

## 7. LITERATURVERZEICHNIS

1. Slessor A: Studies concerning the mechanism of water retention in addison's disease and in hypopituitarism. *J Clin Endocr* 1951; 11: 700-723
2. Baylis PH, Thompson CJ: Osmoregulation of vasopressin secretion and thirst in health and disease. *Clin Endocr (Oxf)* 1988; 29: 549-576
3. Baylis PH: Posterior pituitary function in health and disease. *Clin Endocrinol Metab* 1983; 12: 747-770
4. Bethune JE, Nelson DH: Hyponatremia in hypopituitarism. *N Engl J Med* 1965; 272: 771-776
5. Ahmed ABJ, George BC, Gonzalez-Auvert C, Dingman JF: Increased plasma arginine vasopressin in clinical adrenocortical insufficiency and its inhibition by glucocorticoids. *J Clin Invest* 1967; 46: 111-123
6. Purnell DC, Randall RV, Rynearson EH: Postpartum pituitary insufficiency: (Sheehan's syndrome): review of 18 cases. *Mayo Clin Proc* 1964; 39: 321-331
7. Davis BB, Bloom ME, Field JB, Mintz DH: Hyponatremia in pituitary insufficiency. *Metabolism* 1969; 18: 821-832
8. Haddock L, Vega LA, Aguiro F, Rodriguez O: Adrenocortical, thyroidal and human growth hormone reserve in Sheehan's syndrome. *Johns Hopkins Med J* 1972; 131: 80-99
9. Eulry F, Berthezene F: L'hyponatrémie, signe fréquent, parfois majeur et révélateur, dans l'insuffisance antéhypophysaire. *Ann Endocrinol (Paris)* 1978; 39: 53-54
10. Luboshitzky R, Sobel JD, Kurtzbaum A, Better OS, Spitz IM: Hypopituitarism with water intoxication and coma: favorable outcome following early treatment. *J Endocrinol Invest* 1979; 2: 423-426
11. Sordillo P, Matarese RA, Novich RK, Zabetakis PM, Michelis MF: Specific modalities of therapy for inappropriate antidiuretic hormone secretion. *Clin Nephrol* 1981; 15: 107-110
12. Okuno S, Inaba M, Nishizawa Y, Miki T, Inoue Y, Morii H: A case of hyponatremia in panhypopituitarism caused by primary empty sella syndrome. *Endocrinol Jpn* 1987; 34: 299-307
13. Sidorov J, Mitnick P: Postpartum hyponatremia. *Am J Med* 1987; 83: 183-184

14. Dingman JF, Despointes RH: Adrenal steroid inhibition of vasopressin release from the neurohypophysis of normal subjects and patients with Addison's disease. *J Clin Invest* 1960; 39: 1851-1863
15. Kleeman CR, Czaczkes JW, Cutler R: Mechanisms of impaired water excretion in adrenal and pituitary insufficiency. IV. Antidiuretic hormone in primary and secondary adrenal insufficiency. *J Clin Invest* 1964; 43: 1641-1648
16. Raisz LG, McNeely WF, Saxon L, Rosenbaum JD: The effects of cortisone and hydrocortisone on water diuresis and renal function in man. *J Clin Invest* 1957; 36: 767-779
17. Cooke CR, Steenburg RW: Effects of aldosterone and cortisol on the renal concentrating mechanism. *J Lab Clin Med* 1973; 82: 784-792
18. McDonald KM, Miller PD, Anderson RJ, Berl T, Schrier RW: Hormonal control of renal water excretion. *Kidney Int* 1976; 10: 38-45
19. Kleeman CR, Maxwell MH, Rockney RE: Mechanisms of impaired water excretion in adrenal and pituitary insufficiency. I. The role of altered glomerular filtration rate and solute excretion. *J Clin Invest* 1958; 37: 1799-1808
20. Kleeman CR, Koplowitz J, Maxwell MH, Cutler R, Dowling JT: Mechanisms of impaired water excretion in adrenal and pituitary insufficiency. II. Interrelationships of adrenal cortical steroids and antidiuretic hormone in normal subjects and in diabetes insipidus. *J Clin Invest* 1960; 39: 1472-1480
21. Green HH, Harrington AR, Valtin H: On the role of antidiuretic hormone in the inhibition of acute water diuresis in adrenal insufficiency and the effect of gluco- and mineralocorticoids in reversing the inhibition. *J Clin Invest* 1970; 49: 1724-1736
22. Boykin J, de Torrenté A, Erickson A, Robertson G, Schrier RW: Role of plasma arginine vasopressin in impaired water excretion of glucocorticoid deficiency. *J Clin Invest* 1978; 62: 738-744
23. Mandell IN, DeFronzo RA, Robertson GL, Schrier RW: Role of plasma arginine vasopressin in the impaired water diuresis of isolated glucocorticoid deficiency in the rat. *Kidney Int* 1980; 17: 186-195
24. Healy DL, Chrousos GP, Schulte HM, Gold PW, Hodgen GD: Increased adrenocorticotropin, cortisol and arginine vasopressin secretion in primates after the antiglucocorticoid steroid RU 486: dose response relationships. *J Clin Endocrinol Metab* 1985; 60: 1-4
25. Raff H: Glucocorticoid inhibition of neurohypophysial vasopressin secretion. *Am J Physiol* 1987; 252: R635-R644

