



REFERENCES

- Ahlfors, C.E. (a) (2001):** Bilirubin-Albumin binding and free bilirubin. J Perinatal; 21 suppl 1:s40-2: Discussion s59-62
- Akamni, O.; Oseni, A.; Agbona, O.; Tijani, E, Tosan, E.; Fakunle, E. and Mabayoje, O. (2010):** Glucose – 6 – phosphate dehydrogenase deficiency in blood donors and jaundiced neonates in Osogbo Nigeria. Journal medical laboratory and diagnosis, (1)1-12
- Akhter, N.; Begum, N.; Ferdousi, S. and Khan, W.A. (2009):** Glucose-6-Phosphate Dehydrogenase (G6PD) Status in Neonatal Jaundice and Its Relationship with Severity of Hyperbilirubinemia. J Bangladesh Soc Physiol. Dec; 4(2):71-76.
- Alex, M. and Gallant, D.P. (2008):** Toward understanding the connections between infant jaundice and infant feeding. Journal of Pediatric Nursing. 23,(6): 429-438.
- Ali Aycicek, Ozcan Erel, (2007):** Total oxidant / antioxidant status in jaundiced newborns before and after phototherapy. J. Pediatr. (Rio J.) vol. 83 no. 4 Porto Alegre July / Aug.
- Alitguzel, Y and A slan, M (2004):** N. acetyl cysteine, L-cysteine and β -mercaptoethanol augment selenium glutathione peroxides activity in glucose – 6 – phosphate dehydrogenase deficient human erythrocytes. Clinical and Experimental Medicine, 4 (1) 50-55. lular Hercules. Hepatology; 37 (4): 742
- American Academy of pediatrics (2004):** classification of



recommendations for clinical practice guidelines, *Pediatrics*; 112(6):1776-1782.

American Academy of pediatrics (2005): Management of hyperbilirubinemia in newborns infant 35 or more weeks gestational age. *Pediatrics*;114(8);297-316.

American Academy of Pediatrics, provisional committee for quality improvement and subcommittee on hyperbilirubinaemia (1994): Practice parameter: management of hyperbilirubinaemia in the healthy term newborn . *Pediatrics* 94: 558-62.

Ariel, A.; Jorge, S.; Claudia, V.; Cartos, A.; Valeria, Q and Amed, S. (2009): Significant weight loss in breastfed term infants readmitted for hyperbilirubinemia. *BMC pediatrics*, 9:82-91

Aspberg, S.; Dahlquist, G.; Kahan, T. and Kallen, B. (2007): Is phototherapy associated with an increased risk for hospitalized childhood bronchial asthma. *Allergy Immunol*;18:313-9.

Aust, S.D.; Chignell, C.F. and Bray, T.M. (1993): Free radicals in toxicology. *Toxicol Appl Pharmacol*; 120:168-78.

Aydin, A.; Sayal, and A. Ismer, A. (1997): Plasma glutathione peroxidase activity and selenium levels of newborns with jaundice. *Biol. Trace Element. Res.* 58: 85-90.

Ayyash, H.; Hadjigeorgiou, E. and Sofatzis, J. (1987): Green light phototherapy in newborn infants with ABO hemolytic jaundice, *J Pediatr*.111:882.

Balistreri, W.F. (2008): Pediatric hepatology. A half century of



progress.Clinic.liver Dis. In Nelson Textbook of pediatrics Philadelphia ;18th ed. partXVII chapter 352,page 144.

Bandra, M.J.; van Bel, F. and Van de Bor, M. (1999): Hemodynamic consequences of phototherapy in term infants. Eur J Ped.Apr; 158(4): 323-8.

Baranano, D.E.; Rao, M. and Ferris, C.D. (2002): Biliverdin reductase: A major physiologic cytoprotectant. Proc. Natl Acad Sci; 99:16093-98.

Barsotti, M. (2004): Hyperbilirubinaemia. In: a Lange clinical manual Neonatology: management, procedures, on-call problems, diseases and drugs (Eds.) by Gomella TL. 5th Ed. Appleton& Lange: Stamford Pp 247-253.

Behrman RE, Kilegman RM, Johnson HB.,(2008):Jaundice and hyperbilirubinemia, In Nelson WE, BehermanRE, Kilegman RM and Arvin AM ed., Nelson textbook of Pediatrics 18th ed. Philadelphia,Saundera:511-528.

Belanger, S.; Lavoie, J.C.; and Chessex, P. (1997): Influences of bilirubin on the antioxidant capacity of plasma in newborn infants. Biol. Neoate;71:233-8.

