

7 Literaturverzeichnis

1. **Adams** SS, Bresloff P, Mason CG. Pharmacological differences between the optical isomers of ibuprofen: evidence of metabolic inversion of the (-) isomer. *J Pharm Pharmacol* 1976; 28: 256-7
2. **Ahlfors** CE. Effect of ibuprofen on bilirubin-albumin binding. *J Pediatr* 2004; 144 (3):386-8
3. **Alpan** G, Scheerer R, Bland R, Clyman RI. Patent ductus arteriosus increases lung fluid infiltration in preterm lambs. *Pediatr Res.* 1991; 30: 616-21
4. **Amorim** MM, Santos LC, Faúndes A. Corticosteroid therapy for prevention of respiratory distress syndrome in severe preeclampsia. *Am J Obstet Gynecol* 1999; 180: 1283-8
5. **Aranda** JV, Varvarigou A, Beharry K et al. Pharmacokinetics and protein binding of intravenous ibuprofen in the premature newborn infant. *Acta Paediatrica* 1997; 86: 289- 293
6. **Baragatti** B, Brizzi F, Ackerley C, Barogi S, Ballou LR, Coceani F: Cyclooxygenase- 1 and Cyclooxygenase-2 in the mouse ductus arteriosus: individual activity and functional coupling with nitric oxide synthase. *Br J Pharmacol* 2003; 139: 1505-15
7. **Baud** O, d'Allest AM, Lacaze-Masmonteil Z et al. The early diagnosis of periventricular leukomalacia in premature infants with positive rolandic sharp waves on serial electroencephalography. *J Pediatr* 1998; 132: 813-7
8. **Bayley** N. Manual for the Bayley Scales of Infant Development. New York, NY: psychological Corp; 1969
9. **Bel van** F, Guit GL, Schipper J et al. Indomethacin- induced changes in renal blood flow velocity waveform in premature infants investigated with colour Doppler imaging. *J Pediatr* 1991; 118: 621-6
10. **Bell** EF, Acarregui MJ. Restricted versus liberal water intake for preventing morbidity and mortality in preterm infants. *The Cochrane Database of Systematic Reviews* 2001; 3: CD000503
11. **Benesova** O, Tejkalova H, Kristofikova Z et al. Brain maldevelopment and neurobehavioural deviations in adult rats treated neonatally with indomethacin. *Eur Neuropsychopharmacol.* 2001; 11: 367-73
12. **Bergwerff** M, DeRuiter MC, Gittenberger- de Groot AC. Comparative anatomy and ontogeny of the ductus arteriosus, a vascular outsider. *Anat Embryol.* 1999. 200: 559-71

13. **Betkerur** MV, Yeh TF, Miller K et al. Indomethacin and its effect on renal function and urinary kallikrein excretion in premature infants with patent ductus arteriosus. *Pediatrics*. 1981; 68 (1):99-102
14. **Blalock** A. Operative closure of the patent ductus Arteriosus. *Surg Gynecol Obstet*. 1946; 82:112
15. **Bor van de** M, Verloove-Vanhorick SP, Brand R, Ruys JH. Patent Ductus Arteriosus in a cohort of 1338 preterm infants: a collaborative study. *Paediatr Perinat Epidemiol*. 1988; 2: 328- 36
16. **Brandt** I, editor. Griffiths Entwicklungsskalen (GES) zur Beurteilung der Entwicklung in den ersten beiden Lebensjahren. Deutsche Bearbeitung, Weinheim and Basel: Beltz Verlag 1983
17. **Brook** M, Heymann M. Heart Disease in Infants, Children, and Adolescents Including the Fetus and Young Adult 1995; Williams and Wilkins, Patent ductus Arteriosus. 746- 764 Emmanouilides GC, Riemenschneider TA, Allen HD, Gutgesell HP