26. Alexander SL, Irvine CHG, Livesey JH, Donald RA: The acute effect of lowering plasma cortisol on the secretion of corticotropin-releasing hormone, arginine vasopressin, and adrenocorticotropin as revealed by intensive sampling of pituitary venous blood in the normal horse. *Endocrinol* 1993; 133: 860-866
27. Oelkers W: Hyponatremia and inappropriate secretion of vasopressin (antidiuretic hormone) in patients with hypopituitarism. *N Engl J Med* 1989; 321: 492-496
28. Schwartz WB, Bennett W, Curelop S, Bartter FC: A syndrome of renal sodium loss and hyponatremia probably resulting from inappropriate secretion of the antidiuretic hormone. *Am J Med* 1957; 23: 529-542
29. Zerbe R, Stropes L, Robertson G: Vasopressin function in the syndrome of inappropriate antidiuresis. *Ann Rev Med* 1980; 31: 315-327
30. Miller M: Syndromes of excess antidiuretic hormone release. *Crit Care Clin* 2001; 1: 11-23
31. Kovacs L, Robertson GL: Syndrome of inappropriate antidiuresis. *Endocrinol Metab Clin North Am* 1992; 21: 859-875
32. Rüchardt A, Lydtin H: Störungen des Natrium- und Wasserhaushaltes. *Der Internist* 1999; 40: 861-871
33. Kern PA, Robbins RJ, Bichet D, Berl T, Verbalis JG: Syndrome of inappropriate antidiuresis in the absence of arginine vasopressin. *J Clin Endocrinol Metab* 1986; 62: 148-152
34. Koide Y, Oda K, Shimizu K, Shimizu A, Nabeshima J, Kimura S, Maruyama M, Yamashita K: Hyponatremia without inappropriate secretion of vasopressin in a case of myxedema. *Endocr Jap* 1982; 29: 363-368
35. Oelkers W, Hensen J: Syndrome of inappropriate antidiuretic hormone secretion (SIADH) in patients with hypopituitarism. In: Gross P, Richter D, Robertson GL, eds. Paris, John Libbey Eurotext 1993: 431-440
36. Puttermann C, Almong Y, Caraco Y, Gross DJ, Ben-Chetrit E: Inappropriate secretion of antidiuretic hormone in sheehan's syndrome: a rare cause of postpartum hyponatremia. *Am J Obstet Gynecol* 1991; 165: 1330-1333
37. De Leacy EA, Bowler S, Brown JM, Cowley DM: Corticotropin deficiency: a rare cause of hyponatremia mimicking SIADH. *Pathology* 1991; 23: 8-10
38. Lam KSL, Kung AWC, Young RTT: Postirradiation hypopituitarism presenting as severe hyponatremia. *Am J Med* 1992; 92: 219-220

39. Yamamoto T, Fukuyama J, Hasegawa K, Sugiura M: Isolated corticotropin deficiency in adults. *Arch Intern Med* 1992; 152: 1705-1712
40. Kamoi K, Tamura T, Tanaka K, Ishibashi M, Yamaji T: Hyponatremia and osmoregulation of thirst and vasopressin secretion in patients with adrenal insufficiency. *J Clin Endocrinol Metab* 1993; 77: 1584-1588
41. Sakurai A, Yamada T, Hashizume K: A case of initially undiagnosed hypoadrenalinism presenting inappropriate secretion of anti-diuretic hormone. *Endocr J* 1995; 42: 811-815
42. Yonemura K, Furuya R, Oki Y, Matsushima H, Ohishi K, Hishida A: Impaired water excretion in a hyponatremic patient following thyroidectomy: causal role of glucocorticoid deficiency. *Miner Electrolyte Metab* 1998; 24: 341-347
43. Yamamoto T, Fukuyamat J, Kabayama Y, Harada H: Dual facets of hyponatremia and arginine vasopressin in patients with ACTH deficiency. *Clin Endocrinol* 1998; 49: 785-792
44. Shibata T, Oeda T, Saito Y: Severe hyponatremia caused by hypothalamic adrenal insufficiency. *Intern Med* 1999; 38: 426-432
45. Kageyama Y: A case of isolated ACTH deficiency who developed autoimmune-mediated hypothyroidism and impaired water diuresis during glucocorticoid replacement therapy. *Endocr J* 2000; 47: 667-674
46. Iwai H, Ohno Y, Hoshiro M, Fujimoto M, Nishimura A, Kishitami Y, Aoki N: Syndrome of inappropriate secretion of antidiuretic hormone (SIADH) and adrenal insufficiency induced by rathke's cleft cyst: a case report. *Endocr J* 2000; 47: 393-399
47. Jacobi J, Titze J, Niewerth P, Lang R, Schulze B, Rupprecht HD: Severe hyponatremia due to hypothalamic-pituitary adrenal insufficiency. *Nephrol Dial Transplant* 2001; 16: 1708-1710
48. Ishikawa S, Saito T, Fukagawa A, Higashiyama M, Nakamura T, Kusaka I, Nagasaka S, Honda K, Saito T: Close association of urinary excretion of aquaporin-2 with appropriate and inappropriate arginine vasopressin-dependent antidiuresis in hyponatremia in elderly subjects. *J Clin Endocrinol Metab* 2001; 86: 1665-1671
49. Mora A, Enriquez R, Lacueva J, Bonilla F, González E, Llobregat R: Severe Hyponatremia and Hypopituitarism. *Nephron* 1995; 70: 139-140
50. Mushett CH, Porter CC, Silber RH: Effects of cortisone administered subcutaneously and orally to dogs. *Fed Proc* 1951; 10: 366

