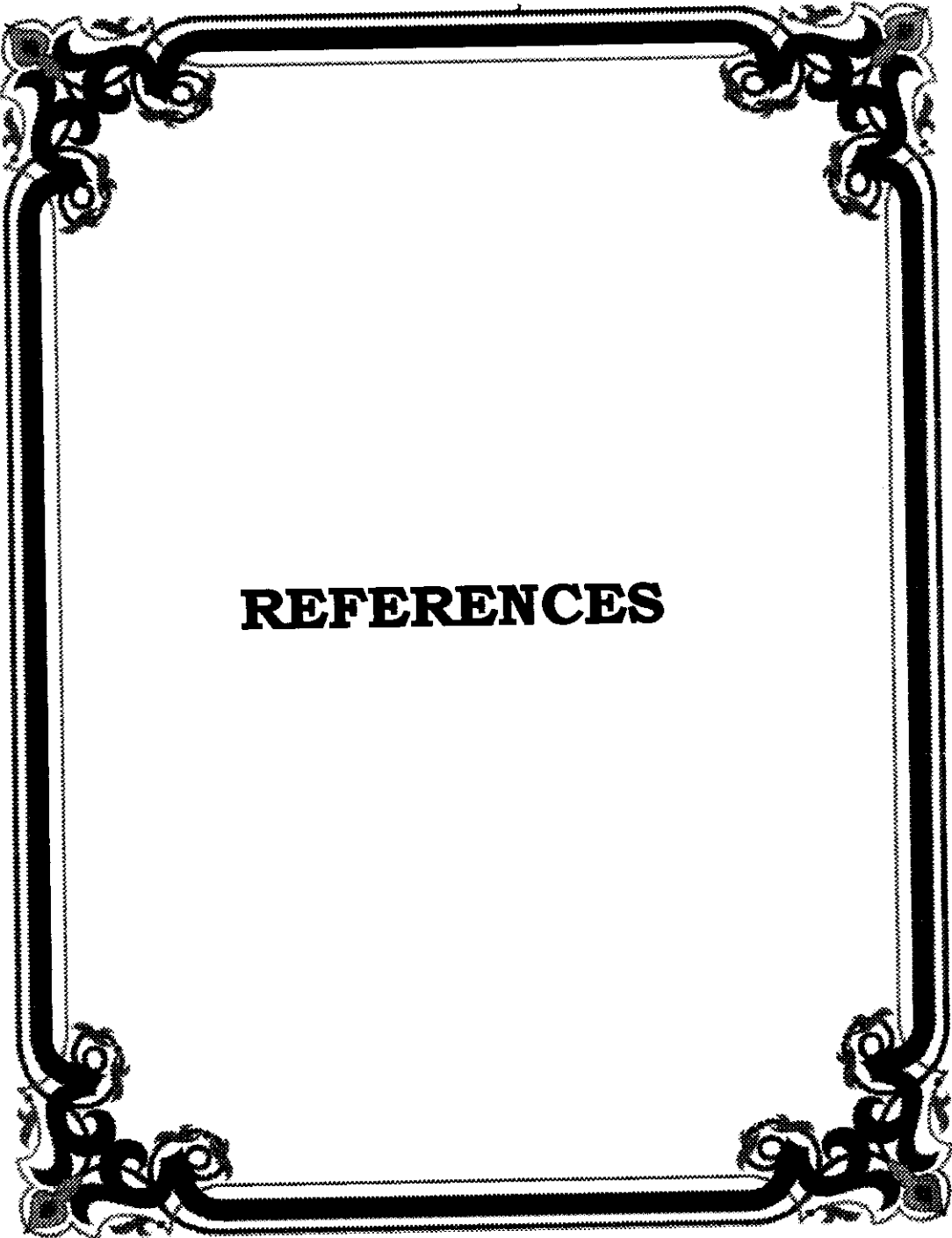




REFERENCES

REFERENCES

1. **Ahrendt SA, McGuire GE, Pitt HA, et al:** Why does somatostatin cause gallstones? Am J Surg 161:177, 1991.
2. **Alien M, Gu J, Adrian TE, et al:** Neuropeptide Y in the guinea pig biliary tract. Experientia 40:765, 1984
3. **Amer MS and McKinney GR:** Studies with cholecystokinin in vitro IV: Effect of cholecystokinin and related peptides on phosphodiesterase. J Pharmacol Exp Ther 183:535, 1972.
4. **Amer MS:** Studies with cholecystokinin in vitro III: Mechanism of the effect on the isolated rabbit gallbladder strips. J Pharmacol Exp Ther 183:527, 1972
5. **Anastasi A., Rrspamer V and Endear R:** isolation and amino acid sequence of cerulein, the active decapeptide of the skin of Hyla caerulea. Arch Biochem Biophys 125:57, 1968
6. **Apstein MD, George B and Tchakarova B:** The incidence of gallstones following spinal cord injury: A prospective study. Hepatology 16:154A, 1992
7. **Barth RA, Brasch RC, and Filly R:** Abdominal pseudotumor in childhood: Distended gallbladder with parenteral hyperalimentation. AJR Am J Roentgenol 136:341, 1981
8. **Bauer AJ, Hanani M, Muir TC, et al:** Intracellular recordings from gallbladder ganglia of opossums. Am J Physiol 260:G299, 1991

9. **Bloom SR:** Gastrointestinal Hormones. In Crane RK (ed); Gastrointestinal Physiology II, vol 12. Baltimore, University Press, 1977, p 71
10. **Boden G and Shimovana R:** Somatostatinomas. In Cohen S, Soloway RD (eds): Hormoneproducing Tumors of the Gastrointestinal Tract. New York, Churchill Livingstone, 1985, p 85
11. **Bolondi L, Gaiani S, Testa S, et al:** Risk factors for the development of cholelithiasis in man. Gut 26:734, 1985
12. **Braun B:** Untersuchung 7-ur Abhangigkcit der Gallenblasenkontraktion und Wiederauffüllung vom weiblichen Zyklus. In Kratochwil A, Reinold E (eds): Ultraschall-diagnostik. Stuttgart, Georg Thieme Verlag, 1982, p 154
