

REFERÊNCIAS BIBLIOGRÁFICAS

- 1- ALLEN, D.W. and JANDL, J.H. - Oxidative hemolysis and precipitation of hemoglobin. II. Role of thiols in oxidant drug action. *J. Clin Invest.* 40:454-75, 1961.
- 2- BALAKRISHNAN, S.; KARTHIKEYAN, S. e RAMU, g. - Investigations into haemolytic effects of Dapsone therapy in leprosy patients. *Ind. J.Med* 61(1): 10-6, 1989.
- 3- BALSAMO, P.; HARDY, W.R. and SCOTT, E.M. - Hereditary methemoglobinemia due to diaphorase deficiency in Navajo Indians *J. Pediat.* 65(6): 928-31, 1964.
- 4- BANZATO, C.E.M. and MAGNA L.A. - In vitro effect of Dapsone on NADH-methemoglobin reductase. *Int. J. Leptr.* 59(3) : 486-7 , 1991.
- 5- BENESCH, E.; BENESCH, R. and YUNG, S. - Equations for the spectrophotometric analysis of hemoglobin mixtures. *Anal. Biochem.* 55: 2458, 1973.
- 6- BERNARD, J.; LÉVI, J.-P.; CLAUVEL, J.-P.; RAIN, J.D. and VARET, B.- Anatomia e fisiologia do eritrócito e da série eritroblástica. In *Manual de Hematologia*. Tradução por Hidelbrando Monteiro Marinho. Livraria Editora Santos : 15-35, 1989. Tradução de Abrégé d' Hématologie- 3ª edição Paris 1976.
- 7- BEUTLER, E. and BALUDA, M.C. - The role of methemoglobin in oxidative degradation of hemoglobin. *Acta Haemat.* 27(6): 321-33, 1962.
- 8- _____ and _____ - Metemoglobin reduction. Studies of the interaction between cell populations and of the role of methylene blue. *Blood* 22(3): 323-33, 1963.
- 9- BEUTLER, E.; WEST, C. and BLUME, K.G. - The removal of leukocytes and platelets from whole blood. *J. Lab. Clin. Med* 88(2): 328-33, 1976.

- 10- BLOOM, G.E. and ZARKOWSKY, H.S. - Heterogeneity of the enzymatic defect in congenital methemoglobinemia. *New Eng. J Med* 281(17): 919-22, 1969.
- 11- BORGESSE, N.; PIETRINI, G and GAETANI, S.- Concentration of NADH-cytochrome *b₅* reductase in erythrocytes of normal and methemoglobinemic individuals measured with a quantitative radioimmunoblotting assay. *J. Clin. Invest.* 80(5): 1296-302, 1987, Nov.
- 12- BUNN, H.F. - Distúrbios da hemoglobina - Metemoglobinemia- In *Medicina Interna* - HARRISSON, T.R. - volume 2 , 13ª Edição, Cap.306: 1823-4, 1995, Editora Mc Graw Hill- Interamericana.
- 13-CAMPBELL, J.M. and CAMPBELL, J B - Cálculo baseado no coeficiente de extinção molar de um produto de reação com absorvância. In - *Matemática de Laboratório- Cálculo de enzimas aplicações médicas e biológicas.* 3ª Edição- Livraria Roca Ltda São Paulo- S.P. página 214;1986.
- 14- CATICHA-ALFONSO, O.S.; MAGNA, L.A. e BEIGUELMAN, B. - NADH-redutase de metemoglobina e reticulocitose. *Ciência e Cultura* 37(2) : 280-3, 1985.
- 15- CHISHOLM, D.G. and Stuart, H. - Congenital methaemoglobinaemia detected by preoperative pulse oximetry. *Can. J Anaesth.* 41(6): 519-22, 1994.
- 16- CHOURY, D.; LEROUX, A and KAPLAN, J-C. - Membrane-bound cytochrome *b₅* reductase (methemoglobin reductase) in human erythrocytes. *J Clin. Invest.* 67: 149-51, 1981.
- 17- COHEN, G. and HOCHSTEIN, P. - Generation of hydrogen peroxide in erythrocytes by hemolytic agents. *Biochemistry* 3(7): 895-900, July 1964.
- 18- CONROY, J.M.; BAKER, J.D.; MARTIN, W.J.; BAILEY, M.K. and DORMAN, B. H. - Acquired methemoglobinemia from multiple oxidants. *Southern Med Journ.* 86(10): 1156-9, 1993.