51. Sirek OV, Best CH: Intramuscular cortisone administration to dogs. *Proc Soc Exp Biol Med* 1952; 80: 594-598
52. Mulinos MG, Spingarn CL, Lojkin ME: Diabetes insipidus-like condition produced by small doses of desoxycorticosterone acetate in dogs. *Am J Physiol* 1941; 137: 102-112
53. Silvette H, Britton SW: Renal function in the opossum and the mechanism of cortico-adrenal and post-pituitary action. *Am J Physiol* 1938; 123: 630-639
54. Britton SW, Corey EL: Antagonistic adrenal and pituitary effects on body salts and water. *Science* 1941; 93: 405-406
55. Corey EL, Britton SW: The antagonistic action of desoxycorticosterone and post-pituitary extract on chloride and water balance. *Am J Physiol* 1941; 133: 511-519
56. Joles JA, Rijnberk A, van den Brom WE, Dogterom J: Studies on the mechanism of polyuria induced by cortisol excess in dog. *Vet Q* 1980; 2: 199-205
57. Lloyd CW, Lobotsky J: Serum antidiuretic substances and urinary corticosteroid in the human. *J Clin Endocr* 1950; 10: 318-328
58. Gaunt R, Birnie JH, Eversole WJ: Adrenal cortex and water metabolism. *Physiol Rev* 1949; 29: 281-310
59. Robinson AG, Seif SM, Verbalis JG, Brownstein MJ: Quantitation of changes in the content of neurohypophyseal peptides in hypothalamic nuclei after adrenalectomy. *Neuroendocrinology* 1983; 36: 347-350
60. Biewenga WJ, Rijnberk A, Mol JA: Osmoregulation of systemic vasopressin release during long-term glucocorticoid excess: a study in dogs with hyperadrenocorticism. *Acta Endocrinol* 1991; 124: 583-588
61. Lindeman RD, Van Buren HC, Raisz LG: Effect of steroids on water diuresis and vasopressin sensitivity. *J Clin Invest* 1961; 40: 152-158
62. Aubry RH, Nankin HR, Moses AM, Streeten DHP: Measurement of the osmotic threshold for vasopressin release in human subjects, and its modification by cortisol. *J Clin Endocrinol* 1965; 25: 1481-1492
63. Cornette KM, Claybaugh JR: Effect of peripheral and central cortisol infusion on ADH response to intravenous 5 % NaCl administration (Abstract 4830). *Fed Proc* 1983; 42: 1116
64. Papanek PE, Raff H: Physiological increases in cortisol inhibit basal vasopressin release in conscious dogs. *Am J Physiol* 1994; 266: R1744-R1751

65. Papanek PE, Raff H: Chronic physiological increases in cortisol inhibit the vasopressin response to hypertonicity in conscious dogs. Am J Physiol 1994; 267: R1342-R1349
66. Streeten DHP, Souma M, Ross GS, Miller M: Action of cortisol introduced into the supraoptic nucleus on vasopressin release and antidiuresis during hypertonic saline infusion in conscious rhesus monkeys. Acta Endocrinol 1981; 98: 195-204
67. Boscaro M, Barzon L, Fallo F, Sonino N: Cushing's syndrome. Lancet 2001; 357: 783-791
68. Allolio, Bruno und Heinrich M. Schulte: Praktische Endokrinologie, München, Wien, Baltimore 1996, S. 219-227
69. Pivonello R, Colao A, Di Somma C, Faccioli G, Klain M, Faggiano A, Salvatore M, Lombardi G: Impairment of bone status in patients with central diabetes insipidus. J Clin Endocrinol Metab 1998; 83: 2275-2280
70. Pivonello R, Faggiano A, Di Somma C, Klain M, Filippella M, Salvatore M, Lombardi G, Colao A: Effect of a short-term treatment with alendronate on bone density and bone markers in patients with central diabetes insipidus. J Clin Endocrinol Metab 1999; 84: 2349-2352
71. Walker LA, Whorton AR, Smigel M, France R, Fröhlich JC: Antidiuretic hormone increases renal prostaglandin synthesis in vivo. Am J Physiol 1978; 235: F180-F185
72. Raisz LG, Kream BE: Regulation of bone formation. N Engl J Med 1983; 309: 83-89
73. Raisz LG, Alander CB, Fall PM, Simmons HA: Effects of prostaglandin F2 $\alpha$  on bone formation and resorption in cultured neonatal mouse calvariae: role of prostaglandin E2 production. Endocrinology 1990; 126: 1076-1079
74. Kawaguchi H, Pilbeam CC, Harrison JR, Raisz LG: The role of prostaglandins in regulation of bone metabolism. Clin Orthop Relat Res 1995; 313: 36-46
75. Pearce G, Tabensky DA, Delmas PD, Baker HWG, Seeman E: Corticosteroid-induced bone loss in men. J Clin Endocrinol Metab 1998; 83: 801-806
76. Zimmerman EA, Stillman MA, Recht LD, Antunes JL, Carmel PW: Vasopressin and corticotropin-releasing factor: an axonal pathway to portal capillaries in the zona externa of the median eminence containing vasopressin and its interaction with adrenal corticoids. Ann NY Acad Sci 1977; 297: 405-417
77. Holmes MC, Antoni FA, Aguilera G, Catt KJ: Magnocellular axons in passage through the median eminence release vasopressin. Nature 1986; 319: 326-329

