

CURRICULUM VITAE  
**PIERRE P. LEIMGRUBER, M.D., F.A.C.C.**

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PLACE OF BIRTH: Sierre (VS), Switzerland

CITIZENSHIP: USA

EDUCATION:

Medical School: University of Zurich Medical School  
Zurich, Switzerland  
M.D., 1977

Cardiology Fellowship: Medical College of Wisconsin  
Milwaukee, Wisconsin  
7/81 - 6/83

Interventional Cardiology Fellowship: With Andreas R. Gruentzig, M.D.  
Inventor of Balloon Angioplasty  
Emory University Hospital  
Atlanta, Georgia  
7/83 - 7/85

INTERVENTIONAL CARDIOLOGIST: Spokane Cardiology, PSC  
7/85 - 7/2011  
Providence Spokane Cardiology - Heart Institute  
8/2011 - 3/2017

**APPOINTMENTS:**

**Clinical Associate Professor of Medicine:**

- **University of Washington School of Medicine  
Seattle, WA** - present
- **Washington State University Elson S..Floyd  
College of Medicine , Spokane WA-** present

## **BOARD CERTIFICATIONS:**

Internal Medicine 1981, indef  
Cardiovascular Diseases 1983, indef  
Interventional Cardiology 2000, recert 2011

## **PROFESSIONAL MEMBERSHIPS:**

Fellow, American College of Cardiology

## **AFFILIATIONS :**

Providence Sacred Heart Medical Center & Children's Hospital - Community Associate 4/1/2017 – present

## **PUBLICATIONS:**

1. Leimgruber, P.P.: Doctoral dissertation entitled "Malnutrition und Familienplanung in Canderlaira." Filed in the library of the University of Zurich, 1979.
2. Leimgruber, P.P., Klopfenstein, H.S., Wann, L.S. Brooks, H.L.: "The hemodynamic derangement associated with right ventricular diastolic collapse in cardiac tamponade: An experimental echocardiographic study." *Circulation* 68:612-620, 1983.
3. Leimgruber, P.P., Roubin, G.S., Anderson, H.V., Bredlau, C.E., Whitworth, H.B., Douglas, J.S., King, S.B., Gruentzig, A.R.: "Influence of intimal dissection on restenosis after successful coronary angioplasty." *Circulation* 72:530-535, 1985.
4. Leimgruber, P.P., Roubin, G.S., Hollman, J., Cotsonis, G.A., Douglas, J.S., King, S.B., Gruentzig, A.R.: "Restenosis after successful coronary angioplasty in patients with single vessel disease." *Circulation* 73:710-717, 1986.
5. Leimgruber, P.P., Talley, T.D., Gruentzig, A.R.: "Use of a steerable coronary guide wire facilitating catheterization of atherosclerotic and tortuous peripheral vessels." *American Journal of Cardiology* 58:187-189, 1986.
6. Leimgruber, P.P., Gruentzig, A.R.: "Percutaneous transluminal coronary angioplasty (PTCA)." *Z. Kardiol.* 74 Suppl 6:107-10, 1985.
7. Singh, S., Wann, L.S., Schuchard, G.H., Klopfenstein, H.S., Leimgruber, P.P., Keeland, M.H., Brooks, H.L.: "Right ventricular and right atrial collapse in cardiac tamponade: A combined echocardiographic and hemodynamic study." *Circulation* 70:966-971, 1984.
8. Anderson, H.V., Leimgruber, P.P., Roubin, G.S., Nelson, D.L., Gruentzig, A.R.: "Distal coronary artery perfusion during percutaneous transluminal coronary angioplasty." *American Heart Journal* 110: 720-726, 1985.
9. Bredlau, C.E., Roubin, G.S., Leimgruber, P.P., Douglas, J.S., King, S.B., Gruentzig, A.R.: "In-hospital morbidity and mortality in elective coronary angioplasty." *Circulation* 72:1044-1052, 1985.