18. **Burke** RP, Jakobs JP, Cheng W, Trento A, Fontana GP. Video- assisted thoracoscopic surgery for patent ductus arteriosus in low birth weight neonates and infants. *Pediatrics* 1999; 104: 227- 30
19. **Carboni** MP, Ringel RE. Ductus arteriosus in premature infants beyond the second week of life. *Pediatr Cardiol* 1997; 18: 372- 5
20. **Chemtob** S, Beharry K, Rex J et al. Prostanoids determine the range of cerebral blood flow autoregulation of newborn piglets. *Stroke*. 1990; 21: 777- 784
21. **Chemtob** S, Beharry K, Barna T et al. Differences en the effects in the newborn piglet of various nonsteroidal anti-inflammatory drugs on cerebral blood flow but not on cerebrovascular prostaglandins. *Pediatr Res*. 1991; 30: 106- 111
22. **Clyman** RI, Mauray F, Wong L, Heymann MA, Rudolph AM. The developmental response of the ductus arteriosus to oxygen. *Biol Neonate*. 1978. 34: 177-181
23. **Clyman** RI, Recommendations for the postnatal use of indomethacin: An Analysis of four separate treatment strategies. *J Pediatr* 1996;128: 601- 607
24. **Clyman** RI, Waleh N, Black SM, Riemer RK, Mauray F, Chen YQ. Regulation of ductus arteriosus patency by nitric oxide in fetal lambs: the role of gestation, oxygen tension, and vasa vasorum. *Pediatr Res* 1998; 43: 633-644
25. **Coceani** F, White E, Bodach E, Olley PM. Age- dependent changes in the response of the lamb ductus arteriosus to oxygen and ibuprofen. *Can J Physiol Pharmacol* 1979; 57: 825-31
26. **Coceani** F, Kelsey L. Endothelin- 1 release from lamb ductus arteriosus: Relevance to postnatal closure of the vessel. *Can J Physiol Pharmacol* 1991; 69: 218-21

27. **Coceani** F, Kelsey L, Ackerley C, Rabinovitch M, Gelboin H. Cytochrom P450 during ontogenic development: Occurrence in the ductus arteriosus and other tissues. *Can J Physiol Pharmacol* 1994; 72: 217
28. **Coceani** F, Liu Y, Seidlitz E et al. Endothelin A receptor is necessary for O₂ constriction but not closure of ductus Arteriosus. *Am J Physiol* 1999; 277: H 1521- 31
29. **Congdon** ED. Transformation of the aortic arch system during development of the human embryo. *Contrib Embr Carnegie Instit. Washington.* 1922. 14: 47-110
30. **Cooke** L, Steer P, Woodgate P. Indomethacin for asymptomatic patent ductus arteriosus in preterm infants, *The Cochrane Database of Systematic Reviews* 2003, Issue 1
31. **Coombs** RC, Morgan ME, Durbin GM, Booth IW, Mc Neish AS. Abnormal gut blood flow velocities in neonates at risk of necrotising enterocolitis. *J Pediatr Gastroenterol Nutr* 1992; 15: 13-19
32. **Costeloe** K, Hennessy E, Gibson AT et al. The EPICure Study: Outcomes to discharge from hospital for infants born at the threshold of viability. *Pediatrics* 2000; 106: 659-71
33. **Cotton** RB, Strahlman MT, Bender HW et al. Randomized trial of early closure of symptomatic patent ductus arteriosus in small preterm infants. *The Journal of Pediatrics* 1978; 93: 647-651
34. **Crowford**, Di Marco and Paulus. Eds, *Cardiology 2E*, textbook, 2004, Elsevier Ltd.
