



## เอกสารอ้างอิง

ประสงค์ หล้าสหอดุ , "การตรวจหา mCG โดยวิธีเมกลูตินเอนชัน อินซิบิชัน และแบบของอัลโตรน ในปัลสภาวะขณะตั้งครรภ์ในลิงแสม (Macaca fascicularis)", วิทยานิพนธ์ มหาบัณฑิต ภาควิชาชีววิทยา บัณฑิตวิทยาลัย จุฬาลงกรณ์มหาวิทยาลัย , 2526.

Aakvaag, A., "Formation of steroid hormones in the porcine ovary in vitro.", J. Endocrinol., 43, XXV, 1969.

Abraham, G.E., "Radioimmunoassay of steroid in biological materials", Radioimmunoassay and Relate Products in Medicine. Vol. 11, p.3, Vienna, International Atomic Energy Agency, 1974.

Abraham, G.E., Werdloff, R.S., Tulchindky, D. and Odell, W.D., "Radioimmunoassay of plasma progesterone", J. Clinical Endocrinol., 32, 619-625, 1971.

Adams, M.R., Rudel, L.L., Clarkson, T.B., Nelson, C.A., Thau, R.B. and Moo-Young, A.J., "Influence of a levonorgestrel-containing contraceptive vaginal ring on plasma lipids and lipoproteins in cynomolgus monkey", Contraception , 28 (3), 253-266, 1983.

Adlercreutz,H., Brown, J., Collins, W., Goebelsman, U., Kellie, A., Campbell, H., Spieler, J. and Braissand, G., "The measurement of steroids glucuronides as indices of the fertile period in women", J. Steroid Biochem, 17,695-702, 1982.

Ahren, T., Lithell, H., Victor, A., Vesseby, B. and Johansson, E.D.B., "Comparison of the metabolic effects of two hormonal contraceptive method : An oral formation and vaginal ring. II Serum lipoprotein and apolipoprotein", Contraception , 24, 451-468, 1981.

- Aref, I., Hefnawi, F., Kandil, O. and Abdel-Aziz, M.T., "Effect of minipil on physiologic responses of human cervical mucus, endometrium and ovary", Fertil. Steril., 24, 578-583, 1973.
- Backstrom, T., Carlstrom, K., von Schoultz, B. and Toivonen, J., "Effect of progesterone administered via intravaginal rings on serum concentrations of Oestradiol, FSH, LH and Prolactin in women", J. Reprod. Fertil., 64, 53-58, 1982.
- Bagget, B. and Nash, H.A., "Effects of contraceptive steroids on serum lipoproteins and cardiovascular disease scrutinized at workshop in Bethesda", Contraception, 21, 115-120, 1980.
- Baker, T.S., Jennison, K.M. and Kellie, A.E., "The direct radioimmunoassay of oestrogen glucuronides in human female urine", Biochem J., 177, 729-738, 1979.
- Baker, T.S., Jennison, K.M. and Kellie, A.E., "A possible method for the detection of ovulation and the determination of the duration of the fertile period", J. Steroid Biochem., 12, 411-415, 1980.
- Boettcher, B., "A possible mode of action of progesterone only oral contraception", Contraception, 9, 123-131, 1974.
- Bonney, R.C., Dixon, A.F. and Fleming, D., "Cyclic changes in the circulating and urinary levels of ovarian steroids in the adult female owl monkey (Aotus trivirgatus)", J. Reprod. Fert., 56, 271-280, 1979.
- Borda, E., Sterin-Borda L, Gimeno, M.F., Sterin-Speziale, N. and Gimeno, A.L., "Motility of the rat oviductal tract isolated in different stages of sex cycle", Int. J. Fertil., 20, 170-176, 1975.