10. Anderson, H.V., Roubin, G.S., Leimgruber, P.P., Douglas, J.S., King, S.B., Gruentzig, A.R.: "Primary angiographic success rates of percutaneous transluminal coronary angioplasty." *American Journal of Cardiology* 56:712-717, 1985.
11. Anderson, H. V., Nelson, D.L., Leimgruber, P.P., Roubin, G.S., Gruentzig, A.R.: "Coronary artery perfusion during percutaneous transluminal coronary angioplasty." *Prog. Clin. Biol. Res.* 211:3-20, 1986.
12. Whitworth, H.B., Hollman, J., Roubin, G.S., Leimgruber, P.P., Gruentzig, A.R.: "The effect of nifedipine on recurrent stenosis after percutaneous transluminal coronary angioplasty." *Journal of the American College of Cardiology* 8:1271-1276, 1986.
13. Anderson, H.V., Roubin, G.S., Leimgruber, P.P., Cox, W.R., Douglas, J.S., King, S.B., Gruentzig, A.R.: "Measurement of trans-stenotic pressure gradient during percutaneous transluminal coronary angioplasty." *Circulation* 73:1223-1230, 1986.
14. Anderson, H.V., Zaatari, G.S., Roubin, G.S., Leimgruber, P.P., Gruentzig, A.R.: "Steerable fiberoptic catheter delivery of laser energy in atherosclerotic rabbits." *American Heart Journal* 111:1065-1072, 1986.
15. Roberts, C.S., Anderson, H.V., Carboni, A.A., Justicz, A.G.S., Leimgruber, P.P., Kloner, R.A., Gruentzig, A.R.: "Usefulness of intracoronary infusion of fluorocarbon distal to prolonged coronary occlusion by angioplasty balloon in dogs." *American Journal of Cardiology* 67:1202-1205, 1986.
16. DeWood, M.A., Leimgruber, P.P., Shields, J.P., Kunkel, R. M., Hensley, G.R., Reisig, A.H. Jr.: "Thrombosis in acute myocardial infarction and sudden death: Angiographic aspects." *Cardiovasc. Clin* 18(I):195-211, 1987.
17. Redd, D.C., Roubin, G.S., Leimgruber, P.P., Abi-Mansour, P., Douglas, J.S. Jr., King, S.B.: "The trans-stenotic pressure gradient trend as a predictor of acute complications after percutaneous transluminal coronary angioplasty." *Circulation* 76(4):792-801, 1987.
18. Topol, E.J., Ellis, S., Fishman, J., Leimgruber, P.P., Myler, R.K., Stortzer, S.H., O'Neill, W.W., Roubin, G.S., King, S.B.: "Multicenter study of percutaneous transluminal angioplasty for right coronary artery ostial stenosis." *Journal of the American College of Cardiology* 9:1214-1218, 1987.
19. Anderson, H.V., Zaatari, G.S., Roubin, G.S., Leimgruber, P.P., Gruentzig, A.R.: "Coaxial laser energy delivery using a steerable catheter in canine coronary arteries." *Am. Heart J.* 113(I):37-48, 1987.
20. Leimgruber, P.P.: "Right coronary artery ostial stenosis. A contraindication for balloon angioplasty?" *CVR&R* 9(5):63-65, 1988.