13. **Brooks FP:** Anatomy and physiology of the gallbladder and bile ducts. In Boehs HL (ed): Gastroenterology. Philadelphia/ WB Saunders, 1976, p 611
14. **Buscail L, Tauber JP, Escourrou J, et al:** Gallstone formation and occurrence of cholesterol monohydrate crystals in gallbladder bile of patients with long term Sandostatin treatment [abstract]. Gastroenterology 96:A580, 1989.
15. **Cameron AJ, Phillips SF, Summerskill WH:** Effect of cholecystikinin, gastrin, secretin and glucagon on human gallbladder in vitro. Proc Soc Exp Biol Med 131:149, 1968

16. **Cano N, Cicero F, Ranieri F, et al:** Ultrasonographic study of gallbladder motility during total parenteral nutrition. *Gastroenterology* 91:313,1986
17. **Cantor P, Petrojijevic L, Pedersen JF, et al:** Cholecystbkinetic and pancreozymic effect of o-sulfated gastrin compared with non-sulfated gastrin and cholecystokinin. *Gastroenterology* 91:1154, 1986.
18. **Carey M, Cahalane M:** Whither biliary sludge? *Gastroenterology* 95:508,1988
19. **Catnach SM, Fairclough PD, Trembath RC, et al:** Effect of oral erythromycin on gallbladder motility in normal subjects and subjects with gallstones. *Gastroenterology* 102:2071,1992.
20. **Chemish SM, Miller RE, Rosenak BD:** Hypotonic duodenography with the use of glucagon- *Gastroenterology* 63:392,1972
21. **Clave RA, Caspar MA:** Incidence of gallbladder disease after vagotomy. *Am J Surg* 118:169,1969.
22. **Confer R, Roslyn JJ, Muller EL, et al:** Effect of pancreatic polypeptide on gallbladder filling. *J Surg Res* 38:461, 1985
23. **Confer RL, Roslyn JJ, Taylor IL:** Effects of peptide YY on gallbladder mohlity. *Am Physiol* 252:736,1987
24. **Crochelt RF, Peiken SR:** Effect of nifedipine and extracellular calcium on spontaneous and potassium-stimulated bovine gallbladder contraction (abstract). *Gastroenterology* 92:1799,1987.

