CURRICULUM VITAE

KLAUS PETER RENTROP, M.D., F.A.C.C., F.A.C.P.

Professional Profile: Internationally recognized cardiologist, academic physician, researcher, and educator who pioneered acute myocardial infarction treatment with PCI and thrombolytic therapy.

Personal Data

Date of Birth	June 27, 1940
Place of Birth	Cologne, Germany
Citizenship	U.S.A.; Germany

Medical School

1960 – 1961	University of Freiburg, Germany
1961 – 1964	University of Münster, Germany
1964 – 1966	University of Heidelberg, Germany
July 14, 1966	Graduated from Medical School, University of Heidelberg ("Sehr Gut," equivalent to an A).

Internship — Germany

December 1966 – November 1967	University of Heidelberg — Surgery; Obstetrics-Gynecology
December 1967 – May 1968	University of Giessen — Internal Medicine

Internship — United States

July 1968 – June 1969	Detroit General Hospital, Detroit, Michigan, Wayne State University — Medical Internship

Residency

July 1969 – June 1970	Detroit General Hospital, Detroit, Michigan — Internal Medicine
July 1970 – June 1971	Cleveland Clinic, Cleveland, Ohio — Internal Medicine
July 1971 – June 1973	Cleveland Clinic, Cleveland, Ohio — Fellowship in Cardiovascular Diseases and Cardiac Laboratory

Academic Qualifications

June 23, 1969	M.D. Thesis, "Pathophysiology of Shock due to Severe Acute Anemia," Summa Cum Laude, University of Heidelberg, Department of Surgery, Division of Experimental Surgery; supported by Studienstiftung des deutschen Volkes (German Academic Scholarship Foundation).
July 7, 1976	Habilitation, University of Freiburg, Germany — postdoctoral thesis and faculty lecture defense: "Impact of Myocardial

	Ischemia and Scar Upon Left Ventricular Function"; awarded the Venia Legendi in Internal Medicine and Cardiology, the German university teaching authorization for independent lecturing and doctoral supervision.

Certifications — Germany

December 31, 1968	License to practice Medicine ("Bestellung als Arzt")
October 3, 1975	Internal Medicine and Cardiology, State Licensing Board ("Facharztanerkennung")

Certifications — United States

February 15, 1967	ECFMG #091-182
December 5-7, 1972	FLEX Examination
June 20, 1973	American Board of Internal Medicine #42465
October 24, 1973	State of California Medical License #A25676
October 31, 1980 to present	State of New York Medical License #144465
July 10, 1986	State of New Jersey Medical License #48390
October 20, 2002	Certification Board of Nuclear Cardiology # 2559 with regular recertifications

Narcotics Certification

1986 – 2011	New Jersey CDS # D 44267
1986 – 2011	New Jersey DEA # AR 2603923
1986	New York DEA # BR 1330478

Military Service: None

Professional Organizations and Societies

1974 – present	Deutsche Gesellschaft für Kreislaufforschung
1982 – present	American College of Physicians-Fellow
1982 – present	American College of Cardiology-Fellow
1984	The Society for Cardiac Angiography-Fellow
1985	American Heart Association, Fellow Council on Thrombosis and Council on Clinical Cardiology
1990 – 1996	European Society of Cardiology Working Group on Coronary Blood Flow and Angina Pectoris
1991	The New York Cardiological Society
1992	Medical Society of New York State
1992	The International Andreas Grüntzig Society (IAGS)
1993 – present	American Society of Nuclear Cardiology, Founding Member

Academic Appointments Germany

July 1973 – July 1976	Instructor of Medicine University of Freiburg at Bad Krozingen, Germany
July 1976 – January 1977	Assistant Professor of Medicine and Cardiology University of Freiburg at Bad Krozingen, Germany
January 1977 – June 1983	Associate Professor of Internal Medicine and Cardiology University of Göttingen, Germany

Academic Appointments USA

December 1983 – Aug 1986	Professor of Medicine Mount Sinai School of Medicine, New York, NY
September 1986 – 2010	Clinical Professor of Medicine New York Medical College, Valhalla, NY
October 2005 – 2010	Clinical Professor of Medicine NYU School of Medicine, New York, NY
November 2010 – 2023	Assistant Clinical Professor Department of Medicine, Division of Cardiology Columbia University, New York, NY College of Physicians and Surgeons

Hospital Appointments Germany

July 1973 – October 1976	Director of Cardiac Catheterization Laboratories, Benedikt Kreutz Rehabilitationszentrum Bad Krozingen, Germany
January 1977 – December 1980	Associate Chair (Erster Oberarzt), Department of Cardiology University of Göttingen, Germany

