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CLINICAL HEMORHEOLOGY - LITERATURE SURVEY

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ALKHAMIS, T.M.*, BEISSINGER, R.L. and CHEDIAN, J.R. Effect of red blood cells on platelet adhesion and aggregation in low-stress shear flow. **ASAIO Trans.** 33: 636-642, 1987.

Key words: blood viscosity, erythrocytes, platelet aggregation, hemoglobins, stress

Address for reprints: Department of Chemical Engineering, Illinois Institute of Technology, Chicago 60616, USA.

BADIMON, L.*, TURITTO, V., ROSEMARK, J.A., BADIMON, J.J. and FUSTER, V. Characterization of a tubular flow chamber for studying platelet interaction with biologic and prosthetic materials: deposition of indium 111-labeled polytetrafluoroethylene. **J. Lab. Clin. Med.** 110: 706-718, 1987.

Key words: blood platelets, endothelium, polytetrafluoroethylene, rheology
Address for reprints: Division of Cardiology, Mount Sinai School of Medicine, New York, NY 10029, USA.

BLOCK, E.R.* and EDWARDS, D. Effect of plasma membrane fluidity on serotonin transport by endothelial cells. **Am. J. Physiol.** 253: C672-678, 1987.

Key words: membrane fluidity, cholesterol, fatty acids, pulmonary artery
Address for reprints: Research Service, Veterans Administration Medical Center, Gainesville, Florida, USA.

ERNST, E.*, STUMVOLL, M. and MATRAI, A. Blutrheologie bei Ausdauertrainierten: Ergebnisse des Münchner Marathon 1987 (Blood rheology in endurance-trained men: results from the Munich Marathon 1987). **Dtsch. Ztschr. Sportmed.** 38: 47-50, 1987.

Key words: exercise, marathon, oxygen delivery (English abstract)
Address for reprints: Department of Physical Medicine, University of Munich, Ziemssenstr. 1, 8000 Munich 2, FRG.

ERNST, E.* and MATRAI, A. Intermittent claudication, exercise, and blood rheology. **Circulation** 76: 1110-1114, 1987.

Key words: arterial disease, therapy, training, microcirculation
Address for reprints: as above.

ERNST, E.*, MATRAI, A., SIEPMANN, P. and SCHMID, A. Blood rheology of former and active athletes. **J. Sports Med. Phys. Fitn.** 27: 373-375, 1987.

Key words: exercise, oxygen delivery, atherosclerosis
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Key words: blood lipids, fish oil, diet, therapy, atherosclerosis
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ERNST, E.* and MATRAI, A. Effekte von Etofyllinclofibrat auf die Fließeigenschaften des Blutes (Effects of etofylline clofibrate on blood rheology). **Therapiewoche** 38: 136-139, 1988.

Key words: hyperlipoproteinemia, hemorheology, etofylline clofibrate
Address for reprints: as above

GELMINI, G.*, BUTTURINI, L., CUCINOTTA, D., DELSIGNORE, R. and COIRO, V. Whole blood filterability in elderly obese women. **Acta Diabetol. Lat.** 24: 199-203, 1987.

Key words: blood viscosity, diabetes mellitus, erythrocyte deformability, obesity

Address for reprints: Cattedra di Clinica Medica Generale e Terapia Medica, Università degli Studi di Parma, Italy.

JUNG, F.*, KIESEWETTER, H., MOROWIETZ, C., LEIPNITZ, G., BRAUN, B., WAPPLER, M., SCHEFFLER, P. and WENZEL, E. Hemorheological, micro- and macrocirculatory effects of naftidrofuryl in an acute study: a randomized, placebo-controlled, double-blind individual comparison. **Int. J. Clin. Pharmacol. Ther. Toxicol.** 25: 507-514, 1987.

Key words: blood viscosity, hemodynamics, microcirculation, erythrocyte deformability

Address for reprints: Department of Clinical Haemostaseology and Transfusion Medicine, University of the Saarland, Homburg/Saar, FRG.

KLITZMAN, B. Microvascular determinants of blood flow. **J. Reconstr. Microsurg.** 4: 77-80, 1987.

Key words: microcirculation, rheology, vascular resistance, vasodilation
Address for reprints: Plastic Surgery Research Laboratories, Duke University Medical Center, Durham, NC 27719-3906, USA.

KORMOS, R.L.*, BOROVETZ, H.S., GRIFFITH, B.P. and HUNG, T.C. Rheologic abnormalities in patients with the Jarvik-7 total artificial heart. **ASAIO Trans.** 33: 413-417, 1987.

Key words: blood viscosity, erythrocyte indices, hemolysis, rheology
Address for reprints: Department of Surgery, University of Pittsburgh, School of Medicine, PA 15261, USA.

LEVENSON, J.*, SIMON, A.C., CAMBIEN, F.A. and BERETTI, C. Cigarette smoking and hypertension. Factors independently associated with blood hyperviscosity and arterial rigidity. **Arteriosclerosis** 7: 572-577, 1987.

