

VIII LITERATURVERZEICHNIS

ADKISON, D., M.E. HOLLWARTH, J.N. BENOIT, D.A. PARKS, J.M. MCCORD, D.N.

GRANGER (1986):

Role of free radicals in ischemia-reperfusion injury to the liver.

Acta Physiol Scand Suppl, 548: 101-7.

ANDREEN, M. (1982):

Inhalation versus intravenous anaesthesia. Effects on the hepatic and splanchnic circulation.

Acta Anaesthesiol Scand Suppl, 75: 25-31.

ANEMAN, A., G. EISENHOFER, L. OLBE, J. DALENBACK, P. NITESCU, L. FANDRIKS, P.

FRIBERG (1996):

Sympathetic discharge to mesenteric organs and the liver. Evidence for substantial mesenteric organ norepinephrine spillover.

J Clin Invest, 97 (7): 1640-6.

ANTHUBER, M., S. FARKAS, M. RIHL, M.D. MENGER, K.W. JAUCH, F.W. SCHILDBERG,

K. MESSMER (1996):

Conditioning of liver grafts by donor bolus pretreatment with epoprostenol.

Transplantation, 62 (1): 13-7.

APPEL, P.L. ,W.C. SHOEMAKER (1992):

Relationship of oxygen consumption and oxygen delivery in surgical patients with ARDS.

Chest, 102 (3): 906-11.

ARAKI, H., A.M. LEFER (1980):

Cytoprotective actions of prostacyclin during hypoxia in the isolated perfused cat liver.

Am J Physiol, 238 (2): H176-81.

ARMSTRONG, J.M., N. LATTIMER, S. MONCADA, J.R. VANE (1978):

Comparison of the vasodepressor effects of prostacyclin and 6-oxo-prostaglandin F1alpha with those of prostaglandin E2 in rats and rabbits.

Br J Pharmacol, 62 (1): 125-30.

AYUSE, T., N. BRIENZA, C.P. O'DONNELL, J.L. ROBOTHAM (1994):
Pressure-flow analysis of portal vein and hepatic artery interactions in porcine liver.
Am J Physiol, 267 (4 Pt 2): H1233-42.

AYUSE, T., N. BRIENZA, J.P. REVELLY, C.P. O'DONNELL, J.K. BOITNOTT, J.L. ROBOTHAM (1995 a):
Alterations in liver hemodynamics in an intact porcine model of endotoxin shock.
Am J Physiol, 268 (3 Pt 2): H1106-14.

AYUSE, T., N. BRIENZA, J.P. REVELLY, J.K. BOINOTT, J.L. ROBOTHAM (1995 b):
Role of nitric oxide in porcine liver circulation under normal and endotoxemic conditions.
Appl Physiol, 78 (4): 1319-1329.

BAUER, M., J.X. ZHANG, I. BAUER, M.G. CLEMENS (1994):
ET-1 induced alterations of hepatic microcirculation: sinusoidal and extrasinusoidal sites of action.
Am J Physiol, 267 (1 Pt 1): G143-9.

BEARN, A.G., B. BILLING, S. SHERLOCK (1951):
The effect of adrenaline and noradrenaline on hepatic blood flow and splanchnic carbohydrate metabolism in man.
J Physiol, 115 (4): 430-41.

BELZER, F.O., J.H. SOUTHARD (1988):
Principles of solid-organ preservation by cold storage.
Transplantation, 45 (4): 673-6.

BIHARI, D., M. SMITHIES, A. GIMSON, D.J. TINKER (1987):
The effects of vasodilation with prostacyclin on oxygen delivery and uptake in critically ill patients.
N Engl J Med, 317 (7): 397-403.

BILZER, M., A.L. GERBES (2000):
Preservation injury of the liver: mechanisms and novel therapeutic strategies.
J Hepatol, 32 (3): 508-15.

BOLLEN, P.J.A., A.K. HANSEN, H.J. RASMUSSEN (2000):

Important biological features.

In: P.J.A. BOLLEN, A.K. HANSEN, H.J. RASMUSSEN, (Hrsg.): The laboratory swine. CRC Press: Boca Raton, London, New York, Washington, D.C., 5-10.

BUSSE, R. (2000):

Gefäßsystem und Kreislaufregulation.

In: R.F. SCHMIDT, G. THEWS, F. LANG (Hrsg.): Physiologie des Menschen. 28. Aufl., Springer-Verlag: Berlin, Heidelberg, New York, London, Paris, Tokyo, 498-561.

CALDWELL-KENKEL, J.C., R.T. Currin, Y. TANAKA, R.G. THURMAN, J.J. LEMASTERS (1989):

Reperfusion injury to endothelial cells following cold ischemic storage of rat livers.

Hepatology, 10 (3): 292-9.

CALDWELL-KENKEL, J.C., R.T. Currin, Y. TANAKA, R.G. THURMAN, J.J. LEMASTERS (1991):

Kupffer cell activation and endothelial cell damage after storage of rat livers: effects of reperfusion.

Hepatology, 13 (1): 83-95.

CALNE, R.Y. (1987):

Technique in the Pig.

In: R.Y. CALNE (Hrsg): Liver transplantation. The Cambridge-King's College Hospital Experience. 2. Aufl., Grune & Stratton, Inc.: Orlando, New York, San Diego, London, San Francisco, Tokyo, Sydney, Toronto: 9-16

CALNE, R.Y., H.J. WHITE, D.E. YOFFA, R.R. MAGINN, R.M. BINNS, J.R. SAMUEL, V.P. MOLINA (1967):

Observations of orthotopic liver transplantation in the pig.

Br Med J, 2 (550): 478-80.

CAMPRA, J.L., T.B. REYNOLDS (1988):

The hepatic circulation.

In: I.M. ARIAS, W.B. JAKOBY, H. POPPER, D. SCHACHTER, D.A. SHAFRITZ (Hrsg.): The Liver: Biology and Pathobiology, 2. Aufl., Raven Press: New York, 911-930.

CHEN, H.M., M.F. CHEN, M.H. SHYR (1998):

Prostacyclin analogue (OP-2507) attenuates hepatic microcirculatory derangement, energy depletion, and lipid peroxidation in a rat model of reperfusion injury.

J Surg Res, 80 (2): 333-8.

CILLEY, R.E., T.Z. POLLEY, JR., J.B. ZWISCHENBERGER, J.M. TOOMASIAN, R.H.

BARTLETT (1989):

Independent measurement of oxygen consumption and oxygen delivery.

J Surg Res, 47 (3): 242-7.

CISNEROS, C., F. GUILLEN, R. GOMEZ, J. GUTIERREZ, P. VORWALD, A. MONTERO, E.

MORENO (1991):

Analysis of warm ischemia time for prediction of primary nonfunction of the hepatic graft.

Transplant Proc, 23 (3): 1976.

CLAVIEN, P.A. (1998):

Sinusoidal endothelial cell injury during hepatic preservation and reperfusion.

Hepatology, 28 (2): 281-5.

CLEMENS, M.G., J.X. ZHANG (1999):

Regulation of sinusoidal perfusion: in vivo methodology and control by endothelins.

Semin Liver Dis, 19 (4): 383-96.

COLLETTI, L.M., S.L. KUNKEL, A. WALZ, M.D. BURDICK, R.G. KUNKEL, C.A. WILKE,

R.M. STRIETER (1996):

The role of cytokine networks in the local liver injury following hepatic ischemia/reperfusion in the rat.

Hepatology, 23 (3): 506-14.

COLLINS, G.M. (1997):

What solutions are best? Overview of flush solutions.

Transplant Proc, 29 (8): 3543-4.

