

Klinische Wochen- schrift

Organ der Gesellschaft
Deutscher Naturforscher
und Ärzte

Editor in Chief

N. Zöllner, Munich

Associate Editors

G.W. Duff, Sheffield

U. Gresser, Munich

4 Med. 62 24

69
1991

7-586

h)
reiburg)
en
-I. Löffler
Lubsen
neva)
r (Berlin)

(Hamburg) · J. Shepherd (Glasgow) · H.B. Stancin (Basle)
K.-H. Usadel (Frankfurt a.M.) · G. Vantrappen (Louvain)
P. von Wichert (Marburg) · K.G. Wormsley (Dundee)

Coeditors

Molecular Medicine

T. Boehm, Freiburg

G.W. Duff, Sheffield

R. Mertelsmann, Freiburg

Clinical Pharmacology

M.S. Lennard, Sheffield

I. Walter-Sack, Heidelberg

E. Weber, Heidelberg

Advisory Board

R. Arnold (Marburg) · W.G. Daniel (Hannover) · J. Dichgans
(Tübingen) · A. Distler (Berlin) · H.L. Fehm (Lübeck) · R. Ferlinz
(Mainz) · O. Götze (Göttingen) · F.A. Gries (Düsseldorf)
W.L. Gross (Lübeck/Bad Bramstedt) · E.G. Hahn (Erlangen)
H.-L. Hahn (Würzburg) · W.H. Hitzig (Zurich) · D. Hoelzer
(Frankfurt a.M.) · C. Keller (Munich) · J. Köbberling (Wuppertal)
E. Köttgen (Berlin) · H.J. Kramer (Bonn) · R. Lüthy (Zurich)
K.-H. Meyer zum Büschenfelde (Mainz) · M.J. Mihatsch (Basle)
C. Mueller-Eckhardt (Gießen) · O.-A. Müller (Munich)
E.O. Riecken (Berlin) · E. Ritz (Heidelberg) · R. Ritz (Basle)
M. Schattenkirchner (Munich) · W. Schneider (Düsseldorf)
H. Schuster (Munich) · H.-P. Schuster (Hildesheim) · W. Seeger
(Giessen) · H.-G. Sieberth (Aachen) · F.-A. Spengel (Munich)
G. Steinbeck (Munich) · G. Utermann (Innsbruck) · H. Vetter
(Bonn) · C. Wagener (Hamburg) · M. Wienbeck (Augsburg)
G. Wolfram (Munich) · R. Ziegler (Heidelberg)

69. Jahrgang · 1991

Springer-Verlag
Berlin Heidelberg New York London Paris
Tokyo Hong Kong Barcelona Budapest



Begründet 1922. Herausgegeben von V. Salle, A. Gottstein, A. v. Domaris, P. Jungmann, C. v. Noorden, H. Schwegk u.a. Ab 1926 Organ der Gesellschaft Deutscher Naturforscher und Ärzte. Berlin, Springer und München, J.F. Bergmann.

Bildet die Fortsetzung der „Berliner Klinischen Wochenschrift“, die von 1864–1920, herausgegeben von L.C. Posner, L. Waldenburg, C.A. Ewald usw. in Berlin, A. Hirschwald, erschien, und der „Therapeutischen (Halb-)Monatshefte“, die von 1887–1921, herausgegeben von W. Heubner, L. Langstein, E. Meyer in Berlin, Springer-Verlag, erschienen.

Die in der Zeitschrift veröffentlichten Beiträge sind urheberrechtlich geschützt. Alle Rechte, insbesondere das der Übersetzung in fremde Sprachen, vorbehalten. Kein Teil dieser Zeitschrift darf ohne schriftliche Genehmigung des Verlages in irgendeiner Form – durch Fotokopie, Mikrofilm oder andere Verfahren – reproduziert oder in eine von Maschinen, insbesondere von Datenverarbeitungsanlagen, verwendbare Sprache übertragen werden.

Auch die Rechte der Wiedergabe durch Vortrag, Funk- und Fernsendsung, im Magnettonverfahren oder ähnlichem Wege bleiben vorbehalten.

Fotokopien für den persönlichen und sonstigen eigenen Gebrauch dürfen nur von einzelnen Beiträgen oder Teilen daraus als Einzelkopien hergestellt werden. Jede im Bereich eines gewerblichen Unternehmens hergestellte und benützte Kopie dient gewerblichen Zwecken gem. § 54 (2) UrhG und verpflichtet zur Gebührenzahlung an die VG WORT, Abteilung Wissenschaft, Goethestr. 49, W-8000 München 2, von der die einzelnen Zahlungsmodalitäten zu erfragen sind.

Special regulations for photocopies in the USA: Photocopies may be made for personal or in-house use beyond the limitations stipulated under Section 107 or 108 of U.S. Copyright Law, provided a fee is paid. This fee is US \$ 0.20 per page, or a minimum of US \$ 1.00 if an article contains fewer than five pages. All fees should be paid to the Copyright Clearance Center, Inc., 21 Congress Street, Salem, MA 01970, USA, stating the ISSN 0023-2173, the volume, and the first and last page numbers of each article copied. The copyright owner's consent does not include copying for general distribution, promotion, new works, or resale. In these cases, specific written permission must first be obtained from the publisher.

Jeder Autor, der Deutscher ist oder ständig in der Bundesrepublik Deutschland oder Berlin (West) lebt oder Bürger Österreichs, der Schweiz oder eines Staates der Europäischen Gemeinschaft ist, kann unter bestimmten Voraussetzungen an der Ausschüttung der Bibliotheks- und Fotokopierentantiemen teilnehmen. Nähere Einzelheiten können direkt von der Verwertungsgesellschaft WORT, Abteilung Wissenschaft, Anschrift s. oben, eingeholt werden.

Die Wiedergabe von Gebrauchsnamen, Handelsnamen, Warenbezeichnungen usw. in dieser Zeitschrift berechtigt auch ohne besondere Kennzeichnung nicht zu der Annahme, daß solche Namen im Sinne der Warenzeichen- und Markenschutz-Gesetzgebung als frei zu betrachten wären und daher von jedermann benutzt werden dürften.

Für Angaben über Dosierungsanweisungen und Applikationsformen kann vom Verlag *keine Gewähr* übernommen werden. Derartige Angaben müssen vom jeweiligen Anwender im Einzelfall anhand anderer Literaturstellen auf ihre Richtigkeit überprüft werden.

Printers: Universitätsdruckerei H. Stürtz AG, Würzburg

© Springer-Verlag Berlin Heidelberg 1992

Printed in Germany

Autoren-/Titelverzeichnis

Author-/Title Index

Supplement XXIII: 97. Tagung der Deutschen Gesellschaft für Innere Medizin, Wiesbaden, 6.–10. April, 1991

Supplement XXIV: Kardioprotektion und Nephroprotektion durch ACE-Hemmer (Workshop), Bonn, 1.–2. Februar 1990

Supplement XXV: Sodium Restriction as a Public Health Measure for the General Population (International Symposium), Bonn, October 5, 1990

Supplement XXVI: Moderne Arzneimitteltherapie auf der Intensivstation – Konzepte? 11. Symposium der Chirurgischen Arbeitsgemeinschaft für Intensiv- und Notfallmedizin (CAIN), Köln, 6.–8. Dezember 1990

Supplement XXVII: Streßulkus- und Pneumonieprophylaxe (Symposium), Freiburg, 21. Juni 1991

Ahnfelt-Rønne I → Nielsen OH

Aichner F → Berek K

Albrecht H → Fenske S

Albrecht H → Stellbrink H-J

Allerberger F, Kasten MJ, Anhalt JP: Campylobacter Fetus Subspecies Fetus Infection 813

Allgayer H: Clinical Relevance of Oxygen Radicals in Inflammatory Bowel Disease – Facts and Fashion 1001

Alphin F → Schieffer B

Althoff P → Boehm BO

Andreoni KA → Schiller HJ

Andus T → Groß V

Anhalt JP → Allerberger F

Anvari A → Pietschmann P

Arndt H, Kubes P, Granger DN: Involvement of Neutrophils in Ischemia-Reperfusion Injury in the Small Intestine 1056

Arnoldner O → Pollack H

Asenbaum S, Zeitlhofer J, Spiss Ch, Wolner E, Deecke L: Neurologische und psychiatrische Komplikationen nach Herzoperationen 368

Aßmus H-P → Bonatz K

Babel D → Thinnies FP

Bachmann K → Pongratz G

Baczako K → Schoenberg MH

Baer F → Hartmann F

Baldamus CA → Müller R

Bánhegyi D → Pálóczi K

Barnikel U → Wieshammer S

Baumann R, Täuber MG, Opravil M, Hirschel B, Kinloch S, Chave JPh, Pletscher M, Lüthy R: Combined Treatment with Zidovudine and Lymphoblast Interferon-Alpha in Patients with HIV-Related Kaposi's Sarcoma 360