Key words: blood viscosity, hypertension, blood flow velocity, hematocrit
Address for reprints: Centre de Diagnostic and the Unite de Pathologie Renale et Vasculaire (INSERM U-28), Broussais Hospital, Paris, France.

MAEDA, N.*, SEIKE, M., KUME, S., TAKAKU, T. and SHIGA, T. Fibrinogen-induced erythrocyte aggregation: erythrocyte bindings site in the fibrinogen molecule. **Biochim. Biophys. Acta** 904: 81-91, 1987.

Key words: Rouleau formation, fibrinogen, sialic acid, aggregation
Address for reprints: Department of Physiology, Ehime University, Shigenobu, Onsen-gun, Ehime, Japan 791-02.

MAEDA, N.*, SEIKE, M. and SHIGA, T. Effect of temperatur on the velocity of erythrocyte aggregation. **Biochim. Biophys. Acta** 904: 319-329, 1987.

Key words: erythrocyte, aggregation, temperatur dependence, fibrinogen, immunoglobulin G, dextran, poly-(L-glutamic acid)
Address for reprints: as above.

MIRHASHEMI, S.*, MESSMER, K., ARFORS, K.-E. and INTAGLIETTA, M. Microcirculatory effects of normovolemic hemodilution in skeletal muscle. **Int. J. Microcirc.** 6: 359-369, 1987.

Key words: normovolemic hemodilution, microcirculation, red blood cell velocity, capillary hematocrit, red blood cell flux, skeletal muscle.
Address for reprints: Department of Applied Mechanics and Engineering Sciences, Bioengineering, M-005, University of California, San Diego, La Jolla, California 92093, USA.

SCHEFFLER, P.*, JUNG, F., MOROWIETZ, C., WALDHAUSEN, P., LEIPNITZ, G. and HÄUSER, B. Hämorheologische, mikro- und makrozirkulatorische Effekte einer hypervolämischen Infusion mittelmolekularer Hydroxyäthylstärke (10%, 200,000/0,62) bei Gesunden (Hemorheologic, micro- and macrocirculatory effects of hypervolemic infusions of middle molecular weight hydroxyethyl starch (10%, 200,000/0.62) in healthy probands). **Infusionsther. Klin. Ernähr.** 14: 233-238, 1987.

Key words: hemodilution, hydroxyethyl starch, blood flow velocity, microcirculation (English abstract)
Address for reprints: Abteilung für Klinische Hämostaseologie und Transfusionsmedizin, Universität des Saarlandes, Homburg/Saar, FRG.

TRAYKOW, T.T.* and JAIN, R.K. Effect of glucose and galactose on red blood cell membrane deformability. **Int. J. Microcirc.** 6: 35-44, 1987.

Key words: membrane elastic modulus, micropipette aspiration, hyperglycemia, hypothermia, galactose, tumor blood flow, red blood cells
Address for reprints: Department of Chemical Engineering, Carnegie-Mellon University, Pittsburgh, PA 15213, USA.

VERMES, I.*, STEINMETZ, E.T., ZEYEN, L.J. and VAN DER VEEN, E.A. Rheological properties of white blood cells are changed in diabetic patients with microvascular complications. **Diabetologia** 30: 434-436, 1987.

Key words: diabetic angiopathies, diabetes mellitus, rheology

Address for reprints: Department of Clinical Chemistry, H.d.K. Hospital, Oldenzaal, The Netherlands.

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Key words: fetal growth retardation, hypertension, cardiovascular pregnancy complications, rheology (English abstract)

Address for reprints: Klinik für Gynäkologie und Geburtshilfe, Bereich Medizin, Karl-Marx-Universität Leipzig, GDR.

VORONIN, K.V., SERDIUK, V.N., PRIKHOD'KO, I.E. and KALINUSHKIN, E.P. Gemoreologicheskie sdvigi u beremennykh s riskom razvitiia pozdnego toksikoza (Rheological changes in the blood of pregnant women at risk for the development of late toxicosis). **Lab. Delo.** 6: 430-435, 1987.

Key words: blood viscosity, erythrocyte deformability, pregnancy toxemias (English abstract)

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Key words: alcoholism, erythrocyte membrane, membrane fluidity, electron spin resonance

Address for reprints: Geriatric Research, Education, and Clinical Center (GRECC), Veterans Administration Medical Center, St. Louis, Missouri 63125, USA.

YAMAKAWA, T.*, YAMAGUCHI, S., NIIMI, H. and SUGIYAMA, I. White blood cell plugging and blood flow maldistribution in the capillary network of cat cerebral cortex in acute hemorrhagic hypotension: an intravital microscopic study. **Circ. Shock** 22: 323-332, 1987.

Key words: cerebrovascular circulation, leukocytes, hemorrhagic shock, microcirculation

Address for reprints: National Cardiovascular Center Research Institute, Osaka, Japan.