COLLINS, G.M., M. BRAVO-SHUGARMAN, P.I. TERASAKI (1969):

Kidney preservation for transportation. Initial perfusion and 30 hours' ice storage.

Lancet, 2 (7632): 1219-22.

COLLINS, G.M., W.N. WICOMB (1992):

New organ preservation solutions.

Kidney Int Suppl, 38: 197-202.

DAHN, M.S., M.P. LANGE, L.A. JACOBS (1988):

Central mixed and splanchnic venous oxygen saturation monitoring.

Intensive Care Med, 14 (4): 373-8.

DAHN, M.S., M.P. LANGE, S. BENN (1999):

The influence of hepatic venous oxygen saturation on the liver's synthetic response to metabolic stress.

Proc Soc Exp Biol Med, 221 (1): 39-45.

DELVA, E., Y. CAMUS, B. NORDLINGER, L. HANNOUN, R. PARC, H. DERIAZ, A.

LIENHART, C. HUGUET (1989):

Vascular occlusions for liver resections. Operative management and tolerance to hepatic ischemia: 142 cases.

Ann Surg, 209 (2): 211-8.

DODDS , W. J. (1982):

The pig model for biomedical research.

Fed Proc, 41: 247-256.

DÖCKE, F. (2000 a):

Catecholamine,

In: E. WIESNER, R. RIBBECK (Hrsg.): Lexikon der Veterinärmedizin, Enke Verlag: Stuttgart, 246

DÖCKE, F. (2000 b):

Noradrenalin.

In: E. WIESNER, R. RIBBECK (Hrsg.): Lexikon der Veterinärmedizin, Enke Verlag: Stuttgart, 1035

EJIRI, S., Y. EGUCHI, A. KISHIDA, G. XIE, Y. KURUMI, M. KODAMA (1996):
Protective effect of a prostaglandin I2 analogue on grafted livers subjected to in situ warm ischemia in porcine orthotopic liver transplantation: immunohistochemical analysis of thrombomodulin.

Transplant Proc, 28 (2): 1086-8.

ENSINGER, H., T. WEICHEL, K.H. LINDNER, A. GRUNERT, F.W. AHNEFELD (1993):
Effects of norepinephrine, epinephrine, and dopamine infusions on oxygen consumption in volunteers.

Crit Care Med, 21 (10): 1502-8.

EPSTEIN, C.D., J.R. PEERLESS, J.E. MARTIN, M.A. MALANGONI (2000):
Comparison of methods of measurements of oxygen consumption in mechanically ventilated patients with multiple trauma: the Fick method versus indirect calorimetry.
Crit Care Med, 28 (5): 1363-9.

EZZAT, W.R., W.W. LAUTT (1987):
Hepatic arterial pressure-flow autoregulation is adenosine mediated.
Am J Physiol, 252 (4 Pt 2): H836-45.

FARHOOD, A., G.M. MCGUIRE, A.M. MANNING, M. MIYASAKA, C.W. SMITH, H. JAESCHKE (1995):
Intercellular adhesion molecule 1 (ICAM-1) expression and its role in neutrophil-induced ischemia-reperfusion injury in rat liver.
J Leukoc Biol, 57 (3): 368-74.

FARMER, D.G., F. Amersi, R.W. BUSTTIL (2000):
Orthotopic liver transplantation.
In: BLUMGART, L.H., Y. Fong (Hrsg.): Surgery of the liver and biliary tract. 3. Aufl.,
W.B. Saunders Company LTD: London, Edingburg, 2071-2085.

FIRTH, B.G., M.D. WINNIFORD, W.B. CAMPBELL, L.D. HILLIS (1983):
Hemodynamic effects of intravenous prostacyclin in stable angina pectoris.
Am J Cardiol, 52 (5): 439-43.

FUJIWARA, K., S. MOCHIDA, A. OHNO, M. ARAI, A. MATSUI, N. MASAKI, K. HIRATA, T. TOMIYA, M. YAMAOKA, S. NAGOSHI, et al. (1995):
Use of prostaglandin I2 analog in treatment of massive hepatic necrosis associated with endothelial cell injury and diffuse sinusoidal fibrin deposition.
Dig Dis Sci, 40 (1): 41-7.

FURUKAWA, H., S. TODO, O. IMVENTARZA, A. CASAVILLA, Y.M. WU, C. SCOTTI-FOGLIENI, B. BROZNICK, J. BRYANT, R. DAY, T.E. STARZL (1991):
Effect of cold ischemia time on the early outcome of human hepatic allografts preserved with UW solution.
Transplantation, 51 (5): 1000-4.

GAO, W., R.C. BENTLEY, J.F. MADDEN, P.A. CLAVIEN (1998):
Apoptosis of sinusoidal endothelial cells is a critical mechanism of preservation injury in rat liver transplantation.
Hepatology, 27 (6): 1652-60.

GARCIA-CRIADO, F.J., L.H. TOLEDO-PEREYRA, F. LOPEZ-NEBLINA, M.L. PHILLIPS, A. PAEZ-ROLLYS, K. MISAWA (1995):
Role of P-selectin in total hepatic ischemia and reperfusion.
J Am Coll Surg, 181 (4): 327-34.

GARDEMANN, A., U. JAHNS, K. JUNGERMANN (1991):
Control of glycogenolysis and blood flow by arterial and portal norepinephrine in perfused liver.
Am J Physiol, 260 (5 Pt 1): E762-71.

GARDEMANN, A., G.P. PUSCHEL, K. JUNGERMANN (1992):
Nervous control of liver metabolism and hemodynamics.
Eur J Biochem, 207 (2): 399-411.

GELMAN, S.I. (1976):
Disturbances in hepatic blood flow during anesthesia and surgery.
Arch Surg, 111 (8): 881-3.

GELMAN, S., E. DILLARD, E.L. BRADLEY, JR. (1987):
Hepatic circulation during surgical stress and anesthesia with halothane, isoflurane, or fentanyl.
Anesth Analg, 66 (10): 936-43.

GLAUSER, F.L. (1990):
Systemic hemodynamic and cardiac function changes in patients undergoing orthotopic liver transplantation.
Chest, 98 (5): 1210-5.

GOTO, M., Y. TAKEI, S. KAWANO, K. NAGANO, S. TSUJI, E. MASUDA, Y. NISHIMURA, S. OKUMURA, T. KASHIWAGI, H. FUSAMOTO et al. (1994):
Endothelin-1 is involved in the pathogenesis of ischemia/reperfusion liver injury by hepatic microcirculatory disturbances.
Hepatology, 19 (3): 675-81.

GOTTLIEB, M.E., I.J. SARFEH, H. STRATTON, M.L. GOLDMAN, J.C. NEWELL, D.M. SHAH (1983):
Hepatic perfusion and splanchnic oxygen consumption in patients postinjury.
J Trauma, 23 (9): 836-43.

GRAYSON, J., D.H. JOHNSON (1953):
The effect of adrenaline and noradrenaline on the liver blood flow.
J Physiol, 120 (1-2): 73-94.

GREENWAY, C.V., W.W. LAUTT (1988):
Distensibility of hepatic venous resistance sites and consequences on portal pressure.
Am J Physiol, 254 (3 Pt 2): H452-8.

GROTE, J. (2000):
Gewebeatmung.
In: SCHMIDT, R.F., G. THEWS, F. LANG (Hrsg.): *Physiologie des Menschen*. 28. Aufl., Springer-Verlag: Berlin, Heidelberg, New York, London, Paris, Tokyo, 624-637.