Hospital Appointments USA

January 1981 – Nov 1983	Associate Attending Staff Physician Department of Medicine, Division of Cardiology Mount Sinai Medical Center, New York, NY
December 1983 – July 1986	Attending Staff Physician Department of Medicine, Division of Cardiology Mount Sinai Medical Center, New York, NY
March 1983 – July 1986	Director, Interventional Cardiology Department of Medicine, Division of Cardiology Mount Sinai Medical Center,

	New York, NY
August 1986 – April 2010	Attending Staff Physician Department of Medicine, Division of Cardiology St. Vincent's Hospital and Medical Center
February 1988 – November 2011	Assistant Attending Department of Medicine, Division of Cardiology St. Michael's Medical Center, Newark, NJ
March 1998 – June 2001	Attending Physician Department of Medicine, Division of Cardiology New York Presbyterian Hospital, New York, NY
February 1991 – Oct 1993	Chairman, Department of Cardiology The Brooklyn Hospital Center, Brooklyn, NY
September 2003 – 2010	Attending Physician, Department of Medicine, Division of Cardiology Beth Israel Hospital – Petrie Division, New York, NY
October 2005 – 2019	Attending Physician Department of Medicine, Division of Cardiology NYU Langone Medical Center - Tisch Hospital, New York, NY
October 2005 – October 2008	Attending Physician Department of Medicine, Division of Cardiology Bellevue Hospital Center New York, NY
November 2005 – October 2009	Attending Physician Department of Medicine, Division of Cardiology St. John’s Queens Hospital, Elmhurst, New York, NY
June 2010 – August 2012	Assistant Medical Staff Department of Medicine, Division of Interventional Cardiology NSLIJ - Lenox Hill Hospital, New York, NY
November 2010 – 2023	Admitting Attending Physician, Department of Medicine, Division of Cardiology New York Presbyterian Hospital, New York, NY The University Hospital of Columbia and Cornell

Private Practice

August 1986	I established a private cardiology practice in Manhattan after leaving full-time hospital practice at Mount Sinai. Initially focused exclusively on interventional cardiology at St. Vincent’s Hospital in Manhattan, the practice subsequently expanded through appointments at hospitals in New Jersey and

	Manhattan.
1990	I expanded the practice to include noninvasive diagnostic and therapeutic modalities, including nuclear cardiology and cardiac SPECT imaging to assess myocardial blood flow—then a new technique.
1999	I introduced cardiac PET imaging, making the practice the first private cardiology practice in New York to offer the technology. In subsequent years, I expanded access to cardiac PET imaging for underserved communities across New York.
2017	I introduced HeartSee, cardiac PET software newly developed by Dr. K. Lance Gould of Houston, Texas. The software improved the noninvasive diagnosis of coronary artery disease and the assessment of whether invasive procedures were necessary, substantially reducing unnecessary procedures.

Patents

August 2002	Patent No.: US 6,440,125 Excimer Laser Catheter
January 2004	Patent No.: US 6,673,064 - Excimer Laser Catheter

Honors and Awards

I have received several dozen honors and awards. A few examples follow:

1963	Studienstiftung des Deutschen Volkes, Germany's National Merit Foundation, which supports approximately the top 0.5% of students. Stipend for Academic Excellence
May 1980	International Recognition Award Heart Research Foundation, New York, NY
1983	Miembro Correspondiente Extranjero Sociedad Argentina de Cardiologia

Invited Lectures and Keynote Speeches

I have given several hundred invited lectures and keynote speeches. A few examples follow:

April/May 1982	Keynote Speech in Melbourne, Australia and Lecture Tour upon Invitation of the Australian Society of Cardiology
May 3, 1986	Keynote speech on "Intracoronary and Intravenous Thrombolysis" Plenary Session, Congresso Sudamericano de Cardiologia Porte Alegre, Brazil
June 1986	"State of the Art in Acute Myocardial Infarction" First International Symposium on Recent Advances in Cardiovascular Therapy, Brazilian Society of Cardiology
March 28, 1987	Keynote speech "Clinical Importance of Coronary Thrombolysis in the Treatment of Acute Myocardial Infarction" and lectures at the

34th General Assembly of the Japanese Society of Cardiac Angiography, Tokyo, Japan

November 1987 Host and Speaker in Plenary Session VII, Symposium: Interventions in Acute Myocardial Infarction
60th Annual Scientific Sessions of the American Heart Association, Anaheim, CA