78. Antoni FA: Hypothalamic control of adrenocorticotropin secretion. Advances since the discovery of 41-residue corticotropin-releasing factor. *Endocrine Rev* 1986; 7: 351-378
79. Whitnall MH: Regulation of the hypothalamic corticotropin-releasing hormone neurosecretory system. *Prog Neurobiol* 1993; 40: 573-629
80. Pyo HJ, Summer SN, Kim JK, Schrier RW: Vasopressin gene expression in glucocorticoid hormone-deficient rats. *Ann NY Acad Sci* 1993; 689: 659-662
81. Shojii M, Kimura T, Ota K, Ohta M, Mori T, Sahata T, Yasujima M: Glucocorticoidal regulation of pituitary vasopressin content in rats. *Hypertens Res* 1999; 22: 39-42
82. Keller-Wood ME, Dallman MF: Corticosteroid inhibition of ACTH secretion. *Endocr Rev* 1984; 5: 1-24
83. Sawchenko PE: Evidence for a local site of action for glucocorticoids in inhibiting CRF and vasopressin expression in the paraventricular nucleus. *Brain Research* 1987; 403: 213-224
84. Fink G, Rosie R, Sheward WJ, Thomson E, Wilson H: Steroid control of central neuronal interactions and function. *J Steroid Biochem Molec Biol* 1991; 40: 123-132
85. Kretz O, Reichardt HM, Schütz G, Bock R: Corticotropin-releasing hormone expression is the major target for glucocorticoid feedback-control at the hypothalamic level. *Brain Research* 1999; 818: 488-491
86. Schlaghecke R, Kornely E, Santen RT, Ridderskamp P: The effect of long-term glucocorticoid therapy on pituitary-adrenal responses to exogenous corticotropin-releasing hormone. *N Engl J Med* 1992; 326: 226-230
87. Sawchenko PE, Swanson LW, Vale WW: Co-expression of corticotropin-releasing factor and vasopressin immunoreactivity in parvocellular neurosecretory neurons of the adrenalectomized rat. *Proc Natl Acad Sci USA* 1984; 81: 1883-1887
88. Wolfson B, Manning RW, Davis LG, Arentzen R, Baldino F: Co-localization of corticotropin releasing factor and AVP mRNA in neurons after adrenalectomy. *Nature* 1985; 315: 59-62
89. Uht RM, McKelvy JF, Harrison RW, Bohn MC: Demonstration of glucocorticoid receptor-like immunoreactivity in glucocorticoid-sensitive vasopressin and corticotropin-releasing factor neurons in the hypothalamic paraventricular nucleus. *J Neurosci Res* 1988; 19: 405-411