GRUND, F., H.T. SOMMERSCHILD, A. WINECOFF, M.R. UJHELYI, T. TONNESSEN, K.A.

KIRKEBOEN, D.L. RUTLEN, A. ILEBEKK (1997):

Importance of nitric oxide in hepatic arterial blood flow and total hepatic blood volume regulation in pigs.

Acta Physiol Scand, 161 (3): 303-9.

GUJRAL, J.S., T.J. BUCCI, A. FARHOOD, H. JAESCHKE (2001):

Mechanism of cell death during warm hepatic ischemia-reperfusion in rats: apoptosis or necrosis?

Hepatology, 33 (2): 397-405.

GUMUCIO, J.J. (1983):

Functional and anatomic heterogeneity in the liver acinus: impact on transport.

Am J Physiol, 244 (6): G578-82.

GUYTON, A.C. (1986)

The Circulation

In: GUYTON, A.C. (Hrsg.): Textbook of medical physiology. 7. Aufl., Saunders Verlag, Philadelphia, 205-346

HANIQUE, G., T. DUGERNIER, P.F. LATERRE, J. ROESELER, A. DOUGNAC, M.S.

REYNAERT (1994 a):

Evaluation of oxygen uptake and delivery in critically ill patients: a statistical reappraisal.

Intensive Care Med, 20 (1): 19-26.

HANIQUE, G., T. DUGERNIER, P.F. LATERRE, A. DOUGNAC, J. ROESELER, M.S.

REYNAERT (1994 b):

Significance of pathologic oxygen supply dependency in critically ill patients: comparison between measured and calculated methods.

Intensive Care Med, 20 (1): 12-8.

HANSON, K.M., P.C. JOHNSON (1966):

Local control of hepatic arterial and portal venous flow in the dog.

Am J Physiol, 211 (3): 712-20.

HENDERSON, J.M., W.J. MILLIKAN, M. HOOKS, B. NOE, M.H. KUTNER, W.D. WARREN (1989):

Increased galactose clearance after liver transplantation: a measure of increased blood flow through the denervated liver?

Hepatology, 10 (3): 288-91.

HENDERSON, J.M., G.T. GILMORE, G.J. MACKAY, J.R. GALLOWAY, T.F. DODSON, M.H. KUTNER (1992 a):

Hemodynamics during liver transplantation: the interactions between cardiac output and portal venous and hepatic arterial flows.

Hepatology, 16 (3): 715-8.

HENDERSON, J.M., G.J. MACKAY, M. HOOKS, J.L. CHEZMAR, J.R. GALLOWAY, T.F. DODSON, M.H. KUTNER (1992 b):

High cardiac output of advanced liver disease persists after orthotopic liver transplantation.

Hepatology, 15 (2): 258-62.

HENDERSON, J.M., G.J. MACKAY, A.B. LUMSDEN, H.M. ATTA, R. BROUILLARD, M.H. KUTNER (1992 c):

The effect of liver denervation on hepatic hemodynamics during hypovolemic shock in swine.

Hepatology, 15 (1): 130-3.

HENDERSON, J.M., G.J. MACKAY, M.H. KUTNER, B. NOE (1993):

Volumetric and functional liver blood flow are both increased in the human transplanted liver.

J Hepatol, 17 (2): 204-7.

HICKMAN, R., G.N. STAPLETON, B. METS, S. HLATSHWAYO, P. JANICKI (1995):

Hepatic blood flow during reduced liver grafting in pigs. A comparison of controls and recipients of intact allografts.

Dig Dis Sci, 40 (6): 1246-51.

HISAMA, N., Y. YAMAGUCHI, T. ISHIKO, N. MIYANARI, O. ICHIGUCHI, M. GOTO, K.

MORI, K. WATANABE, K. KAWAMURA, S. TSURUFUJI, M. OGAWA (1996):

Kupffer cell production of cytokine-induced neutrophil chemoattractant following ischemia/reperfusion injury in rats.

Hepatology, 24 (5): 1193-8.

HOLLOWAY, C.M., P.R. HARVEY, S.M. STRASBERG (1990):
Viability of sinusoidal lining cells in cold-preserved rat liver allografts.
Transplantation, 49 (1): 225-9.

HOLPER, K., I. OLCAY, A. KITAHAMA, R.H. MILLER, L. BRETTSCHEIDER, T.
DRAPANAS, R.A. TREJO, N.R. DI LUZIO (1974):
Effect of ischemia on hepatic parenchymal and reticuloendothelial function in the baboon.
Surgery, 76 (3): 423-32.

HOUSSIN, D., M. FRATACCI, P. DUPUY, C. VIGOUROUX, C. GATECEL, D. PAYEN, Y.
CHAPUIS (1989):
One week of monitoring of portal and hepatic arterial blood flow after liver transplantation
using implantable pulsed Doppler microprobes.
Transplant Proc, 21 (1 Pt 2): 2277-8.

IKEDA, T., K. YANAGI, K. KISHIKAWA, S. KAKIZOE, M. SHIMADA, K. SUGIMACHI (1992):
Ischemic injury in liver transplantation: difference in injury sites between warm and cold
ischemia in rats.
Hepatology, 16 (2): 454-61.

IRITA, K., H. OKAMOTO, Y. SAKAGUCHI, S. TAKAHASHI (1998):
A possible increase in plasma norepinephrine by removal of the liver.
Acta Anaesthesiol Scand, 42 (10): 1164-7.

ISHIKAWA, M., A. YAMATAKA, S. KAWAMOTO, G.A. BALDERSON, S.V. LYNCH (1995):
Hemodynamic changes in blood flow through the denervated liver in pigs.
J Invest Surg, 8 (1): 95-100.

JAESCHKE, H. (1996):
Preservation injury: mechanisms, prevention and consequences.
J Hepatol, 25 (5): 774-80.

JAESCHKE, H. (1998):
Mechanisms of reperfusion injury after warm ischemia of the liver.
J Hepatobiliary Pancreat Surg, 5(4): 402-8.

JAESCHKE, H. (2003):

Molecular mechanisms of hepatic ischemia-reperfusion injury and preconditioning.

Am J Physiol Gastrointest Liver Physiol, 284 (1): G15-26.

JAESCHKE, H., A. FARHOOD, C.W. SMITH (1990):

Neutrophils contribute to ischemia/reperfusion injury in rat liver in vivo.

Faseb J, 4 (15): 3355-9.

JAESCHKE, H. A. FARHOOD (1991):

Neutrophil and Kupffer cell-induced oxidant stress and ischemia-reperfusion injury in rat liver.

Am J Physiol, 260 (3 Pt 1): G355-62.

JAESCHKE, H., A.P. BAUTISTA, Z. SPOLARICS, J.J. SPITZER (1992):

Superoxide generation by neutrophils and Kupffer cells during in vivo reperfusion after hepatic ischemia in rats.

J Leukoc Biol, 52 (4): 377-82.

JAESCHKE, H., A. FARHOOD, A.P. BAUTISTA, Z. SPOLARICS, J.J. SPITZER (1993):

Complement activates Kupffer cells and neutrophils during reperfusion after hepatic ischemia.

Am J Physiol, 264 (4 Pt 1): G801-9.

JAHR, J., U. EKELUND, P.O. GRANDE (1995):

In vivo effects of prostacyclin on segmental vascular resistances, on myogenic reactivity, and on capillary fluid exchange in cat skeletal muscle.

Crit Care Med, 23 (3): 523-31.

JAKOB, S.M., J.J. TENHUNEN, S. LAITINEN, A. HEINO, E. ALHAVA, J. TAKALA (2001):

Effects of systemic arterial hypoperfusion on splanchnic hemodynamics and hepatic arterial buffer response in pigs.