December 1998 Henry I. Russek Lecture at the 31st Anniversary of the American College of Cardiology, New York Cardiovascular Symposium, New York, NY

Research Appointments

December 1966 - November 1967 Principal Investigator:
"Pathophysiology of Hemodilution Shock" supported by the "Studienstiftung des Deutschen Volkes", Department of Surgery, Division of Experimental Surgery, University of Heidelberg, Germany

December 1973 - November 1975 Principal Investigator:
"Impact of Myocardial Ischemia and Scar upon Left Ventricular Function", supported by the Cardiac Rehabilitation Center, Bad Krozingen, Germany

January 1977 – December 1983 Co-Principal Investigator:
"Validation Studies in Nuclear Cardiology: Assessment of Left Ventricular Ejection Fraction by Radionuclide Ventriculographic Methods and Assessment of Myocardial Perfusion and Scar by Thallium Scintigraphy", supported by Deutsche Forschungsgemeinschaft, SFB 89, University of Göttingen, Germany

1977 – 1981 Project Leader:
"Limitation of Infarct Size"
Supported by the Deutsche Forschungsgemeinschaft, SFB 89, University of Göttingen, Germany (equivalent of NIH score grant)

1978 – 1980 Co-Principal Investigator:
"Cardiotoxicity of Various Contrast Agents" supported by Deutsche Forschungsgemeinschaft, SFB 89,
University of Göttingen, Germany

1978 – 1981 Principal Investigator:
"Transluminal Recanalization of Acute Coronary Occlusion in Acute Myocardial Infarction", supported by Deutsche Forschungsgemeinschaft, SFB 89, University of Göttingen, Germany

1980 – 1984	Chairman, Working Group for Intracoronary Thrombolysis Deutsche Gesellschaft für Kreislaufforschung, Bad Nauheim, Germany
1980 – 1986	Chairman, Working Group for Fibrinolytic Therapy Deutsche Gesellschaft für Kreislaufforschung, Bad Nauheim, Germany
1981 – 1985	Chairman, Registry for Intracoronary Thrombolysis, European Society of Cardiology
January 1981 – August 1982	Co-Principal Investigator: "First Mt Sinai-New York University Reperfusion Trial", supported by Heart Research Foundation and the New York Cardiac Center, New York, NY
August 1982 – Oct 1987	Principal Investigator: "The Second Mt. Sinai-New York University Randomized Clinical Trial of Non- Surgical Reperfusion in Acute Myocardial Infarction", supported by the NIH Grant RO1 HL 28843-03
February 1984 – 2020	President, Foundation for Interventional Cardiology, New York, NY
1996 – 1997	Principal Investigator: Multicenter "Dilatation versus Ablation Trial" (DART), at St. Vincent's Hospital, New York, NY, supported by Boston Scientific Inc
September 1998 – 2000	Principal Investigator: Development and Animal Testing of the XTO Laser Catheter for Total Occlusions supported by Spectranetics Corporation

Committee Service

1984 – 1987	Member of the Cardiovascular Procedures Committee of the American College of Cardiology
1986 – 1987	Program Committee of the Council on Clinical Cardiology of the American Heart Association
1995 – 1998	Committee on Continuing Medical Education and Committee on Programs of The New York Cardiological Society
1998 – 2001	Cardiac Advisory Committee of IPRO (Island Peer Review Organization), New York State
December 16, 1992	FDA: Joint Advisory Committee Meeting. Center for Biologics Evaluation and Research — Guidelines for the Development of New Thrombolytics,

New Drug Regimens, and/or Adjuvant Therapy in the Treatment of Acute Myocardial Infarction.

Course Director

May 13-15, 1979	Quantification of Myocardial Ischemia First Symposium in the "Clinical Cardiology International Symposia Series" The University of Göttingen
September 26-28, 1991	Pharmacologic and Mechanical Interventions in Ischemic Heart Disease A Three-Day Course The New York Cardiological Society, The New York State Chapter, ACC
September 24-26, 1992	Interventions in the Treatment of Heart Disease A Three-Day Course The New York Cardiological Society, The New York State Chapter, ACC
September 30 – October 2, 1993	Interventions in the Treatment of Heart Disease A Three-Day Course he New York Cardiological Society, The New York State Chapter, ACC
September 29-30, 1994	Interventions in the Treatment of Heart Disease A Two-Day Course The New York Cardiological Society, The New York State Chapter, ACC The Foundation for Interventional Cardiology
October 26-27, 1995	Interventions in the Treatment of Heart Disease A Two-Day Course The New York Cardiological Society, The New York State Chapter, ACC
October 31 – November 1, 1996	Interventions in the Treatment of Heart Disease A Two-Day Course The New York Cardiological Society, The New York State Chapter, ACC Foundation for Interventional Cardiology, Inc.