90. Herman JP: In situ hybridization analysis of vasopressin gene transcription in the paraventricular and supraoptic nuclei of the rat: regulation by stress and glucocorticoids. *J Comp Neurol* 1995; 363: 15-27
91. Ma X-M, Aguilera G: Differential regulation of corticotropin-releasing hormone and vasopressin transcription by glucocorticoids. *Endocrinology* 1999; 140: 5642-5650
92. Kiss ZJ, Mezey E, Skirboll L: Corticotropin-releasing factor-immunoreactive neurons of the paraventricular nucleus become vasopressin positive after adrenalectomy. *Proc Natl Acad Sci USA* 1984; 81: 1854-1858
93. Sapolsky RM, Armanini MP, Packan DR, Sutton SW, Plotsky PM: Glucocorticoid feedback inhibition of adrenocorticotrophic hormone secretagogue release. *Neuroendocrinology* 1990; 51: 328-336
94. Spinedi E, Giacomini M, Jarquier MC, Gaillard RC: Changes in the hypothalamo-corticotrope axis after bilateral adrenalectomy: evidence for a median eminence site of glucocorticoid action. *Neuroendocrinology* 1991; 53: 160-170
95. Kovács K, Földes A, Sawchenko PE: Glucocorticoid negative feedback selectively targets vasopressin transcription in parvocellular neurosecretory neurons. *J Neurosci* 2000; 20: 3843-3852
96. Davis LG, Arentzen R, Reid JM, Manning RW, Wolfson B, Lawrence KL, Baldino F: Glucocorticoid sensitivity of vasopressin mRNA levels in the paraventricular nucleus of the rat. *Proc Natl Acad Sci USA* 1986; 83: 1145-1149
97. Hu SB, Tannahill LA, Lightman SL: Regulation of arginine vasopressin mRNA in fetal hypothalamic cell culture. Role of protein kinases and glucocorticoids. *J Mol Endocrinol* 1993; 10: 51-57
98. Schilling K, Schmale H, Oeding P, Pilgrim C: Regulation of vasopressin expression in cultured diencephalic neurons by glucocorticoids. *Neuroendocrinology* 1991; 53: 528-535
99. Saphier D, Feldman S: Iontophoretic application of glucocorticoids inhibits identified neurons in the rat paraventricular nucleus. *Brain Res* 1988; 453: 183-190
100. Kiss JZ, Van Eekelen JAM, Reul JMHM, Westphal HM, De Kloet ER: Glucocorticoid receptor in magnocellular neurosecretory cells. *Endocrinology* 1988; 122: 444-449
101. Berghorn KA, Knapp LR, Hoffman GE, Sherman TG: Induction of glucocorticoid receptor expression in hypothalamic magnocellular vasopressin neurons during chronic hypoosmolality. *Endocrinology* 1995; 136: 804-807

102. Itoi K, Mouri T, Takahashi K, Murakami O, Imai Y, Sasaki S, Yoshinaga K, Sasano N: Suppression by glucocorticoid of the immunoreactivity of corticotropin-releasing factor and vasopressin in the paraventricular nucleus of rat hypothalamus. *Neurosci Lett* 1987; 73: 231-236
103. Grino M, Burgunder JM: Ontogeny of expression and glucocorticoid regulation of the arginine vasopressin gene in the rat hypothalamic paraventricular nucleus. *J Neuroendocrinol* 1992; 4: 71-77
104. Albeck DS, Hastings NB, McEwen BS: Effects of adrenalectomy and type I or type II glucocorticoid receptor activation on AVP and CRH mRNA in the rat hypothalamus. *Mol Brain Res* 1994; 26: 129-134
105. Unno N, Wu WX, Ding XY, Li C, Hing WK, Nathanielsz PW: The effects of fetal adrenalectomy at 110 days gestational age on AVP and CRH mRNA expression in the hypothalamic paraventricular nucleus of the ovine fetus. *Brain Res Dev Brain Res* 1998; 12: 119-128
106. Papanek PE, Sladek CD, Raff H: Corticosterone inhibition of osmotically stimulated vasopressin from hypothalamic-neurohypophysial explants. *Am J Physiol* 1997; 272: R158-R162
107. Vellucci SV, Parrott RF: Gene expression in the forebrain of dexamethasone-treated pigs: effects on stress neuropeptides in the hypothalamus and hippocampus and glutamate receptor subunits in the hippocampus. *Res Vet Sci* 2000; 69: 25-31
108. Burke ZD, Ho MY, Morgan H, Smith M, Murphy D, Carter D: Repression of vasopressin gene expression by glucocorticoids in transgenic mice: evidence of a direct mechanism mediated by proximal 5' flanking sequence. *Neuroscience* 1997; 78: 1177-1185
109. Iwasaki Y, Oiso Y, Saito H, Majzoub JA: Positive and negative regulation of the rat vasopressin gene promotor. *Endocrinology* 1997; 138: 5266-5274
110. Liu X, Wang CA, Chen YZ: Nongenomic effect of glucocorticoid on the release of arginine vasopressin from hypothalamic slices in rats. *Neuroendocrinology* 1995; 62: 628-633
111. Liu X, Chen YZ: Membrane-mediated inhibition of corticosterone on the release of arginine vasopressin from rat hypothalamic slices. *Brain Res* 1995; 704: 19-22
112. Erkut ZA, Pool C, Swaab DF: Glucocorticoids suppress corticotropin-releasing hormone and vasopressin expression in human hypothalamic neurons. *J Clin Endocrinol Metab* 1998; 83: 2066-2073