Am J Physiol Gastrointest Liver Physiol, 280 (5): G819-27.

JAMIESON, N.V., R. SUNDBERG, S. LINDELL, K. CLAESSEN, J. MOEN, P.K.

VREUGDENHIL, D.G. WIGHT, J.H. SOUTHARD, F.O. BELZER (1988):

Preservation of the canine liver for 24-48 hours using simple cold storage with UW solution.

Transplantation, 46 (4): 517-22.

JASSEM, W., S.V. FUGGLE, M. RELA, D.D. KOO, N.D. HEATON (2002):
The role of mitochondria in ischemia/reperfusion injury.
Transplantation, 73 (4): 493-9.

KAHN, D., R. HICKMAN, D.M. DENT, J. TERBLANCHE (1986):
For how long can the liver tolerate ischaemia ?
Eur Surg Res, 18 (5): 277-82.

KAINUMA, M., Y. FUJIWARA, N. KIMURA, A. SHITAKOSHI, K. NAKASHIMA, Y. SHIMADA (1991)
Monitoring hepatic venous hemoglobin oxygen saturation in patients undergoing liver surgery.
Anesthesiology, 1991. 74(1): 49-52.

KAINUMA, M., K. NAKASHIMA, I. SAKUMA, M. KAWASE, T. KOMATSU, Y. SHIMADA, Y. NIMURA, T. NONAMI (1992):
Hepatic venous hemoglobin oxygen saturation predicts liver dysfunction after hepatectomy.
Anesthesiology, 76(3): 379-86.

KAISERS, U., J.M. LANGREHR, A.R. MULLER, M. HAACK, H. UNDI, W.O. BECHSTEIN, P. NEUHAUS, R. ROSSAINT (1994):
Feasibility of hepatic venous catheterization in patients undergoing orthotopic liver transplantation.
Transplant Proc, 26 (6): 3608-9.

KAISERS, U., U. NEUMANN, R. KUHLEN, M. SPRENGER, P. NEUHAUS, R. ROSSAINT (1996):
Nitroglycerin versus epoprostenol: effects on hemodynamics, oxygen delivery, and hepatic venous oxygenation after liver transplantation.
Liver Transpl Surg, 2 (6): 455-60.

KAMIIKE, W., M. BURDELSKI, G. STEINHOFF, B. RINGE, W. LAUCHART, R. PICHLMAYR (1988):
Adenine nucleotide metabolism and its relation to organ viability in human liver transplantation.
Transplantation, 45 (1): 138-43.

KANEDA, K., W. EKATAKSIN, M. SOGAWA, A. MATSUMURA, A. CHO, N. KAWADA (1998):

Endothelin-1-induced vasoconstriction causes a significant increase in portal pressure of rat liver: localized constrictive effect on the distal segment of preterminal portal venules as revealed by light and electron microscopy and serial reconstruction.

Hepatology, 27 (3): 735-47.

KARWINSKI, W., A.M. HUSOY, M. FARSTAD, O. SOREIDE (1989):

Sixty minutes of normothermic ischemia in the rat liver: correlation between adenine nucleotides and bile excretion.

J Surg Res, 46 (2): 99-103.

KATO, M., Y. NIMURA, M. MIYACHI, Y. KITAGAWA, T. WATANABE, Y. KAWABATA, AND H. AKIYAMA (1966):

Intravenous catecholamines alter hepatic blood flow in conscious dogs with experimental hepatic denervation.

J Surg Res, 66 (2): 179-84.

KATSURAMAKI, T., T. MATSUNO, K. HIRATA, M. ISOBE, H. SATO, T. TSURUMA, K. TARUMI, A. YAGIHASHI (1997):

Early detection of graft function using hepatic venous oxygen saturation in pig liver transplantation.

Transplantation, 64 (2): 360-2.

KATZEFF, H.L., M. O'CONNELL, E.S. HORTON, E. DANFORTH, JR., J.B. YOUNG, L. LANDSBERG (1986):

Metabolic studies in human obesity during overnutrition and undernutrition: thermogenic and hormonal responses to norepinephrine.

Metabolism, 35(2): 166-75.

KAWAMOTO, S., S. TASHIRO, Y. MIYAUCHI, M. INOUE (1995):

Changes in circulatory status and transport function of the liver induced by reactive oxygen species.

Am J Physiol, 268 (1 Pt 1): G47-53.

KIM, Y.I., K. KAWANO, S. GOTO, T. YOSHIDA, N. KAMADA (1994):
Efficacy of prostacyclin analogue (OP-2507) in viable hepatic grafts from pigs with non-beating hearts.
Transpl Int, 7(Suppl 1): 199-203.

KOHLI, V., M. SELZNER, J.F. MADDEN, R.C. BENTLEY, P.A. CLAVIEN (1999):
Endothelial cell and hepatocyte deaths occur by apoptosis after ischemia-reperfusion injury in the rat liver.
Transplantation, 67 (8): 1099-105.

KOLB, E., J. GÜTTNER (2000):
Endotheline.
In: E. WIESNER, R. RIBBECK (Hrsg.): Lexikon der Veterinärmedizin, Enke: Stuttgart, 415

KRENTZ, A.J., D. FREEDMAN, R. GREENE, M. MCKINLEY, P.J. BOYLE, D.S. SCHADE, (1996):
Differential effects of physiological versus pathophysiological plasma concentrations of epinephrine and norepinephrine on ketone body metabolism and hepatic portal blood flow in man.
Metabolism, 45 (10): 1214-20.

KUKAN, M., P.S. HADDAD (2001):
Role of hepatocytes and bile duct cells in preservation-reperfusion injury of liver grafts.
Liver Transpl, 7 (5): 381-400.

KUMAMOTO, Y., M. SUEMATSU, M. SHIMAZU, Y. KATO, T. SANO, N. MAKINO, K.I. HIRANO, M. NAITO, G. WAKABAYASHI, Y. ISHIMURA, M. KITAJIMA (1999):
Kupffer cell-independent acute hepatocellular oxidative stress and decreased bile formation in post-cold-ischemic rat liver.
Hepatology, 30 (6): 1454-63.

KUROKAWA, T., T. NONAMI, A. HARADA, A. NAKAO, H. TAKAGI (1996):
Mechanism and prevention of ischemia-reperfusion injury of the liver.
Semin Surg Oncol, 12 (3): 179-82.

KUROKAWA, T., H. TAKAGI (1999):
Mechanism and prevention of ischemia-reperfusion injury.
Transplant Proc, 31 (4): 1775-6.

LANDSBERG, L., M.E. SAVILLE, J.B. YOUNG (1984):
Sympathoadrenal system and regulation of thermogenesis.
Am J Physiol, 247 (2 Pt 1): E181-9.

LARSEN, R. (1999):
Überwachung und Monitoring.
In: R. LARSEN (Hrsg.): Anästhesie. 6.Aufl., Urban & Schwarzenberg: München, Wien,
Baltimore, 609-672.

LAUTT, W.W. (1977):
Effect of stimulation of hepatic nerves on hepatic O₂ uptake and blood flow.
Am J Physiol, 232 (6): H652-6.

LAUTT, W.W. (1980):
Hepatic nerves: a review of their functions and effects.
Can J Physiol Pharmacol, 58 (2): 105-23.

LAUTT, W.W. (1981):
Evaluation of surgical denervation of the liver in cats.
Can J Physiol Pharmacol, 59 (9): 1013-6.

LAUTT, W.W. (1983 a):
Afferent and efferent neural roles in liver function.
Prog Neurobiol, 21 (4): 323-48.