Baumgaertel H† → Klueppelberg U

Baumgartner G → Pecherstorfer M

Baur A, Harrer T, Peukert M, Jahn G, Kalden JR, Fleckenstein B: Alpha-Lipoic Acid is an Effective Inhibitor of Human Immuno-deficiency Virus (HIV-1) Replication 722

Baur E-M → Schaaf L

Bayati A → Wolgast M

Bayer T → Meyer-Lehnert H

Becker A → Stickl H

Becker PJ → Ubbink JB

Becker W → Horneff G

Beger HG, Schoenberg MH: Editorial 947

Beger HG → Kunz R

Beger HG → Schoenberg MH

Behr J → Erlinger R

Beimpold H → Wiedermann CJ

Beitz A → Ratzmann KP

Belzer FO → Southard JH

Bengtsson C → Rose G

Bennett JM → Ubbink JB

Berek K, Aichner F, Schmutzhard E, Kofler M, Langmayr J, Gerstenbrand F: Intracranial Germ Cell Tumor Mimicking Anorexia Nervosa 440

Berg PA → Schultze JL

Bergs C → Ullrich R

Beris Ph, Darbellay R, Hochmann A, Praderwand E, Pugin P: Interaction of Heterozygous β^0 -Thalassemia and Triplicated Alpha Globin Loci in a Swiss-Spanish Family 710

Berkessy S → Pálóczi K

Bernecker P → Resch H

Bernett P → Riel K-A

Bernhardt R, Feng Z, Deng Y, Dai G, Cremer P, Stehle G, Seidel D, Schettler G: Incidence and Mortality Rates of Myocardial Infarction in Chinese Workers Aged 40–59 in Relation to Coronary Risk Factors 201

Bernhardt R → Stehle G

Beyer J → Nink M

Bierhoff E → Ewig S

Binswanger U → Schmidli M

Binswanger U → Vlcek J

Bircks W → Kozlik R

Bissbort S → Ubbink JB

Blankenhorn P → Michalski S

Bleifeld W → Langes K

Bleifeld W† → Schuchert A

Blömer H → Hauner H

Bluhm C: Effects of Smoking on Benzo-(α)pyrene- and Glutathione-Metabolizing Enzymes in Human Lung Tissue 819

Blumhardt G, Neuhaus P: Does Antioxidant Treatment Have a Role in Liver Transplantation? 1105

Bock HA → Lüscher TF

Boehm BO, Manfras B, Rosak C, Schöffling K, Trucco M: Aspartic Acid at Position 57 of the HLA-DQ β -Chain is Protective against Future Development of Insulin-Dependent (Type 1) Diabetes Mellitus 146

Boehm BO, Scherbaum WA, Schöffling K†, Kühnl P, Althoff P, Manfras B, Trucco M: Prevalence of HLA-DQ Beta Chain Non-Asp Alleles in Typ I (Insulin-Dependent) Diabetics with Young and Older Ages of Onset 687

Boehm BO → Yassin N

Bogner JR, Gross M, Zietz C, Mandel L, Zöllner N: Chylothorax as Fatal Complication in Fulminating Kaposi's Sarcoma in a Patient with AIDS 134

Böhm BO → Schifferdecker E

Bolzius R → Holtkamp W

Bonatz K, Weiss A, Hehlmann R, Aßmus H-P, Heine M: Gram-Negative Bacterial Pneumonia with Secondary Aspergillosis in an AIDS Patients 853

Bors W → Saran M

Bosse C → Pecherstorfer M

Brabbs CE → Carpenter KLH

Brackmann HH → Ludwig M

Brand Th: Classification of Vestibular Brainstem Disorders according to Vestibulo-Ocular Reflex Planes 121

Braunsteiner H → Dzien A

Brigham KL: Oxygen Radicals – an Important Mediator of Sepsis and Septic Shock 1004

Brockmeyer NH, Mertins L, Goos M: Pharmacokinetic Interaction of Antimicrobial Agents with Levomethadon in Drug-Addicted AIDS Patients 16

Brodersen H-P → Holtkamp W

Bruck S → Pregant P

Bruhn HD → Will D

Brunner C, Kain R, Köhler W, Weissel M: Polyangiitis Overlap Syndrome with Features of Wegener's Granulomatosis and Panarteriitis Nodosa 374

Brunner R → Müller R

Brüster HT → Harms B

Büchler M → Glasbrenner B

Büchler M → Kunz R

Büchler M → Schoenberg MH

Bulkley GB → Schiller HJ

Bültmann B → Schoenberg MH

Burger K → Hauner H

Burmester GR → Horneff G

Busch U → Hauner H

Buscher H-P: Medizinische Expertensysteme und klinische Bedürfnisse 731

Butter B den → Southard JH

Cameron JS: New Horizons in Renal Vasculitis 536

Carpenter KLH, Brabbs CE, Mitchinson MJ: Oxygen Radicals and Atherosclerosis 1039