Berg, C.L.; Crawford, J.M. and Gollan, J.L. (2004): Bilirubin metabolism and the pathophysiology of jaundice. In: Schiff,s Diseases of the liver. (Eds.) by Schiff ER, Sorrell MF and Maddrey WC. 9th Ed. Lippicott-rover. Philadelphia. Pp 147-160.

Betteridge, D.J. (2000): what is Oxidative stress? Metabolism; 49(1-2): 3-8.



Bezerra, J.A. and Balistreri, W.F. (2008): Cholestatic syndromes of infancy& childhood SemibGastrointestinal Dis, :In Nelson Textbook of pediatrics 18th ed. Philadelephia; part XVII chapter 352,page 143

Bhutani VK, Johnson L, Sivieri EM. (1999) Predictive ability of a predischarge hour-specific serum bilirubin for subsequent significant hyperbilirubinemia in healthy term and near-term newborns. *Pediatrics.*;103:6 –14

Bhutani, V.K. and Johnson, L. (2009): A proposal to prevent severe neonatal hyperbilirubinemia and kernicterus. *Journal of Perinatology.* 29:S61-S67.

Bhutani, V.K.; Crossely, G.R. and Adler, S. (2001): Non-invasive measurement of total serum bilirubin in a multiracial predischarge newborn to assess the risk of severe hyperbilirubinemia. *Pediatrics*; 106(2): e17.

Bhutani, V.K; Johnson, L. and Keren, R. (2004): Diagnosis and management of hyperbilirubinemia in the term neonate :for a safer first week, *Pediatric Clinc. N Am*;51:843-861..

Brucci, R.; Buonocore, G.; Talluri, B. and Berni, S. (1988): Neonatal hyperbilirubinemia. Evidence for a role of the erythrocyte enzyme activities involved in the detoxification of oxygen radicals. *Acta Paediatr Scand* 77:349.

Buddi, R.; Lin, B.; Atilano, S.R.; Zorapapel, N.C.; Kenney ,M.C. and Brown, D.J. (2002): Evidence of oxidative stress in human corneal diseases. *J. Histochem. Cytochem.* 50 (3): 341-51.



- Buonocore, G.; Perrone, S. and Bracci, R. (2001):** Free radicals and brain damage. *Biol Neonate*; 79:180-6.
- Camilia, R.M. and Clohert, J.P.(2003):** Neonatal hyperbilirubinemia, In Cloherty JP, Eichenwald EC and Stark AR(eds), *Manual of neonatal care* 5th ed, Lippincott-Ravrn Philadelphia;5(18):185-220.-model .*Pediatrics*; 112:1204-1273.
- Cappellini, M.D. and Fiorelli, G. (2008):** Glucose-6-phosphate dehydrogenase deficiency. *Lancet* 371 (9606): 64-74.
- Chen, H.N.; Lee, M.L. and Tsao, L.Y. (2008):** Exchange transfusion using peripheral vessels is safe and effective in newborn infants. *Pediatrics*; 122: e905-e910.
- Chowdhury, R.; Yang, L.; Chowdhury, J.; et al., (2007):** Bilirubin metabolism. In: Joan Rodes (eds). *Text book of Hepatology from Basic Science to Clinical Practice*, 3rd edition. Blackwell publishing; 165-174.
- Chung, M. and Kulig, J. (2004):** An Evidence –based review of important issues concerning neonatal yperbilirubinemia, *Pediatrics*; 113(6):644
- Colletti, J.; Kothori, S; Jakson, D.; Kilgore, K. and barring, K. (2007):** An emergency medicine approach to neonatal hyperbilirubinemia. *Emerge Med North Am*, 25 (4): 1117-1135.
- Corpas et al.; Barroso, J.B.; Carreras, A.; Valderrama, R.; Palma, J.M; León, A.M.; Sandalio, L.M.; Del and Río. L.A. (2006).** "Constitutive arginine-dependent nitric oxide synthase activity in



different organs of pea seedlings during plant development".
Planta 224 (2): 246–54.

Corpas, F.J. et al. (1998): Adehydrogenase-mediated recycling system of NADPH in plant peroxisomes". *Biochem. J.* 330 (7): 777-784.

Cremer, R.J.; Perryman, P.W. and Richards, D.H. (1958): Influence of light on the hyperbilirubinemia of infants, *Lancet* 1:1094-7.

Crescentini, A.; Motz, E.; Lizzo, S.; Russo, A. and Baroli, E. (1997): Total radical trapping antioxidant parameter in non insulin dependent diabetes mellitus patients. *Diabetic care*; 20 (2): 194-7.

Csoma, Z.; Henz, P.; Orvosh, et al.; (2007): Neonatal blue light phototherapy could increase the risk of dysplastic nevus development. *Pediatrics*; 119:1036-7.