113. Swaab DF, Purba JS, Hofman MA: Alterations in the hypothalamic paraventricular nucleus and its oxytocin neurons (putative satiety cells) in prader-willi syndrome: a study of five cases. *J Clin Endocrinol Metab* 1995; 80: 573-579
114. Malayan SA, Ramsay DJ, Keil LC, Reid IA: Effects of increases in plasma vasopressin concentration on plasma renin activity, blood pressure, heart rate, and plasma corticosteroid concentration in conscious dogs. *Endocrinology* 1980; 107: 1899-1904
115. Hensen J, Hader O, Bähr V, Oelkers W: Effects of incremental infusions of arginine vasopressin on adrenocorticotropin and cortisol secretion in man. *J Clin Endocrinol Metab* 1988; 66: 668-671
116. Zerbe RL, Robertson GL: A comparison of plasma vasopressin measurements with a standard indirect test in the differential diagnosis of polyuria. *J Clin Endocrinol Metab* 1981; 305: 1539-1546
117. Baylis PH, Gaskill MB, Robertson GL: Vasopressin secretion in primary polydipsia and cranial diabetes insipidus. *Quarterly Journal of Medicine* 1981; 50: 345-358
118. Baylis PH: Investigation of suspected hypothalamic diabetes insipidus. *Clin Endocrinol* 1995; 43: 507-510
119. Diederich S, Eckmanns T, Exner P, Al-Saadi N, Bähr V, Oelkers W: Differential diagnosis of polyuric/polydipsic syndromes with the aid of urinary vasopressin measurement in adults. *Clin Endocrinol (Oxf)* 2001; 54: 665-671
120. Oelkers W: Adrenal insufficiency. *New Engl J Med* 1996; 335: 1206-1212
121. Oelkers W, Diederich S, Bähr V: Diagnosis and therapy surveillance in Addison's disease: rapid adrenocorticotropin (ACTH) test and measurement of plasma ACTH, renin activity, and aldosterone. *J Clin Endocrinol Metab* 1992; 75: 259-264
122. Mayenknecht J, Diederich S, Bähr V, Plöckinger U, Oelkers W: Comparison of low and high dose corticotropin stimulation tests in patients with pituitary disease. *J Clin Endocrinol Metab* 1998; 83: 1558-1562
123. Tuchelt H, Dekker K, Bähr V, Oelkers W: Dose-response relationship between plasma ACTH and serum cortisol in the insulin-hypoglycaemia test in 25 healthy subjects and 109 patients with pituitary disease. *Clin Endocrinol* 2000; 53: 301-307
124. Steiner H, Bähr V, Exner P, Oelkers W: Pituitary function tests: comparison of ACTH and 11-deoxy-cortisol responses in the metyrapone test, and with the insulin hypoglycemia test. *Exp Clin Endocrinol Diab* 1994; 102: 33-38

125. Achenbach K, Oelkers W: Comparison of insulin hypoglycemia and short metyrapone tests in patients with pituitary disease. *Klin Wochenschr* 1985; 63: 769-774
126. Schopohl J, Losa M, König A, Müller OA, Stalla GK, von Werder K: Combined pituitary function-test with four hypothalamic releasing hormones. *Klin Wochenschr* 1986; 64: 314-318
127. Morton JJ, Connell JMC, Hughes MJ, Inglis GC, Wallace ECH: The role of plasma osmolality, angiotensin II and dopamine in vasopressin release in man. *Clin Endocrinol (Oxf)* 1985; 23: 129-138
128. Bichet DG, Arthus M-F, Barjon JN, Lonergan M, Kortas C: Human Platelet Fraction Arginine-Vasopressin. *J Clin Invest* 1987; 79: 881-887
129. Skowsky WR, Fisher DA: The use of thyroglobulin to induce antigenicity to small molecules. *J Lab Clin Med* 1972; 80: 134-144
130. Steiner AL, Pagliara AS, Chase LR, Kipnis DM: Radioimmunoassay for cyclic nucleotides. *J Biol Chem* 1972; 247: 1114-1120
131. Sachs, Lothar: *Angewandte Statistik: Anwendung statistischer Methoden*, Berlin, Heidelberg 1999, S. 407-409
132. Cogan E, Debrieve MF, Pepersack T, Abramow M: Natriuresis and atrial natriuretic factor secretion during inappropriate antidiuresis. *Am J Med* 1988; 84: 409-418
133. Manoogian C, Pandian M, Ehrlich L, Fisher D, Horton R: Plasma atrial natriuretic hormone levels in patients with the syndrome of inappropriate antidiuretic hormone secretion. *J Clin Endocr* 1988; 67: 571-575
134. Kamoi D, Ebe T, Kobayashi O u.a.: Atrial natriuretic peptide in patients with the syndrome of inappropriate antidiuretic hormone secretion and with diabetes insipidus. *J Clin Endocrinol Metab* 1990; 70: 1385-1390
135. Kanno K, Sasaki S, Hirata Y, Ishikawa S, Fushimi K, Nakanishi S, Bichet D, Marumo F: Urinary excretion of aquaporin-2 in patients with diabetes insipidus. *N Engl J Med* 1995; 332: 1540-1545
136. Rai T, Sekine K, Kanno K, Hata K, Muira M, Mizushima A, Marumo F, Sasaki S: Urinary excretion of aquaporin-2 water channel protein in human and rat. *J Am Soc Nephrol* 1997; 8: 1357-2362
137. Saito T, Ishikawa S, Ando F, Okada N, Nakamura T, Kusaka I, Higashiyama M, Nagasaka S, Saito T: Exaggerated urinary excretion of aquaporin-2 in the

pathological state of impaired water excretion dependent upon arginine vasopressin. J Clin Endocrinol Metab 1998; 83: 4034-4040

