

7. Literaturverzeichnis

1. Guillou, P.J., *Biological variation in the development of sepsis after surgery or trauma*. Lancet, 1993. **342**(8865): p. 217-20.
2. Davies, M.G. and P.O. Hagen, *Systemic inflammatory response syndrome*. Br J Surg, 1997. **84**(7): p. 920-35.
3. Baigrie, R.J., et al., *Systemic cytokine response after major surgery*. Br J Surg, 1992. **79**(8): p. 757-60.
4. Chernow, B., et al., *Hormonal responses to graded surgical stress*. Arch Intern Med, 1987. **147**(7): p. 1273-8.
5. Halter, J.B., A.E. Pflug, and D. Porte, Jr., *Mechanism of plasma catecholamine increases during surgical stress in man*. J Clin Endocrinol Metab, 1977. **45**(5): p. 936-44.
6. Trokel, M.J., et al., *Preservation of immune response after laparoscopy*. Surg Endosc, 1994. **8**(12): p. 1385-7; discussion 1387-8.
7. Bouvy, N.D., et al., *Laparoscopic vs conventional bowel resection in the rat. Earlier restoration of serum insulin-like growth factor 1 levels*. Surg Endosc, 1998. **12**(5): p. 412-5.
8. Ottosson, J., et al., *Experimental septic shock--effects of corticosteroids*. Circ Shock, 1982. **9**(6): p. 571-7.
9. Kawamura, T., et al., *Influence of methylprednisolone on cytokine balance during cardiac surgery*. Crit Care Med, 1999. **27**(3): p. 545-8.
10. Shimada, M., et al., *The role of interleukin-6, interleukin-16, tumor necrosis factor-alpha and endotoxin in hepatic resection*. Hepatogastroenterology, 1995. **42**(5): p. 691-7.
11. Takeda, S., et al., *The effect of preoperative high dose methylprednisolone in attenuating the metabolic response after oesophageal resection*. Eur J Surg, 1997. **163**(7): p. 511-7.
12. Komori, K., et al., *Cytokine patterns and the effects of a preoperative steroid treatment in the patients with abdominal aortic aneurysms*. Int Angiol, 1999. **18**(3): p. 193-7.
13. Nagelschmidt, M., et al., *Preoperative high dose methylprednisolone improves patients outcome after abdominal surgery*. Eur J Surg, 1999. **165**(10): p. 971-8.
14. Shimada, M., et al., *The effect of a perioperative steroid pulse on surgical stress in hepatic resection*. Int Surg, 1996. **81**(1): p. 49-51.
15. Court, F.G., et al., *The mystery of liver regeneration*. Br J Surg, 2002. **89**(9): p. 1089-95.
16. Irmscher, J. and R. Johne, *Lexikon der Antike*. 1982, Leipzig: VEB Bibliographisches Institut.
17. Diehl, A.M. and R. Rai, *Review: regulation of liver regeneration by pro-inflammatory cytokines*. J Gastroenterol Hepatol, 1996. **11**(5): p. 466-70.
18. Nagasue, N., et al., *Human liver regeneration after major hepatic resection. A study of normal liver and livers with chronic hepatitis and cirrhosis*. Ann Surg, 1987. **206**(1): p. 30-9.
19. Fausto, N., *Liver regeneration*. J Hepatol, 2000. **32**(1 Suppl): p. 19-31.
20. Menger, M.D. and B. Vollmar, *Surgical trauma: hyperinflammation versus immunosuppression?* Langenbecks Arch Surg, 2004. **389**(6): p. 475-84.
21. Badia, J.M., et al., *Peritoneal and systemic cytokine response to laparotomy*. Br J Surg, 1996. **83**(3): p. 347-8.

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22. Lennard, T.W., et al., *The influence of surgical operations on components of the human immune system*. Br J Surg, 1985. **72**(10): p. 771-6.
23. Jerin, A., et al., *Balance of pro- and anti-inflammatory cytokines in liver surgery*. Clin Chem Lab Med, 2003. **41**(7): p. 899-903.
24. Kimura, F., et al., *Circulating cytokines, chemokines, and stress hormones are increased in patients with organ dysfunction following liver resection*. J Surg Res, 2006. **133**(2): p. 102-12.
25. Kountouras, J., P. Boura, and N.J. Lygidakis, *Liver regeneration after hepatectomy*. Hepatogastroenterology, 2001. **48**(38): p. 556-62.