Dahlquist, G. and Kallen, B. (2003): Indications that phototherapy is a risk factor for insulin-dependant diabetes mellitus, *Diabetes care*; 26:247-8.

Dani, C.; Cecchi, A. and Bertini, G. (2004): Role of oxidative stress as physiopathologic factor in the preterm infant. *Minerva Pediatr*; 56(4): 381-94.

Dani, C.; Martelli, E. and Bertini, G. (2003): Plasma bilirubin level and oxidative stress. In preterm infants. *Arch Dis Child Fetal Neonatal*; 88(4): 119-123

Davis, J.M. and Rosenfeld, W. (1999): Chronic lung disease. In: Avery GB, Fletcher MA and MacDonald MD (eds). *Neonatology* (5th ed). Philadelphia, Pa: Lippincott: 509-32.



- Davutoglu, M.; Guler, E, Olgar, S., Kurutas E.; Karabiber, H. Garipardic, M. and E kerbicer, H. (2008):** Oxidative stress and antioxidant status in neonatal hyperbilirubinemia. *Sudi Med Jour*, 29 (12) : 1743-8.
- De Carvalho, M. De Carvalho, D. Trzmielina, S. Lopes, J.M. and Hansen, T.W. (1999):** Intensified phototherapy using daylight fluorescent lamps. *Acta Pediatr Jul*; 88(7):768-71
- De La Rosa, L.C. (2006):** Mechanisms of oxidative stress-induced cell death in hepatocytes: Targets for protective intervention. *J. Hepatol*; 44(5): 918-29.
- Deicher, R. and Horl, W.H. (2003):** Vitamin C in chronic kidney disease and hemodialysis patients. *Kidney Blood Press Res*; 26 (2): 100-6.
- Del Rio, D.; Stewart, A.J. and Pellegrini, N. (2005):** "A review of recent studies on malondialdehyde as toxic molecule and biological marker of oxidative stress". *Nutr Metab. Cardiovasc Dis.* 15 (4): 316-28.
- Dennery, P.A.; Seidman, D.S. and Stevenson, D.K. (2001):** Neonatal hyperbilirubinemia. *N Engl. J Med*; 344: 581-90.
- Dessy, C.; Ferron, O. (September 2004):** "Pathophysiological Roles of Nitric Oxide: In the Heart and the Coronary Vasculature". *Current Medical Chemistry – Anti-Inflammatory & Anti-Allergy Agents in Medicinal Chemistry (Bentham Science Publishers Ltd.)* 3 (3): 207–216. ISSN 1871–5230.



- Djordjevic, A.; Spasic, S.; Jovanovic-Galovic, A.; Djordjevic, R. and Grubor-Lajsic, G. (2004):** Oxidative stress in diabetic pregnancy: SOD, CAT and GSH-Px activity and lipid peroxidation products. The journal of Maternal-Fetal and Neonatal Medicine, 16:367-72.
- Donate, T.; Herreros, A.; Martinez, E.; Andres, E.; Cabezas, A.; Ortiz, A.; dePrado, A.; Pou, J.M.; Pamplona, R.; Portero Otin, M. and Bellmunt, M.J. (2002):** Protein oxidative Stress in dialysis patients. Adv Perit Dial; 18:15-7.
- Doumas, B.; Lo, S. and Ashwood, E. (2004):** Performance of bilirubin determination in US laboratories-revisited, Clin. Chem. 50:190-194
- Ebbesen, F.; Rasmussen, L.M. and Winberley, P.D. (2002):** A new transcutaneous bilirubinometer, bilicheck, used in the neonatal intensive care unit and the maternity ward, Acta. Paediatrics;91:203-211
- Enver Atay, Abdulkadir Bozaykut, and Ilke Ozahi Ipek (2005):** Glucose-6- phosphate Dehydrogenase Deficiency in Neonatal Indirect Hyperbilirubinemia. Journal of tropical pediatrics (Vol. 52,No.1).
- Eric, A.; Brown, A.K.; Ken, M.H and Wu Py Bryla, DA.(2003):** Efficacy of phototherapy in prevention and management of hyperbilirubinemia. Pediatric;75(3):393-400.
- Essaway, M.; El-Gamal, Y.; Galila, M.; et al., (1990):** LASER photoradiation therapy in neonatal hyperbilirubinemia, The Egyptian J.Pediatric.vol.7,No.3-4p:379.