25. **Daignault P, Fazekas A, Rosenthal L, et al:** Relationship between gallbladder contraction and progesterone receptors in patients with gallstones. *Am J Surg* 155:147, 1988.
26. **Davis M, Ryan J:** Influence of progesterone on guinea pig gallbladder motility in vitro. *Dig Dis Sci* 31:513, 1986
27. **Dockray GJ:** Molecular evolution of gut hormones: Application of comparative studies on the regulation of digestion. *Gastroenterology* 72:344, 1978
28. **Dolyle JE. Et al., 1969:** A sphincter mechanism in the cystic duct of dogs. *J. Med. Sci.* 2:109.
29. **Doo E, Krishnamurthy GT, Fklem MJ, et al:** Quantification of hepatobiliary function as an integral part of imaging with technetium-99m-mebrofenm in health and disease. *J Nucl Med* 32:48, 1991
30. **Dotv IE, Pitt HA, Porter-Fink V, et al:** The effect of intravenous fat and total parenteral nutrition on biliary physiology. *JPEN J Parenter Enteral Nutr* 8:263, 1984
31. **Doty JE, Pitt HA, Porter-Fink V, et al:** Cholecystokinin prophylaxis of parenteral nutrition-induced gallbladder disease- *Ann Surg* 201:76, 1985
32. **Doty JE, Pitt HA, Kechenbecker SL:** Impaired gallbladder emptying before gallstone formation in the prairie dog. *Gastroenterology* 85:168, 1983.

33. **Doyle JS, Farrar JT:** A sphincteric mechanism in the cystic duct of dogs. *Irish J Med Sci* 2:109, 1969
34. **Ensinck JW, Vogel RE, Laschansky EC, et al:** Effect of ingested carbohydrate, fat, and protein on the release of somatostatin-28 in humans. *Gastroenterology* 98:633,1990
35. **Everson GT, Braverman DZ, Johnson ML, et al:** A critical evaluation of real-time ultrasonography for the study of gallbladder volume and contraction. *Gastroenterology* 79:40, 1980
36. **Everson GT:** Gallbladder function in gallstone disease. *Gastroenterol Clin North Am* 20:85,1991.
37. **Everson R, Byar D, Bischoff A;** Estrogen predisposes to cholecystectomy but not to stones. *Gastroenterology* 82:4,1982
38. **Feeley TM, Lennon F, Clanachan AS, et al:** Motility in normal and diseased human gallbladder [abstract], *Br J Surg* 71:988,1984
39. **Fisher RS, Roberts GS, Grabowski CJ, et al:** Inhibition of lower esophageal sphincter circular muscle by female sex hormones. *Am J Physiol* 234:E243,1978
40. **Fisher RS, Rock E, Levin G, et al:** Effects of somatostatin on gallbladder emptying. *Gastroenterology* 92:885, 1987
41. **Fridhandler TM, Davison JS, Shaffer EA;** Defective gallbladder contractility in the ground squirrel and prairie dog during the early stages of cholesterol gallstone formation. *Gastroenterology* 85:830,1983.

42. **Fumess JB, Costa M, Emson PC, et al:** Distribution, pathways and reactions to drug treatment of nerves with neuropeptide Y- and pancreatic polypeptide-like immunoreactivity in the guinea pig digestive tract. *Cell Tissue Res* 234:71,1983
43. **Gerolami and Sarles, 1977**
44. **Golden GT, Sears HF III:** Post-traumatic cholecystitis. *Am Surg* 39:275,1973
45. **Gomez G, Lluís F, Guo Y-S, et al:** Bile inhibits release of cholecystokinin and neurotensin. *Surgery* 100:363, 1986
46. **Grace PA, Poston GJ, Williamson RCN:** Biliary motility. *Gut* 31:571,1990
47. **Gullick HD:** Roentgenologic study of gallbladder evacuation following non-biliary tract surgery. *Ann Surg* 151:403, 1960
48. **Hallenbeck GA:** Biliary and pancreatic pressures. In Code CF (ed): *The Handbook of Physiology VI: The Alimentary Canal, Vol 2 (Secretion)*. Washington, DC, American Physiological Society, 1968, p 1007
49. **Hallenbek GA. Et al., 1968:** Biliary and pancreatic pressures. *The handbook of physiology. The Alimentary canal. 2 (secretion)*
50. **Hashimoto T, Poston GJ, Gomez G, et al:** The effect of pancreastatin on cholecystokinin stimulated gallbladder contraction in vivo and in vitro [abstract]. *Gastroenterology* 94:A176, 1988