138. Saito T, Higashiyama M, Nakamura T, Kusaka I, Nagasaka S, Saito T, Ishikawa S: Urinary excretion of the aquaporin-2 water channel exaggerated in pathological states of impaired water excretion. Clin Endocrinol 2001; 55: 217-221

139. Saito T, Ishikawa S, Ando F, Higashiyama M, Nagasaka S, Sasaki S, Saito T: Vasopressin-dependent upregulation of aquaporin-2 gene expression in glucocorticoid-deficient rats. Am J Physiol 2000; 279: F502-F508

140. Oelkers W: Hyponatriämie. Dtsch Med Wochenschr 1990; 115: 1720-1723

141. Seifert C, Oelkers W: Aldosterone response to sodium deprivation and angiotensin II in patients with hypopituitarism. Acta Endocrinologica 1981; 96: 361-369

142. Knochel JP, Osborn JR, Cooper EB: Excretion of aldosterone in inappropriate secretion of antidiuretic hormone following head trauma. Metabolism 1965; 14: 715-725

143. Androgué HJ, Madias NE: Hyponatremia. N Engl J Med 2000; 342: 1581-1589

144. Smith DM, McKenna K, Thompson CJ: Hyponatremia. Clin Endocrinol 2000; 52: 667-678

145. Berl T, Schrier RW: Disorders of water metabolism. In: Schrier RW, ed. Renal and electrolyte disorders. 5 th edition. Philadelphia; Lippincott-Raven Press 1997: 1-71

146. Goldberg M: Hyponatriemia. Med Clin North Am 1981; 65: 251-269

147. Verbalis JG: Hyponatremia: epidemiology, pathophysiology, and therapy. Curr Opin Nephrol Hypertens 1993; 2: 636-652

148. Gross P, Wehrle R, Bussemaker E: Hyponatremia: pathophysiology, differential diagnosis and new aspects of treatment. Clin Nephrol 1996; 46: 273-276

149. Gross P, Wehrle R, Wichmann A, Ketteler M, Hensen J: Suppression of arterial baroreceptors increases vasopressin in the hyponatremia of cirrhosis and heart failure. In: Jard S, Jaminson R, eds., Vasopressin Paris, John Libbey Eurotext 1991: 521-530

150. Anderson RJ, Chung HM, Kluge R, Schrier RW: Hyponatremia. A prospective analysis of its epidemiology and the pathogenetic role of vasopressin. Ann Intern Med 1985; 102: 164-168

151. Gross PA, Pehrissch H, Rascher W, Schömig A, Hackenthal E, Ritz E: Pathogenesis of clinical hyponatremia. Observations of vasopressin and fluid intake in 100 hyponatremic medical patients. *Europ J Clin Invest* 1987; 17: 123-129
152. Gross P, Hensen J: Evaluation of hyponatraemia: is there a rational approach? *Nephrol Dial Transplant* 1995; 1789-1791
153. Robertson GL, Aycinena P, Zerbe RL: Neurogenic disorders of osmoregulation. *Am J Med* 1982; 72: 339-353
154. Robertson GL: Syndrome of inappropriate antidiuresis. *N Engl J Med* 1989; 321: 538-539
155. Clayton RN: Diagnosis of adrenal insufficiency. *Brit Med J* 1989; 298: 271-272
156. Stewart PM, Corrie J, Seckl JR, Edwards CRW, Padfield PL: A rational approach for assessing the hypothalamo-pituitary-adrenal axis. *Lancet* 1988; 1: 1208-1210
157. Lamberts SWJ, Bruining HA, de Jong FH: Corticoid therapy in severe illness. *N Eng J Med* 1997; 337: 1285-1292
158. Vance ML: Hypopituitarism. *N Engl J Med* 1994; 330: 1651-1663
159. Ishikawa SE, Furuse M, Saito T, Okada K, Kuzuya T: Empty sella in control subjects and patients with hypopituitarism. *Endocrinol Jpn* 1988; 35: 665-674
160. Nawroth, Peter P. und Reinhard Ziegler: *Klinische Endokrinologie und Stoffwechsel*, Berlin, Heidelberg 2001, S. 75
161. Raber J, Pick EM, Koob GF, Bloom FE: IL-1 $\beta$  potentiates the acetylcholine-induced release of vasopressin from the hypothalamus in vitro, but not from the amygdala. *Neuroendocrinology* 1994; 59: 208-217
162. Mastorakos G, Weber JS, Magiakou M-A, Gunn H, Chrousos GP: Hypothalamic-pituitary-adrenal axis activation and stimulation of systemic vasopressin secretion by recombinant interleukin-6 in humans: potential implications for the syndrome of inappropriate vasopressin secretion. *J Clin Endocrinol Metab* 1994; 79: 934-939
163. Miller M: Syndromes of excess antidiuretic hormone release. *Critical Care Clinics* 2001; 1: 11-23
164. Palm C, Reimann D, Gross P: [Hyponatremia – with comments on hypernatremia.] *Ther Umsch* 2000; 57: 400-407