21. Weaver, W. Douglas, Reisman, Mark A., Griffin, John J., Buller, Christopher E., Leimgruber, Pierre P., Henry, Timothy, D'Haem, Christopher, Clark, Vivian L., Martin, Jenny S., Cohen, David J., Neil, Nancy, Every, Nathan R.: "Optimum percutaneous transluminal coronary angioplasty compared with routine stent strategy trial (OPUS-1):a randomized trial." THE LANCET, Vol. 355, June 24, 2000.
22. Lerman A., Voel J., Fischell T., Leimgruber, P., Firth B. "The biology of plaque and patient vulnerability." Panel discussion. Journal of Invasive Cardiology 17(4):239-42, April 2005.
23. Hobson, R.W., Roubin, G., Kathir, K., Sheffet, A.J., Leimgruber, P.P., White, C., Nazzal M., Chakhtoura, E., Lal, B.K., Brott, T.G., Tom, M., Hughes, S., Longbottom, M., Howard, G., Martin, S., Voeks, J. "Closure of the Lead-In Phase of CREST: 30-Day and 1-Year Analyses." Stroke 39(2): 527, February 2008
- 24.** Brott, Thomas G.; Hobson, Robert W.; Howard, George; Roubin, Gary S.; Clark, Wayne, M.; Brooks, William; Mackey, Ariane; Hill, Michael D.; Leimgruber, Pierre P.; Sheffet, Alice J.; Howard, Virginia J.; Moore, Wesley, S.; Voeks, Jenifer H.; Hopkins, L. Nelson; Cutlip, Donald E.; Cohen, David J.; Popma, Jeffrey J.; Ferguson, Robert D.; Cohen, Stanley N.; Blackshear, Joseph L.; Silver, Frank L.; Mohr, J.P.; Lal, Brajesh K.; Meschia, James F.: "Stenting versus Endarterectomy for Treatment of Carotid-Artery Stenosis." **The New England Journal of Medicine, Vol. 363, July 1, 2010: 11- 23.**
25. Blackshear, J., Cutlip, D.E., Roubin, G., Hill, M., Leimgruber, P., begg, R., Cohen, D., Eidt, J., Voeks, J., Brott, T.: Myocardial Infarction After Carotid Stenting and Endarterectomy. "Results from the Carotid Revascularization Endarterectomy Versus Stenting Trial" Circulation 2011 Jun 7; 123 (22):2571-8
- 26.** Brott, T.G, Howard, G., Roubin, G.S., Meschia, J. Freeman, RN for., Mackey, A., Brooks, W., Moore, W.S., Hill, M.D., Matnese, V.A., Clark, W.M., Timaran, C.H., Heck, D., Leimgruber, P.P., Sheffet, A.J., Howard, V.J., Chaturvedi, S., Lal, B.K., Voeks, J.H., Hobson, R.W. "Long-Term Results of Stenting Versus Endarterectomy for Carotid-Artery Stenosis" **The New England Journal of Medicine 2016;374:1021-31.**
27. Jones MR, Howard G, Roubin GS, Blackshear JL, Cohen DJ, Leimgruber PP, Rhodes DJ, Prineas RJ, Glasser SP, Lal BK, Voeks JH, Brott TG, CREST Investigators "Periprocedural Stroke and Myocardial Infarction as Risks for Long-Term Mortality in CREST". Circ Cardiovasc Qual Outcomes 2018 Nov;11(11):e004663

28. Doneen AL, Bale BF, Vigerust DJ, Leimgruber PP (2020) "Cardiovascular Prevention: Migrating From a Binary to a Ternary Classification". *Front Cardiovasc Med* 7:92. doi:10.3389/fcvm.2020.00092
29. Bale BF, Doneen AL, Leimgruber PP, Vigerust DJ "The Critical Issue Linking Lipids and Inflammation: Clinical Utility in Stopping Oxidative Stress". *Front Cardiovasc Med* 9:10427 29, doi:10.3389/fcvm.2022.1042729

### **BOOKS:**

1. Leimgruber, P.P., Gruentzig, A. R. (1987) Percutaneous transluminal coronary angioplasty. In: Dordrecht, the Netherlands: M. Nijhoff Publishers, *Invasive Cardiovascular Therapy*. Hilger HH, Hornbach V, Rashkind WJ (Eds).

### **ABSTRACTS:**

1. Leimgruber, P.P., Klopfenstein, H.S., Wann, L.S., Janzer, D.G., Brooks, H.S.: "Right ventricular diastolic collapse is a sensitive and early echocardiographic sign of cardiac tamponade." Presented at the American Federation of Clinical Research Regional Meeting in Chicago, Illinois, November 4-6, 1982. *Clinical Research* 30:714, 1982
2. Leimgruber, P.P., Klopfenstein, H.S., Wann, L.S., Janzer, D.G., Brooks, H.L.: "Right ventricular diastolic collapse is a sensitive and early sign of cardiac tamponade." Presented at the 55th American Heart Association Meeting in Dallas, Texas, November 15-18, 1982. *Circulation* 66:II-91, 1982
3. Leimgruber, P.P., Moldenhauer, R.T., Libow, M.A., Douglas, J.S., Gruentzig, A.R.: "Fate of occluded side branches after coronary angioplasty." Presented at the 57th American Heart Association Meeting in Miami Beach, Florida, November 12-15, 1984. *Circulation* 70:II-296, 1984
4. Leimgruber, P.P., Roubin, G.S., Rice, C.R., Tate, J.S., Gruentzig, A.R.: "Influence of intimal dissection after coronary angioplasty (PTCA) on restenosis rate." Presented at the 57th American Heart Association Meeting in Miami Beach, Florida, November 12-15, 1984. *Circulation* 70:II-175, 1984.
5. Leimgruber, P.P., Bredlau, C.E., Cotsonis, G.A., Anderson, H.V., Douglas, J.S., King, S.B.: "Risk factors for restenosis after coronary angioplasty (PTCA) in patients with single vessel disease (SVD)." *Circulation* 72:III-140, 1985
6. Arnold, T.C., Hesser, F.S., Gentry, L., Leimgruber, P.P., King, S.B.: "A new light weight pressure dressing for the femoral puncture site after coronary angioplasty (PTCA)." Presented at the 57th American Heart Association Meeting in Miami Beach, Florida, November 12-15, 1984. *Circulation* 70:II-287, 1984
7. Libow, M.A., Leimgruber, P.P., Roubin, G.S., Gruentzig, A.R.: "Restenosis after angioplasty (PTCA) in chronic total coronary artery occlusion." *Journal of the American College of Cardiology* 5:445, 1985.
8. Roubin, G.S., Leimgruber, P.P., Douglas, J.S., King, S.B., Gruentzig, A.R.: "Angioplasty in multivessel coronary artery disease: Patient selection and dilatation strategy." *Journal of the American College of Cardiology* 5:445, 1985
9. Gentry, L.T., Leimgruber, P.P.: "Advisability of stress test and discharge one day after uncomplicated coronary angioplasty (PTCA)." *Circulation* 72:III-179, 1985.