- 19-CREAM, J.J. and SCOTT, G.L. - Anaemia in dermatitis herpetiformis. The role of Dapsone- induced haemolysis and malabsorption. *Br. J. Derm.* 82: 333-42, 1970.
- 20- DETTER, J.C.; ANDERSON, J.E. and GIBLETT, E.R.- NADH Diaphorase: An inherited variant associated with normal methemoglobin reduction. *Am. J. Hum. Genet.* 22:100-4, 1970.
- 21- DODGE, J.T.; MITCHELL, C. and HANAHAN, D.J. - The preparation and characteristics of hemoglobin-free ghost of human erythrocytes. *Arch. Biochem. Biophys.* 100(1): 119-30, 1963.
22. EDELHOCH, H.; HAYAISHI, O. and TEPLY, L.J. - The preparation and properties of a soluble diphosphopyridine nucleotide cytochrome c reductase. *J. Biol. Chem.* 197(1): 97-104, 1952.
23. ENOMOTO, K-I. and SATO, R. - Assymmetric binding of cytochrome *b₅* to the membrane of human erythrocyte ghosts. *Biochim. Biophys. Acta* 466: 136-47, 1977.
24. EVELIN, K.A. and MALLOY, H.T. - Microdetermination of oxyhemoglobin, methemoglobin and sulfhemoglobin in a single sample of blood. *Journal of Biological Chemistry*, 126: 655-62, 1938.
25. FEIG, S.A; NATHAN, D.G.; GERALD, P.S. AND ZARKOWSKI, H.S. : Congenital methemoglobinemia- the result of age-dependent decay of methemoglobin reductase. *Blood* 39: 407, 1972.
26. FINCH, C. A. - Methemoglobinemia and sulfhemoglobinemia. *The New Engl. J. of Med.* 239(13) : 470-8, 1948.
27. FISHER, R.A.; POVEY, S.; BOBROW, M.; SOLOMON, E.; BOYD, Y. and CARRITT, B. - Assignment of the *DLAL* locus to chromosome 22. *Ann. Hum. Genet., Lond.* 41: 151-5, 1977.

- 28- HAFSIA, R; MEDDEB, B.; MTIMET, B.; HAFSIA, A.; GALACTEROS, F.; KAPLAN, J.C. and BOUSSEN, M. - Congenital cyanosis due to methemoglobin reductase deficiency: first reported Tunisian case. *Now. Rev. Fr. Hematol.* 31(5): 371-3, 1989.
- 29- HARLEY, J.D. and MAUER, A.M. - Studies on the formation of Heins bodies. I. Methemoglobin production and oxyhemoglobin destruction. *Blood* 16(6) : 1722-35, 1960.
- 30- _____ and _____ - Studies on the formation of Heins bodies. II. The nature and significance of Heins bodies. *Blood* 17(1) : 418-33, 1961.
- 31- HEGESH, E.; CALMANOVICI, N. and AVRON, M. - New method for determining ferrihemoglobin reductase (NADH-Methemoglobin Reductase) in erythrocytes. *J. Lab & Clin. Med.* **72 (1)** :339- 44, 1968.
- 32- HEGESH, H.; CALMANOVICHI, N.; LUPO, M. and BOCHKOWSKY R. - The diaphorase bands of human erythrocytes. *J Lab. Clin. Med* 77: 859-66, 1971.
- 33- HEGESH, E.; HEGESH, J. and KAFTORY, A. - Congenital methemoglobinemia with a deficiency of cytochrome *b₅*. *New Engl. J. Med* 314(12): 757-61, 1986.
- 34- HENRY, J.B. - Hemoglobina. In: TODD; SANFORD; DAVIDSON *Diagnósticos Clínicos e Conduta Terapêutica por Exames Laboratoriais. 16a edição, Volume I: 946-54, Editora Manole Ltda, 1982.*
- 35- HOFFBRAND, A.V. e PETTIT, J.E. - *Hematologia clínica ilustrada-* Manual e atlas colorido- Editora Manole Ltda, pag. 4.6-7, 1991.
36. HUENNEKENS, F.M.; CAFFREY, RW.; BASFORD, RE and GABRIO, B.W. - Erythrocyte metabolism IV. Isolation and properties of methemoglobin reductase. *J. Biol. Chem.* 227: 261-72, 1957.
37. JABLONSKA-SKWIECINSKA, E.; WIERZBICKA, M and KUBICKA, K. - Cyanosis in children caused by inherited methemoglobinemia due to deficiency

of NADH-dependent methemoglobin reductase in erythrocytes. *Pediatr. Pol.* 64(1): 53-9, 1989.