26. Scatton, O., et al., *Major liver resection without clamping: a prospective reappraisal in the era of modern surgical tools*. J Am Coll Surg, 2004. **199**(5): p. 702-8.
27. Lefering, R. and E.A. Neugebauer, *Steroid controversy in sepsis and septic shock: a meta-analysis*. Crit Care Med, 1995. **23**(7): p. 1294-303.
28. Hall, E.D., J.M. McCall, and E.D. Means, *Therapeutic potential of the lazaroids (21-aminosteroids) in acute central nervous system trauma, ischemia and subarachnoid hemorrhage*. Adv Pharmacol, 1994. **28**: p. 221-68.
29. Forth, W., et al., eds. *Allgemeine und spezielle Pharmakologie und Toxikologie*. 7 ed. 1996, Spektrum Akademischer Verlag GmbH: Heidelberg, Berlin, Oxford.
30. Kaiser, H. and K.H. K., *Cortisontherapie: Corticoide in Klinik und Praxis*. 2002, Stuttgart: Thieme.
31. Barnes, P.J., *Anti-inflammatory actions of glucocorticoids: molecular mechanisms*. Clin Sci (Lond), 1998. **94**(6): p. 557-72.
32. Buttigereit, F., et al., *Effects of methylprednisolone and 21-aminosteroids on mitogen-induced interleukin-6 and tumor necrosis factor-alpha production in human peripheral blood mononuclear cells*. J Pharmacol Exp Ther, 1995. **275**(2): p. 850-3.
33. Neugebauer, E., et al., *[Glucocorticoids in multiple trauma and infection--still a topic for discussion?]*. Klin Wochenschr, 1991. **69 Suppl 26**: p. 211-23.
34. Buttigereit, F., et al., *[Mechanisms of action of high-dosage glucocorticoid therapy]*. Dtsch Med Wochenschr, 1996. **121**(8): p. 248-52.
35. Oppenheim, J.J., *The cytokine handbook*. 3 ed, ed. J.J. Oppenheim. 1998: Academic Press Limited.
36. Cohen, S., P.E. Bigazzi, and T. Yoshida, *Commentary. Similarities of T cell function in cell-mediated immunity and antibody production*. Cell Immunol, 1974. **12**(1): p. 150-9.
37. Biffl, W.L., et al., *Interleukin-6 in the injured patient. Marker of injury or mediator of inflammation?* Ann Surg, 1996. **224**(5): p. 647-64.
38. Hanisch, U.K., *Microglia in the degenerating and regenerating CNS*, ed. W.J. Streit. 2001, New York: Springer Verlag.
39. Aarden, L.A., et al., *Revised nomenclature for antigen-nonspecific T cell proliferation and helper factors*. J Immunol, 1979. **123**: p. 2928-9.
40. Oppmann, B., et al., *Novel p19 protein engages IL-12p40 to form a cytokine, IL-23, with biological activities similar as well as distinct from IL-12*. Immunity, 2000. **13**(5): p. 715-25.
41. Hibi, M., K. Nakajima, and T. Hirano, *IL-6 cytokine family and signal transduction: a model of the cytokine system*. J Mol Med, 1996. **74**(1): p. 1-12.
42. Lee, S.C., et al., *Cytokine production by human fetal microglia and astrocytes. Differential induction by lipopolysaccharide and IL-1 beta*. J Immunol, 1993. **150**(7): p. 2659-67.

43. Benveniste, E.N., *Cytokine actions in the central nervous system*. Cytokine Growth Factor Rev, 1998. **9**(3-4): p. 259-75.
44. Frei, K., et al., *On the cellular source and function of interleukin 6 produced in the central nervous system in viral diseases*. Eur J Immunol, 1989. **19**(4): p. 689-94.
45. Houssiau, F. and J. Van Snick, *IL6 and the T-cell response*. Res Immunol, 1992. **143**(7): p. 740-3.
46. Geiger, T., et al., *Induction of rat acute-phase proteins by interleukin 6 in vivo*. Eur J Immunol, 1988. **18**(5): p. 717-21.
47. Di Padova, F., et al., *Selective and early increase of IL-1 inhibitors, IL-6 and cortisol after elective surgery*. Clin Exp Immunol, 1991. **85**(1): p. 137-42.