- Farmer, E.E. and Davoine, C. (2007):** "Reactive electrophile species".
Curr. Opin. Plant Biol. 10 (4): 380-6.
- Faure, P.; Troncy, L.; Lecomte, M.; Wiernsperger, N.; Lagarde, M.;
Ruggiero, D. and Halimi, S. (2005):** Albumin antioxidant
capacity is modified by methylglyoxal. J. Diabetes Metab; 31 (2):
169-77.
- Frank DeRosa, Larry, K.; Keefer, and Joseph, A. (2008): Hrabie J.**
Org. Chem. Nitric Oxide Reacts with Methoxide 73, 1139–1142
- Gartner, L.M. (2001):** Breast-feeding and Jaundice. J Perinatal. Dec. 21
Suppi 1: S25-9; discussion S3 5-9.
- Gathwala, G. and Sharma, S. (2000):** Oxidative stress, phototherapy and
the neonate. Indian J. Pediatric; 67 (11): 805-8.
- Gathwala, G. and Sharma, S. (2002):** Phototherapy induces an oxidative
stress in premature neonates. Indian J Gastroenterol; 21(4): 153-4
abstract.
- Glicken, S.; Kulig, J.; Obrien, R.; Sege, R. and Lau, J. (2003):**
Management of Neonatal Hyperbilirubinemia. Rockville. MD: US
Department of Health and Human Services. Agency for Healthcare
Research and Quali. AHRQ Publication 03-E011.
- Gorczyniski and Stanely(1991):** Clinical Immunology. Landes
Bioscience; Austin, TX. ISBN 1570596255
- Gourley, G.R. (2002):** Breast-feeding, neonatal jaundice and kernicterus.
Semin Neonatol Apr; 7(2): 135-41
- Gourly, G.R. (2001):** Bilirubin metabolism and kernicterus, Adv



Pediatr;44:173-2

Halliwell, B. (2006): Reactive species and antioxidants. Redox biology is a fundamental theme of aerobic life. Plant Physiology; 141:312-22.

Halliwell, B. and Whiteman, M. (2004): Measuring reactive species and oxidative damage in vivo and in cell culture: how should you do it and what do the results mean?. Br. J. Pharmacol; 142 (2): 231-55.

Hansen, T.W. (2009): Medicine Jaundice, Neonatal Article Last Updated: May.

Hansen, T.W.(2002): Therapeutic approaches to neonatal jaundice: an international survey.Clin Pediatr;35(6):309-16

Hasnain, B.I. and Mooradian, A.D. (2004): Recent trials of antioxidant therapy: what should we be telling our patients? Cleve Clin J. Med; 71 (4): 327-34.

Herrera, E. and Barbas, C. (2001): Vitamin, E: action, metabolism and perspectives. J. Physiol Biochem; 57 (2): 43-56.

Hiner, A.; Raven, E.; Thorneley, R.; Garca-canoas, F. and Rodriguez-Lopez, J. (2002): Mechanisms of compound I formation in heme peroxidases. J. Inorg Biochem; 91 (1): 27-34.

Hou, Y.C.; Janczuk, A. and Wang, P.G. (1999): Current trends in the development of nitric oxide donors. Curr. Pharm. Des. June, 5 (6): 417-471



- Howard, K. Surks (2007):** cGMP-Dependent Protein Kinase I and Smooth Muscle Relaxation: A Tale of Two Isoforms', (Circ. Res. 2007;101;1078–1080)
- Hussain, B.; Ghulam, R.; Sikanden, B.; Muhammad, A.; Ghulam, M. and Raj, K. (2010):** Risk factors for kernicterus in neonatal jaundice. Gomal Jour of Medic scien, 8(1): 12-15.
- Ives, K.N., (2004):** Gastroenterology, In: Rennie, J.M and Robertson NR(eds). Textbook of Neonatology. 5th eds Chirchill living stone(16)202-5.
- Janeway, C. A. et al. (2005):** Immunobiology: the immune system in health and disease (6th ed.). New York: Garland Science..
- Jean, M. (2008):** Neonatal Jaundice: a critical review of the role and practice of bilirubin analysis. Ann of clin biochem, 45;452-462.
- Johansen, J.S., A.K. Harris, D.J. Rychly and A. Ergul, (2005.)** Review: Oxidative stress and the use of antioxidants in diabetes: Linking basic science to clinical practice. Cardiovas. Diabetol., 4: 5-5.
- John, F. (2006):** Hyperbilirubinemia and bilirubin toxicity in the late preterm infant. Clinics in perinatology, 33(4).
- Johnson, L. and Bhutani, V.K. (2002):** System-based approach to management of neonatal jaundice and prevention of kernicterus. J Pediatr 140(4): 396-403
- Johnson, L.H.; Bhutani, V.L. and Brown, A.K. (2002):** System-based approach to management of neonatal Jaundice and prevention of kernicterus. Pediatrics: 140:326-403.



Judy Siegel-Itzkovich(1999): Viagra makes flowers stand up straight.