- 38- JAFFÉ, E.R. - Hereditary methemoglobinemias associated with abnormalities in the metabolism of erythrocytes. *Am. J. Med.* 41:786-98, 1966.
- 39- _____ - The reduction of methemoglobin in human erythrocytes incubated with purine nucleosides.1 *Clin. Invest.* 38: 1555-63, 1959.
- 40- JAFFÉ, E.R.; NEUMANN, R.M.; ROTHBERG, H.; WILSON, F.T.; WEBSTER, R.M. and WOLFF, J.A. - Hereditary methemoglobinemia with and without mental retardation. *Am. J. Med* 41: 42-55, 1966.
- 41- JANDL, J.H.; ENGLE, L.K and ALLEN, D.W. - Oxidative hemolysis and precipitation of hemoglobin. I.- Heinz body anemias as an acceleration of red cell aging. *J. Clin. Invest.* 39: 1818-36, 1960.
- 42- KAPLAN, J-C. and BEUTLER, E. - Electrophoresis of red cell NADH- and NADPH-diaphorases in normal subjects and patients with congenital methemoglobinemia. *Biochem. Biophys. Res. Commun.* 29(4): 605-10, 1967
- 43- KITAJIMA, S.; YASUKOCHI Y. and MINAKAMI, S. - Purification and properties of human erythrocyte membrane NADH-cytochrome b₅ reductase. *Arch. Biochem. Biophys.* 210(1): 330-9, 1981.
- 44- KITAO, T.; SUGITA, Y.; YONEYAMA, Y and HATTORI, K.- Methemoglobin reductase (cytochrome b₅ reductase) deficiency in congenital methemoglobinemia. *Blood* 44(6): 879-84, 1974.
- 45- KUEH, Y.K.; CHIO, L.F. and GUAN, R. - Congenital enzymopenic methaemoglobi-naemia. *Ann. Acari Med Singapore* 15(2): 250-4, 1986.
- 46- KUMA, F.; ISHIZAWA, S.; HIRAYAMA, K and NAKAJIMA, H. - Studies on methemoglobin reductase. I- Comparative studies of diaphorases from normal and methemoglobinemic erythrocytes. *J. Biol. Chem.* , 247(2):550-5, 1972.

- 47- KUMA, F.; PROUGH, RA. and MASTER, B. S. S. - Studies on methemoglobin reductase. Immunochemical similarity of soluble methemoglobin reductase and cytochrome *b*₅ of human erythrocytes with NADH-cytochrome *b*₅ reductase and cytochrome *b*₅ of rat liver microsomes. *Arch. Biochem. Biophys.* 172: 600-7, 1976.
- 48- LEROUX, A.; JUNIEN, C.; KAPLAN, J.-C. and BAMBERGER, J. - Generalised deficiency of cytochrome *b*₅ reductase in congenital methaemoglobinaemia with mental retardation. *Nature* 258(18): 619-20, 1975.
- 49- LEROUX, A.; TORLINSKI, L. and KAPLAN, J.C. - Soluble and microsomal forms of NADH-cytochrome *b*₅ reductase from human placenta: Similarity with NADH-methemoglobin reductase from human erythrocytes. *Biochim. Biophys. Acta* 481: 50, 1977.
- 50- MAGNA L. A. and BEIGUELMAN, B. - NADH- Methemoglobin reductase and methemoglobinemia among leprosy patients. *Mt. J. Lepr.* 52(4): 475-81, 1984.
51. MARCHESI, S.L.; STEERS, E.; MARCHESI, V.T. and TILLACK, T.W. - Physical and chemical properties of a protein isolated from red cell membranes. *Biochemistry* 9(1): 50-7, 1970.
52. MATSUKI, T.; TAMURA, M.; TAKESHITA, M. and YONEYAMA, Y. - Age-dependent decay of cytochrome *b*₅ and cytochrome *b*₅ reductase in human erythrocytes. *Biochem. J.* 194: 327-30, 1981.
53. MELDOLESI J.; CORTE, G.; PIETRINI, G. and BORGESE, N. - Localization and biosynthesis of NADH-cytochrome *b*₅ reductase, an integral membrane protein, in rat liver cells. *J. Cell Biol.* 85: 516-26, 1980.
54. MIHARA, K.; SATO, R.; SAKAKIBARA, R. and WADA, H. - Reduced Nicotinamide Adenine Dinucleotide-cytochrome *b*₅ reductase: Location of the hydrophobic, membrane-binding region at the carboxyl-terminal end and the masked amino terminus. *Biochemistry* 17(14): 2829-34, 1978.