- Bradley, D.D., Winger, J., Petitti, D.B., Krauss, R.M. and Ramcharan, S., "Serum high-density lipoprotein cholesterol in women using oral contraceptive estrogen and progestogens", New Eng. J. Med., 299, 17-20, 1979.
- Brand, H.M., "Urinary oestrogen excretion in the female cotton-topped tamarin (Saguinus oedipus oedipus)", J. Reprod. Fertil., 62, 467-473, 1981.
- Breckwoldt, M., Flickinger, G.L., Murawee, T. and Touchstone, J.C., "Urinary estrogen and estrogen metabolism of the rhesus monkey", Endocrinology, 91, 1-5, 1972.
- Briggs, M.H., "Progestogens : Toxicological Studies in Animal Models", Progestogens in Therapy. (Benagiano, G., Zullie, P. and Diczfalusy, E., eds.), pp. 73-95, Raven Press, New York, 1983.
- Castelli, W.B., Dorfe, J.T., Gordon, T., Hame, C.G., Hjortland, M.C., Hulley, S.B., Kagan, A. and Zukel, W.J., "HDL-cholesterol and other lipids in coronary heart disease : The cooperative lipoprotein phenotyping study", Circulation, 55, 767-772, 1977.
- Chretein, F.C. and David, C., "Temporary obstructive effect of human cervical mucus on spermatozoa throughout reproductive life : a S.E.M. study", Europ. J. Obstet. Gynec. Reprod. Biol., 816, 307-321, 1978.
- Chretein, F.C., Sareau, C. and Neau, C., "Experimental study of cervical blockade induced by continuous low-dose oral progestogens", Contraception, 22, 445-455, 1980.
- Chretein, F.C., Gernigon, C., David, C. and Psychoyos, A., "The ultrastructure of human cervical mucus under scanning electron microscopy", Fertil. Steril., 24, 746-757, 1973.

- Clifton, D.K., Steiner, R.A., Resko, J.A. and Spies, H.G., "Estrogen induced gonadotropin release in ovariectomized rhesus monkeys and its advancement by progesterone", Biol. Reprod., 13, 190-194, 1975.
- Collins, D.C., Graham, C.E. and Preedy, J.R.K., "Identification and measurement of urinary estrone, estradiol-17B, estriol, pregnanediol and androsterone during menstrual cycle of the Orangutan", Endocrinology, 96, 93-101, 1975.
- Collins, W.P., Collins, P.O., Kilpatrick, M.J., Manning, P.A., Pike, J.M. and Tyler, J.P.P., "The concentrations of urinary estrogen-3-glucuronide, LH and pregnanediol-3 $\alpha$ -glucuronide as indices of ovarian function", Acta Endocrin., 90, 336-348, 1979.
- Czekala, N.M., Benirschke, J., Mc Clure, H. and Lasley, B.L., "Urinary estrogen excretion during pregnancy in the gorilla (Gorilla gorilla), orangutan (Pongo pygmaeus) and the human (Homo sapiens)", Biol. Reprod., 28, 289-294, 1983.
- Dagle, K.E., Sikov, M.R., Rowe, S.E., Burton, F.G. and Skiens, W.E., "Effects of d-norgestrel-releasing intracervical devices in the nonhuman primate, Erythrocebus Patas", Contraception, 22, 409-423, 1980.
- Diczfalusy, E., Goebelsman, U., Johannisson, E., Tillinger, K-G. and Wide, L., "Pituitary and ovarian function in women on continuous low dose progestogen : effect of chlormadinone acetate and norethisterone", Acta Endocrin (Kbh), 62, 679-693, 1969.

- Dierschke, D.J., Yamaji, T., Karch, F.J., Weick, R.F., Weiss, G and Knobil, E., "Blockade by progesterone of estrogen-induced LH and FSH release in the rhesus monkey", Endocrinology, 92, 1496-1501, 1973.
- Doerr, P., Goebel, R. and Kuss, E., "Specific radioimmunochemical determination without chromatography of plasma oestradiol in males", Acta Endocrin., 73, 314, 1973.
- Dukelow, W.R., "The morphology of follicular development and ovulation in non-human primates", J. Reprod. Fertil., suppl. 22, 23-51, 1975.
- Dukelow, W.R. and Bruggemann, S., "Characteristics of the menstrual cycle in nonhuman primates II Ovulation and optimal mating times in macaques", J. Med. Primatol., 8, 79-87, 1979.
- Eastman, S.-A.K., Makawiti, D.W., Collins, W.P. and Hodges, J.K., "Pattern of excretion of urinary steroid metabolites during the ovarian cycle and pregnancy in the marmoset monkey", J. Endocrin., 102, 19-26, 1984.
- Eckstein, P., Withby, M., Fortherby, K., Butler, C., Mukherjee, T.K., Bennett, J.B.C. Richards, D.J. and Whitehead, T.P., "Clinical and laboratory findings in a trial of norgestrel, a low-dose progestogen-only contraceptive", Brit. Med. J., 3:195-200, 1972.
- Ekins, R.P., "Review paper : Theoretical aspects of saturation analysis", In vitro procedure with radio isotopes in medicine p. 325, Vienna, International Atomic Energy Agency, 1970.
- Fleetwood, L., Shu-rong, Z., Eneroeth, P. and Landgren, B.M., "Evaluation of a rapid method for determination of total urinary estrogens in morning samples from normally

