

 참고 문헌

1. Anderson SE, Must A. Interpreting the continued decline in the average age at menarche: results from two nationally representative surveys of U.S. girls studied 10 years apart. *J Pediatr* 2005;147:753.
2. Anobile CJ, Talbot JA, McCann SJ, Padmanabhan V, Robertson WR. Glycoform composition of serum gonadotrophins through the normal menstrual cycle and in the post-menopausal state. *Mol Hum Reprod* 1998;4:631.
3. Bacchinetti F, Petraglia F, Genazzani AR. Localization and expression of the three opioid systems. *Semin Reprod Endocrinol* 1987;5:103.
4. Baratta M, West LA, Turzillo AM, Nett TM, Activin modulates differential effects of estradiol on synthesis and secretion of follicle-stimulating hormone in ovine pituitary cells. *Biol Reprod* 2001;64:714.
5. Ben-Jonathan N, Hnasko R. Dopamine as a prolactin (PRL) inhibitor. *Endocr Rev* 2001; 22: 724-63.
6. Bertram R, Li Y-X. A mathematical model for the actions of activin, inhibin, and follistatin on pituitary gonadotrophs. *Bull Math Biol* 2008;70:2211.
7. Besecke LM, Guendner MJ, Schneyer AL, Bauer-Dantoin AC, Jameson JL, Weiss J. Gonadotropin-releasing hormone regulates follicle-stimulating hormone-beta gene expression through an activin/follistatin autocrine or paracrine loop. *Endocrinology* 1996;137:3667-73.
8. Besecke LM, Guendner MJ, Sluss PA, Polak AG, Woodruff TK, Jameson JL, et al. Pituitary follistatin regulates activin-mediated production of follicle-stimulating hormone during the rat estrous cycle. *Endocrinology* 1997;138:2841-8.
9. Bilezikjian LM, Corrigan AZ, Blount AL, Vale WW. Pituitary follistatin and inhibin subunit messenger ribonucleic acid levels are differentially regulated by local and hormonal factors. *Endocrinology* 1996;137:4277-84.
10. Birken S, Maydelman Y, Gawinowicz MA, Pound A, Liu Y, Hartree AS. Isolation and characterization of human pituitary chorionic gonadotropin. *Endocrinology* 1996;137:1402-11.
11. Blumenfeld Z. Response of human fetal pituitary cells to activin, inhibin, hypophysiotropic and neuroregulatory factors in vitro. *Early Pregnancy* 2001;5:41-2.
12. Breen KM, Davis TL, Doro LC, Nett TM, Oakley AE, Padmanabhan V, Rispoli LA, Wagenmaker ER, Karsch FJ. Insight into the neuroendocrine site and cellular mechanism by which cortisol suppresses pituitary responsiveness to gonadotropin-releasing hormone. *Endocrinology* 2008;149:767.
13. Brownstein MJ, Russel JT, Gainer H. Synthesis, transport, and release of posterior pituitary hormones. *Science* 1980;207:373-8.
14. Brzezinski A. Melatonin in humans. *N Engl J Med* 1997;336:186-95.
15. Casper RF, Alapin-Rubillovitz S. Progestins increase endogenous opioid peptide activity in postmenopausal women. *J Clin Endocrinol Metab* 1985;60:34-6.
16. Cemeroglu AP, Foster CM, Warner R, Kletter GB, Marshall JC, Kelch RP. Comparison of the neuroendocrine control of pubertal maturation in girls and boys with spontaneous puberty and in hypogonadal girls. *J Clin Endocrinol Metab* 1996;81:4352.
17. Chen CC, Chang C, Krieger DT, Bardin CW. Expression and regulation of proopiomelanocortin-like gene in the ovary and placenta: comparison with the testis. *Endocrinology* 1986;118:2382.
18. Clark PA, Iranmanesh A, Veldhuis JD, Rogol AD. Comparison of pulsatile luteinizing hormone secretion between prepubertal children and young adults: evidence for a mass/amplitude-dependent difference without gender or day/night

- contrasts. *J Clin Endocrinol Metab* 1997;82:2950.