- 55- MILLER, A. and SMITH, H.C. - The intracellular and membrane effects of oxidant agents on normal red cells. *British Journal of Haematology* 19: 417-28, 1970.
- 56- MILLS, G.C. and RANDALL, H.P. - Hemoglobin catabolism- II. The protection of hemoglobin from oxidative breakdown in the intact erythrocyte. *J. Biol. Chem.* 232: 589- 98, 1958.
- 57- MOLESWORTH, B.D. and NARAYANASWAMI, P.S. - The treatment of lepromatous leprosy with 4,4'-Diaminodiphenyl Sulfone in oil. Findings in 100 cases treated for one year, with a note on the technique of sulfone determinations by I.A. Simpson. *Int. J. Lepr.* 17(3):197-210, 1949.
- 58- NORDEEN, S.K.; LOPES BRAVO, L and SUNDARESAN, T.K. - Mise au point - nombre estimatif de cas de lèpre dans le monde. *Acta Lepr.* 8(3): 121-5, 1993.
- 59- ORGANIZACION MUNDIAL DE LA SALUD- Una guía para el control de la lepra, 1988. Ministerio de Sanidad Y Consumo, Espanha.
- 60- PANIN, G.; PERNECHELE, M.; GIURIOLI, R; SECCHIERI, S.; MILANESI, O.; PELLEGRINO, P.A and CHIANDETTI, L. - Cytochrome *b*₅ reductase activity in erythrocytes and leukocytes as related to sex and age. *Clin. Chem.* 30(5): 701-3, 1984.
- 61- PASSON, P.G. and HULTQUIST, D.E. - Soluble cytochrome *b*₅ reductase from human erythrocytes. *Bioch. Biophys. Acta* 275: 62-73, 1972.
- 62-PETRAGNANI, N.; NOGUEIRA, O.C. and RAW, I. - Methemoglobin reduction through cytochrome *b*₅ reductase. *Nature*, 184:1651, 1959.
- 63-RAPAPORT, S.I.- Hemoglobinopatias e síndromes talassêmicas. In : *Introdução à Hematologia*. Editora Harper & Row do Brasil Ltda, 5º capítulo: 54-70, 1978.
- 64- _____ - Metemoglobinemia . In: *Introdução à Hematologia*. Editora Harper & Row do Brasil Ltda, 5º capítulo: 109-10, 1978.

- 65 - RASBRIDGE, M.R. and SCOTT, G.L. - The haemolytic action of Dapsone : The Effect on Red-Cell Glycolysis . *Brit. J. Haemat.* 24:169-81, 1973.
- 66- RIEDER J. - Quantitative determination of the bacteriostatically active fraction of sulfonamides and the sum of their inactive metabolites in the body fluids. - *Chemotherapy* 17: 01-21, 1972.
- 67- ROSS, J.D. - Deficient activity of DPNH-dependent methemoglobin diaphorase in cord blood erythrocytes. *Blood* 21 (1) : 51-62, 1963.
- 68- ROSS, J.D. and DESFORGES, J.F. - Reduction of methemoglobin by erythrocytes from cord blood. *Pediatrics* 23: 718-26 , 1959.
- 69- SCHRIER, S.L. - Red cell membrane biology- In: *Clinics in Hematology* 14(1): 112, 1985.
- 70- SCHWARTZ, J.M. and JAFFÉ, E.R. - Hereditary methemoglobinemia with deficiency of NADH-dehydrogenase. In: *The Metabolic Basis of Inherited Disease*(Stanbury, J.B.; Wyngaarden, J.B. & Fredricson, D.S. eds) 4a. edição., McGraw-Hill, Inc., New York 1452-64, 1978.
- 71- SCHWARTZ, J.M.; PARESS. P.S.; ROSS, J.M.; DIPILLO, F. and RIZEK R. - Unstable variant of NADH-methemoglobin reductase in Puerto Ricans with hereditary methemoglobinemia. *J. Clin. Invest.* 51: 1594-601, 1972.
- 72- SCHWARTZ, J.M.; REISS, A.L. and JAFFÉ, E.R. - Hereditary methemoglobinemia with deficiency of NADH-cytochrome *b*₅ reductase. In: *The Metabolic Basis of Inherited Disease*(Stanbury, J.B.; Wyngaarden, J.B. & Fredricson, D.S. eds), McGraw-Hill, Inc., New York 1654-65, 1983.
- 73- SCOTT, E.M. - The relation of diaphorase of human erythrocytes to inheritance of methemoglobinemia. *J. Clin. Invest.* 39: 1176-9, 1960,
- 74- _____ - A comparison of two methods of DPNH-methemoglobin reductase. *Clin. Chim. Acta* 23: 495-8, 1969.