- menstruating women", Contraception, 27, 329-337, 1983.
- Foss, G.L., Svendsen, E.K., Fotherby, K. and Richard, D.J., "Contraceptive action of continuous low doses of norgestrel", Brit. Med. J., 4, 489-491, 1968.
- Fotherby, K. and James, F., "Metabolism of synthetic steroids", Adv. Steroid Biochem. Pharmacol., 3, 67-165, 1972.
- Fotherby, K. Svendson, E.K. and Foss, G.L., "Ovarian function in women receiving low doses of synthetic progestin, norgestrel", J. Reprod. Fertil., Suppl. 5, 155-166, 1968.
- Fotherby, K., "In regulation of human fertility", WHO Symposium on Advances in Fertility Regulation (Diczfalusy, E., ed.), pp. 283-321, Scriptor, Copenhagen, 1977.
- Fortune, J.E. and Vincent, S.E., "Progesterone inhibits the induction of aromatase activity in rat granulosa cells in vitro", Biol. Reprod., 28, 1078-1089, 1983.
- French, J.A., Abbott, D.H., Schefflers, G., Robinsons, J.A. and Goys, R.W., "Cyclic excretion of urinary oestrogens in female tamarins (Saguinus oedipus)", J. Reprod. Fert., 68, 177-184, 1983.
- Fukuda, M., Katayama, K. and Tojo, S., "Inhibitory effect of progesterone on follicle growth and induced superovulation in the rat", Arch. Gynäk., 230, 77-87, 1980.
- Gimeno, M.F., Borda, E.S., Sterin-Borda, L., Sterin-Speziale, N. and Gimeno, A.L., "Contractile activity of the oviduct and the mesosalphinx isolated from guinea pigs in different phases of the sex cycle. Effects of several pharmacological influences", Int. J. Fert. 21, 31-41, 1976.

- Goodman, A.L. and Hodgen, G.D., "Systemic versus intraovarian progesterone replacement after luteectomy in rhesus monkeys : Differential patterns of gonadotropins and follicle growth", J. Clin. Endocrinol. Metab., 45, 837-840, 1977.
- Graham, C.E., Collins, D.C., Robinson, H. and Preedy, J.R.K., "Urinary levels of estrogens and pregnanediol and plasma levels of progesterone during the menstrual cycle of the chimpanzee : relationship to the sexual swelling", Endocrinology, 91, 13-24, 1972.
- Greenwald, I., "The chemistry of Jaffe' reaction for creatinine IV A compound of creatinine, picric acid and sodium hydroxide", J. Biol. Chem., 77, 539-544, 1928.
- Gustafson, A. and Svanborg, A., "Gonadal steroid effects on plasma lipoprotein and individual phospholipids", J. Clin. Endocrinol. Metab., 35, 203-207, 1972.
- Helmond, F.A., Simons, P.A. and Hein, P.R., "Strength and duration characteristics of the facilitatory and inhibitory effects of progesterone on the estrogen-induced gonadotropin surge in the female rhesus monkey", Endocrinology, 108, 1837-1842, 1981.
- Hirvonen, E., Malkonen, M. and Manninen, V., "Effects of different progestogens on lipoprotein during postmenopausal replacement therapy", N. Eng. J. Med., 304, 560-563, 1981.
- Hodges, J.K., Brand, H., Henderson, C. and Kelly, R.W., "Levels of circulating and urinary oestrogen during pregnancy in the marmoset monkey (Callithrix jacchus)", J. Reprod. Fert., 67, 73-82, 1983.

Hodges, J.K., Czekala, N.M. and Lasley, B.L., "Estrogen and luteinizing hormone secretion in diverse primate species from simplified urinary analysis", J. Med. Primatol., 8, 349-364, 1979.

Hodges, J.K., Gulick, B.A., Czekala, N.M. and Lasley, B.L., "Comparison of urinary oestrogen excretion in South American primates", J. Reprod. Fert., 61, 83-90, 1981.

Hopper, B.R. and Tullner, W.W., "Urinary oestrogen excretion and patterns in pregnant rhesus monkeys", Steroids, 9, 517-527, 1968.

Hopper, B.R. and Tullner, W.W., "Urinary estrone and plasma progesterone levels during the menstrual cycle of the rhesus monkey", Endocrinology, 86, 1225-1230, 1970.

Hulley, S.B., Rosenman, R.H., Bawol, R.D. and Branoli, R.J., "Epidemiologic as a judge to clinical decisions", New Eng. J. Med., 302, 1383-1389, 1980.