19. Clarkson J, d'Anglemont de Tassigny X, Moreno AS, Colledge WH, Herbison AE. Kisspeptin-GPR54 signaling is essential for preovulatory gonadotropin-releasing hormone neuron activation and the luteinizing hormone surge. *J Neurosci* 2008;28:8691-7.
 20. Dixon A. The evolution of neuroendocrine mechanisms regulating sexual behaviour in female primates. *Reprod Fertil Dev* 2001;13:599-607.
 21. Exton MS, Bindert A, Kru'ger T, Scheller F, Hartmann U, Schedlowski M. Cardiovascular and endocrine alterations after masturbation-induced orgasm in women. *Psychosom Med* 1999;61:280-9.
 22. Exton MS, Kru'ger TH, Bursch N, Haake P, Knapp W, Schedlowski M, et al. Endocrine response to masturbation-induced orgasm in healthy men following a 3-week sexual abstinence. *World J Urol* 2001;19:377-82.
 23. Fang J, Wang SQ, Smiley E, Bonadio J. Genes coding for mouse activin beta C and beta E are closely linked and exhibit a liver-specific expression pattern in adult tissues. *Biochem Biophys Res Commun* 1997;231:655-61.
 24. Frisch RE. Body fat, menarche, and reproductive ability. *Semin Reprod Endocrinol* 1985;3:45.
 25. Gindoff PR, Ferin M. Brain opioid peptides and menstrual cyclicity. *Semin Reprod Endocrinol* 1987;5:125.
 26. Flament-Durand J. The hypothalamus: anatomy and functions. *Acta Psychiatr Belg* 1980;80:364-75.
 27. Goldsmith PC, Thind KK, Song T, Kim EJ, Boggan JE. Location of the neuroendocrine gonadotropin-releasing hormone neurons in the monkey hypothalamus by retrograde tracing and immunostaining. *J Neuroendocrinol* 1990;2:1572.
 28. Haisenleder DJ, Burger LL, Walsh HE, Stevens J, Aylor KW, Shupnik MA, et al. JC. Pulsatile gonadotropin-releasing hormone stimulation of gonadotropin subunit transcription in rat pituitaries: evidence for the involvement of Jun N-terminal kinase but not p38. *Endocrinology* 2008;149:139-45.
 29. Hayflick JS, Adelman JP, Seeburg PH. The complete nucleotide sequence of the human gonadotropin-releasing hormone gene. *Nucleic Acids Res* 1989;17:6403-4.
 30. Herbison AE. Multimodal influence of estrogen upon gonadotropin-releasing hormone neurons. *Endocr Rev* 1998;19:302.
 31. Howlett TA, Rees LH. Endogenous opioid peptides and hypothalamo-pituitary function. *Annu Rev Physiol* 1986;48:527.
 32. Huhtaniemi IT, Warren DW. Ontogeny of pituitary-gonadal interactions: current advances and controversies. *Trends Endocrinol Metab* 1990;1:356.
 33. Kaiser UB, Conn PM, Chin WW. Studies of gonadotropin-releasing hormone (GnRH) action using GnRH receptor-expressing pituitary cell lines. *Endocr Rev* 1997;18:46-70.
 34. Kaiser UB, Lee BL, Carroll RS, Unabia G, Chin WW, Childs GV. Follistatin gene expression in the pituitary: localization in gonadotrophs and folliculostellate cells in diestrous rats. *Endocrinology* 1992;130:3048-56.
 35. Kasa-Vuvu JZ, Dahl GE, Evans NP, Thrun LA, Moenter SM, Padmanaghan V, Karsch FJ. Progesterone blocks the estradiol-induced gonadotropin discharge in the ewe by inhibiting the surge of gonadotropin-releasing hormone. *Endocrinology* 1992;131:208.