- 75- SCOTT, E. M.; DUNCAN, I.W. and EKSTRAND, V. - The reduced pyridine nucleotide dehydrogenases of human erythrocytes. *J. Biol. Chem.*,240(1): 4815, 1965.
76. SCOTT, E.M. and GRIFFITH, I.V. - The enzymic defect of hereditary methemoglobinemia- diaphorase (Preliminary notes). *Biochem. and Biophys. Acta* 34: 584-6, 1959.
77. SCOTT, E.M. and HOSKINS, D.D. - Hereditary methemoglobinemia in Alaskan Eskimos and Indians. *Blood* 13(7) : 795-802, 1958.
78. SCOTT, E.M. and MCGRAW, J.C. - Purification and properties of diphosphopyridine nucleotide diaphorase of human erythrocytes. *J. Biol. Chem.* 237(1): 249-52, 1962.
79. SIMPSON, I. A. - Appendix. Method of sulfone estimations. *Int. J. of Lepr.* 17(3): 208- 10, 1949.
80. SOCIEDADE BRASILEIRA DE HEMATOLOGIA E HEMOTERAPIA (ed.), São Paulo. Enzimopatias eritrocitárias. In : *Manual de Técnicas e Recomendações Hematológicas*. Cap III (B): 125-23, 1975.
- 81- SPATZ, L. and STRITTMATTER, P. - A form of reduced nicotinamide adenine dinucleotide-cytochrome *b5* reductase containing both the catalytic site and an additional hydrophobic membrane-binding segment. *J. Biol. Chem.* 248(3): 793-9, 1973.
- 82- STECK, T.L. and KANT, J.A. - Preparation of impermeable ghost and inside-out vesicles from human erythrocyte membranes.In: *Methods in Enzymology* Volume 31: Biomembranes, Part A. Fleischer. S. and Parker, L. eds. New York: Academic Press, 1974, pags. 172-80.
- 83- SUGITA, Y.; NOMURA, S. and YONEYAMA, Y. - Purification of reduced pyridine nucleotide dehydrogenase from human erythrocytes and methemoglobin reduction by the enzyme. *J. Biol. Chem.* 246(19): 6072-78, 1971.

- 84- TANISHIMA, K.; MATSUKI, T.; FUKUDA, N.; TAKESHITA, M and YONEYAMA, Y. - NADH- cytochrome *b₅* reductase in platelets and leukocytes with special reference to normal levels and to levels in carriers of hereditary methemoglobinemia with or without neurological symptoms. *Acta Haemat.* 63: 07-12, 1980.
- 85- TANISHIMA, K.; TANIMOTO, K.; TOMODA, A.; MAWATARI, K.; MATSUKAWA, S.; YONEYAMA, Y.; OHKUWA, H and TAKAZAKURA, E. - Hereditary methemoglobinemia due to cytochrome *b₅* reductase deficiency in blood cells without associated neurologic and mental disorders. *Blood* 66(6): 1288-91, 1985.
- 86- TOMODA, A.; IDA, M.; TSUJI, A. and YONEYAMA, Y. - Mechanism of methaemoglobin reduction by human erythrocytes. *Biochem. J.* 188(2): 535-40, 1980.
- 87- VAN ASSENDELFF, O.W. and ZIJLSTRA, W.G. - Extinction coefficients for use in equations for the spectrophotometric analysis of hemoglobin mixtures. *Anal. Biochem.* 69: 43-8, 1975.
- 88- VIVES-CORRONS, J.L.; PUJADES, A.; VELA, E.; CORRETGER, J.M.; LEROUX, A. and KAPLAN, J.C. - Congenital methemoglobin-reductase (cytochrome *b₅* reductase) deficiency associated with mental retardation in a spanish girl. *Acta Haemat.* 59: 348-53, 1978.
- 89- ZAMUDIO, I. and CANESSA, M. - Nicotinamide-adenine-dinucleotide dehydrogenase activity of human erythrocyte membranes. *Biochim. Biophys. Acta* 120: 165-9, 1966.
- 90- ZAMUDIO, I.; CELLINO, M. AND CANESSA-FISCHER, M. - The relation between membrane structure and NADH:(acceptor) oxidoreductase activity of erythrocyte ghosts. *Arch. Biochim. Biophys.* 129: 336-45, 1969.
- 91- ZERES, C.R.; LACHANT, N.A. and TANAKA, K.R.- Impaired erythrocyte methemoglobin reduction in sickle cell disease: Dependence of methemoglobin reduction on reduced nicotinamide adenine dinucleotide content *Blood* 76(5): 1008-14, 1990.