51. **Hashimoto T, Poston GJ, Greeley GH Jr, et al:** CGRP inhibits gallbladder contractility. *Surgery* 104:419, 1988
52. **Hedner P:** Effect of the C-terminal octapeptide of cholecystokinin on guinea pig ileum and gallbladder in vitro. *Acta Physiol Scand* 78:232, 1970
53. **Henriksson P, Einarsson K, Eriksson A, et al:** Estrogen-induced gallstone formation in males: Relation to changes in serum and biliary lipids during hormonal treatment of prostatic carcinoma. *J Clin Invest* 84:811, 1989
54. **Herring R, Simpson S:** The pressure of bile secretion and the mechanism of bile absorption in obstruction of the bile duct. *Proc R Soc Lond (Biol)* 79:517, 1907
55. **Hould FS, Fried GM, Fazekas AG, et al:** Progesterone receptors regulate gallbladder motility. *J Surg Res* 45:505, 1988
56. **Howard JM, Milford MT, DeBakey ME:** The significance of the sympathetic nervous system in acute cholecystitis. *Surgery* 32:251, 1952
57. **Howard RJ:** Acute acalculous cholecystitis. *Am Surg* 141:194, 1981
58. **Hutton SW, Sievert CE, Vennes JA, et al:** Inhibition of gallstone formation by sphincterotomy in the prairie dog: Reversal by atropine. *Gastroenterology* 82:1308, 1982
59. **Hutton SW, Sievert CE, Vennes JA, et al:** The effect of sphincterotomy on gallstone formation in the prairie dog. *Gastroenterology* 81:663, 1981

60. **Ivy AC, Oldberg E:** A hormone mechanism for gallbladder contraction and evacuation. *Am J Physiol* 86:599, 1928
61. **Jdiissun R, Svanvik J:** Effects of intravenous secretin and cholecystokinin on net water absorption and motility in the cat. *Gastroenterology* 72:639, 1977
62. **Jebbink MC, Masclee AA, van der Kleij FG, et al:** Effect of loxigiumide and atropine on erythromycin-induced reduction in gallbladder volume in human subjects. *Hepatology* 16:937, 1992
63. **Johnson LB:** The importance of early diagnosis of acute acalculous cholecystitis. *Surg Gynecol Obstet* 164:197, 1987
64. **Jorpes JE, Mutt V, Toczko K:** Further purification of cholecystokinin and pancreozymin. *Acta Chem Scand* 18:2408, 1964
65. **Kalfin R, Milenov K:** The effect of vasoactive intestinal polypeptide (VIP) on the canine gallbladder motility. *Comp Biochem Physiol* 100:513, 1991
66. **Kanayama S, Liddle RA:** Somatostatin regulates duodenal cholecystokinin and somatostatin messenger RNA. *Am J Physiol* 258:G358, 1990
67. **Katoaka S, Syoji K-I:** Elevated cholecystokinin-like activity in the duodenal mucosa in patients with cholecystolithiasis- *Tohoku J Exp Med* 145:395, 1985
68. **Kem F Jr, Everson GT:** Contraceptive steroids increase cholesterol in bile: Mechanisms of action. *J Lipid Res* 28:828, 1987

69. **Kern F Jr, et al., 1987:** Contraception steroids increase chdesteral in bile, mechanisms of action if lipid Res. 28:828.
70. **Kistler AM, Ziessman HA, Gooch D, et al:** Morphine-augmented cholcscmtigraphy in acute cholecystitis: A satisfactory alternative to delayed imaging. Clin Nucl Med 16:404, 1991
71. **Kistler AU, et al., 1991:** Morphine avgmented cholescintigraphy in actue cholecystities clin. Nucl Med. 16.
72. **Kjellgren K:** Persistence of symptoms following biliary surgery. Ann Surg 152:1026,1960.
73. **Kotwall CA, Clanachan AS, Baie HP:** Effect of prostaglandins on motility of gallbladders removed from patients with gallstones. Arch Surg 119:709,1984
74. **Krishnamurthy GT, and Bobba et al., :** "Radionucutide ejection factor": "A technique for qualitative analysis of motor function of the human gallbladder" Gastroenterology; 80:482-490.
75. **LaMorte WW, Booker ML, Scott TE:** Increases in gallbladder prostaglandin synthesis before the formation of cholesterol gallstones. Surgery 98:445,1985.
76. **LaMorte WW, Schoetz DJ Jr, Birkett.DH, et al:** The role of the gallbladder in the pathogenesis of cholesterol gallstones.; Gastroenterology 77:580, 1979
77. **Lee SP, LaMont JT, Carey MC;** Aspirin prevention of cholesterol gallstone formation in the prairie dog. Science 211:1429, 1981