LAUTT, W.W. (1983 b):
Relationship between hepatic blood flow and overall metabolism: the hepatic arterial buffer response.
Fed Proc, 42 (6): 1662-6.

LAUTT, W.W. (1985):

Mechanism and role of intrinsic regulation of hepatic arterial blood flow: hepatic arterial buffer response.

Am J Physiol, 249 (5 Pt 1): G549-56.

LAUTT, W.W., C.V. GREENWAY (1987):

Conceptual review of the hepatic vascular bed.

Hepatology, 7 (5): 952-63.

LAUTT, W.W., D.J. LEGARE, M.S. D'ALMEIDA (1985):

Adenosine as putative regulator of hepatic arterial flow (the buffer response).

Am J Physiol, 248 (3 Pt 2): H331-8.

LAUTT, W.W., D.J. LEGARE, W.R. EZZAT (1990):

Quantitation of the hepatic arterial buffer response to graded changes in portal blood flow.

Gastroenterology, 98 (4): 1024-8.

LEMASTER, J.J. (2001):

Hypoxic, ischemic, and reperfusion injury to liver.

In: I.M. ARIAS, J.L. BOYER, F.V. CHISARI, N. FAUSTO, D. SCHACHTER, D.A. SHAFRITZ (Hrsg.) The Liver: Biology and Pathobiology, 4. Aufl., Lippincott Williams & Wilkins:

Philadelphia, Baltimore, New York, London, Buenos Aires, Hong Kong, Sydney, Tokyo. 257-279.

LEMASTER, J.J., R.G. THURMAN (1997):

Reperfusion injury after liver preservation for transplantation.

Annu Rev Pharmacol Toxicol, 37: 327-38.

LENTSCH, A.B., A. KATO, H. YOSHIDOME, K.M. MCMASTERS, M.J. EDWARDS (2000):

Inflammatory mechanisms and therapeutic strategies for warm hepatic ischemia/reperfusion injury.

Hepatology, 32(2): 169-73.

LICHTMAN, S.N., J.J. LEMASTER (1999):

Role of cytokines and cytokine-producing cells in reperfusion injury to the liver.

Semin Liver Dis, 19 (2): 171-87.

LÖFFLER, G. (1997 a):

Stoffwechsel der Lipide.

In: G. LÖFFLER, P.E. PETRIDES (Hrsg.): Biochemie und Pathobiochemie, Springer-Verlag:
Berlin, Heidelberg, 426-481.

LÖFFLER, G. (1997 b):

Endokrine Gewebe II: Die schnelle Stoffwechselregulation.

In: G. LÖFFLER, P.E. PETRIDES (Hrsg.): Biochemie und Pathobiochemie, Springer-Verlag:
Berlin, Heidelberg, 788-811.

LÖSCHER, W. (2003):

Pharmaka mit Wirkung auf das autonome (vegetative) Nervensystem.

In: F.R. UNGEMACH, W. LÖSCHER, R. KROKER (Hrsg.): Pharmakotherapie bei Haus- und
Nutztieren, 8. Aufl., Parey Buchverlag: Berlin, Wien, 27-47.

MARSH, J.W., J.G. DROUGAS, J.K. WRIGHT, W.C. CHAPMAN, Y.T. BECKER, S.E.

BARNARD, K.L. DONOVAN, I. FEURER, M. SIKA, K.T. BLAIR, K.A. HAMILTON, C.W.

PINSON (1998):

The effect of low dose epinephrine infusion on hepatic hemodynamics.

Transplant Proc, 30 (5): 2306-8.

MARTEAU, P., F. BALLET, Y. CHRETIEN, C. REY, P. JAILLON, R. POUPON (1988):

Effect of vasodilators on hepatic microcirculation: a study of the inhibition of norepinephrine-induced vasoconstriction in the isolated perfused rat liver.

Hepatology, 8 (2): 228-31.

MARTINEZ-MIER, G., L.H. TOLEDO-PEREYRA, J.E. MCDUFFIE, R.L. WARNER, P.A.

WARD (2000):

P-selectin and chemokine response after liver ischemia and reperfusion.

J Am Coll Surg, 191 (4): 395-402.

MASHIMA, S., G. SHIRAKAMI, A. MITSUYOSHI, M. NAKAGAMI, T. MORIMOTO, M.

TERASAKI, K. NAKAO, H. YAMABE, Y. YAMAOKA, K. OZAWA (1996):

Evaluation of the protective effect of a novel prostacyclin analog on mesenteric circulation following warm ischemia.

Eur Surg Res, 28 (1): 14-25.

MATHIE, R.T., L.H. BLUMGART (1983):

Effect of denervation on the hepatic haemodynamic response to hypercapnia and hypoxia in the dog.

Pflügers Arch, 397 (2): 152-7.

MAZE, M. (1990):

Hepatic physiology.

In: R.D. MILLER (Hrsg.), Anaesthesia. 2. Aufl., Churchill Livingstone, New York, Edinburgh, London, Melbourne, Tokyo, 585-600

McCUSKEY, R.S. (1993):

Functional morphology of the liver with emphasis on microvasculature.

In: N. TAVOLONI, P.D. BERK (Hrsg.): Hepatic transport and bile secretion, Raven Press: New York, 1-10.

McCUSKEY, R.S. (1994):

The hepatic microvascular system,

In: I.M. ARIAS, J.L. BOYER, N. FAUSTO, W.B. JAKOBY, D. SCHACHTER, D.A. SHAFRITZ (Hrsg.): The Liver: Biology and Pathobiology, 3. Aufl., Raven Press: New York, 1089-1106.

McCUSKEY, R.S. (2000):

Morphological mechanisms for regulating blood flow through hepatic sinusoids.

Liver, 20 (1): 3-7.

MCKEOWN, C.M., V. EDWARDS, M.J. PHILLIPS, P.R. HARVEY, C.N. PETRUNKA, S.M.

STRASBERG (1988):

Sinusoidal lining cell damage: the critical injury in cold preservation of liver allografts in the rat.

Transplantation, 46 (2): 178-91.

MEIER-HELLMANN, A., L. HANNEMANN, M. SPECHT, C. SPIES, K. REINHART (1993):

Lebervenöse und gemischtvenöse O₂-Sättigung unter Katecholamintherapie bei Patienten im septischen Schock.

Anaesthetist, 42 (1): 29-33.

MEHRABI, A., M. GOLLING, A. KASHFI, T: BOUSCEIN, P. SCHEMMNER, C.N. GUTT, J. SCHMIDT, M.W. BÜCHLER, T.W. KRAUS (2005):
Negative impact of systemic catecholamine administration on hepatic blood perfusion after porcine liver transplantation.
Liver Transplantation, 11 (2): 174-187.

MING, Z., C. HAN, AND W.W. LAUTT (1999):
Nitric oxide mediates hepatic arterial vascular escape from norepinephrine-induced constriction.
Am J Physiol, 277 (6 Pt 1): G1200-6.

MONCADA, S., R. GRYGLEWSKI, S. BUNTING, J.R. VANE (1976):
An enzyme isolated from arteries transforms prostaglandin endoperoxides to an unstable substance that inhibits platelet aggregation.
Nature, 263 (5579): 663-5.

MONCADA, S., J.R. VANE (1979):
The role of prostacyclin in vascular tissue.
Fed Proc, 38 (1): 66-71.

MORIMOTO, T., K. KUSUMOTO, W. ISSELHARD (1991):
Impairment of grafts by short-term warm ischemia in rat liver transplantation.
Transplantation, 52 (3): 424-31.