Student BMJ

June, M.; Whaun, M.D.; Frank, A.; Oski, M.D. (1970): Relation of red blood cell glutathione peroxidase to neonatal jaundice. The Journal of Pediatrics 555 Vol. 76, No. 4, PP. 555-560.

Karpen, S.J. (2002): Update on the aetiologies and management of neonatal cholestasis. Clin Perinatal Mar; 29(1): 159-80.

Kilic, M.; Turgut, M.; Taskin, E.; Cekmen, M.; Aygun, A.D. (2004): Nitric oxide levels and antioxidant enzyme activities in jaundices of premature infants. Cell Biochem Funct; 22(5): 339-342.

Koeing, M.J. and Christensen, R.(2000): Evaluation and treatment of Erythroblastosis fetalis in neonate In: Christensen RD(ed.)Hematologic problem of the neonate, Saunders company 16(4):169-174.

Kramar li(1969) advancement of dermal icterus in the jaundiced newborn Amer J Dis Child, 118:454-458

Kristin, M. and Henry, T.(1999): Neonatal jaundice strategies to reduce bilirubin-induced complications. Postgraduate Medicine;106:177-8.

Kulig, J. IPs, Chung, M. and Rockville, M.(2003): Management of neonatal hyperbilirubinemia, US Departement of Health and Human Service, Agency for Health Care Research and Quality. Publication 75(3)53-56

Kumar, A.; Pant, P.; Basu, S.; Roa, G. and Khanna, H. (2007):



- Oxidative stress in neonatal hyperbilirubinemia. *J Trop Pediatr*, 53 (1): 69-71.
- Kumar, S. and Bandyopadhyay, U. (2005):** Free heme toxicity and its detoxification systems in human. *Toxicol Lett*; 157:175-88.
- Liochev, S.I. and Fridovich, I. (2002):** The Haber-Weiss cycle 70 years later: An alternative view. *Redox Rep*; 7:55-7.
- Lucey, J. Ferreiro, M. and Hewitt, J. (1968):** Prevention of hyperbilirubinemia of prematurity, *Pediatrics*; 41:1047-54
- Maayan Metzger, A.; Yosipovitch, G.; Hadad, E. and Sirotal, L. (2001):** Transepidermal water loss & skin hydration in preterm neonates during phototherapy. *Am J perinatol*; 18:393-6
- Macdonald, J.; Galley, H.F. and Webster, N.R. (2003):** Oxidative stress and gene expression in sepsis. *British Journal of Anaesthesia*; 90 (2): 221-32.
- MacMahon JR, Stevenson DK, Oski FA. (1998)** Physiologic jaundice. In: Taeusch HW, Ballard RA, eds. *Avery's Diseases of the Newborn*. 7th ed. Philadelphia, PA: WB Saunders;
- Maisels MJ, McDonagh AF. (2008).** Phototherapy for neonatal jaundice. *N Engl J Med*; 358:920-928
- Maisels MJ, Newman TB. (1995)** Kernicterus in otherwise healthy, breastfed term newborns. *Pediatrics*. 1995; **96**:730–733
- Maisels, M. Antony, F. McDonagh, (2008):** Phototherapy for Neonatal Jaundice *Clinical therapeutics*; 358:920-928.



- Maisels, M.F. and McDonagh, A.F. (2008):** Phototherapy for neonatal jaundice. *N Engl J Med*; 358:920-928.
- Maisels, M.J. (2001):** Phototherapy-Traditional and non traditional *J Perinatol*;21(I):593-597.
- Maisels, M.J.(1996):** Why use homeopathic doses of phototherapy *Pediatrics*;98(2):283-287.
- Maisels. M.J.; Newman, T.B.(1999):** Predicting hyperbilirubinemia in the newborn. The importance of timing, *Pediatrics*;103(2):493-5.
- Marnett, L.J. (1999):** "lipid peroxidation-DNA damage by malondialdehyde". *Mutat Res.* 424 (1-2): 83-95.
- Mates, M. (2000):** Effect of antioxidant enzymes in the molecular control of reactive oxygen species. *Toxicology*; 153 (1-3): 83-104.
- McDonald, L.J. and Murad, F. (1996):** Nitric oxide and cyclic GMP signaling. *Proc. Soc. Exp. Biol. Med.*
- McKiernan, P.J. (2002):** Neonatal cholestasis. *Semin Neonatol Apr*; 7(2): 153-65.
- Melton, K. and Akinbi, H.T. (1999):** Neonatal jaundice. Strategies to reduce bilirubin-induced complications. *Postgrad Med*; 106:167-8, 171-4, 177-8
- Mills, J.F. and Tudehope, D. (2001):** Fibreoptic phototherapy for neonatal jaundice. *Cochrane Database Syst Rev* ;(!): CD002060 abstract.
- Mireles LC, Lum MA, Dennery PA(1999).** Antioxidant and cytotoxic