35. **Crowley** P. Prophylactic corticosteroids for preterm birth. *The Cochrane Library* 2, 2003
36. **Davis** P, Turner- Gomes S, Cunningham K et al. Precision and accuracy of clinical and radiological signs in premature infants at risk of patent ductus arteriosus. *Arch Pediatr Adolesc Med* 1995; 149: 1136-41
37. **DeCanq** HE Jr. Repair of patent ductus arteriosus in a 1417 g infant. *Am J Dis Child* 1963; 106: 402-5
38. **Deeg** KH, Gerstner R, Bundscherer F Harai G, Singer H, Gutheil H. Doppler sonographic detection of reduced flow velocity in the celiac trunk of the newborn infant with patent ductus arteriosus Botalli compared to a healthy control group. *Monatsschr Kinderheilkd* 1987; 135: 24-29
39. **Deeg** KH, Rupprecht T. Pulsed Doppler sonographic determination of normal values of blood flow velocities in the anterior cerebral artery in premature and newborn infants. *Klin Pädiatr* 1988; 200: 307-315
40. **DeRuiter** MC, Poelman RE, VanderPlas- de Vries I, Mentink MMT, Gittenberger- de Groot AC. The development of the myocardium and endocardium in mouse embryos. *Anat Embryol.* 1992. 185: 461-73

41. **Desfrere L**, Zohar S, Morville P et al. Does- finding study of ibuprofen in patent ductus arteriosus using the continual reassessment method. *J Clin Pharm Ther* 2005; 30: 121-132
42. **Dollberg S**, Lusky A, Reichman B. Patent ductus arteriosus, indomethacin and necrotizing enterocolitis in very low birth weight infants: a population- based study. *J Pediatr Gastroenterol Nutr.* 2005; 40(2): 184-188
43. **Edwards AD**, Wyatt JS, Richardson C et al. Effects of Indomethacin on cerebral haemodynamics in very preterm infants. *Lancet* 1990; 335: 1491-5
44. **Evans NJ**. Diagnosis of patent ductus arteriosus in the preterm newborn. *Arch Dis Child* 1993; 68: 58-61
45. **Evans N**, Iyer P. Assessment of patent ductus arteriosus shunt in the preterm infants supported by mechanical ventilation: effect of interatrial shunting. *J Pediatr* 1994; 125: 778-85
46. **Evans N**, Kluckow M: Early ductal shunting and intraventricular haemorrhage in ventilated preterm infants. *Arch Dis Child* 1996; 75: F 183-6
47. **Evans N**. Current controversies in the diagnosis and treatment of patent ductus arteriosus in preterm infants. *Adv Neonatal Care* 2003; 3(4): 168-77
48. **Felderhoff- Mueser U**, Buehrer C. Clinical measures to preserve cerebral integrity in preterm infants. *Early Hum Dev.* 2005; 81 (3): 237-44
49. **Fowlie PW**, Davis PG. Prophylactic intravenous Indomethacin for preventing mortality and morbidity in preterm infants. *The Cochrane Database of Systemic Reviews* 2002; 3: CD 000174
50. **Fowlie PW**, Davis PG. Prophylactic indomethacin for preterm infants: A systematic review and meta- analysis. *Arch Dis Child* 2003; 88: F464-66
51. **French RK**. The thorax in history: circulation of blood, *Thorax* 1978, 33: 714-27
52. **Friedman WF**, Hirschklaw MJ, Printz MP, Pitlick PT, Kirkpatrick SE. Pharmacologic closure of patent ductus arteriosus in the premature infant. *N. Engl. J. Med.* 1976; 95: 526-9
53. **Fujii AM**, Brown E, Mirochnick M et al. Neonatal necrotizing enterocolitis with intestinal perforation in extremely premature infants receiving early indomethacin treatment for patent ductus arteriosus. *J Perinatol* 22: 535-540
54. **Galenus**, Opera Omnia IV: 243 (131 a.D.)