Jacobs, B.R., Suchocki, S. and Smith, R.G., "Evidence for human ovarian progesterone receptor", Am. J. Obstet. Gynecol., 138, 332-338, 1980.

Jänne, O., Kontula, K. Vihko, R., Feil, P.D. and Bordin, C.W., "Progesterone receptor and regulation of progestin action in mammalian tissue", Med. Biol., 56, 225-240, 1978.

Johansson, E.D.B., Wide, L. and Gemzell, C., "Luteinizing hormone (LH) and progesterone in plasma and LH and oestrogens in urine during 42 normal menstrual cycles", Acta Endocrin., 68, 502-512, 1971.

- Johnson, M.H. and Everitt, B.J., "The sex steroids", Essential Reproduction (Johnson, M.H. and Everitt, B.J., eds.), pp. 18-32, Blackwell Sceintific Publications, Oxford, 1980.
- Knobil, E., "On the control of gonadotropin secretion in the rhesus monkey", Res. Progr. Horm. Res., 30, 1-46, 1974.
- Lähteenmäki, P.L.A. and Lähteenmäki, P., "Contraception development mechanisms of ovulation inhibition by the progestin ST-1435", Fertil. Steril., 44, 20-24, 1985.
- Lähteenmäki, P., Weiner, E, Lähteenmäki, P., Johansson, E.D.B. and Luukainen, T., "Pituitary and ovarian function during contraception with one subcutaneous implant releasing a progestin, ST-1435", Contraception, 25, 299-306. 1982.
- Larsson-Cohn, U., Johansson, E.D.B., Wide, L. and Gemzell, C., "Effect of continuous daily administration of 0.5 mg. of chlormadinone acetate on the plasma levels of progesterone and on the urinary excretion of luteinizing hormone and total oestrogens", Acta Endocrin, 63, 705-716, 1970.
- Larsson-Cohn, U., Fahreus, L., Wallentin, L. and Zador, G., "Lipoprotein changes may be minimized by proper composition of a combined oral contraceptives", Fertil. Steril., 35, 172-179, 1981.
- Lasley, B.L., Hodges, J.K. and Czekala, N.M., "Monitoring the female reproductive cycle of great apes and other primate species by determination of oestrogen and LH in small volumes of urine", J. Reprod. Fertil. Suppl. 28, 121-129. 1980.
- Logan, R.L., Riemersma, R.A., Thomson. M., Oliver, M.F., Olsson, A.G., Walldius, G., Rossner, S., Kaijiser, L., Callmer E., Calson,

- L.A., Lookerbie, L. and Lutz, W., "Risk factors for ischemic heart disease in normal men aged 40 Edinburg-Stockholm Study", Lancet, 1, 949-954, 1978.
- Martinez-Manautou, J., Giner-Velasquez, J., Cortes-Gallegos, V. Aznar, R., Rojas, B., Gutierrez-Najar, A. and Rudel, H.W., "Daily progestogen for contraception", Br. Med. J., 2, 730-732, 1967.
- Maruffo, C.A., Casavilla, F., Van Nynatten, B. and Pener, V., "Modification of the human endometrium five structure induced by low-dose progestogen therapy", Fertil. Steril., 25, 778-787, 1974.
- Miller, G.J. and Miller, N.E., "Plasma high-density lipoprotein concentration and development of ischemic heart disease", Lancet, 1, 16-19, 1975.
- Miller, N.E., Forde, O.H., Thelle, D.S. and Mjos, O.D., "The Tromso Heart Study. High density lipoprotein and coronary heart disease : A perspective case-control study", Lancet, 2, 965-968, 1977.
- Mishell, D.R. Jr., "Progestin in Contraception-Present and Future", Progesterone and Progestin (Bardin, C.W., Milgrom, E. and Manvais-Jarvis, P., eds.), pp. 383-394, Raven Press, New York, 1983.
- Mishell, D.R. Jr. Roy, S., Moore, D.E., Brenner, P.F., Page, M.A., Gentzchein, E. and Fisk, P.D., "Clinical performances and endocrine profiles with contraceptive vaginal rings containing d-norgestrel", Contraception, 16, 625-636, 1977.
- Mitchell, W.R., Presley, S., Czekala, N.M. and Lasley, B.L., "Urinary immunoreactive oestrogen and pregnanediol-3 $\alpha$ -glucuronide