 36. Kaye WH, Berrettini W, Gwirtsman H, George DT. Altered cerebrospinal fluid neuropeptide Y and peptide YY immunoreactivity in anorexia and bulimia nervosa. *Arch Gen Psychiatry* 1990;47:548-56.
 37. Keen KL, Burich AJ, Mitushima D, Kasuya E, Terasawa E. Effects of pulsatile infusion of the GABA(A) receptor blocker bicuculline on the onset of puberty in female rhesus monkeys. *Endocrinology* 1999;140:5257.
 38. Khoury SA, Reame NE, Kelch RP, Marshall JC. Diurnal patterns of pulsatile luteinizing hormone secretion in hypothalamic amenorrhea: reproducibility and responses to opiate blockade and α_2 -adrenergic agonist. *J Clin Endocrinol Metab* 1987;64:755.
 39. Kogawa K, Nakamura T, Sugino K, Takio K, Titani K, Sugino H. Activin-binding protein is present in pituitary. *Endocrinology* 1991;128:1434-40.
 40. Loucks AB, Mortola JF, Girton L, Yen SS. Alterations in the hypothalamic-pituitary-ovarian and the hypothalamic-pituitary-adrenal axes in athletic women. *J Clin Endocrinol Metab* 1989;68:402-11.
 41. Marunic M, Casper RF. The effect of luteal phase estrogen antagonism on luteinizing hormone pulsatility and luteal function in women. *J Clin Endocrinol Metab* 1987;64:148.
 42. Matteo S. The effect of job stress and job interdependency on menstrual cycle length, regularity and synchrony. *Psychoneuroendocrinology* 1987;12:467-76.
 43. McClintock MK. Menstrual synchrony and suppression. *Nature* 1971;229:244-5.
 44. McShane TM, May T, Miner JL, Keisler DH. Central actions of neuropeptide-Y may provide a neuromodulatory link between nutrition and reproduction. *Biol Reprod* 1992;46:1151-7.
 45. Micevych PE, Eckersell CB, Brecha N, Holland KL. Estrogen modulation of opioid and cholecystokinin systems in the limbic-hypothalamic circuit. *Brain Res Bull* 1997;44:335.
 46. Naftolin F, Garcia-Segura LM, Horvath TL, Axarnovszky A, Demir N, Fadil A, Leranath C, Vondracek-Klepper S, Lewis C,

- Chang A, Parducz A. Estrogen-induced hypothalamic synaptic plasticity and pituitary sensitization in the control of the estrogen-induced gonadotrophin surge. *Reprod Sci* 2007;14:101.
47. Nikolics K, Mason AJ, Szócsányi E, Ramachandran J, Seeburg PH. A prolactin-inhibiting factor within the precursor for human gonadotropin-releasing hormone. *Nature* 1985;316:511-7.
48. Palmert MR, Hayden DL, Mansfield MJ, Crigler JF Jr, Crowley WF Jr, Chandler DW, Boepple PA. The longitudinal study of adrenal maturation during gonadal suppression: evidence that adrenarche is a gradual process. *J Clin Endocrinol Metab* 2001;86:4536.
49. Patton PE, Hess DL, Cook DM, Loriaux DL, Braunstein GD. Human chorionic gonadotropin production by the pituitary gland in a premenopausal women. *Am J Obstet Gynecol* 1998;178:1138-42.
50. Pau KY, Berria M, Hess DL, Spies HG. Hypothalamic site-dependent effects of neuropeptide Y on gonadotropin-releasing hormone secretion in rhesus macaques. *J Neuroendocrinol* 1995;7:63-7.
51. Petraglia F, Di Meo G, Storchi R, Segre A, Facchinetti F, Szalay S, Volpe A, Genazzani AR. Proopiomelanocortin-related peptides and methionine enkephalin in human follicular fluid: changes during the menstrual cycle. *Am J Obstet Gynecol* 1987;157:142.
52. Petraglia F, D'Ambrogio G, Comitini G, Facchinetti F, Volpe A, Genazzani AR. Impairment of opioid control of luteinizing hormone secretion in menstrual disorders. *Fertil Steril* 1985;43:534.