165. Raff H, Skelton MM, Cowley Jr AW: Feedback control of vasopressin and corticotropin secretion in conscious dogs: effects of hypertonic saline. *J Endocrinol* 1989; 122: 41-48
166. Raff H, Skelton MM, Merrill DC, Cowley Jr AW: Vasopressin responses to corticotropin releasing factor and hyperosmolality in conscious dogs. *Am J Physiol* 1986; 251: R1235-R1239
167. Yamada K, Tamura Y, Yoshida S: Effect of administration of corticotropin-releasing hormone and glucocorticoid on arginine vasopressin response to osmotic stimulus in normal subjects and patients with hypocorticotropinism without overt diabetes insipidus. *J Clin Endocrinol Metab* 1989; 69: 396-401
168. Robertson GL: Diabetes insipidus. *Endocrinol and Metab Clin North Am* 1995; 24: 549-572
169. Coffin DL, Munson TO: Endocrine disease of the dog associated with hair loss. *J Am Vet Med Ass* 1953; 123: 402-408
170. Bichet DG: Vasopressin receptors in health and disease. *Kidney Int* 1996; 49: 1706-1711
171. Knepper MA: Molecular physiology of urinary concentrating mechanism: regulation of aquaporin water channels by vasopressin. *Am J Physiol* 1997; 272: F3-F12
172. Attmane-Elakeb A, Sibella V, Vernimmen C, Belenfant X, Herbert SC, Bichara M: Regulation by glucocorticoids of expression and activity of rBSC1, the Na<sup>+</sup>-K<sup>+</sup>(NH<sub>4</sub><sup>+</sup>)-2Cl<sup>-</sup>Cotransporter of medullary thick ascending limb. *J Biol Chem* 2000; 275: 33548-33553
173. Yasui M, Marples D, Belusa R, Eklöf A-C, Celsi G, Nielsen S, Aperia A: Development of urinary concentrating capacity: role of aquaporin-2. *Am J Physiol* 1996; 271: F461-F468
174. Whorwood CB, Stewart PM: Transcriptional regulation of Na/K-ATPase by corticosteroids, glycyrhetic acid and second messenger pathways in rat kidney epithelial cells. *J Mol Endocrinol* 1995; 15: 93-103
175. Bonvalet J-P: Regulation of sodium transport by steroid hormones. *Kidney Int* 1998; 53: S49-S56
176. Miller M, Dalakos T, Moses AM, Fellerman H, Streeten DH: Recognition of partial defects of antidiuretic hormone secretion. *Ann Intern Med* 1970; 73: 721-729

177. Seibel MJ, Zipf A, Ziegler R: Pyridinium-Crosslinks im Urin. Spezifische Marker der Knochenresorption bei metabolischen Knochenerkrankungen. Dtsch med Wschr 1994; 119: 923-929
178. Eriksen EF, Brixen K, Charles P: New markers of bone metabolism: clinical use in metabolic bone disease. Eur J Endocrinol 1995; 132: 251-263
179. Schlondorff D: The glomerular mesangial cell: an expanding role for a specialized pericyte. FASEB J 1987; 1: 272-281
180. Cooper CL, Malik KU: Mechanism of action of vasopressin hormones on prostaglandin synthesis in the kidney. Adv Prostaglandin Thromboxane Leukot Res 1985; 15: 437-440
181. Cooper CL, Malik KU: Mechanism of action of vasopressin on prostaglandin synthesis and vascular function in the isolated rat kidney: effect of calcium antagonists and calmodulin inhibitors. J Pharmakol Exp Ther 1984; 229: 139-147
182. Golde B: New clues into the etiology of osteoporosis: the effects of prostaglandins (E2 and F2 $\alpha$ ) on bone. Med Hypotheses 1992; 83: 125-131
183. Jee WSS, Ma YF: The in vivo anabolic actions of prostaglandins in bone. Bone 1997; 21: 297-304
184. Düsing R, Herrmann R, Glänzer K, Vetter H, Overlack A, Kramer HJ: Renal prostaglandins and water balance: studies in normal volunteer subjects and in patients with central diabetes insipidus. Clin Sci 1981; 61: 61-67
185. Bankir L, Trinth Trang Tan MM, Nivez M-P, Sraer J, Ardaillou R: Altered PGE2 production by glomeruli and papilla of rats with hereditary diabetes insipidus. Prostaglandins 1980; 20: 349-365
186. Edwards CRW, Kitau MJ, Chard T, Besser GM: Vasopressin analogue DDAVP in diabetes insipidus: clinical and laboratory studies. Br Med J 1973; 3: 375-380
187. Lukert BP, Raisz LG: Glucocorticoid-induced osteoporosis: pathogenesis and management. Ann Intern Med 1990; 112: 352-364