- during the normal menstrual cycle of the female lowland gorilla (Gorilla gorilla)", Am. J. Primatol., 2, 167-175, 1982.
- Moghissi, K.S. and Marks, C., "Effects of microdose norgestrel on endogenous gonadotropic and steroid hormones, cervical mucus properties, vaginal cytology and endometrium", Fertil. Steril., 22, 424-434, 1971.
- Moghissi, K.S., Syner, F.N. and Mc. Bride, L.C., "Contraceptive mechanism of microdose norethindrone", Obstet. Gynecol., 41, 585-590, 1973.
- Mukherjee, T.K., Wright, S.W., Davidson, N.J.H. and Fotherby, K., "Effect of norgestrel on corpus luteum function", J. Obstet. Gynecol. Br. Commonw., 79, 175-182, 1972.
- Murad, F. and Haynes, R.C. Jr., "Estrogens and Progestins", Goodman and Gilman's The Pharmacological Basis of Therapeutics (Gilman, A.G., Goodman, L.S., Rall, T.W. and Murad, F., eds.), pp. 1412-1439, Macmillan Publishing Company, New York, 7<sup>th</sup> ed., 1985.
- Nilsson, C.G., Lahteenmaki, P. and Luukkainen, T., "Patterns of ovulation and bleeding with a low levonorgestrel-releasing intrauterine device", Contraception, 21, 155-164, 1980.
- Oberti, C., Dabancen, A., Garcia-Huidobro, M., Rodriguez, R., and Zanatu, J., "Low doses oral progestogens to control fertility II Morphologic modifications in the gonad and oviduct", Obstet. Gynecol., 43, 285-294, 1974.
- Ortiz, A., Hiroi, M., Stanczyk, F.Z., Goebelmann, U. and Mishell, D.R.Jr., "Serum medroxyprogesterone acetate (MPA) concentrations and ovarian function following intramuscular

injection of depo-MPA", J. Clin. Endocrinol. Metab., 44, 32-38, 1977.

Pohl, C.R., Richardson, D.W., Marshall, G. and Knobil, E., "Mode of action of progesterone in the blockade of gonadotropin surges in the rhesus monkey", Endocrinology, 110, 1454-1455, 1982.

Quigley, M.E. and Yen, S.S.C., "The role of endogenous opiates on LH secretion during the menstrual cycle", J. Clin. Endocrinol. Metab., 51, 179-181, 1980.

Reame, N.E., Peluso, J.P. and Hafez, E.S.E., "Effect of d-norgestrel on LH levels and ovulation in the rhesus monkey", Contraception, 16, 499-505, 1977.

Reel, J.R., Humphrey, R.R., Shih, Y.-H., Windsor, B.L., Sakowski, R., Creger, P.L. and Edgren, R.A., "Competitive progesterone antagonists : receptor binding and biologic activity of testosterone and 19-nortestosterone derivatives", Fertil. Steril., 31, 552-561, 1979.

Robertson, D.N., Alvarez, F., Sivin, I., Brache, V., Stern, J., Leon, P. and Faundes, A., "Lipoprotein pattern in women in Santo Domingo using a levonorgestrel/estradiol contraceptive ring", Contraception, 24, 469-480, 1981.

Roland, M., "Norgestrel-induced cervical barrier to sperm migration", J. Reprod. Fertil. Suppl. 5, 173-178, 1968.

Roland, M., "Prevention of sperm migration into the uterine cavity by a microdose progestagens", Fertil. Steril., 21, 211-216, 1970.

Rommel, A., Baumgarten, S., Moltz, L., Schwartz, U. and Hammerstein, J., "Oral contraceptives and pituitary response to GnRH : Comparative study of progestin-related effects", Contraception, 31, 295-303, 1985.

Ropert, J.F., Quigley, M.E. and Yen, S.S.C., "Endogenous opiates modulate pulsatile luteinizing hormone release in humans", J. Clin. Endocrinol. Metab., 52, 583-585, 1981.

Roy, S., Krauss, R.M., Mishell, D.R. Jr., Casagrande, J. and Pike, M.C., "The effect on lipids and lipoprotein of a contraceptive vaginal ring containing levonorgestrel and estradiol", Contraception, 24, 429-450, 1981.

Rudel, L.L. and Pitts, L.L., "Male-female variability in the dietary cholesterol-induced hyperlipoproteinemia of cynomolgus monkey (Macaca fascicularis)", J. Lipid Res., 19, 992-1003, 1978.

Samarajeewa, P., Cooley, G and Kellie, A.E., "The radioimmunoassay of pregnanediol- $3\alpha$ -glucuronide", J. Steroid Biochem., 11, 1165-1171, 1979.