- effects of bilirubin on neonatal erythrocytes. *Pediatr Res.*;45(3):355–362
- Mishra, S.; Agarwal, R.; Deorari, A.K. and Paul, V.K. (2008):** Jaundice in the newborns. *Indian J Pediatr*; 75 (2): 157-163.
- Mocrschel, S.K.; Cianciaruso, L.B. and Tracy, L.R. (2008):** A practical approach to neonatal jaundice. *American Family Physician*. 77(9): 1255-1262.
- Modlinger, P.S.; Wilcox, C.S. and Aslam, S. (2004):** Nitric oxide, oxidative stress and progression of chronic renal failure. *Semin Nephrol*; 24(4): 345-65.
- Moyer, V.A.; Ahn, C. and Sneed, S.(2000):** Accuracy of clinical judgement in neonatal jaundice, *Arch Pediatr Adolesc Med*;154:391-394.
- Mukhopadhyay, K.; Murki, S.; Narang, A. and Dutta, S. (2003):** Intravenous immunoglobulins in rhesus haemolytic disease. *Indian J. Pediatr. Sep.* 70(9): 697-9. Abstract
- Muller, F.L.; Liu, Y. and Van Remme, H. (2004):** Complex III releases superoxide to both sides of the inner mitochondrial membrane. *J Biol. Chem*; 279 (47): 49064-73.
- Muller, F.L.; Lustgarten, M.S.; Jang, Y.; Richardson, A. and Van Remmen, H. (2007):** Trends in oxidative aging theories "Free Radic. Biol. Med. 43 (4); 477-503.
- Nag, N, Halder, S.; chaudhuri, R, Adhikary, S. and Mazumder, S. (2009):** Role of bilirubin as antioxidant in neonatal jaundice and



effect of ethanolic extract of sweet lime peel on experimentally induced jaundice in rat. Indian journal of biochemistry and biophysics, 46: 73-78.

Nagwa, I.; Sawsan, H.; Dhawan, A.; Azza, O.; Olfat, S. and Nehal, A. (2010): Antioxidant enzyme activity in hepatic tissue from children with chronic cholestatic liver disease. Saudi Journ of gastroenterology, 16(2): 90-94.

Nair, V.; O'Neil, C.L. and Wang, P.G. (2008): Malondialdehyde" Encyclopedia of Reagents for Organic Synthesis, John Wiley & Sons, New York.

Newman, T.; Xiong, B.; Gonzales, V.; Escobar, G.; (2000): Prediction and prevention of extreme neonatal hyperbilirubinemia in a mature health maintenance organization Arch pediatr Adolesc Med; 154: 1140 – 1147.

Newman, T.B.; Xiong, B.; Gonzales, V.M. and Escobar, G.J. (2000): Prediction and prevention of extreme hyperbilirubinemia in a mature health maintenance organization Arch Pediatr Adolesc Med.; 154:1140-1147

Newman, T.B.; Xiong, B.; Gonzales, V.M. and Escobar, G.J. (2000): Prediction and prevention of extreme neonatal hyperbilirubinemia in a mature health maintenance organization Arch pediatr Adoles Med: 154: 1140-1147.

Nguyen, T.; Brunson, D.; Crespi, C.L.; Penman, B.W.; Wishnok, J.S. and Tannenbaum, S.R. (Apr 1992): "DNA damage and mutation in human cells exposed to nitric oxide in vitro". Proc Natl Acad



Sci U S A 89 (7): 3030–4.

Nuntnarumitt, P. and Naka, C. (2002): Comparison of effectiveness between the adapted-double phototherapy versus conventional-single phototherapy. J Med Assoc Thai;85 Suppl 4; S 1159-66 abstract.

Ogetman, Z.; Dirlik, M.; Caglikulekci, M.; Canbaz, H.; Karabacak, T.; Yaylak, F.; Tamer, L.; Kanik, A. and Aydin, S. (2006): The effect of aminoguanidine on blood and tissue lipid peroxidation in jaundiced rats with endotoxemia induced with LPS. J. Invest Surg; 19 (1): 19-30.

Osama, G.M.; Ibrahim, M.M. and Salem, A.S. (2001): High dose intravenous immunoglobulin therapy in neonatal immune haemolytic jaundice. The Egypt. J of Neonatol. Vol. 2 No. 3

Palmieri, B. (1985): Mid LASER action and mechanisms: Facts and Hypothesis, M.L.R., 2:3

Pryor, W.A. and Stanley, J.P. (1975): Letter: A suggested mechanism for the production of malonaldehyde during the autoxidation of polyunsaturated fatty acids Nonezymatic production of prostaglandin endoperoxides during autoxidation" J. Org. Chem. 40 (24): 3615-7.