Consulting Activities

1979 – 1983	Hoechst AG — Regulatory processes; market development.
1985 – 1991	USCI — Catheter development.
January 1986	Medical consultant to His Royal Highness Crown Prince Abdullah Ibn Abdulaziz at King Faisal Hospital, Riyadh, Saudi Arabia, upon invitation of the Saudi Arabian government.
1987 – 1991	Medical consultant for complex angioplasty procedures in England and Switzerland, four sessions each year.
1994	Bristol-Myers — Acquisitions.
1998 – 2000	Spectranetics Corporation — Catheter development.

Bibliography

Refereed Articles

1. Roskamm H, Schnellbacher K, **Rentrop K P,** Skutta TH, Lonne E, Gornandt L, Harnasch P: Die Indikation zum Aorto-Koronaren Venen-Bypass. Therapiewoche 1974; 51:6075-6077.

2. Roskamm H, Schnellbacher K, Pietzcker W, **Rentrop K P,** Hagemann I, Gornandt L, Burkhardt K: Die Hämodynamik im Chronischen Infarktstadium – Rechtsherzkatheterisierungen an 717 Männern. Verh Dtsch Ges Kreislaufforsch 1974; 40:440-445.

3. **Rentrop K P,** Stürzenhofecker P, Petersen J, Kovacsics H, Roskamm H: Indikationen und Ergebnisse der Koronarangiographie. Therapiewoche 1974; 51:6060-6067.

4. **Rentrop K P,** Roskamm H, Schnellbacher K, Lönne E, Hahn CH, Schmuziger M, Faidutti B: Faktoren, die das Funktionelle Ergebnis einer Aorto-Koronaren Bypass-Operation bestimmen. Verh Dtsch Ges Kreislaufforsch 1975; 41:203-206.

5. **Rentrop K P,** Friedrich B, Roskamm H: Hämodynamik in Ruhe und bei Belastung in Abhängigkeit von Gefäßbefall bei Koronarkranken. Med Klin 1975; 70:1962-1965.

6. **Rentrop K P,** Friedrich B, Roskamm H: Ergometrische Befunde bei Koronarkranken in Abhängigkeit von Ausdehnung und Lokalisation des Gefäßbefalls. Med Klin 1975; 70:1955-1961.

7. **Rentrop K P,** Burkhardt K, Roskamm H: Leistungsfähigkeit und Hämodynamik bei Koronarpatienten. Einfluss der Koronarinsuffizienz und der Narbengröße. Herz-Kreislauf

1975; 7:406-412.

8. Samek L, Roskamm H, **Rentrop K P,** Kaiser P, Stürzenhofecker P, Schober B, Gronandt L, Velden R: Belastungsprüfungen und Koronarangiogramm im Chronischen Infarktstadium. Z Kardiol 1975; 64:809-814.

9. **Rentrop K P,** Schober B, Roskamm H, Reindell H, Schmuziger M, Faidutti B, Hahn CH: Funktionsverbesserung im Lävogramm nach Aorto-Koronarer Bypass Operation. Z Kardiol 1976; 65:405-416.

10. **Rentrop K P,** Schober B, Klank W, Roskamm H: Morphologische Faktoren, die die Leistungsfähigkeit und Hämodynamik nach aorto-koronarer Bypass Operation bestimmen. Therapiewoche 1976; 26:1776-1779.

11. **Rentrop K P,** Roskamm H, Schmuziger M, Hahn CH, Faidutti B: Veränderungen der linksventrikulären Funktion nach aorto-koronarer Bypass Operation. Verh Dtsch Ges Kreislaufforsch 1976; 42:201-207.

12. **Rentrop K P:** The Significance of the Half-Axial Projection in Coronary Angiography. Basic Res Cardiol 1976; 71:96-102.

13. Kovacsics H, Weisswange A, **Rentrop K P,** Roskamm H: Der jugendliche Herzinfarkt. Therapiewoche 1976; 26:1768-1770.

14. Dietze W, **Rentrop K P,** Schmidt HD, Schmier J: Die Wirkung von Dextran, Gelatine und homologem Blutplasma auf den Kreislauf im Schock durch hochgradige Anämie am Hund. Prakt Anästhesie 1976;11-59-68.

15. Roskamm H, Weisswange A, Hahn CH, Jauch KW, Schmuziger M, Petersen J, **Rentrop K P,** Schnellbacher K: Hemodynamics at Rest and During Exercise in 222 Patients with Coronary Heart Disease before and after Aorto-Coronary Bypass Surgery. Cardiology 1977; 62:247-260.