Casanova P → Mihatsch MJ

Caspary WF → Ott M

Cervos-Navarro J → Schürmann D

Chauveau D → Lesavre P

Chave JPh → Baumann R

Chen D, Studer A, Lütolf O, Schaffner T, Mahler F: Increased Collagen Around

- Deformed Finger Nailfold Capillaries in Type I Diabetes Mellitus 836
- Chen J → Gathof BS
- Clemens MR: Free Radicals in Chemical Carcinogenesis 1123
- Colardyn F → De Wilde V
- Coldewey R → Suttmann U
- Cordero M → Pino J del
- Corrales JJ, Tabernero JM, Miralles JM, Hernández MT: Effects of Subclinical Hyperthyroidism on Renal Handling of Water and Electrolytes in Patients with Nodular Goiter 19
- Crayen E → Will D
- Cremer P → Bernhardt R
- Cremer P → Stehle G
- Csernok E → Gross WL
- Dai G → Bernhardt R
- D'Amico G: Lipid Changes in the Nephrotic Syndrome: New Insights into Pathomechanisms and Treatment 618
- Darbella R → Beris Ph
- De Bleecker J → De Wilde V
- De Reuck J → De Wilde V
- De Wilde V, Vogelaers D, Colardyn F, Vanderstraeten G, Van Den Neucker K, De Bleecker J, De Reuck J, Van den Heede M: Postsynaptic Neuromuscular Dysfunction in Organophosphate Induced Intermediate Syndrome 177
- Deecke L → Asenbaum S
- Deecke L → Oder W
- Deicher H → Suttmann U
- Deng Y → Bernhardt R
- Diehl V → Hartmann F
- Dienemann D → Schurmann D
- Dietrich HA → Klaus V
- Dimpfel W, Netter P, Spüler M, Wedekind W: Wirkungen von Cyclandelat auf das ZNS – Eine doppelblinde, placebo-kontrollierte Studie an gesunden Probanden 313
- Dios Luna del Castillo J de → Maldonado Martin A
- Dissmann T → Lichey J
- Ditschuneit H → Glasbrenner B
- Ditschuneit H → Janowitz P
- Dittmann H → Voelker W
- Döhner H → Knauf WU
- Dralle H → Schuppert F
- Dreesbach K → Oehme A
- Drexel H → Dzien A
- Dröge W, Eck H-P, Gmünder H, Mihm S: Requirement for Prooxidant and Antioxidant States in T Cell Mediated Immune Responses – Relevance for the Pathogenetic Mechanism of AIDS? 1118
- Druml W, Grimm G, Laggner AN, Schneeweiß B, Lenz K: Hyperlipidemia in Acute Hemolysis 426
- Dübler H → Koehler U
- Dzien A, Lechleitner M, Hopferwieser T, Drexel H, Patsch JR, Braunsteiner H: Long-Term Effect of Intensified Insulin Treatment on Lipid Parameters in Diabetes Mellitus Type I 483
- Eck H-P → Dröge W
- Eckardt K-U → Le Hir M
- Edel HH → Hofmann W
- Eichler I, Frisch H, Granditsch G: Growth Failure and Insulin-Like Growth Factor (IGF-I) in Childhood Celiac Disease 825
- Elstner EF: Oxygen Radicals – Biochemicals Basis for their Efficacy 949
- Enekel W → Pollack H
- Engelhardt D → Schaller U
- Engelmann B: Calcium Homeostasis of Human Erythrocytes and Its Pathophysiological Implications 137
- Enzelsberger H, Heytmanek G, Kurz Ch, Metka M: Hormone Replacement Therapy and its Influence on AT-III Activity in Climacteric Women 232
- Erlinger R, Rauh G, Behr J, Schumacher U, Welsch U, Zöllner N: Similar Frequency of Autoantibodies against Pneumocytes Type II and Clara Cells in Patients with Interstitial Lung Diseases and Healthy Persons 297
- Evers WM → Meyer-Lehnert H
- Ewig S, Bierhoff E, Luster W, Steudel A, Niese D: Progredivente zytomegalie-Enzephalitis unter erfolgreicher Ganciclovir-Therapie einer Zytomegalie-Retinitis bei einem AIDS-Patienten 449
- Ewig S → Rockstroh JK
- Eyer P, Sprenger M: Orale Verabreichung einer Aktivkohle-Sorbit-Suspension als Erstmaßnahme zur Verminderung der Giftresorption? 887
- Faber J-P → Poller W
- Faillard H → Stickl H
- Falkner C → Holtkamp W
- Felbel J → Wagner DR
- Feng Z → Bernhardt R
- Feng Z → Stehle G
- Fenske S, Stellbrink H-J, Albrecht H, Greten H: Visceral Leishmaniasis in an HIV-Infected Patient: Clinical Features and Response to Treatment 793
- Fernández Soto M → Maldonado Martin A
- Fiedler W, Zeller W, Peimann C-J, Weh H-J, Hossfeld DK: A Phase II Combination Trial with Recombinant Human Tumor Necrosis Factor and Gamma Interferon in Patients with Colorectal Cancer 261
- Fischer HJ, Schuster H, Keller C, Wolfram G, Zöllner N: Identification of a 76-Year-Old Patient with Compound Heterozygous Familial Hypercholesterolemia by Haplotype Analysis of the LDL Receptor Gene 842
- Fischer J → Rauh G
- Fischer M → Pollack H
- Flaherty JT, Zweier JL: Role of Oxygen Radicals in Myocardial Reperfusion Injury: Experimental and Clinical Evidence 1061
- Fleckenstein B → Baur A
- Folberth CG → Rettig R
- Fortelny A → Pecherstorfer M
- Franzen D, Mertens Th, Waidner Th, Kruppenbächer J, Höpp HW, Hilger HH: Perimyokarditis bei Influenza A Virus-Infektion 404
- Fricker A: Heinrich-Wieland-Preis 1964 1990 Ein Rückblick 95
- Friedl HP, Till GO, Trentz O, Ward PA: Role of Oxygen Radicals in Tourniquet-Related Ischemia-Reperfusion Injury of Human Patients 1109
- Friedrich M → Pongratz G
- Frisch H → Eichler I
- Fritz H → Riel K-A
- Fuchs D → Pálóczi K
- Funke E → Schieffer B
- Fust G → Pálóczi K
- Fux B → Hirschl M
- Galle PR → Raedsch R
- García-Talavera JR → Pino J del
- Gasper M → Schoenberg MH
- Gathof BS, Sahota A, Gresser U, Chen J, Stambrook PJ, Tischfield JA, Zöllner N: Identification of a Splice Mutation at the Adenine Phosphoribosyltransferase Locus in a German Family 1152
- Geffriaud C → Lesavre P
- Geibel A → Konstantinides S
- Geissler W → Schaaf L
- Gerber E → Pecherstorfer M
- Gerstenbrand F → Berek K
- Gheorghiu T → Hartmann F
- Gil Extremera B → Maldonado Martin A
- Gladziwa U → Ittel TH
- Glänzer K → Meyer-Lehnert H
- Glaremin T → Koehler U
- Glasbrenner B, Malfertheiner P, Buchler M, Kuhn K, Ditschuneit H: Vitamin B12 and Folic Acid Deficiency in Chronic Pancreatitis: A Relevant Disorder? 168
- Gluck M → Yassin N
- Gmünder H → Dröge W
- Goebel F-D → Hollweg M
- González Jiménez A → Maldonado Martin A
- Goos M → Brockmeyer NH
- Gössinger H → Oder W
- Goto Y → Stehle G
- Grabensee B → Heering P
- Graeff H → Stickl H
- Graf C → Rettig R
- Granditsch G → Eichler I
- Granger DN → Arndt H
- Grauer A → Scharla SH
- Greminger P, Hess OM, Müller AE, Se-gesser L von, Schneider J, Sütsch G, Siegenthaler W, Heitz PhU: Bronchial Neuroendocrine (Carcinoid) Tumor Causing Unilateral Left-Sided Carcinoid Heart Disease 128
- Gremmel H → Will D
- Gresser U → Gathof BS
- Gresser U → Wagner DR
- Greten H → Fenske S
- Greten H → Stellbrink H-J
- Gries FA → Hübinger A
- Grimm G → Druml W
- Grisham MB → Yamada T
- Gross M, Zöllner N: Serum Levels of Glucose, Insulin, and C-Peptide during Long-Term D-Ribose Administration in Man 31
- Gross M, Kormann B, Zöllner N: Ribose Administration during Exercise: Effects on Substrates and Products of Energy

- Metabolism in Healthy Subjects and a Patient with Myoadenylate Deaminase Deficiency 151
- Gross M → Bogner JR
- Gross R: Gesund oder krank? Vorschläge einer einfachen, praxisnahen Klassifikation 1
- Groß V, Andus T, Leser H-G, Roth M, Scholmerich J: Inflammatory Mediators in Chronic Inflammatory Bowel Diseases 981
- Gross WL, Csernok E, Schmitt WH: Anti-neutrophil Cytoplasmic Autoantibodies: Immunobiological Aspects 558
- Grünwald T → Köppen S
- Grünfeld JP → Lesavre P
- Güchel F → Knauf WU
- Guder WG → Hofmann W
- Gujjarro Morales A → Maldonado Martin A
- Häberle DA, Königbauer B, Kawabata M, Ushioji Y: Renal Blood Flow Control by Tubuloglomerular Feedback (TGF) in Normal and Spontaneously Hypertensive Rats – a Role of Dopamine and Adenosine 587
- Habib R → Mihatsch MJ
- Hachmann A → Rockstroh JK
- Hallaway PE → Hedlund BE
- Hamann D, Olbricht Th, Hauffa BP, Reinwein D: Familiärer Panhypopituitarismus 725
- Hamilton M → Schieffer B
- Hamm CW → Schuchert A
- Harms B, Kogler G, Wernet P, Bruster HT, Schneider EM: Modulation of Hematopoietic Colony Formation of Stem Cells in Peripheral Blood by Anti-TGF- β in Patients with Severe Immunosuppression 1139
- Harrer T → Baur A
- Hartmann A → Riedel R-R
- Hartmann F, Gheorghiu T, Leupold H, Baer F, Diehl V: Serratia Infections in Patients with Neutropenia 491
- Hauffa BP → Hamann D
- Hauner H, Stangl K, Burger K, Busch U, Blömer H, Pfeiffer EF: Sex Hormone Concentrations in Men with Angiographically Assessed Coronary Artery Disease – Relationship to Obesity and Body Fat Distribution 664
- Hedlund BE, Hallaway PE: Role of Iron and Oxygen Radicals in Hemorrhage and Shock 1113
- Heene DL → Stehle G
- Heering P, Kutkuhn B, Kreuzpaintner G, Reinhard T, Sundmacher R, Grabensee B: Untersuchungen zur Nierenfunktion nierengesunder Patienten unter Ciclosporin 880
- Hehlmann R → Bonatz K
- Heidemann HT → Meißner A
- Heikkinen J → Nikkilä M
- Hein A → Thinnies FP
- Heine M → Bonatz K
- Heinz S → Mehlretter G
- Heinze E → Yassin N
- Heitz PhU → Greminger P
- Hellberg O → Wolgast M
- Helm EB → Ott M
- Helmchen U → Mihatsch MJ
- Hempel B → Hummel M
- Hernández MT → Corrales JJ
- Herold M → Wiedermann CJ
- Hess OM → Greminger P
- Hetzl M → Wieshammer S
- Hetzer R → Hummel M
- Heyden S → Schieffer B
- Heytmanek G → Enzelsberger H
- Hild R → Huber KH
- Hildebrandt R → Ratzmann KP
- Hilger HH → Franzen D
- Hilschmann N → Thinnies FP
- Hinohara S → Stehle G
- Hirawa N → Kihara M
- Hirschel B → Baumann R
- Hirschl M, Hirschl MM, Magometschnigg D, Liebisch B, Wagner O, Fux B, Kundi M: Arterial Baroreflex Sensitivity and Blood Pressure Variabilities before and after Carotid Surgery 763
- Hirschl MM → Hirschl M
- Ho AD → Knauf WU
- Hochmann A → Beris Ph
- Hoff HF, O'Neil JA: Oxidation of LDL: Role in Atherogenesis 1032
- Hoffmann M → Lichey J
- Hofmann W, Schmidt D, Guder WG, Edel HH: Differentiation of Hematuria by Quantitative Determination of Urinary Marker Proteins 68
- Hogan S → Schieffer B
- Hoher M → Wieshammer S
- Hollán SR → Pálóczi K
- Hollweg M, Riedel R-R, Goebel F-D, Schick U, Naber D: Remarkable Improvement of Neuropsychiatric Symptoms in HIV-Infected Patients after AZT Therapy 409
- Holtkamp W, Brodersen H-P, Thiery J, Falkner C, Bolzius R, Larbig D, Reis HE: Einfluß einer Zinksubstitution auf Lymphozytensubsets und zelluläre Immunfunktionen bei Hämodialysepatienten 392
- Holzberger G → Schifferdecker E
- Hölzel D → Schaller U
- Holzhauser R → Stickl H
- Hombach V → Wieshammer S
- Hoogestraat L → Süttmann U
- Hopferwieser T → Dzien A
- Höpp HW → Franzen D
- Horneff G, Becker W, Wolf F, Kalden JR, Burmester GR: Human Anti-Murine-Immunoglobulin-Antibodies (HAMAs) and Elevated TSH Levels 220
- Horster FA → Kornely E
- Hossfeld DK → Fiedler W
- Huber KH, Rexroth W, Werle E, Koeth T, Weicker H, Hild R: Sympathetic Neuronal Activity in Diabetic and Non-Diabetic Subjects with Peripheral Arterial Occlusive Disease 233
- Huber R → Klauss V
- Huber W → Stickl H
- Hübinger A, Wiefels K, Ziegler D, Gries FA: Glucose Counterregulation in Type 1 Diabetic Patients with Decreased Symptoms of Hypoglycemia After Insulin Pump Treatment 802
- Humair L → Jolidon R-M
- Hummel M, Warnecke H, Schuler S, Ludwig K, Hetzer R: Risiko der Nebennierenrindensuffizienz nach Herztransplantation 269
- Hummel M, Warnecke H, Schuler St, Hempel B, Spiegelsberger S, Hetzer R: Therapie der terminalen Herzinsuffizienz durch Herztransplantation 495
- Ishii M → Kihara M
- Ittel TH, Schäfer C, Schmitt H, Gladziwa U, Sieberth HG: Calcium Carbonate as a Phosphate Binder in Dialysis Patients: Evaluation of an Enteric-Coated Preparation and Effect of Additional Aluminium Hydroxide on Hyperaluminemia 59
- Jacobs M → Schmidli M
- Jahn G → Baur A
- Janisch S → Pecherstorfer M
- Janitschke K → Ullrich R
- Janowitz A → Janowitz P
- Janowitz P, Swobodnik W, Wechsler JG, Janowitz A, Saal D, Ditschuneit H: Fish Oil, Enriched with Polyunsaturated Fatty Acids of the Omega-3-Type Accelerates the Nucleation Time in Healthy Subjects 289
- Jautzke G → Köppen S
- Jautzke G → Schürmann D
- Jelkmann W → Wolff M
- Jensen R → Kirschstein M
- Jochum M → Riel K-A
- Jolidon R-M, Knecht H, Humair L, Torrente A de: Different Clinical Presentations of a Lupus Anticoagulant in the Same Family 340
- Jost K → Kunz R
- Jost WH, Schimrigk K: Constipation in Parkinson's Disease 906
- Junkermann H → Koehler U
- Jürgens L → Thinnies FP
- Just H → Konstantinides S
- Kabelitz D, Silva Lobo ML da, Pechhold K: Perspectives in Transplantation Immunology 623
- Kain R → Brunner C
- Kaiser E → Pregant P
- Kaissling B → Le Hir M
- Kalden JR → Baur A
- Kalden JR → Horneff G
- Kalmar P → Schuchert A
- Kapp J-F, Zentgraf R, Widmer A, Schöpf E: A Need to Intensify Drug Surveillance in Germany 775
- Karsch KR → Voelker W
- Kasper W → Konstantinides S
- Kasten MJ → Allerberger F
- Kaufmann W → Müller R
- Kawabata M → Häberle DA
- Keller Ch → Rauh G
- Keller C → Fischer HJ
- Keller C → Schuster H
- Kemmler G → Nedorn E
- Kenda M → Turk J
- Keusch G → Vlcek J
- Khalaf A-N → Lehmann M