Ran, Q.; Liang, H. and Ikeno, Y. (2007): Reduction in glutathione peroxidase 4 increases life span through increased sensitivity to apoptosis" J. Gerontol. A. Biol. Sci. Med. Sci. 62(9): 932-42.

Ridnour, L.A.; Isenberg, J.S.; Espey, M.G.; Thomas, D.D.; Roberts,



- D.D. and Wink, D.A. (2005):** Nitric oxide regulates angiogenesis through a functional switch involving thrombospondin-1. *Proc Natl Acad Sci USA*; 102: 13147-52.
- Rodriguez, C.M.; Sola, S. et al., (2000):** Bilirubin and amyloid-beta peptide induce cytochrome c release through mitochondrial membrane permeabilization. *Mol Med* 6(11): 936-46.
- Ronald, J.; Sokol, and Edward, J. (1996):** Antioxidant in pediatric gastrointestinal disease. *Pediatr Clin of North America*; 43:471-88.
- Ryter, S.W. and Tyrrell, R.M. (2000):** The heme synthesis and degradation pathways: role in oxidant sensitivity. Heme oxygenase has both pro-and antioxidant properties. *Free Radic Biol Med*; 289-309.
- Sariei, S.; Serder, M.; Korhmaz, A.; Erdem, G.; Oran, O.; Tekinald, G.; Yurdakok, M. and Yigi, S. (2004):** Incidence course and prediction of hyperbilirubinemia in near term and term newborns. *Pediatrics* 113: 775-780.
- Saugstad, O.D. (2003):** Bronchopulmonary dysplasia-Oxidative stress and antioxidants. *Semin Neonatol*; 8:39-49.
- Shahab M.S.; Kumar, P.; Sharma, N.; et al., (2008).** Evaluation of oxidant and antioxidant status in term neonates: a plausible protective role bilirubin. *Mol cell Biochem* 317:51-59.
- Shami, P.J.; Moore, J.O.; Cockerman, J.P.; Halhorn, W.J.; Misukonis, M.A. and Weinberg, J.B. (1995):** Nitric oxide



modulation of the growth and differentiation of freshly isolated acute non-lymphocytic leukaemia cells. *Leukaemia Research*; 19(8): 527–534.

Sharon, Hu (2003): Is Zinc an Antioxidant? In: *Free Radicals in Biology and Medicine*; 77:222-3.

Sokol, R.J. and Hoffener, F.J. (1996): Antioxidants in pediatric gastrointestinal diseases. *Pediatr Clin. North Am*; 43 (2): 471-88.

Stevenson, D.K. and Vreman, H.J. (2001): Carbon monoxide and bilirubin production in neonate. *Pediatrics*; 100(2):252-254

Struznka, L.; Chalimoniuk, M. and Sulkowski, G. (2005): The role of astroglia in Pb-exposed adult rat brain with respect to glutamate toxicity. *Toxicology*; 212 (2-3): 185-94.

Stryer Lubert (1995): *Biochemistry*, 4th Edition. W.H. Freeman and Company. pp. 732. ISBN 0-7167-2009-4.

Surapaneni, K.M. and Vishnu, P.V (2008): Status of Lipid Reoxidation, glutathione, ascorbic acid, vitamin E and antioxidant enzymes in neonatal jaundice. *Journal of clinical and diagnostic research*, 2(3) : 827-832.

Tan, K.L. (1991): Phototherapy for neonatal jaundice, *Clin Perinatol* Sep; 18(3): 423-39

Tan, K.L. (1996): Phototherapy for neonatal jaundice. *Acta Pediatr* 85:277-9.

Tan, K.L. (1998): Decreased response to phototherapy for neonatal jaundice in breast-fed infants. *Arch Pediatr AdolescMed*;



152:1187-90

Thibeault DW (2000) The precarious antioxidant defenses of the preterm infant. *Am J Perinatol* 17:167-181

Thilo, E.H. and Rosenberg, A.A. (2009): Te Newborn infant, common problems in the term newborn, neonatal Jaundice. In: *Current Diagnosis & Treatment in Pediatrics-19th Ed.*

Tiku, M.L.; Narla, H.; Jain, M. and Yalamanchili, P. (2007): Glucosamine prevents in vitro collagen degradation in chondrocytes by inhibiting advanced lipoxidation reactions and protein oxidation. 9 (4): R76.