55. **Gerhardt T**, Bancalari E. Lung compliance in newborns with patent ductus arteriosus before and after surgical ligation. *Biol Neonate* 1980; 38: 96-105

56. **Gersony** WM, Peckham GJ, Ellison RC, Miettinen OS, Nadas AS. Effects of indomethacin in premature infants with patent ductus arteriosus: results of a national collaborative study. *J Pediatr.* 1983; 102: 895-906
57. **Giedion** A, Haeflinger H, Dangel P. Acute pulmonary X- ray changes in hyaline membrane disease treated with artificial ventilation and positive endexpiratory pressure. *Pediatric Radiol.* 1973. 1: 145
58. **Gittenberger- de Groot** AC. Persistent ductus arteriosus: most probably a primary congenital malformation. *Brit Heart J.* 1977. 39: 610-8
59. **Gräper** L. Die anatomischen Verhältnisse kurz nach Geburt. III. Ductus Botalli. *Z Anat Entwicklungsgesch.* 1921. 61: 312-29
60. **Grosfeld** JL, Chaet M, Molinari F et al. Increased risk of necrotizing enterocolitis in premature infants with patent ductus arteriosus treated with indomethacin. *Ann* 1996; 224: 350-355
61. **Gross** RE, Hubbard JP. Surgical ligation of a patent ductus arteriosus: a report of first successful case. *JAMA* 1939; 112: 729-31
62. **Hack** M, Taylor HG, Kelen N et al. School- age outcomes in children with birth weights under 750 g. *N Engl J Med.* 1994; 331: 753-759
63. **Hack** M, Fanaroff AA. Outcomes of children of extremely low birth- weight and gestational age in the 1990's. *Early Hum Dev.* 1999; 53: 193-218
64. **Hahn** EL, He LK, Gamelli RL: Prostaglandin E2 synthesis and metabolism in burn injury and trauma. *J Trauma* 2000; 49: 1147-54
65. **Hammerman** C. Patent ductus arteriosus. Clinical relevance of prostaglandins and prostaglandin inhibitors in PDA pathophysiology and treatment. *Clin Perinatol* 1995; 22: 457-79
66. **Heldt** GP, Personen E, Merreitt TA et al. Closure of the ductus arteriosus and mechanics of breathing in preterm infants after surfactant replacement therapy. *Pediatr Res* 1989; 25: 305-10
67. **Herrera** C, Holberton J, Davis P, Prolonged vs. short course of indomethacin for the treatment of patent ductus arteriosus in preterm infants. *The Cochrane Database of Systematic Reviews* 2001, 4: CD003480
68. **Heymann** MA, Rudolph AM, Silverman NH. Closure of the ductus arteriosus in premature infants by inhibition of prostaglandin synthesis. *N Engl J Med* 1976; 295: 530-3
69. **Heyman** E, Morag I, Batash D, Keidar R, Baram S, Berkovitch M. Closure of patent ductus arteriosus with oral ibuprofen suspension in premature newborns: A pilot study. *Pediatrics* 2003; 112: e354-8

70. **Hoffmann** JIE, Kaplan S. The incidence of congenital heart disease. *J Am Coll Cardiol* 2002; 39: 1890-900
71. **Hornblad** PY. Embryological observations of the ductus arteriosus. IV. *Acta Physiol Scand.* 1969. 76: 49-57
72. **Iyer** P, Evans N. Re- evaluation of the left atrial to aortic root ratio as a marker of patent ductus Arteriosus
73. **Johnson** GL, Breart GL, Gewitz MH et al. Echocardiographic characteristics of premature infants with patent ductus arteriosus, *Pediatr* 1983; 72: 864-871
74. **Kabra** NS, Schmidt B, Doyle L, Papile L, Fanaroff A. Surgical closure of a patent ductus arteriosus is associated with increased neurosensory impairment in extremely low birth weight infants: results from the trial of Indomethacin prophylaxis in preterms. *Pediatr Res.* 2004; 56: 503A