78. **Lee SP, Maher K, Nicholls JF:** Origin and fate of biliary sludge. *Gastroenterology* 94:170, 1988.
79. **Lennard TWJ, Farnon JR, Taylor RMR:** Acalculous biliary pain; Diagnosis and selection for cholecystectomy using cholecystokinin test for pain reproduction. *Br J Surg* 71:368, 1984.
80. **Ihasz M, Griffith CA:** Gallstones after vagotomy. *Am J Surg* 141:48, 1981
81. **Liedberg G:** The effect of vagotomy on gallbladder and duodenal pressures during rest and stimulation with cholecystokinin. *Acta Chir Scand* 135:695, 1969
82. **Lillemoe KD, Webb TH, Pitt HA:** *Neuropeptide Y*: A candidate neurotransmitter for biliary motility. *J Surg Res* 45:254, 1988
83. **Lonovics J, Guzman S, Devitt P, et al:** Release of pancreatic polypeptide in humans by infusion of cholecystokinin. *Gastroenterology* 79:817, 1980
84. **Lonovics J, Varro V, Thompson JC:** The effect of cholecystokinin and substance P antagonists on cholecystokinin-substance P-stimulated gallbladder contraction [abstract], *Gastroenterology* 88:1480, 1985
85. **Mack AF, Todd JK:** A study of human gallbladder muscle in vitro. *Gut* 9:546, 1968
86. **Mackey WA:** Cholecystitis without stones. *Br J Surg* 22:274, 1934

87. **Magnusson TH, Lillemoe KD, Pitt HA:** How many Americans will be eligible for biliary lithotripsy? Arch Surg 124:1195, 1989
88. **MaLigelada JR, Go VLW, Summerskill WHJ:** Differing sensitivities of gallbladder and pancreas to cholecystokinin-pancreozymin (CCK-PZ) in man- Gastroenterology 64:950;1973
89. **Mamer BW, Hamilton FN, Silberstein EB, et al:** The value of hepatobiliary scans in fasted patients receiving total parenteral nutrition. Surgery 102:595, 1987
90. **Mann FC, Foster JP:** The secretory pressure of the liver with special reference to the presence or absence of a gallbladder. Am J Physiol 47:278, 1918
91. **Mann FC, Higgins GM:** Effect of pregnancy on emptying of the gallbladder. Arch Surg 15:522, 1927
92. **Maugdal DP, Kopfer RM, Zentler-Munro PL, et al:** Post prandial gallbladder emptying in patients with gallstones. Br Med J 280:141, 1980
93. **Menguy RB, Hallenbeck GA, Bollman JL, et al:** Intraductal pressures and sphincteric resistance in canine pancreatic and biliary ducts after various stimuli. Surg Gynecol Obstet 106:306, 1958
94. **Meri M, et al.,1990:** Effect of prostaglandins E1, E2, F2 alpha and pentgastrin on the gallbladder pressure in dogs. Eur. Of pharmacology. 30, 107, 1975.