- Kihara M, Umemura S, Takagi N, Hirawa N, Minamisawa K, Matsukawa T, Miyajima E, Shionoiri H, Ishii M: Neurilemma of the Retroperitoneum 228
- Kinloch S → Baumann R
- Kirch W → Will D
- Kirchmayr R → Schoenberg MH
- Kirsch C → Schaller U
- Kirschstein M, Jensen R, Schröder R, Sack K: Proteinuria after Renal Transplantation: Diagnosis with Highly Sensitive Silver Stain in Sodium Dodecylsulphate-Polyacrylamide Gradient Gel Electrophoresis 847
- Klaushofer K → Pecherstorfer M
- Klauss V, Zwehl W, Mudra H, Huber R, Schmidt R, Scheininger M, Vogler A, Tschaidse O, Dietrich HA, Theisen K: Short-Term Effects of Oral Enoximone on Hemodynamics, Exercise Capacity, Anaerobic Threshold, and Arrhythmias in Congestive Heart Failure 430
- Kleesiek K → Prohaska W
- Clueppelberg U, Baumgaertel H, Schusdzarra V, Swobodnik W: Dissolution of Bile Duct Stones by a Hydrophilized Glyceraminooctanoic-Bile-Acid-EDTA Emulsion 76
- Knapp E → Wiedermann CJ
- Knauf H, Mutschler E: Pharmacodynamic and Kinetic Considerations on Diuretics as a Basis for Differential Therapy 239
- Knauf WU, Guckel F, Döhner H, Semmler W, Trumper L, Ho AD: Detection of Bone Marrow Infiltration by Non-Hodgkin's Lymphoma – Comparison of Histological Findings, Analysis of Gene Rearrangements, and Examination by Magnetic Resonance Imaging 345
- Knecht H → Jolidon R-M
- Kochs M → Wieshammer S
- Kochsiek K → Stürmer W
- Koehler U, Dübler H, Glaremin T, Junkermann H, Lübbers C, Ploch T, Peter JH, Pomykaj T, Wichert P von: Nocturnal Myocardial Ischemia and Cardiac Arrhythmia in Patients with Sleep Apnea with and without Coronary Heart Disease 474
- Koeth T → Huber KH
- Kofler M → Berek K
- Kögler G → Harms B
- Köhler W → Brunner C
- Koivula T → Nikkilä M
- Kollegger H → Oder W
- Köllskog Ö → Wolgast M
- Kommerell B → Raedsch R
- König U → Thinnies FP
- Königbauer B → Häberle DA
- Konstantinides S, Geibel A, Kasper W, Just H: The Natural Course of Atrial Septal Defect in Adults – A Still Unsettled Issue 506
- Kopf D → Rettig R
- Köppen S, Grünwald T, Jautzke G, Ruf B: Upper Lobe Relapse of Pneumocystis Carinii Pneumonia during Aerosolized Pentamidine Prophylaxis 446
- Kormann B → Gross M
- Kornely E, Schlaghecke R, Horster FA: Palliative Therapy of an Ectopic Cushing's Syndrome Due to a Metastatic Carcinoid Tumor 173
- Koury ST → Le Hir M
- Kozlik R, Kramer HH, Wicht H, Bircks W, Reinhardt D: β -Adrenoceptor Density on Mononuclear Leukocytes and Right Atrial Myocardium in Infants and Children with Congenital Heart Disease 910
- Kramer HH → Kozlik R
- Kramer HJ → Meyer-Lehnert H
- Kranjec I → Turk J
- Krause U → Nink M
- Kreuzpaintner G → Heering P
- Krexner E → Resch H
- Kriz W, Ritz E: Vorwort 535
- Kromer EP → Stürmer W
- Kromer K → Resch H
- Krück F → Meyer-Lehnert H
- Kruppenbacher J → Franzen D
- Kubes P → Arndt H
- Kühlkamp V → Voelker W
- Kühn KW → Schorn T
- Kuhn K → Glasbrenner B
- Kühnl P → Boehm BO
- Kühnl P → Schifferdecker E
- Kundi M → Hirschl M
- Kunkel B → Pongratz G
- Kunz R, Schoenberg MH, Buchler M, Jost K, Beger HG: Oxygen Radicals in Liver Ischemia and Reperfusion – Experimental Data 1095
- Kurtz A → Le Hir M
- Kurz Ch → Enzensberger H
- Kutkuhn B → Heering P
- Laggner AN → Druml W
- Lanchares JL → Pino J del
- Lang W → Oder W
- Langes K, Bleifeld W: Verdachtsdiagnose akuter Myokardinfarkt bei akuter regionaler Myokarditis 37
- Langford A → Schürmann D
- Langmayr J → Berek K
- Larbig D → Holtkamp W
- Larsen S → Mihatsch MJ
- Lautz H-U → Wagner S
- Le Hir M, Eckardt K-U, Kaissling B, Koury ST, Kurtz A: Structure-Function Correlations in Erythropoietin Formation and Oxygen Sensing in the Kidney 567
- Leblhuber F → Rittmannsberger H
- Lechleitner M → Dzien A
- Lechler E → Prohaska W
- Legenstein E → Pregant P
- Lehnert H → Nink M
- Lehr H-A → Menger MD
- Lembcke B → Ott M
- Lenz K → Druml W
- Lenzhofer R → Pecherstorfer M
- Lepsien G → Michalski S
- Lesavre P, Noël LH, Chauveau D, Gelfriaud C, Grünfeld JP: Antigen Specificities and Clinical Distribution of ANCA in Kidney Diseases 552
- Leser H-G → Groß V
- Letko G → Niederau C
- Leupold H → Hartmann F
- Lichey J, Reschofski I, Drssmann T, Priesnitz M, Hoffmann M, Lode H: Fibrin Degradation Product D-Dimer in the Diagnosis of Pulmonary Embolism 522
- Liebisch B → Hirschl M
- Lienhart L → Pregant P
- Lindell S → Southard JH
- Lode H → Lichey J
- Löning T → Stellbrink H-J
- López-Sosa C → Pino J del
- Lübbers C → Koehler U
- Luding K → Hummel M
- Ludtke FE → Michalski S
- Ludwig M, Brackmann HH, Olek K: Prenatal Diagnosis of Haemophilia B by the Use of Polymerase Chain Reaction and Direct Sequencing 196
- Lüscher TF, Bock HA: The Endothelial L-Arginine/Nitric Oxide Pathway and the Renal Circulation 603
- Luster W → Ewig S
- Luster W → Rockstroh JK
- Lüthy R → Baumann R
- Lutolf O → Chen D
- Maes R: Clinical Usefulness of Serological Measurements Obtained by Antigen 60 Mycobacterial Infections: Development of a New Concept 696
- Magil A → Mihatsch MJ
- Magometschnigg D → Hirschl M
- Mahler F → Chen D
- Maldonado Martin A, Gil Extremera B, Fernández Soto M, Ruiz Martínez M, González Jiménez A, Guijarro Morales A, Dios Luna del Castillo J de: Zinc Levels after Intravenous Administration of Zinc Sulphate in Insulin-Dependent Diabetes Mellitus Patients 640
- Malfrather P → Glasbrenner B
- Mandel L → Bogner JR
- Manfras B → Boehm BO
- Manfras B → Schifferdecker E
- Manschwetius H → Schorn T
- Marklein G → Rockstroh JK
- Markovic-Lipovski J → Müller GA
- Marosi C → Pecherstorfer M
- Marsh DC → Southard JH
- Martin-Gómez E → Pino J del
- Martin-Rodríguez M → Pino J del
- Matsukawa T → Kihara M
- Mausner M → Voelker W
- Mehlretter G, Heinz S, Schopohl J, Werder K von, Müller OA: Long-Term Treatment with SMS 201-995 in Resistant Acromegaly: Effectiveness of High Doses and Continuous Subcutaneous Infusion 83
- Meißner A, Petersenn S, Heidemann HT, Osterkamp U, Simon R, Schulte HM: Pharmacokinetics of Oral Isosorbide-5-Mononitrate in Patients with Ischemic Heart Failure 213
- Menger MD, Lehr H-A, Messmer K: Role of Oxygen Radicals in the Microcirculatory Manifestations of Postischemic Injury 1050
- Mertens Th → Franzen D
- Mertins L → Brockmeyer NH