16. Roskamm H, Samek L, Rupp G, Schnellbacher K, Stürzenhofecker P, Petersen J, **Rentrop K P**,
Prokoph J**:** Verbessert die zusätzliche Messung des Pulmonalkapillardruckes während körperlicher Belastung die Voraussage des Coronarangiographischen Befundes bei Patienten ohne transmuralen Herzinfarkt? Z Kardiol 1977; 66:477-482.

17. Roskamm H, Samek L, Zweigle K, Stürzenhofecker P, Petersen J, **Rentrop K P,** Prokoph J: Die Beziehungen zwischen den Befunden der Koronarangiographie und des Belastungs-EKG bei Patienten ohne Transmuralen Myokardinfarkt. Z Cardiol 1977; 66:273-280.

18. **Rentrop K P:** Koronarangiographie: Komplikationsraten, Technische Neuerungen.

Röntgenpraxis. 1977; 30:1-6.

19. Mohr H, **Rentrop K P,** Streustrahlenverteilung an einem U-Stativ in der Kardiologischen Praxis. Z Cardiol 1977; 66:74-78.

20. Karsch KR, **Rentrop K P,** Blanke H, Kreuzer H: Hemodynamic Effects of Molsidomin. Europ J Clin Pharmacol 1978; 13:241-245.

21. **Rentrop K P,** De Vivie E, Karsch K, Kreuzer H: Acute Coronary Occlusion with Impending Infarction as an Angiographic Complication relieved by a Guide-Wire Recanalization. Clin Cardiol 1978; 1:101-106.

22. **Rentrop K P,** Karsch KR, Nitsche K: The Ischemic Segment and Left Ventricular Function during Exercise Angina. Clin Cardiol 1978; 1:22-30.

23. Roskamm H, Samek L, Cherchez TH, **Rentrop K P,** Werner HO,Gercke W, Deuss M, Schmeisser HJ, Stuerzenhofecker P, Benesch L: Der Nicht Transmurale Herzinfarkt - Ein Diagnostisches Problem.
Dtsch Med Wschr 1978; 103:497-503.

24. Karsch KR, Scheufler S, Blanke H, **Rentrop K P:** Pumpfunktion des Normalen Rechten Ventrikels in Ruhe und unter Belastung. Z Kardiol 1979; 68:485-490.

25. Schicha H, Facorro L, **Rentrop K P,** Karsch KR, Blanke H, Luig H, Carstens B, Domovitz S, Kreuzer H, Emrich D: Quantitative Belastungs-Szintigraphie des Myokards mit Thallium 201. Methodik und Normalverhalten. Nucl Med 1979; 18:266-270.

26. **Rentrop K P,** Blanke H, Karsch KR, Wiegand V, Köstering H, Oster H, Leitz K: Acute Myocardial Infarction: Intracoronary Application of Nitroglycerin and Streptokinase. Clin Cardiol 1979; 2:354-363.

27. **Rentrop K P,** Blanke H, Wiegand V, Karsch KR: Wiedereröffnung verschlossener Kranzgefäße im akuten Infarkt mit Hilfe von Kathetern (Transluminale Rekanalisation). Dtsch Med Wschr 1979; 104:1401-1405.

28. **Rentrop K P,** Blanke H, Karsch KR, Wiegand V, Köestering H, Rahlf G, Oster H, Leitz K: Wieder-eröffnung des Infarktgefäßes durch Transluminale Rekanalisation und Intrakoronare Streptokinaseapplikation. Dtsch Med Wschr 1979; 104:1438-1440.

29. **Rentrop K P,** Blanke H, Karsch KR, Kreuzer H: Koronarmorphologhie und Linksventrikuläre Pumpfunktion im Akuten Infarkstadium und ihre Änderungen im Chronischen Stadium. Z Kardiol 1979; 68:335-350.

30. **Rentrop K P,** Blanke H, Karsch KR, Kreuzer H: Initial Experience with Transluminal Recanalization of the recently occluded Infarct-Related Coronary Artery in Acute

Myocardial Infarction-Comparison with Conventionally Treated Patients. Clin Cardiol 1979; 2:92-105.

31. Luig H, Bartella R, Carstens B, Domovitz S, Reuter R, Emrich D, Facorro L, Schicha H, Graf M, Karsch KR, **Rentrop K P,** Kreuzer H: Nuklearmedizinische Bestimmung Linksventrikulärer Volumenkurven ohne Untergrundkorrektur und ihre Validisierung durch Direkten Vergleich mit Biplan-Lävokardiographisch Ermittelten Auswurffraktionen. Nucl Med 1979; 18:120-124.