75. **Kajino** H, Chen YQ, Chemtob S, Waleh N, Koch CJ, Clyman RI: Tissue hypoxia inhibits prostaglandin and nitric oxide production and prevents ductus arteriosus reopening. *Am J Physiol Regul Integr Comp Physiol* 2000; 279: R278-86
76. **Kitterman** JA, Edmunds LH, Gregory GA et al. Patent ductus arteriosus in preterm infants. Incidence, relation to pulmonary disease management. *New Engl J Med* 1972; 287: 473-7
77. **Kluckow** M, Evans N. Early echocardiographic prediction of symptomatic patent ductus arteriosus in preterm infants undergoing mechanical ventilation. *J Pediatr* 1995; 127: 774- 779
78. **Kluckow** M, Evans N. Ductal Shunting, high pulmonary blood flow, and pulmonary hemorrhage. *J Pediatr* 2000; 137: 68-72
79. **Koehne** P, Rüdiger. *Evidenzbasierte Pädiatrie IV*, 2005, S.22
80. **Laborde** F, Noirhomme P, Karam J, Batisse A, Bourel P, Sail Maurice O. A new video-assisted thoracoscopic surgical technique for interruption of patent ductus arteriosus in infants and children. *J. Thorac Cardiovasc Surg* 1993; 105: 278-80
81. **Lago** P, Bettiol T, Salvadori S et al. Safety and efficacy of ibuprofen versus indomethacin in preterm infants treated for patent ductus arteriosus: a randomised controlled trial. *Eur J Pediatr* 2002; 161: 202-207
82. **Lee** SK, Mc Millan DD, Ohlsson A et al. the Canadian NICU Network: 1996- 1997. *Pediatrics* 2000; 106: 1070
83. **Lee** J, Rajadurai VS, Tan KW et al. Randomized Trial of Prolonged Low- Dose Versus Conventional- Dose Indomethacin for treating Patent Ductus Arteriosus in Very Low Birth Weight Infants, *Pediatrics* 2003; 112; 345-350

84. **Leffler** CW, Busija DW, Fletcher AM et al. Effects of indomethacin upon cerebral hemodynamics of newborn pigs. *Pediatr Res.* 1985; 19: 1160-4
85. **Leffler** CW, Busija DW, Beasley DG et al. Maintenance of cerebral circulation during hemorrhagic hypotension in newborn pigs: Role of prostanoids. *Circ Res.* 1986; 59: 562-7
86. **Little** DC, Pratt TC, Blalock SE et al. Patent ductus arteriosus in micropreemies and fullterm infants : the relative merits of surgical ligation versus Indomethacin treatment. *J Pediatr Surg.* 2003; 38: 492-6
87. **Loftin** CD, Tiano HF, Langenbach R: Phenotypes of the COX- deficient mice indicate physiological and pathophysiological roles for COX- 1 and COX- 2. *Prostaglandins Other Lipid Mediat* 2002; 68- 69: 177-85
88. **Malcolm** DD, Segar JL, Robillard E, Chemtob S. Indomethacin compromises hemodynamics during positive- pressure ventilation, independently of prostanoids. *J. Appl. Physiol.* 1993; 74: 1672
89. **McGrath** RL, McGuinness GA, Way GL, Wolf RR, Nora JJ, Simmons NA. The silent ductus arteriosus . *J Pediatr* 1978; 93: 110-113
90. **Mellander** M, Larson LE, Ekström- Jodal B, Sabel KG. Prediction of symptomatic ductus arteriosus in preterm infants using Doppler and M- mode echocardiography. *Acad Paediatr Scand* 1987; 76: 553- 559
91. **Ment** LR, Oh W; Ehrenkranz RA et al. Low-dose indomethacin therapy and extension of intraventricular hemorrhage: a multicenter randomized trial. *J Pediatr* 1994; 124: 951-5
92. **Merritt** TA, Harris JP, Roghmann K et al. Early closure of the patent ductus arteriosus in very low- birth- weight infants: a controlled trial. *J Pediatr.* 1981; 99 (2): 281- 6