Tomasetti, M.; Littarru, G.P.; Stocker, R. and Alleva, R. (1999): Coenzyme Q10 enrichment decreases oxidative DNA damage in human lymphocytes. *Free Radic Biol Med*; 27:1027-32.

Turgut, M.; Basaran, O.; cekmen, M.; karstas, F.; kurt, A. and Aygun, A. (2004): Oxidant and antioxidant levels in preterm newborns with idiopathic hyperbilirubinemia. *J pediatr child H ealth*, 40(11) : 633-637.

Turi, S.; Nemeth, I.; Torkos, A. and Saghy, L. (1997): Oxidative stress and antioxidant defense mechanism in glomerular diseases. *The Rad Biol & Med*; 22 (12): 161-8.

Ueber Synthesen stickstoffhaltiger Verbindungen mit Hülfe des Stickoxyds *Justus Liebig's Annalen der Chemie* Volume 300, Issue 1, Date: 1898, Pages: 81–128 Wilhelm Traube
doi:10.1002/jlac.18983000108



- Valko, M.; Izakovic, M.; Mazur, M.; Rhodes, C.J. and Telser, J. (2004):** Role of oxygen radicals in DNA damage and cancer incidence. Mol Cell Biochem; 266 (1-2): 37-56.
- Valko, M.; Leibfritz, D.; Moncol, J.; Cronin, M.T.; Mazur, M. and Telser, J. (2007):** Free radicals and antioxidants in normal physiological functions and human disease. Int. J. Biochem Cell Biol; 39 (1): 44-84.
- Vasudevan, D.M. and Sreekumari, S. (2005):** Free radicals and antioxidants. In: Textbook of biochemistry (for medical students) (4th ed). Jaypee Brothers, New Delhi: 338-42.
- Vertuani, S.; Angusti A. and Manfredini, S. (2004):** The antioxidants and pro-antioxidants network: an overview. Curr Pharm Des; 10 (14): 1677-94.
- Victor, V.M.; Rocha, M.; Esplugues, J.V. and De la Fuente, M. (2005):** Role of free radicals in sepsis: antioxidant therapy. Curr Pharm Des; 11 (24): 3141-58.
- Waring, W.S. (2002):** Uric acid: important antioxidant in acute ischaemic stroke. Q. J. Med; 95:691-3.
- Watson, R.L. (2009):** Hyperbilirubinemia Pediatr Clin Norht Am, 21(1): 97-120.
- Watson, R.L. (2009):** Hyperbilirubinemia. Crit Care Nurs Clin N Am. 21(1):97-120.
- Winterbourn, C.C.; Bus, I.H.; Chan, T.P.; Plank, L.D.; Clark, M.A. and Windsor, J.A. (2000):** Protein carbonyl measurements show



evidence of early oxidative stress in critically ill patients. Crit Care Med; 28 (1): 143-9.

Wong, R.J.; Stevenson, D.K.; Ahlfors, C.E. and Vreman, H.J. (2007): Neonatal Jaundice: Bilirubin physiology and clinical chemistry. NeoReviews; 8: e58-e67.

Yasuda S, Itoh S, Isobe K, et al(2003). New transcutaneous jaundice device with two optical paths. J Perinat Med.;31:81–88

Yesilkaya, A.; Altinayak, R. and Kipmen, D. (2000): The antioxidant effect of free bilirubin on Cumene-hydroperoxide treated human leukocytes. General pharmacology: the vascular system;35:17-20.

Yigit, S.; Yuradokok, A.; Kilins, K.; Oran, O.; Erdem, G. and Tekinalp, G. (1999): Serum malondialdehyde concentrations in babies with hyperbilirubinemia. Arch Des Child Fetal Neonatal; 80(3): 235-7.

Zaghlol, H. and Schuize, K.F. (2001): Neonatal jaundice. In:Textbook of Clinical Pediatrics. Edited by Elzouki AY, Harfi HA, and Nazar H. Lippicott Williams & Wilkins. Philadelphia. Pp 207-214.

Zhang, H.J.; Doctrow, S.R.; Xu, L.; Oberley, L.W.; Beecher, B.; Morrison, J.; Oberley, T.D. and Kregel, K.C. (2004): Redox modulation of the liver with chronic antioxidant enzymemimetic treatment prevents age related oxidative damage associated with environmental stress. The FASEB J; 18:1547-9.

Zuckerbraun, B.S. and Billiar, T.R. (2003): Heme oxygenase-1: A cellular Hercules. Hepatology; 37 (4): 742-4.



Zunszain, P.A.; Ghuman, J.; McDonagh A.F. and Curry, S. (2008):
Crystallographic Analysis of human serum albumin complexed
with 4Z, 15E-bilirubin-IX α . J Mol Biol. 381(2): 394-406.