48. Ibelgaufts, H., ed. *Lexikon Zytokine*. 1992, Medikon Verlag: München.
49. van Deuren, M., A.S. Dofferhoff, and J.W. van der Meer, *Cytokines and the response to infection*. J Pathol, 1992. **168**(4): p. 349-56.
50. Walley, K.R., et al., *Decrease in left ventricular contractility after tumor necrosis factor-alpha infusion in dogs*. J Appl Physiol, 1994. **76**(3): p. 1060-7.
51. Sakamoto, T., et al., *Mitosis and apoptosis in the liver of interleukin-6-deficient mice after partial hepatectomy*. Hepatology, 1999. **29**(2): p. 403-11.
52. Selzner, M., C.A. Camargo, and P.A. Clavien, *Ischemia impairs liver regeneration after major tissue loss in rodents: protective effects of interleukin-6*. Hepatology, 1999. **30**(2): p. 469-75.
53. Diehl, A.M., *Cytokine regulation of liver injury and repair*. Immunol Rev, 2000. **174**: p. 160-71.
54. Petersen, F., et al., *Neutrophil-activating polypeptides IL-8 and NAP-2 induce identical signal transduction pathways in the regulation of lysosomal enzyme release*. Lymphokine Cytokine Res, 1991. **10**(1-2): p. 35-41.
55. Wertheim, W.A., et al., *Regulation of neutrophil-derived IL-8: the role of prostaglandin E2, dexamethasone, and IL-4*. J Immunol, 1993. **151**(4): p. 2166-75.
56. Carswell, E.A., et al., *An endotoxin-induced serum factor that causes necrosis of tumors*. Proc Natl Acad Sci U S A, 1975. **72**(9): p. 3666-70.
57. Zhang, B., et al., *Plasma tumor necrosis factor-alpha, its soluble receptors and interleukin-1beta levels in critically burned patients*. Burns, 1998. **24**(7): p. 599-603.
58. Sikora, J.P., D. Chlebna-Sokol, and A. Krzyzanska-Oberbek, *Proinflammatory cytokines (IL-6, IL-8), cytokine inhibitors (IL-6sR, sTNFRII) and anti-inflammatory cytokines (IL-10, IL-13) in the pathogenesis of sepsis in newborns and infants*. Arch Immunol Ther Exp (Warsz), 2001. **49**(5): p. 399-404.
59. Diehl, A.M., et al., *Tumor necrosis factor-alpha induces c-jun during the regenerative response to liver injury*. Am J Physiol, 1994. **267**(4 Pt 1): p. G552-61.
60. Pradier, O., et al., *CD 40 engagement induces monocyte procoagulant activity through an interleukin-10 resistant pathway*. Eur J Immunol, 1996. **26**: p. 3048-54.
61. Chau, G.Y., et al., *Serum interleukin-10 but not interleukin-6 is related to clinical outcome in patients with resectable hepatocellular carcinoma*. Ann Surg, 2000. **231**(4): p. 552-8.
62. Uchiyama, T., et al., *Interleukin-10 induction after combined resection of liver and pancreas*. Hepatogastroenterology, 2001. **48**(42): p. 1705-10.
63. Rai, R.M., et al., *Kupffer cell depletion abolishes induction of interleukin-10 and permits sustained overexpression of tumor necrosis factor alpha messenger RNA in the regenerating rat liver*. Hepatology, 1997. **25**(4): p. 889-95.

64. Reith, H.B. and U. Mittelkötter, *Procalcitonin, ein neuer Infektionsparameter*. Arzneimitteltherapie, 1997. **15**(12): p. 375-8.
65. Assicot, M., et al., *High serum procalcitonin concentrations in patients with sepsis and infection*. Lancet, 1993. **341**(8844): p. 515-8.
66. Molter, G.P., et al., [Procalcitonin plasma concentrations and systemic inflammatory response following different types of surgery]. Anaesthetist, 2003. **52**(3): p. 210-7.
67. Hoflich, C. and H.D. Volk, [Immunomodulation in sepsis]. Chirurg, 2002. **73**(11): p. 1100-4.
68. Brunner, E., S. Domhof, and F. Langer, *Nonparametric Analysis of Longitudinal Data in Factorial Experiments (Wiley Series in Probability and Statistics)*. 2002, New York: John Wiley & Sons Inc. 288.