93. **Mitchell** SC, Korones SB, Berendes HW. Congenital heart diseases in 56, 109 births. Incidence and natural history. *Circulation* 1970; 43: 323-32
94. **Momma** K, Ito T, Mori J, Yamamura Y. Perinatal adaptation of the cardiovascular system. *Early Hum Dev.* 1992. 29: 167-70
95. **Momma** K, Toyono M. The role of nitric oxide inhibition in dilating the fetal ductus arteriosus in rats. *Pediatr Res* 1999; 46: 311-5
96. **Morgan** AM, Aldag JC. Early identification of cerebral palsy using a profile of abnormal motor patterns. *Pediatrics* 1997; 100 (5): 902-3
97. **Morris** JL, Rosen DA, Rosen KR: Nonsteroidal anti- inflammatory agents in neonates. *Pediatr Drugs* 2003; 5: 385-405

98. **Mosca F**, Bray M, Lattanzio M, Fumagalli M, Tosetto C, Comparative evaluation of the effects of Indomethacin and ibuprofen on cerebral perfusion and oxygenation in preterm infants with patent ductus arteriosus. *J. Pediatr.* 1997; 131: 549-54
99. **Myung K P**. *Pediatric Cardiology for Practitioners*, 4th Edition, Mosby 2002
100. **Nakashini T**, Gu H, Hagiwara N, Momma K: Mechanism of oxygen- induced contraction of the ductus arteriosus isolated from the fetal rabbit. *Circ Res* 1993; 72: 1218
101. **Narayanan M**, Cooper B, Weiss H et al. Prophylactic indomethacin: factors determining permanent ductus arteriosus closure. *J Pediatr.* 2000; 136: 330-337
102. **Obladen M**, Koehne PS. *Interventions for Persisting Ductus Arteriosus in the preterm infant*, Springer Medizin Verl. 2005, 15-18
103. **Obeyesekere HI**, Pankhurst S, Yu VYH. Pharmacologic closure of ductus arteriosus in preterm infants using indomethacin. *Arch Dis Child* 1980; 55: 271- 276
104. **Ohlsson A**. Back to the Drawing board (Commentary). *Pediatr Res* 2000; 47 (1): p4
105. **Ohlsson A**, Walia A, Shah S. Ibuprofen for the treatment of patent ductus arteriosus in preterm and/ or low birth weight infants. *The Cochrane Database of Systematic Reviews* 2003, Issue 2
106. **Osborn DA**, Evans N, Kluckow M. Hemodynamic and antecedent risk factors of early and late periventricular/ intraventricular hemorrhage in premature infants. *Pediatrics* 2003; 112: 33-39
107. **Overmeire van B**, Follens I, Hartmann S, Creten WL, Van Acker KJ. Treatment of patent ductus arteriosus with ibuprofen. *Arch. Dis. Child.* 1997; 76: 179-84
108. **Overmeire van B**, Suys B. Pharmacological manipulation of patent ductus arteriosus. *Les medicaments en reanimation neonatale*. Springer Verlag 1999, 141-71
109. **Overmeire van B**, Smets K, Lecoutere D et al. A comparison of ibuprofen and Indomethacin for closure of patent ductus arteriosus. *N. Engl. J. Med.* 2000; 343: 674-81
110. **Overmeire van B**, Touw D, Schepens PJC et al. Ibuprofen pharmacokinetics in preterm infants with patent ductus arteriosus. *Clin Pharmacol Ther* 2001; 70: 336-43
111. **Overmeire van B**, Chemtob S. The pharmacologic closure of the patent ductus arteriosus. *Seminars in Fetal & Neonatal Medicine* 2005; 110: 177-84
112. **Patel J**, Marks KA, Roberts I et al. Ibuprofen treatment of patent ductus arteriosus. *Lancet* 1995; 346: 255

113. **Patel** J Roberts I, Azzopardi D, Hamilton P, Edwards AD. Randomised double- blind controlled trial comparing the effects of ibuprofen with indomethacin on cerebral hemodynamics in preterm infants with patent ductus arteriosus. *Pediatr Res* 2000; 47: 36- 42