95. **Messing B, Bories C, Kunstlinger F, et al:** Does total parenteral nutrition induce gallbladder sludge formation and lithiasis? *Gastroenterology* 84:1012, 1983
96. **Meyer PD, DenBesten L, Gurll WJ:** Effects of cholesterol gallstone induction on gallbladder function and bile salt pool size in the prairie dog model. *Surgery* 83:599, 1978
97. **Meyer PD, DenBesten L:** A comparison of methods for bile salt pool size measurements in the prairie dog gallstone model (39955). *Proc Soc Exp Biol Med* 156:452, 1997
98. **Meyers, J985:** Effects of cholesterol gaustones induction on gallbladder. Function and bile salt poll size in paa\irie dog model surgery 83:599.
99. **Muller EL, Grace PA, Pitt HA:** The effect of parenteral nutrition on biliary calcium and bilirubin. *J Surg Res* 40:55, 1986
100. **Mutt V, Jorpes JE:** Chemistry and physiology of cholecystokininin-pancreozymin. *Proc Int Union Physiol Sci* 6:193, 5968
101. **Nakano M, McCloy RE, Gin AC, et al:** Effect of prostaglandins E1, E2, F2alpha, and pentagastrin on the gallbladder pressure in dogs. *Eur J Pharmacol* 30:107.1975
102. **Neri M, Cuccurullo F, Marzio L:** Effect of somatostatin on gallbladder volume and small intestinal motor activity in humans. *Gastroenterology* 98:316, 1990
103. **Nilsson S, Statin S:** Gallbladder emptying during the normal menstrual cycle. *Acta Chir Scand* 133:648, 1967

104. **Northfield TC, Kupfer RM, Maugda DP, et al:** Gallbladder sensitivity to cholecystokinin in patients with gallstones- Br Med J 280:143, 1980
105. **O'Donnell LJD, Wilson P, Guest P, et al:** Indomethacin and postprandial gallbladder emptying. Lancet 339:269, 1992
106. **Pallin B, Skoglund S:** Neural and humoral control of the gallbladder emptying mechanism in the cat. Acta Physiol Scand 60:348, 1964
107. **Parkin GJS, Smith RB, Johnston D:** Gallbladder volume and contractility after truncal selective and highly selective (parietal-cell) vagotomy in man. Ann Surg 178:571, 1973.
108. **Peeters TL, Vantrappen G, Janssens J:** Fasting plasma motilin levels are related to the interdigestive motility complex. Gastroenterology 79:716, 1980
109. **Pellegrini C, Ryan T, Broderick W, et al:** Gallbladder filling and emptying during cholesterol gallstone formation in the prairie dog. Gastroenterology 90:143, 1986
110. **Pellegrini CA, Lewin M, Patti MG, et al:** Gallbladder filling and response to cholecystokinin are not affected by vagotomy. Surgery 98:452, 1985
111. **Petersen SR, Sheldon GF:** Acute acalculous cholecystitis: A complication of hyperalimentation. Am J Surg 138:814, 1979.
112. **Pitt HA, Berquist WE, Mann LL, et al:** Parenteral nutrition induces calcium bilirubinate gallstones [abstract]. Gastroenterology 84:A1274, 1983.

113. **Pitt HA, Doty JE, DenBesten L:** Increased intragallbladder pressure response to cholecystokinin-octapeptide following vagotomy and pyloroplasty. *J Surg Res* 35:325, 1983
114. **Pitt HA, Doty JE, Lewinski MA, et al:** Parenteral nutrition induces calcium bilirubinate sludge and gallstones in the prairie dog. *Clin Res* 31:243A, 1983
115. **Pitt HA, Doty JE, Roslyn JJ, et al:** The role of altered extrahepatic function in the pathogenesis of gallstones after vagotomy. *Surgery* 90:418, 1981
116. **Pitt HA, King W III, Mann LL, et al:** Increased risk of cholelithiasis with prolonged total parenteral nutrition. *Am J Surg* 145:106, 1983
117. **Pitt HA, Roslyn Jj, Kuchenbecker SL, et al:** The role of cystic duct resistance in the pathogenesis of cholesterol gallstones. *J Surg Res* 30:508, 1981
118. **Pomeranz IS, Shatter EA:** Abnormal gallbladder emptying in a subgroup of patients with gallstones. *Gastroenterology* 88:787, 1985
119. **Poston GJ, Singh P, Draviam E, et al:** Early stages of gallstone formation in guinea pig are associated with decreased biliary sensitivity to cholecystokinin. *Dig Dis Sci* 37:1236, 1992.
120. **Raghavendra BN, Feiner HD, Subramanyam BR, et al:** Acute cholecystitis: Sonographic-pathologic analysis. *AJR Am J Roentgenol* 137:327, 1981