- Messmer K → Menger MD
 Metka M → Enzelsberger H
 Meyer zum Buschenfelde K-H → Rieder H
 Meyer-Lehnert H, Bayer T, Predel H-G, Glanzer K, Kramer HJ: Effects of Atrial Natriuretic Peptide on Systemic and Renal Hemodynamics and Renal Excretory Function in Patients with Chronic Renal Failure 895
 Meyer-Lehnert H, Evers WM, Kruck F: Potassium Substitution via the Oral Route: Does its Efficacy Depend on the Anion of the Potassium Salt 797
 Michalski S, Blankenhorn P, Lepsien G, Lüdtkke FE: Letale Sepsis nach Splenektomie trotz Reimplantation von Milzgewebe 375
 Mihalik R → Pálóczi K
 Mihatsch MJ, Helmchen U, Casanova P, Habib R, Larsen S, Magil A, Noel LH, Rapola J, Ulrich J, Wallace AC: Kidney Biopsy Findings in Cyclosporine-Treated Patients with Insulin-Dependent Diabetes Mellitus 354
 Mihm S → Dröge W
 Minamisawa K → Kihara M
 Miralles JM → Corrales JJ
 Mitchinson MJ → Carpenter KLH
 Miyajima E → Kihara M
 Moes N → Wiedermann CJ
 Molitor E → Rockstroh JK
 Moller H-J: Medikamentöse Strategien bei unter Antidepressiva therapierefrak-tären Depressionen 413
 Moore D → Schieffer B
 Mudra H → Klauss V
 Mühlberger V → Wiedermann CJ
 Mühlen A von zur → Schuppert F
 Müller AE → Greminger P
 Müller GA, Markovic-Lipovski J, Rode-mann HP: The Progression of Renal Diseases: On the Pathogenesis of Renal Interstitial Fibrosis 576
 Müller K-M → Poller W
 Müller MJ → Süttmann U
 Müller MJ → Wagner S
 Müller OA → Mehltrittter G
 Müller R, Steffen HM, Brunner R, Pollok M, Baldamus CA, Kaufmann W: Ge-störte α_2 -Adrenozeptorfunktion bei Hämodialysepatienten mit renaler An-ämie – eine mögliche Ursache der Blut-drucksteigerung unter rekombinantem humanem Erythropoietin? 742
 Mulligan MS → Ward PA
 Musholt PB → Oehme A
 Mutschler E → Knauf H
 Naber D → Hollweg M
 Nagai K → Yagihashi S
 Nagy I → Tulassay T
 Nawroth PP, Ziegler R: Die Antibaby-Pille als Risikofaktor einer Thrombose: Sind molekulare Mechanismen bekannt? 335
 Nedorn E, Wosegien F, Kemmler G: Anti-thrombin III and Early Prognosis in Po-lytraumatized Patients: A Pilot Study 817
 Netter P → Dimpfel W
 Neuhaus P → Blumhardt G
 Niederau C, Schultz H-U, Letko G: In-volvement of Free Radicals in the Pathophysiology of Chronic Pancreati-tis: Potential of Treatment With Antioxi-dant and Scavenger Substances 1018
 Niederle B → Pietschmann P
 Niedermayer W → Will D
 Nielsen OH, Ahnfelt-Rønne I: Involvement of Oxygen-Derived Free Radicals in the Pathogenesis of Chronic Inflam-matory Bowel Disease 995
 Niese D → Ewig S
 Nikkilä M, Pitkääjärvi T, Koivula T, Heikkin-en J: Elevated High-Density-Lipopro-tein Cholesterol and Normal Triglycer-ides as Markers of Longevity 780
 Nink M, Krause U, Lehnert H, Beyer J: Safety and Side Effects of Human and Ovine Corticotropin-Releasing Hor-mone Administration in Man 185
 Noel LH → Mihatsch MJ
 Noël LH → Lesavre P
 Nygren K → Wolgast M
 Ockenga J → Süttmann U
 Oder W, Siostrzonek P, Lang W, Gö-s-singer H, Kollegger H, Zangeneh M, Zeiler K, Deecke L: Distribution of Ischemic Cerebrovascular Events in Cardiac Embolism 757
 Oehme A, Musholt PB, Dreesbach K: Chlamydiae as Pathogens – An Over-view of Diagnostic Techniques, Clinical Features, and Therapy of Human Infec-tions 463
 Ojteg G → Wolgast M
 Okudaira M → Yagihashi S
 Olbricht CJ: Pathophysiologie und Thera-pie von Lipidstoffwechselstörungen bei Nierenerkrankungen 455
 Olbricht Th → Hamann D
 Olek K → Ludwig M
 Olek K → Poller W
 O'Neil JA → Hoff HF
 Opravil M → Baumann R
 Osterkamp U → Meißner A
 Ott M, Lembcke B, Staszewski S, Helm EB, Caspary WF: Intestinale Permeabi-lität bei Patienten mit erworbenem Im-mundefekt-Syndrom (AIDS) 715
 Overbeck J → Schuppert F
 Pálóczi K, Ujhelyi E, Fuchs D, Mihalik R, Bánhegyi D, Berkessy S, Salavec V, Wachter H, Hollán SR, Füst G: Correla-tion of the Percentage of Activated, CD3+DR+Lymphocytes to Serum Neopterin Level in HIV-Seropositive H aemophiliacs 143
 Patsch JR → Dzien A
 Pecherstorfer M, Janisch S, Marosi C, Wogritsch C, Bosse C, Schratzberger W, Gerber E, Fortelny A, Lenzhofer R, Rainer H, Klaushofer K, Baumgartner G, Schernthaner G: Pamidronat in der Be-handlung der tumorassoziierten Hyper-calcämie 690
 Pechhold K → Kabelitz D
 Peimann C-J → Fiedler W
 Peter JH → Koehler U
 Petersen K-G → Lehmann M
 Petersenn S → Meißner A
 Peukert M → Baur A
 Pfeiffer EF → Hauner H
 Pfeiffer EF → Yassin N
 Pietschmann P, Niederle B, Anvari A, Wo-loszczuk W: Serum Osteocalcin Levels in Primary Hyperparathyroidism 351
 Pietschmann P → Resch H
 Pino J del, Martín-Gómez E, Martín-Rodríguez M, López-Sosa C, Cordero M, Lanchares JL, Garcia-Talavera JR: Influence of Sex, Age, and Menopause in Serum Osteocalcin (BGP) Levels 1135
 Pitkääjärvi T → Nikkilä M
 Pletscher M → Baumann R
 Ploch T → Koehler U
 Pohle HD → Schürmann D
 Pollack H, Arnoldner O, Enenkel W, Fischer M, Trubert-Exinger D: Apolipo-protein A and Prognosis after Myocar-dial Infarction in Non Diabetic Men 10
 Poller W, Faber J-P, Scholz S, Olek K, Müller K-M: Sequence Analysis of the Cystic Fibrosis Gene in Patients with Disseminated Bronchiectatic Lung Dis-ease 657
 Pollok M → Müller R
 Pomykaj T → Koehler U
 Pongratz G, Friedrich M, Unverdorben M, Kunkel B, Bachmann K: Hypertrophic Obstructive Cardiomyopathy as a Mani-festation of a Cardiocutaneous Syn-drome (Noonan Syndrome) 932
 Powers RE → Steer ML
 Pradervand E → Beris Ph
 Predel H-G → Meyer-Lehnert H
 Pregant P, Schernthaner G, Legenstein E, Lienhart L, Bruck S, Schnack Ch, Kaiser E: Vermindertes Plasmacarnitin bei Typ-I Diabetes mellitus 511
 Priesnitz M → Lichey J
 Prohaska W, Wolff C, Lechler E, Kleesiek K: High Rate of False Positives in Blood Donor Screening for Antibodies to Hep-atitis C Virus 294
 Pugin P → Beris Ph
 Raedsch R, Walter-Sack I, Galle PR, Kom-merell B: Prophylaxis of Traveler's Diar-rhea in Egypt: Results of a Double Blind Controlled Study 863
 Rainer H → Pecherstorfer M
 Ramadori G → Rieder H
 Rapola J → Mihatsch MJ
 Rascher W → Tulassay T
 Ratzmann KP, Schimke E, Beitz A, Hilde-brandt R, Taube C: Thromboxane Pro-duction and Platelet Aggregation in Type 2 Diabetes Mellitus without Vas-cular Complications 652
 Rauh G, Schuster H, Fischer J, Keller Ch, Wolfram G, Zöllner N: Identification of a Heterozygous Compound individual with Familial Hypercholesterolemia and Familial Defective Apolipoprotein B-100 320
 Rauh G → Erlinger R
 Regele B → Voelker W
 Reinhard T → Heering P
 Reinhardt D → Kozlik R