114. **Pellicer** A, Aparicio M, Cabanas F et al. Effect of the cyclooxygenase blocker ibuprofen on cerebral blood volume and cerebral blood flow during normocarbica and hypercarbia in newborn piglets. *Acta Paediatr.* 1999; 88: 82-8
115. **Perez** CA, Bustorff- Silva JM, Villasenor E et al. Surgical ligation of patent ductus arteriosus in very low birth weight infants: is it safe? *Am. J. Surg.*1998; 64: 1007-9
116. **Perlman** JM. White matter injury in the preterm infant: an important determination of abnormal neurodevelopment outcome. *Early Human Development* 1998; 53: 99-120
117. **Pezzati** M, Vangi V, Biagiotti R, Bertini G, Cianciulli D, Rubaltelli FF. Effect of ibuprofen and Indomethacin on mesenteric and renal blood flow in preterm infants with patent ductus arteriosus. *J. Pediatr.* 1999; 135: 733-8
118. **Pinto-Martin** JA, Riolo S, Cnaan A et al. Cranial ultrasound prediction of disabling and nondisabling cerebral palsy at age two in a low birth weight population. *Pediatrics* 1995; 95: 249-54
119. **Quinn** D, Cooper B, Clyman RI. Factors associated with permanent closure of the ductus arteriosus: a role for prolonged indomethacin therapy. *Pediatrics* 2002; 110:10-15
120. **Reller** MD, Ziegler ML, Rice MJ, Solin RC, Mc Donald RW. Duration of ductal shunting in healthy preterm infants: an echocardiographic color flow Doppler study. *J Pediatr* 1988; 12: 441-6
121. **Reller** MD, Buffkin DC, Colasurdo MA et al. Ductal patency in neonates with respiratory distress syndrome. *Am J Dis Child* 1991; 145: 1017-20
122. **Reller** MD, Rice MJ, Mc Donald RW. Review of studies evaluating ductal patency in the premature infant. *J Pediatr* 1993; 122 (6): 59-62
123. **Rennie** JM, Doyle J, Cooke RW. Early administration of Indomethacin to preterm infants. *Arch Dis Child* 1986; 61: 233-8
124. **Rojas** MA, Gonzalez A, Bancalari E et al. Changing trends in the epidemiology and pathogenesis of neonatal chronic lung disease. *J Pediatr.* 1995;126: 605-10
125. **Saigal** S, Szeatmari P, Rosenbaum P et al. Cognitive abilities and school performance of extremely low birth weight children and matched term control children at age of 8 years: a regional study. *J Pediatr.* 1991; 118: 751-760
126. **Sanghavi** DM, Early Identification of Cerebral Palsy Using a Profile of Abnormal Motor Patterns *Pediatrics*1997; 100; 5, 902

127. **Schmidt** B, Davis P, Moddemann D et al. Long- term effects of Indomethacin prophylaxis in extremely- low- birth- weight infants. *The New England Journal of Medicine* 2001; 344: 1966-1972
128. **Schmidt** B, Asztalos EV, Roberts RS et al. Impact of Bronchopulmonary Dysplasia, Brain Injury, and Severe Retinopathy on the Outcome of extremely low- birth- weight infants at 18 months. Results from the trial of Indomethacin Prophylaxis in preterms. *JAMA* 2003; 289: No 9
129. **Seidner** SR, Chen YQ, Oprysko PR et al. Combined prostaglandin and nitric oxide inhibition produces anatomic remodelling and closure of the ductus arteriosus in the premature newborn baboon. *Pediatr Res* 2001; 50: 365-73
130. **Shaffer** CL, Gal P, Ransom JL et al. Effect of age and birth weight on indomethacin pharmacodynamics in neonates treated for patent ductus arteriosus. *Crit Care Med* 2002; 30 : 343-348
131. **Silver** MM, Freedom RM, Silver MD, Olley PM. The morphology of the human newborn ductus arteriosus: a reappraisal of its structure and closure with special reference to prostaglandin E1 therapy. *Hum Pathol.* 1981. 12: 1123-36