10. Redd, D.C.B., Leimgruber, P.P., Roubin, G.S., Abi-Mansour, P., Gruentzig, A.R.: "Can the acute complications following coronary angioplasty (PTCA) be predicted by the trans-stenotic pressure gradient trend?" *Circulation* 72:III-218, 1985.
11. Hoffmeister, T.M., Whitworth, H.S., Leimgruber, P.P., Abi-Mansour, P., Tate, T.M., Gruentzig, A.R.: "Analysis of anatomic and procedural factors related to restenosis after double lesion coronary angioplasty (PTCA)." *Circulation* 72:III-398, 1985.
12. Roubin, G.S., Leimgruber, P.P., Whitworth, H.B., Bredlau, C.E., Pilcher, G., Abi-Mansour, P., Hoffmeister, T., Douglas, J.S., King, S.B., Gruentzig, A.R.: "Influence of balloon size on outcome after coronary angioplasty (PTCA)." *Circulation* 72:III-400, 1985.
13. Roubin, G.S., Redd, D., Leimgruber, P.P., Abi-Mansour, P., Tate, J., Gruentzig, A.R.: "Restenosis after multi-lesion and multi-vessel coronary angioplasty (PTCA)." *Journal of the American College of Cardiology* 7:22 A, 1986
14. Topol, E.J., Ellis, S., Fishman-Rosen, J., Leimgruber, P.P., Myler, R.K., Stertz, S.H., O'Neill, W.W., Roubin, G.S., Douglas, J.S., King, S.K.: "Multicenter study of percutaneous transluminal angioplasty for right coronary artery ostial stenosis." *Journal of the American College of Cardiology* 9:20A, 1214-8, 1987
15. DeWood, M.A., Rubosky, D., Welsh, D., Blanford, V., Ross, M., Stifter, W., Leimgruber, P.P., Shields, J.P.: "High dose dobutamine induced myocardial stress: Comparison of quantitative 2-D echo wall motion and TL201 SPECT." *Circulation* 82:III-732, 1990.
16. Leimgruber, P., Shields, P. - Northwest Cardiovascular Research Institute: "Ultrafast computed tomography utilizing rapid central venous injections to assess coronary bypass graft patency." Presented in: Advances in Ultrafast CT: 1991, an international symposium. October 5, 1991.
17. DeWood, M., Westover, D., Leimgruber, P., Canaday, D., Stifter, W. "Cost containment in acute myocardial infarction: Evidence from a randomized trial that primary PTCA versus rt-PA reduces hospital and followup cost." *Journal of the American College of Cardiology* 19:3, 132A, March 1, 1992.
18. Leimgruber, P., Judge, T., Fuhs, B., Viren, F., Shields, P. "Correlation Between Coronary Artery Calcification Assessed by Ultrafast CT and Angiographically Documented Coronary Artery Disease." Presented at the American College of Cardiology 42nd Annual Scientific Session, Anaheim, California, March 14-18, 1993. *Journal of the American College of Cardiology* 21:2, February 1993:1A.