121. **Rhodes M, Lennard TWJ, Farndon JR et al:** Cholecystokinin provocation test: Long-term follow-up after cholecystectomy. *Br J Surg* 75:951, 1988
122. **Roslyn JJ, Berequist WE, Pitt HA, et al:** Increased risk of gallstones in children on total parenteral nutrition. *Pediatrics* 71:784, 1983
123. **Roslyn JJ, DenBesten L, Pitt HA:** Effects of cholecystokinin on gallbladder stasis and cholesterol formation. *J Surg Res* 30:200, 1981
124. **Roslyn JJ, DenBesten L, Thompson JE Jr:** The effect of periodic gallbladder emptying on gallbladder function and cholesterol gallstone formation. *Surg Forum* 30:403, 1979
125. **Roslyn JJ, Pitt HA, Mann LL, et al:** Gallbladder disease in patients on long-term parenteral nutrition. *Gastroenterology* 84:148, 1983
126. **Rraverman DZ, Johnson ML, Kem F Jr:** Effects of pregnancy and contraceptive steroids on gallbladder function. *N Engl J Med* 302:362, 1980
127. **Rudick J, Hutchinson JSF:** Evaluation of vagotomy and biliary function by combined oral cholecystography and intravenous cholangiography. *Ann Surg* 162:234, 1965
128. **Ryan J, Cohen S:** Interaction of gastrin I, secretin, cholecystokinin on gallbladder smooth muscle. *Am J Physiol* 230:553, 1976
129. **Ryan J, Cohen S:** Pressure-volume response to gastrointestinal hormones. *Am J Physiol* 230:1461, 1976

130. **Ryan J, Pellechia D**; Effect of progesterone pretreatment on guinea pig gallbladder motility in vitro. *Gastroenterology* 83:81,1982
131. **Ryan J, Ryave S**: Effect of vasoactive intestinal peptide on gallbladder smooth muscle in vitro. *Am J Physiol* 234:E44, 1978
132. **Ryan JP**: Motility of the gallbladder and biliary tree. In Johnson LP, Christensen J, Grossman MI, et al (eds): *Physiology of the Gastrointestinal Tract*. New York, Raven Press, 1986, p 473
133. **Sakamoto T, Fujimara M, Newman J, et al**: Comparison of hepatic elimination of different forms of cholecystokinin in dogs: Bioassay and radioimmuno assay comparison of cholecystokinin-sulfate and -33-sulfate. *J Clin Invest* 75:280, 1985.
134. **Savoca PE, Longo WE, Zucker KA, et al**: Acalculous cholecystitis: A new perspective. *Ann Surg* 211:433,1990
135. **Schjoldager B, Molero X, Miller LJ**: Functional and biochemical characterization of the human gallbladder muscularis ch'olecystokinin receptor. *Gastroenterology* 92:175,1987
136. **Schjoldager B, Poulsen SS, Schmidt P, et al**: Gastrin-releasing peptide is a transmitter mediating porcine gallbladder contraction. *Am J Physiol* 260:G577,1995
137. **Schmidt WE, Creutzfeldt W, Schleser A, et al**: Role of CCK in regulation of pancreaticobiliary functions and GI motiUty in humans: Effects of loxiglumide. *Am) Physiol* 260:G197,1991

138. **Schoetz DJ, Birkett DH, Williams LF:** Gallbladder motor function in the intact primate: Autonomic pharmacology. *J Surg Res* 24:513,1978
139. **Schoetz DJ, LaMorte WW, Birkett DH:** Gallbladder tone in the primate: A dynamic description by a new method. *Gastroenterology* 74:1090, 1978
140. **Scott GW, Otto WJ:** Resistance and sphincter-like properties of the cystic duct- *Surg Gynecol Obstet* 149:177, 1979
141. **Shatter EA, McOrmond P, Duggan H:** Quantitative cholescintigraphy: Assessment of gallbladder filling and emptying and duodenogastric reflux. *Gastroenterology* 79:899,1980
142. **Shorter RG, Bollman J. Baggenstoss H;** Pressures in the common hepatic duct of the rat. *Proc Soc Exp Biol Med* 102:682, 1959
143. **Siffort P, Silva G:** A simple method for computing the volume of the gallbladder. *Radiology* 52:94,1949
144. **Sitzmann JV, Pitt HA, Steinbom PA, et al:** Cholecystokinin prevents parenteral nutrition induced biliary sludge in humans. *Surg Gynecol Obstet* 170:25,1990
145. **Solcia E, Pearse AGE, Grube O, et al:** Revised Weisbaden classification of gut cells. *Rendic Gastroenterol* 5:13,1973
146. **Steigerwalt RW, Goldfine ID, Williams JA:** Characterization of cholecystokinin receptors on bovine gallbladder membranes. *Am J Physiol* 247:709, 1984