32. Karsch KR, Blanke H, Kreuzer H, **Rentrop K P:** Wirkung von Molsidomin auf die Funktion und Volumina des Linken Ventrikels bei Patienten mit Koronarer Herzerkrankung. Z Kardiol 1979; 68:71-76.

33. Zipfel J, Baller D, Blanke H, Jonas W, Karsch KR, **Rentrop K P,** Sigmund-Duchanova H, Hellige G: Decrease in Cardiotoxicity of Contrast Media in Coronary Angiography by Added Calcium. Clinical study Ann Radiol 1980; 23:382-383.

34. **Rentrop K P,** Blanke H, Karsch KR, Köstering H, Oster H, Leitz H: Recanalization of an Acutely Occluded Aortocoronary Bypass by Intragraft Fibrinolysis. Circulation 1980; 62:1123-1126.

35. Zipfel J, Baller D, Blanke H, Karsch KR, **Rentrop K P,** Hellige G: Decrease in Cardiotoxicity of Contrast Media in Coronary Angiography by Addition of Calcium Ions: A Combined Experimental and Clinical Study. Clin Cardiol 1980; 3:178-183.

36. Zipfel J, Baller D, Blanke H, Karsch KR, **Rentrop K P,** Wiegand VW, Wolpers HG, Hellige G: Reduktion Kardialer Nebenwirkungen von Röntgenkontrastmitteln in der Angiokardiographie durch Zusatz von Kalzium und Verwendung eines Nichtionischen Kontrastmittels. Klin Wochenschr 1980; 58:1339-1346.

37. Schicha H, **Rentrop K P,** Karsch KR, Blanke H, Facorro L, Kreuzer H, Emrich D: Begrenzung der Indikationen zur Myokardszintigraphie mit Thallium-201 bei Koronarer Herzkrankheit. Verhandlungen der Deutschen Gesellschaft für Innere Medizin 1980; 86:577-579.

38. Karch KR, Schicha H, **Rentrop K P,** Kreuzer H, Emrich D: Validity of Different Gated Equilibrium Blood Pool Methods or Determination of Left Ventricular Ejection Fraction. Eur J Nucl Med 1980; 5:439-445.

39. Schicha H, **Rentrop K P,** Facorro L, Karsch K, Blanke H, Kreuzer H, Emrich D: Ergebnisse der Quantitativen Myokardszintigraphie mit Thallium-201 in Ruhe und unter Maximaler Belastung. Kritische Analyse des Prädiktiven Wertes und der klinischen Anwendung. Z Kardiol 1980; 69:31-42.

40. Schicha H, Blanke H, **Rentrop K P,** Karsch KR, Kreuzer H, Emrich D:

Myokardszintigraphie mit Thallium-201 zur Feststellung der Funktionsfähigkeit Aortokoronarer Bypässe bei Mehrgefäß-KHK und Mehrfach-Bypassen. Z Kardiol 1980; 69:531-535.

41. Karsch KR, Lamm U, Blanke H, **Rentrop K P:** Comparison of Nineteen Quantitative Models for Assessment of Localized Left Ventricular Wall Motion Abnormalities. Clin Cardiol 1980; 3:123-128.

42. Blanke H, Karsch KR, Kreuzer H, **Rentrop K P:** Changes in Coronary Anatomy and Left Ventricular Function from the Acute to the Chronic Stage of Myocardial Infarction. Clin Cardiol 1980; 3:61-66.

43. Karsch KR, Schicha H, **Rentrop K P,** Blanke H, Kreuzer H, Emrich D: Qualitative und Semiquantitative Analyse der Lokalen Wandfunktion mittels der Gated-Blood-Pool Methode im Vergleich zur Cineventrikulographie. Z Kardiol 1980; 69:334-338.

44. Zipfel J, Baller D, Blanke H, Jonas W, Karsch KR, **Rentrop K P,** Hellige G: Die Reduktion der Kardialen Nebenwirkungen Ionischer Kontrastmittel bei der Koronarangiographie durch Kalziumzusatz. Klinische Studie. Z Kardiol 1980; 69:406-413.

45. Schicha H, **Rentrop K P,** Facorro L, Karsch KR, Blanke H, Kreuzer H, Emrich D: Predictive Value of Thallium Scintigraphy in Coronary Artery Disease. Clin Cardiol 1980; 3:184-187.