MOYSEY, J., J.W. FREEMAN (2000):
Liver Transplantation: anesthesia, perioperative management and postoperative intensive care.
In: L.H. BLUMGART, Y. Fong (Hrsg.): *Surgery of the liver and biliary tract*. 3. Aufl., W.B. Saunders Company LTD: London, Edingburg, 2035-2054

MÜHLBACHER, F., F. LANGER, C. MITTERMAYER (1999):
Preservation solutions for transplantation.
Transplant Proc, 31 (5): 2069-70.

MUTCHLER, E. (1996):

Am Sympathikus angreifende Substanzen.

In: E. MUTCHLER (Hrsg.): Arzneimittelwirkungen. Lehrbuch der Pharmakologie und Toxikologie. 7. Aufl., Wissenschaftliche Verlagsgesellschaft: Stuttgart, 271-297

MYLES, P.S., R. MCRAE, I. RYDER, J.O. HUNT, M.R. BUCKLAND (1996):

Association between oxygen delivery and consumption in patients undergoing cardiac surgery. Is there supply dependence?

Anaesth Intensive Care, 24 (6): 651-7.

NAGANO, K., S. GELMAN, D.A. PARKS, E.L. BRADLEY, JR. (1990):

Hepatic oxygen supply-uptake relationship and metabolism during anesthesia in miniature pigs.

Anesthesiology, 72 (5): 902-10.

NAKAMURA, S., R. NISHIYAMA, A. SERIZAWA, Y. YOKOI, S. SUZUKI, H. KONNO, S.

BABA, H. MURO (1995):

Hepatic release of endothelin-1 after warm ischemia. Reperfusion injury and its hemodynamic effect.

Transplantation, 59 (5): 679-84.

NISHIDA, T., S. UESHIMA, H. KAZUO, T. ITO, A. SEIYAMA, H. MATSUDA (2000):

Vagus nerve is involved in lack of blood reflow into sinusoids after rat hepatic ischemia.

Am J Physiol Heart Circ Physiol, 278 (5): H1565-70.

NÖLDGE, G.F.E., H.-J. PRIEBE, W. BOHLE, K.J. BUTTLER, K. GEIGER (1991):

Effects of acute normovolemic hemodilution on splanchnic oxygenation and on hepatic histology and metabolism in anesthetized pigs.

Anesthesiology, 74: 908-918.

NÖLDGE, G.F.E. (1993):

Einfluss verschiedener anästhesiologischer Maßnahmen auf die Sauerstoffversorgung der Leber - eine tierexperimentelle Studie -.

Abbot Schriftenreihe Habilitation, Wissenschaftliche Verlagsabteilung Abott GmbH
Wiesbaden.

NORDLINGER, B., D. DOUVIN, L. JAVAUDIN, P. BLOCH, A. ARANDA, M. BOSCHAT, C. HUGUET (1980):

An experimental study of survival after two hours of normothermic hepatic ischemia.
Surg Gynecol Obstet, 150 (6): 859-64.

NUNN, J.F. (1993):

Distribution of pulmonary ventilation and perfusion.

In: J.F. NUNN (Hrsg.): Nunn's applied respiratory Physiology. 4. Aufl., Butterworth-Heinemann Ltd Cambridge, 156-197.

ODA, M., J.Y. HAN, H. YOKOMORI (2000):

Local regulators of hepatic sinusoidal microcirculation: recent advances.
Clin Hemorheol Microcirc, 23 (2-4): 85-94.

OHWADA, S., Y. SUNOSE, M. AIBA, H. TSUTSUMI, S. IWAZAKI, O. TOTSUKA, K. MATSUMOTO, I. TAKEYOSHI, Y. MORISHITA (2002):

Advantages of Celsior solution in graft preservation from non-heart-beating donors in a canine liver transplantation model.

J Surg Res, 102 (2): 71-6.

OKUMURA, S., Y. TAKEI, S. KAWANO, K. NAGANO, E. MASUDA, M. GOTO, S. TSUJI, T.

MICHIDA, S.S. CHEN, T. KASHIWAGI et al. (1994):

Vasoactive effect of endothelin-1 on rat liver in vivo.
Hepatology, 19 (1): 155-61.

OZIER, Y., A. BRAILLON, C. GAUDIN, D. ROULOT, A. HADENGUE, D. LEBREC (1989):

Hepatic denervation alters hemodynamic response to hemorrhage in conscious rats.
Hepatology, 10 (4): 473-6.

PALMER, R.M.J., A.G. FERRIGE, S. MONCADA (1987):

Nitric oxide release accounts for the biological activity of endothelium-derived relaxing factor.
Nature, 327: 524-526

PANNEN, B.H. (2002):

New insights into the regulation of hepatic blood flow after ischemia and reperfusion.
Anesth Analg, 94 (6): 1448-57.

PANNEN, B.H., M. BAUER (1998):

Differential regulation of hepatic arterial and portal venous vascular resistance by nitric oxide and carbon monoxide in rats.

Life Sci, 62 (22): 2025-33.

PANNEN, B.H., F. AL-ADILI, M. BAUER, M.G. CLEMENS, K.K. GEIGER (1998):

Role of endothelins and nitric oxide in hepatic reperfusion injury in the rat.

Hepatology, 27 (3): 755-64.

PARKS, D.A., S. GELMAN, M. MAZE (1994):

Hepatic physiology,

In: R.D. MILLER (Hrsg.): Anaesthesia. 4. Aufl., Churchill Livingstone: New York, Edinburgh, London, Madrid, Melbourne, Milan, Tokyo, 649-662.

PAULSEN, A.W. (1996):

Hepatic anatomy, physiology and assessment of hepatic function,

In: R.W. BUSUTTIL, G.B. KLINTMALM (Hrsg.): Transplantation of the liver. W.B. Saunders: Philadelphia, London, Toronto, Montreal, Sydney Tokyo, 43-64.

PAULSEN, A.W., G.B. KLINTMALM (1992):

Direct measurement of hepatic blood flow in native and transplanted organs, with accompanying systemic hemodynamics.

Hepatology, 16 (1): 100-11.

PAYEN, D.M., M.D. FRATACCI, P. DUPUY, C. GATECEL, C. VIGOUROUX, Y. OZIER, D.

HOUSSIN, Y. CHAPUIS (1990):

Portal and hepatic arterial blood flow measurements of human transplanted liver by implanted Doppler probes: interest for early complications and nutrition.

Surgery, 107 (4): 417-27.

PESKAR, B.A. (2001):

Derivate des Arachidonsäurestoffwechsels,

In: W. FORTH, D. HENSCHLER, W. RUMMEL, U. FÖRSTERMANN, K. STARKE (Hrsg.):

Allgemeine und spezielle Pharmakologie und Toxikologie. 8. Aufl., Urban & Fischer:

München, Jena, 381-392.

PHANG, P.T., K.F. CUNNINGHAM, J.J. RONCO, B.R. WIGGS, J.A. RUSSELL (1994):
Mathematical coupling explains dependence of oxygen consumption on oxygen delivery in
ARDS.
Am J Respir Crit Care Med, 150 (2): 318-23.

PITTET, J.F., J.S. LACROIX, K. GUNNING, M.C. LAVERRIERE, D.R. MOREL, P.M. SUTER (1990):
Prostacyclin but not phentolamine increases oxygen consumption and skin microvascular
blood flow in patients with sepsis and respiratory failure.
Chest, 98 (6): 1467-72.

PLOEG, R.J., D. GOOSSENS, J.F. MCANULTY, J.H. SOUTHARD, F.O. BELZER (1988):
Successful 72-hour cold storage of dog kidneys with UW solution.
Transplantation, 46 (2): 191-6.