147. **Strah KM, Melendez RL, Pappas TN, et al;** Interactions of vasoactive intestinal polypeptide and cholecystokinin octapeptide on the control of gallbladder contraction. *Surgery* 99:469, 1986
148. **Sutherland SD:** The neurons of the gallbladder and gut. *J Anat* 101:701, 1967
149. **Takahashi I, Suzuki T, Aizawa I, et al:** Comparison of gallbladder contractions induced by motilin and cholecystokinin in dogs. *Gastroenterology* 82:419, 1982
150. **Thomell E, Jansson R, Svanvik J:** Indomethacin intravenously: A new way for effective relief of biliary pain. *Surgery* 90:468, 1981
151. **Thompson JC, Fender HR, Ramus NI, et al:** Cholecystokinin metabolism in man and dogs. *Ann Surg* 182:496, 1975
152. **Thompson JC, Fried GM, Ogden WD, et al:** Correlation between release of cholecystokinin and contraction of the gallbladder in patients with gallstones. *Ann Surg* 195:670, 1982
153. **Thornell E, Nilsson B, Jansson R, et al:** Effect of short-term indomethacin treatment on the clinical course of acute obstructive cholecystitis. *Eur J Surg* 157:127, 1991.
154. **Vantrappen G, Janssens J, Heltemans J:** Motilin and the interdigestive migrating myoelectric complex in man. *Dig Dis Sci* 24:497, 1979
155. **Vlahcevic ZR, Bell CC, Gregory DH, et al;** Relationship of bile acid pool size to the formation of lithogenic bile in female Indians of the Southwest. *Gastroenterology* 62:73; 1972.

156. **Von Helmsbach M**; Mikrogeologie. Berlin, Reimer, 1856
157. **Walker JP, Khalil T, Wiener J, et al**: The role of neurotensin in human gallbladder motility. *Ann Surg* 201:678,1985.
158. **Wamer BW, Hamilton FN, Silberstein EB, et al**: The value of hepatobiliary scans in fasted patients receiving total parenteral nutrition. *Surgery* 102:595, 1987
159. **Warren BL**: Small vessel occlusion in acute acalculous cholecystitis. *Surgery* 111:163, 1992
160. **Wedmann B, Schmidt G, Wegener M, et al**: Sonographic evaluation of gallbladder kinetics: In vitro and in vivo comparison of different methods to assess gallbladder emptying. *J Clin Ultrasound* 19:341, 1991
161. **Williams PL, Warwick R, Dyson M, et al (eds)**: *Gray's Anatomy*, ed 37. London Churchill Livingstone, 1989, p 1393
162. **Winkelsteiri A, Achsner PW**: The pressure factors in the biliary-duct system of the dog. *Am J Med Sci* 168:812, 1924
163. **Wood JR, Saverymuttu SH, Ashbrooke AB, et al**: Effects of various prostanoids on gallbladder muscle. *Adv Prostaglandin Thromboxane Leukotriene Res* 8:1569,1980
164. **Wood JR, Stamford IF**: Prostaglandins in chronic cholecystitis. *Prostaglandins* 13:97,1977

165. ***Xu Qw Shaffer EA***, cisopirde improved gallbladder contractility and bile lipid composition in animal model of gall stones. *Gastroenterology* 1993; 105:1184-91.
166. ***Yap L, Wycherley AC, Morphett AD, et al***: Acalculous biliary pain: Cholecystectomy alleviates symptoms in patients with abnormal cholescintigraphy. *Gastroenterology* 101:786, 1991
167. ***Yasui A, Naruse S, Yanihara C, et al***: Corelease of VIP and PHI by vagal stimulation in the dog. *Am J Physiol* 253:G13, 1987
168. ***Yau WM, Maklouf GM, Edwards LE, et al***: Mode of action of cholecystokinin and related peptides on gallbladder muscle. *Gastroenterology* 65:451, 1973.
169. ***Yost F., et al., 1999***: Acalculous biliary pain cholecystectomy alleviates symptoms in patients with normal cholescintigraphy. *Gastroenterology* 101:786-93.