46. Karsch KR, Schicha H, **Rentrop K P,** Blanke H, Kreuzer H, Emrich D: Diagnostik von Ausmaß und Ausdehnung der koronaren Herzerkrankung. Vergleich eines T1-Scores mit Invasiven und Nichtinvasiven Daten. Z Kardiol 1980; 69:536-541.

47. Schicha H, Facorro, L, **Rentrop K P:** Untersuchung der Myokarddurchblutung mit Thallium-201. Therapiewoche 1980; 30:2735-2746.

48. **Rentrop K P,** Blanke H, Karsch K, Köstering H: Intrakoronare Thrombolyse über Koronarkatheter im Akuten Infarkt und bei Instabiler Angina Pectoris. Verhandlungen der Deutschen Gesellschaft für Innere Medizin 1980; 86:597-599.

49. Leitz KH, **Rentrop K P,** Oster H, Blanke H, Kreuzer H: Combined Medical and Surgical Procedure in Acute Myocardial Infarction - A Preliminary Report. Thorac Cardiovasc Surgeon 1980;28:285-290.

50. Karsch KR, Scheufler S, Blanke H, **Rentrop K P:** Right Ventricular Function at Rest and During Exercise in Patients with Coronary Heart Disease. European J Cardiol 1980; 11:123-133.

51. **Rentrop K P,** Blanke H, Köstering H, Karsch KR: Intrakoronare Streptokinase Applikation bei Akutem Infarkt und Instabiler Angina Pectoris. Dtsch Med Wschr 1980; 105:221-228.

52. Schicha H, Blanke H, **Rentrop K P,** Karsch KR, Kreuzer H, Emrich D: Quantitative Myocardial Scintigraphy with 201-Thallium during the Acute and in the Chronic Infarction State – A Comparison with Angiographic Findings in three Patients. Nuc Compact 1981; 12:250-256.

53. **Rentrop K P:** Lokale Anwendung von Streptokinase in Stenosierten bzw. Verschlossenen Koronargefäßen. Therapiewoche 1981; 31:2581-2584.

54. **Rentrop K P,** Blanke H, Karsch KR, Rahlf G, Leitz K: Infarktgrößenbegrenzung durch Nicht-Chirurgische Rekanalisation der Koronararterien. Dtsch Med Wschr 1981; 106:765-770.

55. **Rentrop K P,** Blanke H, Karsch KR, Kaiser H, Köstering H, Leitz K: Selective Intracoronary Thrombolysis in Acute Myocardial Infarction and Unstable Angina Pectoris. Circulation 1981; 63:307-317.

56. **Rentrop K P:** Revascularization in Acute Myocardial Infarction. Acta Med Scand 1981; 210 Su 651:157-161.

57. Rutsch W, Schartl M, Mathey D, Kuck K, Merx W, Doerr R, **Rentrop K P,** Blanke H: Percutaneous Transluminal Coronary Recanalization: Procedure, Results and Acute Complications. Am Heart Journal 1981; 102:1178-1181.

58. Merx W, Doerr R, **Rentrop K P,** Blanke H, Karsch K, Mathey DG, Kremer P, Rutsch W, Schmutzler H: Evaluation of the Effectiveness of Intracoronary Streptokinase Infusion in Acute Myocardial Infarction: Postprocedure Management and Hospital Course in 204 Patients. Am Heart Journal 1981; 102:1181-1187.

59. **Rentrop K P,** Blanke H, Karsch K, Rutsch W, Schartl M, Merx W, Doerr R, Mathey D, Kuck K: Changes in Left Ventricular Function after Intracoronary Streptokinase Infusion in Clinically Evolving Myocardial infarction. Am Heart Journal 1981; 102:1188-1193.

60. Mathey DG, Rodewald G, **Rentrop K P,** Leitz K, Merx W, Messmer BJ, Rutsch W, Buecherl ES: Intracoronary Streptokinase Thrombolytic Recanalization and Subsequent Surgical Bypass of Remaining Atherosclerotic Stenosis in Acute Myocardial Infarction: Complementary Combined Approach Effecting Reduced Infarct Size, Preventing Reinfarction and Improving Left Ventricular Function. Am Heart Journal 1981; 102:1194-1201.

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124. Lang FM, Argenziano M, Gould KL, **Rentrop K P**: Randomized Clinical Trial of Positron Emission Tomography-Derived Pixel-Level Coronary Flow Capacity to Guide Immediate Revascularization in Patients with Stable Coronary Artery Disease (PETREVASC): Study Rationale and Design. American Society of Nuclear Cardiology – 26th Annual Scientific 2021. Poster Session: Myocardial Perfusion and Functional Imaging. Poster presentation, abstract #326. October 2021. Virtual meeting.

