvorbehandlung mit Albumin (1992)
7. **Amport, Thomas**
Hemofiltration during Cardiopulmonary Bypass: Quality Assessment of Hemoconcentrated Blood (1993)
8. **Schmid, Roger**
Intraoperative Aspiration und Reinfusion von autologem Blut bei der Resektion von Bauchaortenaneurismen mittels Solcotrans (1993)
9. **Moschovitis, Giorgio**
Klinisch-diagnostische Wertigkeit von Troponin-T bei herzchirurgischen Eingriffen (1994)
10. **Walpoth, Nazan**
Nachkontrolle von erfolgreich aufgewärmten Patienten nach tiefer akzidenteller Hypothermie und nachgewiesenem Kreislaufstillstand (1998)
11. **Senn, Pascal**
Hirnvolumetrische Untersuchung bei Patienten nach akzidenteller Hypothermie und Kreislaufstillstand (1998)
12. **Eggensperger, Nicole**
Blutaufbereitung mit dem kontinuierlichen autologen Transfusionssystem (CATS) bei herzchirurgischen Patienten (1999)

13. **Nicolaus**, Beatrice
Erfassung der Abstossungsreaktion mittels MR-Spektroskopie und MR-Imaging nach orthotoper Herztransplantation beim Schwein (1999)
14. **Beldi**, Guido
Transit time flow measurement: experimental validation and comparison of three different systems (2000)
15. **Pavlicek**, Michael
Prevention of neointimal proliferation by immunosuppression in synthetic vascular grafts (2001)
16. **Bosshard**, Andreas
Flow mismatch of arterial and venous coronary bypass grafts (2001)
17. **Aregger**, Fabienne und **Imboden**, Christian
Preoperative autologous blood donation (PABD) in cardiac surgery: effect of erythropoietin and iron supplementation (EPOCARD TRIAL) (2002)
18. **Menth** Markus
Assessment of Troponin I and T for the diagnosis of contusio cordis (2002)
19. **Springe** Dirk
Pressure-flow relationship of arterial and venous bypass grafts (2002)
20. **Auf der Mauer**, Pia und **Fallegger**, Basil
Transit-Time-Flussmessung vor und nach Karotisthrombendarterektomie (2003)
21. **Aregger**, Kathrin
Treatment of low cardiac output by peripheral counterpulsation with ECG triggered muscle stimulation (2003)
22. **Schmid**, Markus / **Schwab**, Anna
Vascular remodelling of ITA grafts by flow adaptation (2008)

B. Accepted THESES (Geneva)

1. **Karrer** Leo
Assessment of thrombogenicity and bio-compatibility of degradable and non-degradable small synthetic vascular grafts (Docteur en medicine 26.4.2011)
2. **Meyer** Marie
International Hypothermia Registry (development du premier register international sur l'hypothermie accidentelle)
3. **Zenelaj** Besa
In vitro and In vivo testing of new degradable PDS-based patches (sub-cutaneous patch implantation)
4. **Vogt** Karin (Thesis of the University of Basel)
Can lactate serve as an additional prognostic marker for the decision-making in patients under CPR with severe accidental hypothermia? A retrospective data analysis

C. TRAVAIL DE DIPLOME (Sciences II)

1. **Corboud** Stephanie:
PCL electro-spinning of vascular grafts
2. **Patois** Emilie:
CHITOSAN-based thermo-plastic gels
3. **Luca** Ludmilla
Comparative study of the influence of the carrier nature and pH on rhBMP-2-induced ectopic bone formation

D. PhD (Sciences II; Prof. Robert Gurny)

1. **DE VALENCE** Sarra
Synthetic Biodegradable Vascular Grafts For The Regeneration of Arteries
29.11.12

E. MASTER

1. **WUARIN** Lydia
Acellular / Cellular Myocardial Patch repair after AMI in the Rat Model
August 2012
2. **TOMAZI** Thiago
Electro-myo-stimulation as a heat production source for treatment of hypothermic patients
(Master in Mountain Medicine) Bozen, Italy 2017
3. **LUCHELLI** Matteo
An Avalanche Accident With A Severely Hypothermic And Multiple Trauma Patient:
A Case Report.
(Master in Mountain Medicine) Bozen, Italy 2017

**F. INTERNATIONALLY CO-TUTORED PHD COURSE IN BIOTECHNOLOGY & BIOENGINEERING
(Universities of Geneva and Verona)**

1. **CRESCHE** Giovanni
Small animal oxygenator
2. **INNOCENTE** Francesco
Drug-eluting vascular prostheses
3. **RUNGATSCHER** Alessio
Cell-based vascular tissue engineering

8. ABSTRACTS presented at International Congresses

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9. ABSTRACTS presented at National Congresses

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