QUIROGA, J, J. PRIETO (1993):
Liver cytoprotection by prostaglandins.
Pharmacol Ther, 58 (1): 67-91.

RAPPAPORT, A.M. (1973):
The microcirculatory hepatic unit.
Microvasc Res, 6 (2): 212-28.

RAPPAPORT, A.M. (1976):
The microcirculatory acinar concept of normal and pathological hepatic structure.
Beitr Pathol, 157 (3): 215-43.

RAPPAPORT, A.M.,J.H. SCHNEIDERMAN (1976):
The function of the hepatic artery.
Rev Physiol Biochem Pharmacol, 76: 129-75.

REINHART, K. (1988):
Zum Monitoring des Sauerstofftransportsystems.
Anaesthetist, 37 (1): 1-9.

REINHART, K., L. HANNEMANN (1995):

O₂-Bilanz, O₂-Transport, O₂-Verbrauch, gemischtvenöse O₂-Sättigung.

In: W.F. LIST, H. METZLER, T. PASCH (Hrsg): Monitoring in Anästhesie und Intensivmedizin. Springer-Verlag: Berlin, Heidelberg, New York, 413-431.

RICHARDSON, P.D., P.G. WITHRINGTON (1978):

Pressure-flow relationships and effects of noradrenaline and isoprenaline on the hepatic arterial and portal venous vascular beds of the dog.

J Physiol, 282: 451-70.

RICHARDSON, P.D., P.G. WITHRINGTON (1979):

Responses of the hepatic arterial and portal venous vascular beds of the dog to intra-arterial infusions of noradrenaline and adrenaline: inhibition of the hepatic arterial vasoconstrictor responses by intraportal infusions of glucagon [proceedings].

Br J Pharmacol, 1979. 66(1): 82P.

RICHARDSON, P.D., P.G. WITHRINGTON (1981 a):

Liver blood flow. I. Intrinsic and nervous control of liver blood flow.

Gastroenterology, 81 (1): 159-73.

RICHARDSON, P.D., P.G. WITHRINGTON (1981 b):

Liver blood flow. II. Effects of drugs and hormones on liver blood flow.

Gastroenterology, 81 (2): 356-75.

RICHTER, S., J. YAMAUCHI, T. MINOR, B. VOLLMAR, M.D. MENGER (2000):

Effect of warm ischemia time and organ perfusion technique on liver microvascular preservation in a non-heart-beating rat model.

Transplantation, 69 (1): 20-4.

ROTHE, C.F.; R. MAASS-MORENO (1998):

Hepatic venular resistance responses to norepinephrine, isoproterenol, adenosine, histamine, and ACh in rabbits.

Am J Physiol, 274 (3 Pt 2): H777-85.

ROTHE, C.F.; R. MAASS-MORENO (2000):

Active and passive liver microvascular responses from angiotensin, endothelin, norepinephrine, and vasopressin.

Am J Physiol Heart Circ Physiol, 279 (3): H1147-56.

RUOKONEN, E., J. TAKALA, A. UUSARO (1991):

Effect of vasoactive treatment on the relationship between mixed venous and regional oxygen saturation.

Crit Care Med, 19 (11): 1365-9.

SCHÖN, M.R., C.J. HUNT, D.E. PEGG, D.G. WIGHT (1993):

The possibility of resuscitating livers after warm ischemic injury.

Transplantation, 56 (1): 24-31.

SCHÖN, M.R., O. KOLLMAR, N. AKKOC, M. MATTHES, S. WOLF, H. SCHREM, M.

TOMINAGA, G. KEECH, P. NEUHAUS (1998):

Cold ischemia affects sinusoidal endothelial cells while warm ischemia affects hepatocytes in liver transplantation.

Transplant Proc, 30 (5): 2318-20.

SCHÖN, M.R., O. KOLLMAR, S. WOLF, H. SCHREM, M. MATTHES, N. AKKOC, N.C.

SCHNOY, P. NEUHAUS (2001):

Liver transplantation after organ preservation with normothermic extracorporeal perfusion.

Ann Surg, 233 (1): 114-23.

SERRACINO-INGLOTT, F., N.A. HABIB, R.T. MATHIE (2001):

Hepatic ischemia-reperfusion injury.

Am J Surg, 181 (2): 160-6.

SHAH, V., F.G. HADDAD, G. GARCIA-CARDENA, J.A. FRANGOS, A. MENNONE, R.J.

GROSZMANN, W.C. SESSA (1997):

Liver sinusoidal endothelial cells are responsible for nitric oxide modulation of resistance in the hepatic sinusoids.

J Clin Invest, 100 (11): 2923-30.

SHIMIZU, H., M. MIYAZAKI, H. ITO, K. NAKAGAWA, S. AMBIRU, A. KATO, Y. NUKUI, S. NOZAWA, N. NAKAJIMA (2001):

Mechanism of cold ischemia-reperfusion-induced graft injury after orthotopic liver transplantation in rats.

Hepatogastroenterology, 48 (37): 216-9.

SHIMOKAWA, H., N.A. FLAVAHAN, R.R. LORENZ, P.M. VANHOUTTE (1988):

Prostacyclin releases endothelium-derived relaxing factor and potentiates its action in coronary arteries of the pig.

Br J Pharmacol, 95 (4): 1197-203.

SIKUJARA, O., M. MONDEN, K. TOYOSHIMA, J. OKAMURA, G. KOSAKI (1983):

Cytoprotective effect of prostaglandin I₂ on ischemia-induced hepatic cell injury.

Transplantation, 36 (3): 238-43.

SMYRNIOTIS, V., G. KOSTOPANGOTOU, A. KONDI, E. GAMALETSOS, K. THEODORAKI, D. KEHAGIAS, K. MYSTAKIDOU, J. CONTIS (2002):

Hemodynamic interaction between portal vein and hepatic artery flow in small-for-size split liver transplantation.

Transpla Int, 15: 355-360.

SOUTHARD, J.H., F.O. BELZER (1995):

Organ preservation.

Annu Rev Med, 46: 235-47.

STEININGER, R., F. MUHLBACHER, R. RAUHS, E. ROTH, W. BURSCH (1988):

Protective effect of PGI₂ and diltiazem on liver ischemia and reperfusion in pigs.

Transplant Proc, 20 (5): 999-1002.

STELTZER, H., M. HIESMAYR, G. TUCHY, M. ZIMPFER (1993):

Perioperative liver graft function: the role of oxygen transport and utilization.

Anesth Analg, 76 (3): 574-9.

STRIEBEL, H.W. (2003):

Spezielle Narkosevorbereitungen, Überwachungsmaßnahmen, Medikamente.

In: H.W. STRIEBEL (Hrsg.), Die Anästhesie. Schattauer: Stuttgart, New York, 401-579.