Samarajeewa, P. and Kellie, A.E., "The radioimmunoassay of steroid glucuronides", Biochem. J., 151, 369-376, 1975.

Saunders, D.M., Marcus, S.L., Saxena, B.B., Beling, C.G. and Connell, E.B., "Effect of daily administration of 0.5 mg. of chlormadinone acetate on plasma levels of follicle-stimulating hormone, luteinizing hormone and progesterone during the menstrual cycle", Fertil. Steril., 22, 332-344, 1971.

Scommegna, A. and Chattoraj, S.C., "Urinary pregnanediol and creatinine excretion in the female of menstrual age", Obstet. Gynecol., 30, 242-248, 1967.

Setchell, K.D.R., Bull, R. and Adlercreutz, H., "Steroid excretion during the reproductive cycle and in pregnancy of the vervet monkey (Ceropithecus Aethiopus Pygerythrus)", J. Steroid

Biochem., 12, 375-384, 1980.

Shaw, M.A., Back, D.J., Aird, S.A., Grimmer, S.F.M. and Orme, M.C.L.'E., "Urinary concentrations of steroid glucuronides in women taking oral contraceptives", Contraception, 28, 69-75, 1983.

Sherwood, N.M. an Fink, G., "Effect of ovariectomy and adrenalectomy on luteinizing-hormone-releasing hormone in pituitary stalk blood from female rats", Endocrinology, 106, 363-367, 1980.

Shideler, S.E., Czekala, N.M., Kasman, L.H., Lindburg, D.G. and Lasley, B.L., "Monitoring ovulation and implantation in the lion-tailed macaque (Macaca silenus) through urinary estrone conjugate evaluation", Biol. Reprod., 29, 905-911, 1983.

Shideler, S.E. and Lasley, B.L., "A comparison of primate ovarian cycle", Am. J. Primatol., 1 (suppl), 171-180, 1982.

Soules, M.R., Steiner, R.A., Clifton, D.K., Cohen, N.L., Aksel, S. and Bremner, W.J., "Progesterone modulation of pulsatile luteinizing hormone secretion in normal women", J. Clin Endocrinol. Metab., 58, 378-383, 1984.

Spilman, C.H. and Harper, M.J.K., "Comparison of the effects of adrenergic drugs and prostaglandins on rabbit oviduct motility", Biol. Reprod., 10, 549-554, 1974.

Sribyatta, B., Vathanasiritham, P., Snidvongs, W. and Jantaraniyom, K., "The effect of daily d-norgestrel (30 ng) on serum progesterone in Thai women", Contraception, 23, 55-62, 1981.

Stanczyk, F.Z., Miyakawa, I. and Goebelsmann, U., "Direct radioimmunoassay of urinary estrogen and pregnanediol glucuronides during the menstrual cycle", Am. J. Obstet. Gynecol., 137, 443-450, 1980.

St. Clair, R.W., Henderson, G.R., Heastr, V., Wagner, W.D., Bond, M.G. and Mc Mahan, M.R., "Influence of dietary fat and oral contraceptive on plasma lipids, high-density lipoproteins, gallstones and atherosclerosis in African green monkeys", Atherosclerosis, 37, 103-121, 1980.

Tangpraprutigul, P. and Varavudhi, P., "Lack of breeding seasonality in the Macaca fascicularis studies in Bangkok enviroment", J. Steroid Biochem., 17, Xci, 1982.

Taymor, M.L. and Levesque, L.A., "Levels of serum follicle-stimulating hormone, Luteinizing hormone and plasma progestin during microdose chlormadrione treatment", Fertil. Steril., 22, 1-8, 1971.

Thiery, M., Vandekerckhove, D., Dhont, M., Vermeulen, A. and Decoster, J.M. "The medroxyprogesterone acetate intravaginal silastic ring as a contraceptive device", contraception, 13, 605-617, 1976.

Varavudhi, P., Tangpraprutigul, P., Aswaroengchai, H. and Tangkeo, P., "Effect of a non-steroidal progestin developed by ICI on lipoprotein metabolism in cynomolgus monkey" WHO Special Programme of Reseach, Development and Research Training in Human Reproduction, final report, 1986.

Varavudhi, P., Tangpraprutigul, P., Yodyingyuad, V. and Lamsa-ad, P., "Regulation of corpus luteum function in Tupaia glis and Macaca fascicularis", JAFES, 2, 91-102, 1982.

Varavudhi, P. and Yodyingyuad, V., "Hormonal change during the menstrual cycles in the Crab eating monkey, Macaca fascicularis", Nonhuman Primate models for study of human

reproduction (Anand Kumar, ed.), pp. 50-54, S. Karger, Basel, Switzerland, 1980.