125. Lang FM, **Rentrop K P,** Simpson M, Erwin WC, Argenziano M. PET Myocardial Perfusion Imaging as a Tool to Augment Coronary Revascularization Decision-Making by Non-Invasively Differentiating Between Physiologically Significant and Insignificant Stenoses. Society of Thoracic Surgeons 58th Annual Meeting. Track: Adult Cardiac. Poster presentation, abstract #1865481. January 2022. Virtual Meeting.

126. Lang FM, **Rentrop K P,** Simpson M, Erwin WC, Argenziano M. Coronary Flow Capacity at the Pixel-Level Helps Identify Stenoses that Appear Insignificant on Relative Flow. American College of Cardiology – 71st Annual Scientific Session 2022. Pathway: Multimodality Imaging. Moderated poster presentation (one of three invited for this session), abstract #10087. April 2022. Washington, DC

127. Weinstein HNW, Lang FM, Barrett CP, Lampe A, Sevensky RD, Fields L, Leschly KL, Argenziano M, **Rentrop K P:** Effect of Revascularization Versus Optimal Medical Therapy Alone on Coronary Flow Capacity Derived from Serial PET Imaging Studies. American College of Cardiology – 72nd Annual Scientific Session 2023. Pathway: Multimodality Imaging. Poster presentation. March 2023. New Orleans, LA.

Invited Articles

1. **Rentrop K P:** Leistungsfähigkeit und Belastbarkeit bei Patienten mit Koronarer Herzerkrankung. Herz und Kreislauf 6:348-353, 1974.

2. **Rentrop K P:** Welche Komplikationsraten sind in der Koronarangiographie akzeptabel? Dtsch Med Wschr 37:1863- 1865, 1975.

3. Roskamm H, **Rentrop K P,** Petersen J: Die Ventrikelfunktion bei koronarer Herzerkrankung. Verh Dtsch Ges Kreislaufforsch 42:50-62, 1976.

4. **Rentrop K P,** Schnellbacher K, Stürzenhofecker P, Roskamm H, Hahn C H, Schmuziger M, Faidutti B: Left Main Coronary Artery Stenosis: Predictability, Complication Rate of Coronary Angiography and Results of Aorto-Coronary Bypass Surgery. In: Coronary Angiography

5. **Rentrop K P:** Bericht über einige Vorträge und Diskussionen der 48. Sitzung der American Heart Association in Anaheim, California, 1975. Herz-Kreislauf 8:149-153, 1976.

6. **Rentrop K P,** Blanke H, Karsch K R, Wiegand V, Kühn R, Mohr H: Rotation Coronary Angiography. Medicamundi 25:1-3, 1980.

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8. **Rentrop K P,** Blanke H, Karsach K R: Non-surgical Reperfusion in Acute Myocardial Infarction. Herz 6:44-49, 1981.

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11. **Rentrop K P:** Therapie des Akuten Myokardinfarkts durch Intrakoronare Fibrinolyse. Die gelben Hefte 22:111-118, 1982.

12. **Rentrop K P:** Thrombolysis in Acute Myocardial Infarction: Prevention or Containment, Ventricular Function, Outcome, Longterm Results, systemic or intracoronary. Texas Heart Institute J 9:484, 1982.

13. **Rentrop K P:** Hospital-Phase: Infarktgrößenbegrenzung durch Invasive Therapie. Arzt und Krankenhaus. C 1284 E:10-11, 1982.

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15. Feit F, **Rentrop K P:** Thrombolytic Therapy in Acute Myocardial Infarction. Cardiovascular Reviews and Reports. 4:353, 1983.

16. **Rentrop K P,** Cohen M, Hosat S T: Thrombolytic Therapy in Acute Myocardial Infarction: Review of Clinical Trials. Am J Cardiol, 54:29E-31E, 1984.

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18. **Rentrop K P:** Thrombolytic Therapy in Patients with Acute Myocardial Infarction. Circulation: Vol III, No. 4, 627-631, April 1985.

19. **Rentrop K P:** Restoration of Antegrade Flow in Acute Myocardial Infarction: The first 15 years. JACC 1995; 25:1S.

20. **Rentrop K P:** Rationale for Thrombolytic Therapy in Acute Myocardial Infarction. Am J Cardiol, Continuing Education Series, Thrombolytic Therapy: New Standards of Care. The Science of Plasminogen Activators: Ed: RM CAliff, Part I:4-8, 1996.

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