- SUEMATSU, M., Y. WAKABAYASHI, Y. ISHIMURA (1996):
Gaseous monoxides: a new class of microvascular regulator in the liver.
Cardiovasc Res, 32 (4): 679-86.
- SUMIMOTO, K., K. INAGAKI, K. YAMADA, T. KAWASAKI, K. DOHI (1988):
Reliable indices for the determination of viability of grafted liver immediately after orthotopic transplantation. Bile flow rate and cellular adenosine triphosphate level.
Transplantation, 46(4): 506-9.
- SUMIMOTO, R. N. KAMADA (1990):
Lactobionate as the most important component in UW solution for liver preservation.
Transplant Proc, 22 (5): 2198-9.
- SUMIMOTO, R., J.H. SOUTHERD, F.O. BELZER (1993):
Livers from fasted rats acquire resistance to warm and cold ischemia injury.
Transplantation, 55 (4): 728-32.
- SUZUKI, S., S. NAKAMURA, T. KOIZUMI, S. SAKAGUCHI, S. BABA, H. MURO, Y. FUJISE (1991):
The beneficial effect of a prostaglandin I2 analog on ischemic rat liver.
Transplantation, 52 (6): 979-83.
- SUZUKI, S., L.H. TOLEDO-PEREYRA (1994):
Interleukin 1 and tumor necrosis factor production as the initial stimulants of liver ischemia and reperfusion injury.
J Surg Res, 57 (2): 253-8.
- TAKANO, H., H. MATSUDA, K. KADOMA, H. KAWATA, Y. SAWA, Y. SHIMAZAKI, N. TAENAKA (1994):
Monitoring of hepatic venous oxygen saturation for predicting acute liver dysfunction after Fontan operations.
J Thorac Cardiovasc Surg, 108 (4): 700-8.
- THEWS, G. (2000):
Atemgastransport und Säure-Basen-Status des Blutes.
In: R.F. SCHMIDT, G. THEWS, F. LANG (Hrsg.): *Physiologie des Menschen*. 28. Aufl., Springer-Verlag: Berlin, Heidelberg, New York, London, Paris, Tokyo, 604-623.

- TOKUNAGA, Y., N. OZAKI, S. WAKASHIRO, I. IKAI, T. MORIMOTO, Y. SHIMAHARA, Y. KAMIYAMA, Y. YAMAOKA, K. OZAWA, Y. NAKASE (1987):
Fluorometric study for the noninvasive determination of cellular viability in perfused rat liver.
Transplantation, 44 (5): 701-6.
- TOTSUKA, E., S. TODO, Y. ZHU, N. ISHIZAKI, Y. KAWASHIMA, M.B. JIN, A. URAKAMI, T. SHIMAMURA, T.E. STARZL (1998):
Attenuation of ischemic liver injury by prostaglandin E1 analogue, misoprostol, and prostaglandin I2 analogue, OP-41483.
J Am Coll Surg, 187 (3): 276-86.
- TRANQUILLI, W.J., J.C. THURMON, J. BENSON (1983):
Organ blood flow and distribution of cardiac output in hypocapnic ketamine-anesthetized swine.
Am J Vet Res, 44 (8): 1579-1582.
- TURK, L.N., 3rd, W.C. SHOEMAKER (1962):
Hepatic vascular response to norepinephrine.
Am J Physiol, 202: 1175-8.
- VANE, J.R., R.M. BOTTING (1995):
Pharmacodynamic profile of prostacyclin.
Am J Cardiol, 75 (3): 3A-10A.
- VERMEIJ, C.G., B.W. FEENSTRA, H.A. BRUINING (1990):
Oxygen delivery and oxygen uptake in postoperative and septic patients.
Chest, 98 (2): 415-20.
- VOLLMAR, B., J. GLASZ, R. LEIDERER, S. POST, M.D. MENGER (1994):
Hepatic microcirculatory perfusion failure is a determinant of liver dysfunction in warm ischemia-reperfusion.
Am J Pathol, 145 (6): 1421-31.

VOLLMERHAUS, B., H.ROOS (1996):

Speiseröhre, Magen, Darm, Darmanhangsdrüsen.

In: R. NICKEL, A. SCHUMMER, E. SEIFERLE (Hrsg.): Lehrbuch der Anatomie der Haustiere. Kreislaufsystem, Haut und Hautorgane. 3. Aufl., Bd. 3, Parey Verlag, Berlin, 103-213.

VOLLMAR, B., J. GLASZ, M.D. MENGER, K. MESSMER (1995):

Leukocytes contribute to hepatic ischemia/reperfusion injury via intercellular adhesion molecule-1-mediated venular adherence.

Surgery, 117 (2): 195-200.

WAHLBERG, J.A., J.H. SOUTHARD, F.O. BELZER (1986):

Development of a cold storage solution for pancreas preservation.

Cryobiology, 23 (6): 477-82.

WAHLBERG, J.A., R. LOVE, L. LANDEGAARD, J.H. SOUTHARD, F.O. BELZER (1987 a):

Successful 72 hours' preservation of the canine pancreas.

Transplant Proc, 19 (1 Pt 2): 1337-8.

WAHLBERG, J.A., R. LOVE, L. LANDEGAARD, J.H. SOUTHARD, F.O. BELZER (1987 b):

72-hour preservation of the canine pancreas.

Transplantation, 43(1): 5-8.

WALCHER, F., I. MARZI (1995):

Der Einfluss der Konservierungsbedingungen auf die Reperfusion nach Lebertransplantation.

Anasthesiol Intensivmed Notfallmed Schmerzther, 30 (Suppl 1): 55-7.

WENDT, M., T. HACHENBERG, A. ALBERT, R. JANZEN (1990):

Gemischtvenöse versus zentralvenöse Sauerstoffsättigung in der Intensivmedizin.

Intensivther Notfallmed, 25 (1): 102-6.

WIESEMES, R., J. PETERS (1993):

Stellenwert der gemischtvenösen Sauerstoffsättigung für die perioperative Überwachung und Therapie.

Anasthesiol Intensivmed Notfallmed Schmerzther, 28 (5): 269-78.

YADAV, S.S., D.N. HOWELL, D.A. STEEBER, R.C. HARLAND, T.F. TEDDER, P.A.

CLAVIEN (1999):

P-Selectin mediates reperfusion injury through neutrophil and platelet sequestration in the warm ischemic mouse liver.

Hepatology, 29(5): 1494-502.

YAMAMOTO, H., Y. NIMURA, A. YASUI, S. MORIURA, M. KATO (1992):

Changes in hepatic hemodynamics and oxygen consumption after partial hepatic congestion in dogs.

Eur Surg Res, 24 (3): 169-79.

YANAGISAWA, M., H. KURIHARA, S. KIMURA, Y. TOMOBE, M. KOBAYASHI, Y. MITSUI,

Y. YAZAKI, K. GOTO, T. MASAKI (1988):

A novel potent vasoconstrictor peptide produced by vascular endothelial cells.

Nature, 332 (6163): 411-5.

ZADROBILEK, E., W. MAURITZ, W. FEIL, E. WENZL, P. SPORN (1988):

Hämodynamische und metabolische Änderungen während orthotoper Lebertransplantation.

Anaesthetist, 37 (11): 672-9.

ZHANG, J.X., W. PEGOLI, JR., M.G. CLEMENS (1994):

Endothelin-1 induces direct constriction of hepatic sinusoids.

Am J Physiol, 266 (4 Pt 1): G624-32.

ZHANG, B., D. BORDERIE, P. SOGNI, O. SOUBRANE, D. HOUSSIN, Y. CALMUS (1997):

NO-mediated vasodilation in the rat liver. Role of hepatocytes and liver endothelial cells.

J Hepatol, 26 (6): 1348-55.

ZOBEL, G., D. DACAR, S. RODL, I. FRIEHS (1995):

Inhaled nitric oxide versus inhaled prostacyclin and intravenous versus inhaled prostacyclin in acute respiratory failure with pulmonary hypertension in piglets.

Pediatr Res, 38 (2): 198-204.

ZWACKA, R.M., Y. ZHANG, J. HALLDORSON, H. SCHLOSSBERG, L. DUDUS, J.F. ENGELHARDT (1997):
CD4(+) T-lymphocytes mediate ischemia/reperfusion-induced inflammatory responses in mouse liver.
J Clin Invest, 100 (2): 279-89.