Victor, A., Weiner, E. and Johansson, E.D.B. "Sex Hormone Binding Globulin : The carrier protein d-norgestrel", J. Clin. Endocrinol. Metab., 43, 244-247, 1976.

Wadsworth, P.F., Heywood, R., Allen, D.G., Sortwell, R.J. and Walton, R.M., "Treatment of rhesus monkey (Macaca mullatta) with intrauterine devices loaded with levonorgestrel", Contraception, 20, 177-184, 1979.

Wallentin, L. and Larsson-Cohn, U., "Metabolic and hormonal effects of postmenopausal estrogen replacement treatment. II Plasma lipids", Acta Endocrinol (Copenh), 86, 597-607, 1977.

Weiner, E., Johansson, E.D.B. and Wide, L., "Inhibition of the positive feedback of oestradiol during treatment with subcutaneous implant of d-norgestrel", Contraception, 13, 287-298, 1976.

Wildt, L., Hutchison, J.S., Marshall, G., Pohl, C.R. and Knobil, E., "On the site of action of progesterone in the blockade of the estradiol-induced gonadotropin discharge in the rhesus monkey", Endocrinology, 109, 1293-1294, 1981.

World Health Organization. Collaborating Center of Research and Reference. Service in the Immunoassay of Hormone in Human Reproduction. Method Manual, 5<sup>th</sup> ed. (January 1981).

Wright, K., Collins, D.C. and Preedy, J.R.K., "Urinary excretion of estrone glucuronate and of proportionate differences during the menstrual cycle", Steroids, 34, 445-457, 1979.

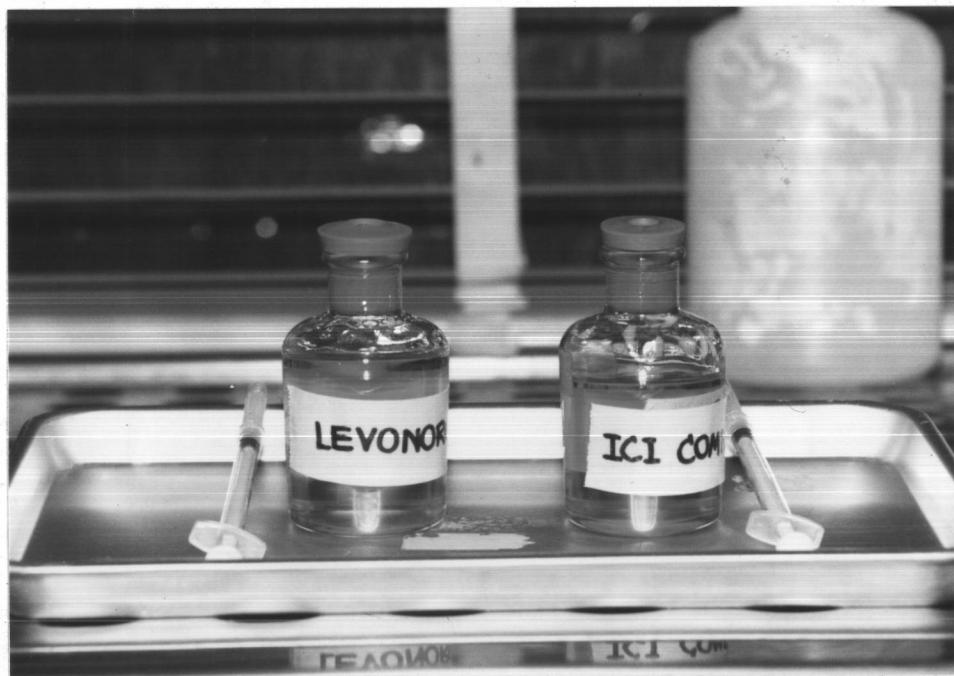
Wright, S.W., Fortherby, K. and Fairweather, F., "Effect of daily small doses of norgestrel on ovarian function", J. Obstet.  
Gynecol. Br. Commonw., 77, 65-68, 1970.