- Reinthalter A → Tatra G
 Reinwein D → Hamann D
 Reis HE → Holtkamp W
 Resch R, Pietschmann P, Kromer K, Krexner E, Bernecker P, Willvonseder R: Peripheral and Axial Bone Mass in Austrian Free Climbers 220
 Reschowski I → Lichey J
 Rettig R, Folberth CG, Graf C, Kopf D, Strauß H, Unger T: Are Renal Mechanisms Involved in Primary Hypertension? Evidence from Kidney Transplantation Studies in Rats 597
 Rexroth W → Huber KH
 Richter S → Schuster H
 Riecken EO → Ullrich R
 Riedel R-R, Schmitt A, Hartmann A: Ocular Pseudo-Myasthenic Reaction Induced by Interferon in an AIDS Patient 930
 Riedel R-R → Hollweg M
 Rieder H, Ramadori G, Meyer zum Büschchenfelde K-H: Sinusoidal Endothelial Liver Cells in Vitro Release Endothelin – Augmentation by Transforming Growth Factor β and Kupffer Cell-Conditioned Media 387
 Riegger AJG → Stürmer W
 Riel K-A, Jochum M, Bernett P, Fritz H: Differential Patterns of PMN-Elastase and Type III Procollagen Peptide in Knee Joint Effusions due to Acute and Chronic Sports Injuries 830
 Rittmannsberger H, Leblhuber F, Sommer R: Asterixis as a Side Effect of Carbamazepine Therapie 279
 Ritz E → Kriz W
 Rockstroh JK, Hachmann A, Molitor E, Tschulbel K, Marklein G, Luster W, Ewig S: Ein Fall von AIDS-assoziiierter Histoplasmose in Deutschland 325
 Rodemann HP → Müller GA
 Roos D: The Involvement of Oxygen Radicals in Microbicidal Mechanisms of Leukocytes and Macrophages 975
 Rosak C → Boehm BO
 Rose G, Bengtsson C: Follow-Up Study of Participants in an Extensive Health Examination Programme at a Swedish Industry 1146
 Rosen A → Sterniste W
 Roth M → Groß V
 Rothman JE: Enzymology of Intracellular Membrane Fusion 98
 Ruf B → Köppen S
 Ruf B → Schürmann D
 Ruffmann R, Wendel A: GSH Rescue by N-Acetylcysteine 857
 Ruiz Martínez M → Maldonado Martin A
 Rutledge PL → Steer ML
 Saal D → Janowitz P
 Sack K → Kirschstein M
 Sahota A → Gathof BS
 Salavec V → Pálóczi K
 Saluja AK → Steer ML
 Saluja M → Steer ML
 Saran M, Bors W: Direct and Indirect Measurements of Oxygen Radicals 957
 Schaaf L, Zierhut M, Baur E-M, Geissler W, Thiel HJ, Seif FJ, Usadel KH: Bromocriptine in Patients with Chronic Autoimmune-Associated Disorders 943
 Schafer C → Ittel TH
 Schaffner T → Chen D
 Schaller U, Hölzel D, Kirsch C, Engelhardt D: Spontanverlauf von kompensierten autonomen Schilddrüsenadenomen 786
 Scharla SH, Grauer A, Ziegler R: Therapie des Morbus Paget mit dem Bisphosphonat Pamidronat (AHPrBP, fruher APD) 25
 Schedel I → Süttmann U
 Scheininger M → Klauss V
 Scherbaum WA → Boehm BO
 Scherbaum WA → Yassin N
 Scherthner G → Pecherstorfer M
 Scherthner G → Pregant P
 Schettler G → Bernhardt R
 Scheumann GFW → Schuppert F
 Schewe CK → Zöllner N
 Schick U → Hollweg M
 Schieffer B, Moore D, Funke E, Hogan S, Alphin F, Hamilton M, Heyden S: Reduction of Atherogenic Risk Factors by Short-Term Weight Reduction 163
 Schifferdecker E, Kühnl P, Schöffling K, Manfras B, Holzberger G, Spielmann W, Böhm BO: Immunogenetic Markers in Patients with Graves' Disease 256
 Schiffli H: Modulation of Platelet Ca^{2+} Homeostasis by Hypertensive Plasma Factor(s) Derived from Patients with Early-Stage Renal Disease 917
 Schiffli H → Strasser T
 Schiller HJ, Andreoni KA, Bulkley GB: Free Radical Ablation for the Prevention of Post-Ischemic Renal Failure Following Renal Transplantation 1083
 Schimke E → Ratzmann KP
 Schimrigk K → Jost WH
 Schlaghecke R → Kornely E
 Schlatter E: Regulation der Leitfähigkeiten im kortikalen Sammelrohr 610
 Schmähl D†: Die Janusköpfigkeit der Chemotherapie: Eine Stellungnahme zu den Thesen von Abel 49
 Schmid A → Thinnies FP
 Schmid M → Voelker W
 Schmidli M, Jacobs M, Binswanger U: Dialysequantität und Diät-Eiweiß während kontinuierlicher ambulanter Peritonealdialyse 1156
 Schmidt D → Hofmann W
 Schmidt FW → Wagner S
 Schmidt R → Klauss V
 Schmitt A → Riedel R-R
 Schmitt H → Ittel TH
 Schmitt WH → Gross WL
 Schmitt Y → Schneider H
 Schmoll HJ → Schuppert F
 Schmutzhard E → Berek K
 Schnack Ch → Pregant P
 Schneeweiß B → Druml W
 Schneider EM → Harms B
 Schneider H, Schmitt Y: Niedermolekulares Heparin: Wie beeinflusst es den Fettstoffwechsel bei chronischen Hämodialysepatienten 749
 Schneider J → Greminger P
 Schneider W → Sohngen D
 Schneider W → Sohngen S
 Schober C → Schuppert F
 Schoenberg MH, Buehler M, Baczako K, Bultmann B, Younes M, Gasper M, Kirchmayr R, Beger HG: The Involvement of Oxygen Radicals in Acute Pancreatitis 1025
 Schoenberg MH → Beger HG
 Schoenberg MH → Kunz R
 Schöffling K† → Boehm BO
 Schöffling K† → Schifferdecker E
 Schölmerich J → Groß V
 Scholz S → Pöller W
 Schöpf E → Kapp J-F
 Schopohl J → Mehlretter G
 Schorn T, Manschwetus H, Kühn KW: Excessive Hyponatremia in a Patient with Renal Amyloid Disease 436
 Schratzberger W → Pecherstorfer M
 Schröder R → Kirschstein M
 Schuchert A, Hamm CW, Kalmar P, Bleifeld W†: Delayed Coronary Occlusion Following Primary Successful Angioplasty: Management and Outcome 867
 Schuler St → Hummel M
 Schuler S → Hummel M
 Schulte HM → Meißner A
 Schultz H-U → Niederau C
 Schultze JL, Stettin A, Berg PA: Demonstration of Specifically Sensitized Lymphocytes in Patients Treated with an Aqueous Mistletoe Extract (*Viscum Album* L.) 397
 Schumacher U → Erlinger R
 Schuppert F, Scheumann GFW, Schober C, Overbeck J, Schürmeyer TH, Schmoll HJ, Dralle H, Mühlens A von zur: Therapie eines malignen sympathischen Paraganglioms des Zuckerkandl'schen Organs – ein Fallbericht 937
 Schürmann D, Dienemann D, Jautzke G, Cervos-Navarro J, Langford A, Stein H, Pohle HD, Ruf B: Malignant Lymphomas in HIV-Seropositive Patients. Frequency, Features, and Prognosis 679
 Schürmeyer TH → Schuppert F
 Schusdziarra V → Klueppelberg U
 Schuster H, Richter S, Stratmann G, Keller C, Wolfram G, Zöllner N: Identification of a Silent Point Mutation in the LDL-Receptor Gene by Direct DNA Sequencing 517
 Schuster H → Fischer HJ
 Schuster H → Rauh G
 Schweigerer L: Anti-Angiogenesis as a New Concept for the Therapy of Neovascular Diseases 417
 Segesser L von → Greminger P
 Seibold H → Wieshammer S
 Seidel D → Bernhardt R
 Seidel D → Stehle G
 Seif FJ → Schaaf L
 Seißler J → Yassin N
 Semmler W → Knauf WU
 Seyberth HW → Tulassay T
 Shionoiri H → Kihara M
 Sieberth HG → Ittel TH
 Siegenthaler W → Greminger P