132. **Singer** H. Echocardiographic Assessment. In: Obladen M, Koehne PS. Interventions of Persisting Ductus Arteriosus in the preterm infant. Springer 2005; 9: 40-44
133. **Shah** SS, Ohlsson A, Ibuprofen for the prevention of patent ductus arteriosus in preterm and/ or low birth weight infants. *The Cochrane Database of Systematic Reviews* 2003, Issue 2
134. **Skelton** R, Evans N, Smythe J. A blinded comparison of clinical end echocardiographic evaluation of the preterm infant for patent ductus arteriosus. *J Pediatr Child Health* 1994; 30: 406-4011
135. **Slomp** J, Gittenberger-de Groot AC, Glukhova MA et al. Differentiation, dedifferentiation, and apoptosis of smooth muscle cells during the development of the humal ductus arteriosus. *Arterioscler Thromb Vasc Biol.* 1997. 17: 1003-9
136. **Smyth** M, Collier PS, Darwish M et al. Intravenous indomethacin in preterm infants with symptomatic patent ductus arteriosus. A population pharmacokinetic study. *Br J Clin Pharmacol* 2004; 58: 249-258
137. **Speer** C., Gahr M., Pädiatrie, 2. Aufl., Springer- Verlag, 2004, 634-635
138. **Stevenson** JG. Fluid administratioon in the association of patent ductus arteriosus complicating respiratory distress syndrome. *J Pediatr* 1977; 90: 257-61
139. **Su** PH, Chen JY, Su CM, Huang TC, Lee HS. Comparison of ibuprofen and Indomethacin therapy for patent ductus arteriosus in preterm infants. *Pediatr Int.* 2003; 45: 665-70

140. **Szymankiewicz** M, Hodgman JE, Siassi B et al. Mechanics of breathing after surgical ligation of patent ductus arteriosus in newborns with respiratory distress syndrome. *Biol Neonate* 2004; 85: 32-6
141. **Thomas** RL, Parker GC, van Overmeire B, Aranda JV. A meta- analysis of ibuprofen versus indomethacin for closure of patent ductus arteriosus. *Eur J Pediatr* 2005; 164: 135- 140
142. **Vogel** M, Histological stages of development of the chorionic vill in the embryonal and early fetal period (5th to 20th week of pregnancy). *Pathologie*. 1986; 7 (1): 59-61
143. **Vohr** BR, Wright LL, Dusick AM et al. Neurodevelopmental and functional outcome of extremely low birth weight (ELBW) infants in the National institute of child health and human development neonatal network1993- 1994. *Pediatrics*. 2000; 105: 1216-1226
144. **Wagner** HR, Ellison RC, Zierler S et al. Surgical closure of patent ductus arteriosus in 268 preterm infants. *J. Thorac. Cardiovasc. Surg.* 1984; 87: 870-75
145. **Wright** DH, Abran D, Bhattacharya M et al. Prostanoid receptors: ontogeny and implications in vascular physiology. *Am J Physiol* 2001; 281: R1343-60
146. **Yanowitz** TB, Yao AC, Pettygrew KD, Werner JC, Oh W, Stonestreet BX: Postnatal hemodynamic changes in very- low- birthweight infants. *J Appl Physiol* 1993; 87: 370-80
147. **Yeh** TF, Thalji A, Luken L et al. Improved lung compliance following Indometacin therapy in premature infants with persistent ductus arteriosus. *Chest* 1981; 80: 698-700
148. **Yeh** TF, Achanti B, Patel H, Pildes RS. Indomethacin therapy in premature infants with patent ductus arteriosus- determination of therapeutic plasma levels. *Dev Pharmacol Ther* 1989; 12: 169-78
149. **Yeh** TF, Car I. Pharmacologic closure of patent ductus arteriosus. In: Yeh TF, ed. *Neonatal Therapeutics*, 2nd edn. Mosby Year book, St Louis: 1991; 123-38