69. Lygidakis, N.J. and G.N.J. Tytgat, *Hepatobiliary and pancreatic malignancies, diagnosis, medical and surgical management*. 1989, Stuttgart: Thieme.
70. Krantz, T., et al., [Assessment of early postoperative convalescence by a simple scoring system]. Ugeskr Laeger, 1990. **152**(16): p. 1168-70.
71. Docke, W.D., et al., *Monitoring temporary immunodepression by flow cytometric measurement of monocytic HLA-DR expression: a multicenter standardized study*. Clin Chem, 2005. **51**(12): p. 2341-7.
72. Redmond, H.P., et al., *Immune function in patients undergoing open vs laparoscopic cholecystectomy*. Arch Surg, 1994. **129**(12): p. 1240-6.
73. Schwenk, W., et al., *Inflammatory response after laparoscopic and conventional colorectal resections - results of a prospective randomized trial*. Langenbecks Arch Surg, 2000. **385**(1): p. 2-9.
74. Yamashita, Y., et al., *Effects of preoperative steroid administration on surgical stress in hepatic resection: prospective randomized trial*. Arch Surg, 2001. **136**(3): p. 328-33.
75. Schulze, S., et al., *Effect of prednisolone on the systemic response and wound healing after colonic surgery*. Arch Surg, 1997. **132**(2): p. 129-35.
76. Volk, H.D., P. Reinke, and W.D. Docke, *Immunological monitoring of the inflammatory process: Which variables? When to assess?* Eur J Surg Suppl, 1999(584): p. 70-2.
77. Hensler, T., et al., *Distinct mechanisms of immunosuppression as a consequence of major surgery*. Infect Immun, 1997. **65**(6): p. 2283-91.
78. Nystrom, P.O., *The systemic inflammatory response syndrome: definitions and aetiology*. J Antimicrob Chemother, 1998. **41 Suppl A**: p. 1-7.
79. Buunen, M., et al., *Stress response to laparoscopic surgery: a review*. Surg Endosc, 2004. **18**(7): p. 1022-8.
80. Carter, J.J. and R.L. Whelan, *The immunologic consequences of laparoscopy in oncology*. Surg Oncol Clin N Am, 2001. **10**(3): p. 655-77.
81. Castell, J.V., et al., *Acute-phase response of human hepatocytes: regulation of acute-phase protein synthesis by interleukin-6*. Hepatology, 1990. **12**(5): p. 1179-86.
82. Shimada, H., et al., *Clinical benefits of steroid therapy on surgical stress in patients with esophageal cancer*. Surgery, 2000. **128**(5): p. 791-8.
83. Schwenk, W., B. Bohm, and J.M. Muller, *Postoperative pain and fatigue after laparoscopic or conventional colorectal resections. A prospective randomized trial*. Surg Endosc, 1998. **12**(9): p. 1131-6.
84. Stage, J.G., et al., *Prospective randomized study of laparoscopic versus open colonic resection for adenocarcinoma*. Br J Surg, 1997. **84**(3): p. 391-6.

85. Kimura, F., et al., *Hyperactive cytokine response after partial hepatectomy in patients with biliary obstruction*. Eur Surg Res, 1998. **30**(4): p. 259-67.
86. Ueda, T., et al., *Levels of interleukin (IL)-6, IL-8, and IL-1 receptor antagonist in the hepatic vein following liver surgery*. Hepatogastroenterology, 2000. **47**(34): p. 1048-51.
87. Glanemann, M., et al., *Steroid administration before partial hepatectomy with temporary inflow occlusion does not influence cyclin D1 and Ki-67 related liver regeneration*. Langenbecks Arch Surg, 2004. **389**: p. 380-6.
88. Streetz, K.L., et al., *Interleukin 6 and liver regeneration*. Gut, 2000. **47**(2): p. 309-12.
89. Wustefeld, T., et al., *Hyperstimulation with interleukin 6 inhibits cell cycle progression after hepatectomy in mice*. Hepatology, 2000. **32**(3): p. 514-22.
90. Muratore, A., et al., *Prospective randomized study of steroids in the prevention of ischaemic injury during hepatic resection with pedicle clamping*. Br J Surg, 2003. **90**(1): p. 17-22.
91. Aldrighetti, L., et al., *Impact of preoperative steroids administration on ischaemia-reperfusion injury and systemic responses in liver surgery: a prospective randomized study*. Liver Transpl, 2006. **12**(6): p. 941-9.