- Sies H: Role of Reactive Oxygen Species in Biological Processes 965
- Silva Lobo ML da → Kabelitz D
- Simon R → Meißner A
- Siostrzonek P → Oder W
- Slenczka E → Wuster C
- Sohnngen D, Schneider W: Alloimmunisierung und Transfusionsrefraktärität bei Thrombozytensubstitution 419
- Sohnngen S, Schneider W: Thrombozytentransfusion: Klinik, Kontrollen und Komplikationen 379
- Sommer R → Rittmannsberger H
- Southard JH, Butter B den, Marsh DC, Lindell S, Belzer FO: The Role of Oxygen Free Radicals in Organ Preservation 1073
- Spengel F → Zöllner N
- Spiegelsberger S → Hummel M
- Spielmann W → Schifferdecker E
- Spiss Ch → Asenbaum S
- Sprenger M → Eyer P
- Spüler M → Dimpfel W
- Staden DA van → Ubbink JB
- Stambook PJ → Gathof BS
- Stangl K → Hauner H
- Staszewski S → Ott M
- Steer ML, Rutledge PL, Powers RE, Saluja M, Saluja AK: The Role of Oxygen-Derived Free Radicals in Two Models of Experimental Acute Pancreatitis: Effect of Catalase, Superoxide Dismutase, Dimethylsulfoxide, and Allopurinol 1012
- Steffen HM → Müller R
- Stehle G, Hinohara S, Cremer P, Feng Z, Bernhardt R, Goto Y, Seidel D, Heene DL: Differences in the Risk Factor Patterns for Coronary Heart Disease in China, Japan, and Germany 629
- Stehle G → Bernhardt R
- Stein H → Schürmann D
- Stellbrink H-J, Albrecht H, Löning T, Gerten H: Herpes Simplex Virus Type-2 Ulcers Resistant to Acyclovir in an AIDS Patients – Successful Treatment with Foscarnet 274
- Stellbrink H-J → Fenske S
- Sterniste W, Rosen A: Hydrops fetalis bedingt durch eine maternale Parvovirus B19-Infektion 46
- Stettin A → Schultze JL
- Studel A → Ewig S
- Stickl H, Huber W, Faillard H, Becker A, Holzhauser R, Graeff H: Veränderung der Acylneuraminsäuregehalte auf T-Lymphozyten und im Plasma bei Erkrankung an Mamma-Karzinom 5
- Strasser T, Schiffil H: Generation of Leukotriene B₄ by Hemodialyzer Membranes: A Novel Index of Biocompatibility 808
- Stratmann G → Schuster H
- Strauß H → Rettig R
- Studer A → Chen D
- Stürmer W, Kromer EP, Riegger AJG, Kochsiek K: Lipidstatus und basale Steroidhormonspiegel nach 16 Wochen Lovastatintherapie bei primärer Hypercholesterinämie 307
- Sundmacher R → Heering P
- Sütsch G → Greminger P
- Suttman U, Müller MJ, Ockenga J, Hoogstraal L, Coldewey R, Schedel I, Deicher H: Malnutrition and Immune Dysfunction in Patients Infected with Human Immunodeficiency Virus 156
- Swobodnik W → Janowitz P
- Swobodnik W → Klueppelberg U
- Szücs L → Tulassay T
- Taberero JM → Corrales JJ
- Takagi N → Kihara M
- Tatra G, Reinhaller A: Elevated Thrombin-Antithrombin III Complex Concentrations in Patients with Gynaecological Malignancy 124
- Taube C → Ratzmann KP
- Täuber MG → Baumann R
- Theisen K → Klaus V
- Thiel HJ → Schaaf L
- Thiery J → Holtkamp W
- Thinnes FP, Babel D, Hein A, Jürgens L, König U, Schmid A, Hilschmann N: Ein Flip-Flop-Modell des Chlorid-Kanal-Komplexes erklärt die Fehlregulation des Chloridflusses am Plasmalemm von Zellen bei der cystischen Fibrose 283
- Tilg H → Wiedermann CJ
- Till GO → Friedl HP
- Tischfield JA → Gathof BS
- Toledo-Pereyra LH: Liver Transplantation Reperfusion Injury. Factors in its Development and Avenues for Treatment 1099
- Torrente A de → Jolidon R-M
- Trentz O → Friedl HP
- Trubert-Exinger D → Pollack H
- Trucco M → Boehm BO
- Trümper L → Knauf WU
- Tschaidse O → Klaus V
- Tschubel K → Rockstroh JK
- Tulassay T, Tulassay Z, Rascher W, Szücs L, Seyberth HW, Nagy I: Effect of Somatostatin on Kidney Function and Vasoactive Hormone Systems in Healthy Subjects 486
- Tulassay Z → Tulassay T
- Türk J, Kenda M, Kranjec I: Primary Malignant Pericardial Mesothelioma 674
- Ubbink JB, Vermaak WJH, Bennett JM, Becker PJ, Staden DA van, Bissbort S: The Prevalence of Homocysteinemia and Hypercholesterolemia in Angiographically Defined Coronary Heart Disease 527
- Ujhelyi E → Pálóczi K
- Ullrich R, Zeitz M, Bergs C, Janitschke K, Riecken EO: Intestinal Microsporidiosis in a German Patient with AIDS 443
- Ulrich J → Mihatsch MJ
- Umemura S → Kihara M
- Unger T → Rettig R
- Unverdorben M → Pongratz G
- Usadel KH → Schaaf L
- Ushioji Y → Häberle DA
- Vaage J, Valen G: Could Treatment With Scavengers of Oxygen Free Radicals Minimize Complications in Cardiac Surgery? 1066
- Valen G → Vaage J
- Van den Heede M → De Wilde V
- Van Den Neucker K → De Wilde V
- Vanderstraeten G → De Wilde V
- Vermaak WJH → Ubbink JB
- Vlcek J, Binswanger U, Keusch G, Záruba J: Hyperparathyroidism After Kidney Transplantation 669
- Voelker W, Regele B, Dittmann H, Schmid M, Mauser M, Kühlkamp V, Karsch KR: Value of a Modified Continuity Equation Method to Quantify Mitral Valve Area in Patients with Mitral Stenosis and Sinus Rhythm 924
- Vogelaers D → De Wilde V
- Vogler A → Klaus V
- Wachter H → Pálóczi K
- Wagner DR, Zöllner N: McArdle's Disease: Successful Symptomatic Therapy by High Dose Oral Administration of Ribose 92
- Wagner DR, Felbel J, Gresser U, Zöllner N: Muscle Metabolism and Red Cell ATP/ADP Concentration during Bicycle Ergometer in Patients with AMPD-Deficiency 251
- Wagner O → Hirschl M
- Wagner S, Lautz H-U, Müller MJ, Schmidt FW: Pathophysiology and Clinical Basis of Prevention and Treatment of Complications of Chronic Liver Disease 112
- Waidner Th → Franzen D
- Wallace AC → Mihatsch MJ
- Walter-Sack I → Raedsch R
- Ward PA, Mulligan MS: New Insights into Mechanisms of Oxyradical and Neurophil Mediated Lung Injury 1009
- Ward PA → Friedl HP
- Warnecke H → Hummel M
- Watanabe K → Yagihashi S
- Wechsler JG → Janowitz P
- Wedekind W → Dimpfel W
- Weh H-J → Fiedler W
- Weicker H → Huber KH
- Weigold B → Zöllner N
- Weiss A → Bonatz K
- Weissel M → Brunner C
- Welsch U → Erlinger R
- Wendel A: Reactive Oxygen Species, Antiproteases, and Cytokines in Sepsis 969
- Wendel A → Ruffmann R
- Werder K von → Mehlretter G
- Werle E → Huber KH
- Wernet P → Harms B
- Wichert P von → Koehler U
- Wicht H → Kozlik R
- Widmer A → Kapp J-F
- Wiedermann CJ, Wiedermann FJ, Herold M, Tilg H, Moes N, Mühlberger V, Beimpold H, Knapp E: Plasma Levels of Atrial Natriuretic Peptide and Tumor Necrosis Factor- α During Transient Myocardial Ischemia in Patients with Stable Angina 944
- Wiedermann FJ → Wiedermann CJ
- Wiefels K → Hübinger A
- Wieland T: Laudationes 97