ภาคผนวก

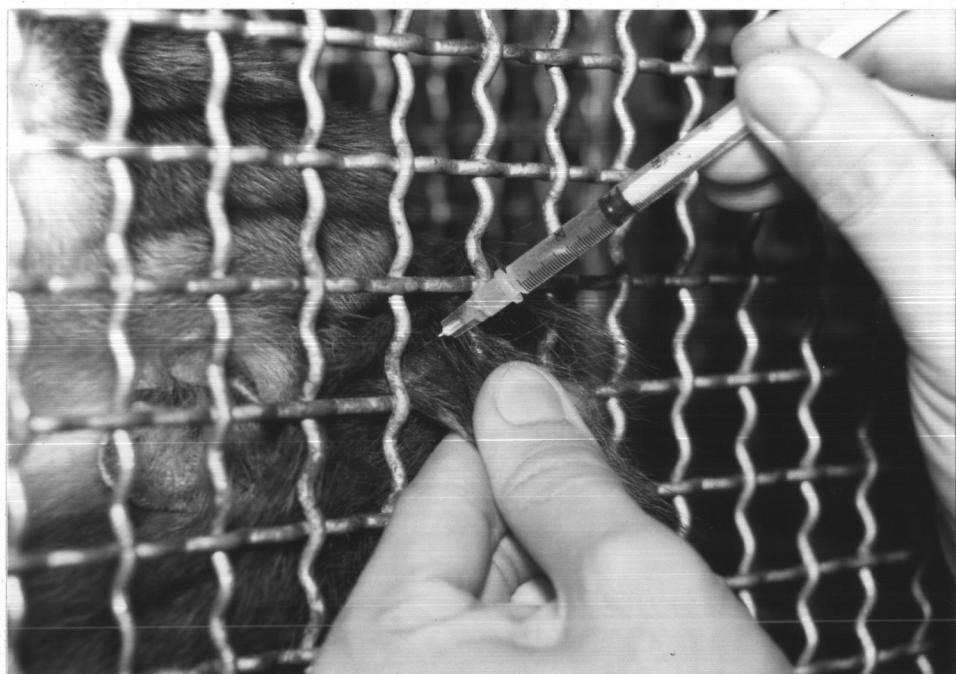


รูปที่ 9 แสลงลิงหางยาวเพศเมีย (Macaca fascicularis)

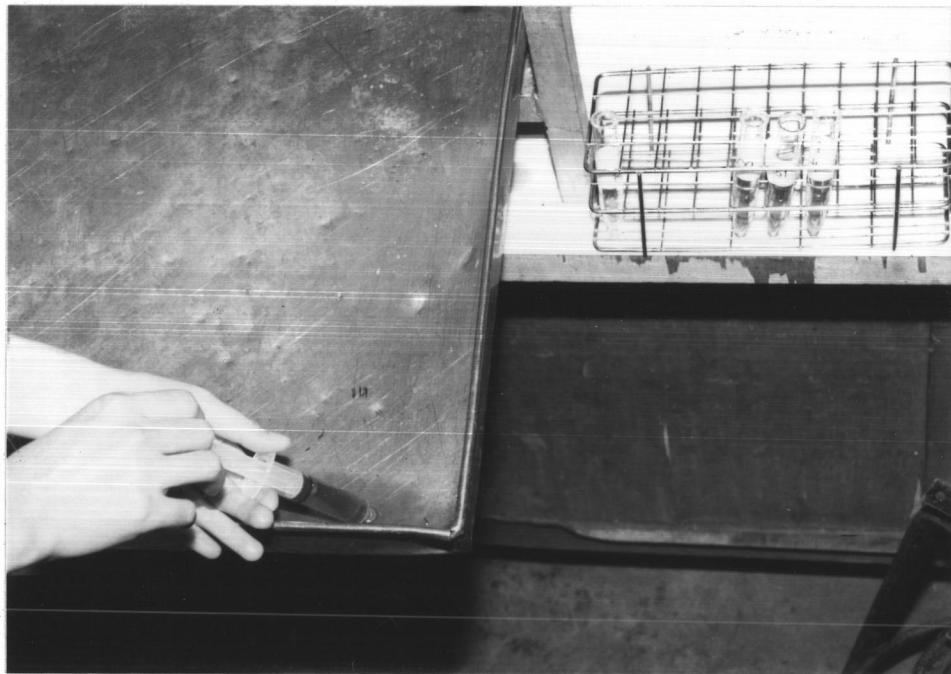
อายุ 9 ปี



รูปที่ 10 แสกงเลโวนอร์เจสเตรลและสารไอซีไอ ชิ่งละลายในน้ำมันงา



รูปที่ 11 แสดงการให้ยาโดยฉีดยาเข้าใต้ผิวหนัง



รูปที่ 12 แสดงการเก็บตัวอย่างบั้งสสาวะจากถุงชีงรองให้กรงเลี้ยงลิง

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 มหิดล ในปี พ.ศ. 2527