53. Plant TM, Zorub DS. Pinealectomy in agonadal infantile male rhesus monkeys (*Macaca mulatta*) does not interrupt initiation of the prepubertal hiatus in gonadotropin secretion. *Endocrinology* 1986;118:227-32.
54. Quaynor S, Hu L, Leung PK, Feng H, Mores N, Krsmanovic LZ, et al. Expression of a functional g protein-coupled receptor 54-kisspeptin autoregulatory system in hypothalamic gonadotropin-releasing hormone neurons. *Mol Endocrinol* 2007;21:3062-70.
55. Rabinovici J, Rothman P, Monroe SE, Nerenberg C, Jaffe RB. Endocrine effects and pharmacokinetic characteristics of a potent new gonadotropin-releasing hormone antagonist (Ganirelix) with minimal histaminereleasing properties: studies in postmenopausal women. *J Clin Endocrinol Metab* 1992;75:1220.
56. Reame N, Sauder SE, Kelch RP, Marshall JC. Pulsatile gonadotropin secretion during the human menstrual cycle: evidence for altered frequency of gonadotropin-releasing hormone secretion. *Clin Endocrinol Metab* 1984;59:328-37.
57. Roberts V, Meunier H, Vaughan J, Rivier J, Rivier C, Vale W, et al. Production and regulation of inhibin subunits in pituitary gonadotropes. *Endocrinology* 1989;124:552-4.
58. Ronnekleiv OK, Resko JA. Ontogeny of gonadotropin-releasing hormone-containing neurons in early fetal development of rhesus macaques. *Endocrinology* 1990;126:498.
59. Ross JL, Loriaux DL, Cutler GB. Developmental changes in neuroendocrine regulation of gonadotropin secretion in gonadal dysgenesis. *J Clin Endocrinol Metab* 1983;57:288.
60. Sahu A, Phelps CP, White JD, Crowley WR, Kalra SP, Kalra PS. Steroidal regulation of hypothalamic neuropeptide Y release and gene expression. *Endocrinology* 1992;130:3331-6.
61. Sarkar DK, Yen SSC. Hyperprolactinemia decreases the luteinizing hormone-releasing hormone concentration in pituitary portal plasma: a possible role for b-endorphin as a mediator. *Endocrinology* 1985;116:2080.
62. Schwanzel-Fukuda M, Pfaff DW. Origin of luteinizing hormone-releasing hormone neurons. *Nature* 1989;338:161.
63. Seminara SB, Messager S, Chatzidaki EE, Thresher RR, Acirerno JS Jr, Shagoury JK, et al. The GPR54 gene as a regulator of puberty. *N Engl J Med* 2003;349:1614-27.
64. Seo MY, Kim SH, Juul A, Park MJ. Trend of Menarcheal Age among Korean Girls. *J Korean Med Sci* 2020;35(49):e406.
65. Shalts E, Feng Y-J, Ferin M, Wardlaw SL. Alpha-Melanocyte-stimulating hormone antagonizes the neuroendocrine effects of corticotropin-releasing factor and interleukin-1 in the primate. *Endocrinology* 1992;131:132.
66. Waring DW, Turgeon JL. A pathway for luteinizing hormone releasing-hormone self-potential: cross-talk with the progesterone receptor. *Endocrinology* 1992;130:3275.
67. Weller A, Weller L. Menstrual synchrony under optimal conditions: Bedouin families. *J Comp Psychol* 1997;111:143-51.
68. Yen SSC, Lein A. The apparent paradox of the negative and positive feedback controlsystem on gonadotropin secretion. *Am J Obstet Gynecol* 1976;126:942.
69. Zariwán T, Olivares A, Söderlund D, Méndez JP, Ulloa-Aguirre A. Changes in the biological: immunological ratio of basal and GnRH-releasable FSH during the follicular, preovulatory and luteal phases of the human menstrual cycle. *Hum Reprod* 2001;16:1611.