- Wieshammer S, Hetzel M, Barnikel U, Hoher M, Seibold H, Kochs M, Hombach V: Effects of Atenolol, Slow-Release Nifedipine, and Their Combination on Respiratory Gas Exchange and Exercise Tolerance in Stable Effort Angina 645
- Will D, Crayen E, Kirch W, Bruhn HD, Gremmel H, Niedermayer W: Indirektes Vena azygos-Kontinuations-Syndrom mit Aneurysma der Vena cava inferior 330
- Willvonseder R → Resch H
- Wirtz KWA: Phospholipid Transfer Proteins: From Lipid Monolayers to Cells 105
- Wogritsch C → Pecherstorfer M
- Wolf F → Horneff G
- Wolff C → Prohaska W
- Wolff M, Jelkmann W: Erythropoiesis and Erythropoietin Levels in Renal Transplant Patients 53
- Wolfram G → Fischer HJ
- Wolfram G → Rauh G
- Wolfram G → Schuster H
- Wolgast M, Bayati A, Hellberg O, Köllskog O, Nygren K, Öjteg G: Oxygen Radicals in Postischaemic Damages in the Kidney 1077
- Wolin MS: Activated Oxygen Metabolites as Regulators of Vascular Tone 1046
- Wolner E → Asenbaum S
- Woloszczuk W → Pietschmann P
- Wosegien F → Nedorn E
- Wuster C, Slenczka E, Ziegler R: Erhohte Prävalenz von Osteoporose und Arteriosklerose bei konventionell substituierter Hypophysenvorderlappeninsuffizienz: Bedarf einer zusätzlichen Wachstumshormonsubstitution? 769
- Yagihashi S, Watanabe K, Nagai K, Okudaira M: Pulmonary Mucormycosis Presenting as Massive Fatal Hemoptysis in a Hemodialytic Patient with Chronic Renal Failure 224
- Yamada T, Grisham MB: Role of Neutrophil-Derived Oxidants in the Pathogenesis of Intestinal Inflammation 988
- Yassin N, Seißler J, Glück M, Boehm BO, Heinze E, Pfeiffer EF, Scherbaum WA: Insulin-Autoantibodies as Determined by Competitive Radiobinding Assay are Positively Correlated with Impaired Beta-Cell Function – The Ulm-Frankfurt Population Study 736
- Younes M → Schoenberg MH
- Zangeneh M → Oder W
- Záruba J → Vlcek J
- Zeiler K → Oder W
- Zeitlhofer J → Asenbaum S
- Zeitl M → Ullrich R
- Zeller W → Fiedler W
- Zentgraf R → Kapp J-F
- Ziegler D → Hübinger A
- Ziegler R → Nawroth PP
- Ziegler R → Scharla SH
- Ziegler R → Wuster C
- Zierhut M → Schaaf L
- Zietz C → Bogner JR
- Zöllner WG → Zöllner N
- Zöllner N, Zoller WG, Spengel F, Weigold B, Schewe CK: The Spontaneous Course of Small Abdominal Aortic Aneurysms. Aneurysmal Growth Rates and Life Expectancy 633
- Zöllner N → Bogner JR
- Zöllner N → Erlinger R
- Zöllner N → Fischer HJ
- Zöllner N → Gathof BS
- Zöllner N → Gross M
- Zöllner N → Rauh G
- Zöllner N → Schuster H
- Zöllner N → Wagner DR
- Zwehl W → Klaus V
- Zweier JL → Flaherty JT

Research Quickie

Chylothorax as Fatal Complication in Fulminating Kaposi's Sarcoma in a Patient with AIDS

J.R. Bogner¹, M. Gross¹, C. Zietz², L. Mandel², and N. Zöllner¹

¹ Medizinische Poliklinik und ² Pathologisches Institut der Universität München

Kaposi's sarcoma (KS) is one of the earliest and most frequent manifestations of the acquired immunodeficiency syndrome. About 20 percent of all German AIDS patients present with KS as their first sign of AIDS. Visceral involvement occurs in up to 40% percent of patients with disseminated KS [1, 2, 3]. Fatal complications are known in pulmonary and gastrointestinal KS. They include respiratory failure and fatal bleeding [1, 2]. To our knowledge an arrosion of the thoracic duct with chylothorax has not yet been reported.

Case report: A 48 year old homosexual AIDS patient was admitted with fever (39°C), dyspnoea and dry cough. Five months earlier cerebral toxoplasmosis had been treated. Four months earlier, the first signs of disseminated cutaneous KS led to histological confirmation. The patient reported about rapid expansion and dissemination of KS during the two months before admission.

Physical examination revealed disseminated KS in the face (maximum surface 2 × 1 cm), on the trunk and on the extremities. The gingiva, palatinum and uvula were involved as well. The respirations were 40 per min. The pulse was 112/min, the blood pressure 100/70 mmHg. The roentgenogram of the chest revealed nodular infiltrations but no pleural effusion. Pneumocystis carinii was not detected by bronchioalveolar lavage. Ultrasonic examination and computed tomography showed nodular lesions in the liver and lung, retroperitoneal and paratracheal lymph nodes and a thickened wall of the esophagus. Histology of a thin needle liver puncture revealed KS.

The patient rapidly deteriorated within six days. Serum total protein fell from 6.3 to 3.8 g despite substitution. On the seventh day the patient died of cardiorespiratory failure before any further therapy could be implemented.

Autoptic findings included disseminated cutaneous, visceral (lungs, liver, esophagus, ileum, colon) and lymph node KS with infiltration and partial obliteration of the thoracic duct (Fig. 1). The volume of a left sided chylothorax was 1.5 l. In addition, generalized cytomegalovirus infection (heart, lungs, adrenals, esophagus, colon) and the residuum of toxoplasma encephalitis were detected histologically.

References

1. Chachoua A, Krigel R, Lafleur F et al. (1989) Prognostic factors and staging classification of patients with epidemic Kaposi's Sarcoma. *J Clin Oncol* 7:774-780
2. Krown SE (1988) AIDS-associated Kaposi's sarcoma: pathogenesis, clinical course and treatment. *AIDS* 2:71-80
3. Prantl F (1988) Kaposi-Sarkom des Gastrointestinaltraktes bei AIDS. Morphologische Befunde, differentialdiagnostische Aspekte. *Z Gastroenterol* 26:351-357

Received: November 8, 1990
Accepted: November 20, 1990

Dr. Joh. R. Bogner
Medizinische Poliklinik
Pettenkoferstraße 8a
W-8000 München 2, FRG

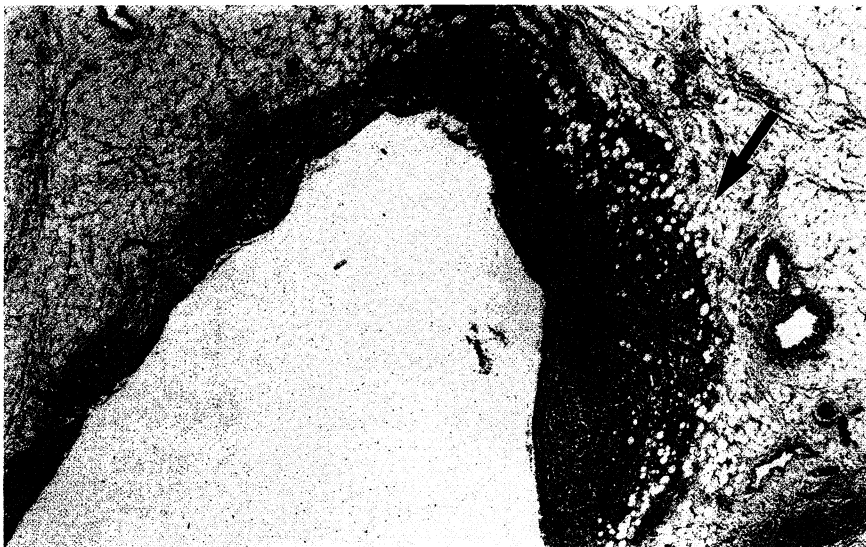


Fig. 1. Section showing infiltration of the thoracic duct