

DAFTAR PUSTAKA

- Abeyawardane, S.A., D.J. Hathorn and R.G. Glencross. 1984. Concentrations of oestradiol 17beta and Progesterone in bovine plasma and defatted milk during postpartum anovulatory period , during oestrous cycle and following ovariectomy. Br. Vet. J. 140. 458-467.
- Abeyawardene, S.A. and G.S. Pope. 1987. The Involvement of Progesterone and Luteinizing Hormone in The Termination of The Post-ovulatory Rise in Plasma Oestradiol - 17 beta Concentration in Cattle. Anim. Reprod. Sci. 15. 27-36.
- Abraham, G.E., F.S. Manlimos. and R. Garsa. 1977. Radioimmunoassay of Steroid. Handbook of Radioimmunoassay. Marcel Dekker, Inc. New York and Basel. 591 - 656.
- Alam, M. G. S. and H. Dobson. 1987. Pituitary Responses to a Challenge Test of GNRH and Oestradiol Benzoat in Postpartum and Regularly Cyclic Dairy Cows. Anim. Reprod. Sci. 14. 1-9.

- Anonimus. 1984a. Laboratory Training Manual On Radioimmunoassay In Animal Reproduction. International Atomic Energy Agency, Vienna. Technical Reports Series. 233. 83 - 93.
- Anonimus. 1984b. Pertama di Asean: Indonesia Mampu Kuasai Teknologi Alih Embrio Sapi Unggul. Surabaya Post. 24 Desember.
- Anonimus. 1984c. Materi Dasar Pendidikan Program Akta Megajar V: Buku Ib, Metodologi Penelitian. Dept. Pendidikan dan Kebudayaan, Univ. Terbuka. p. 22-49.
- Anonimus. 1985. Instruksi Presiden: Delapan Menteri tangani persusuan. Surabaya Post. 29 Januari.
- Appleyard, W.T and B. Cook. 1976. The Detection of Oestrus in Dairy Cattle. Vet. Record. 99. 253 - 256.
- Arije, G.R., J.N. Wiltbank and H.L. Hopwood. 1974. Hormone Levels in Pre- and Post-parturient Beef Cows. J. Anim. Sci. 39. 338-344.
- Arnawa, I.W., 1988. Pengaruh Pemberian Aspirin dan Endomethasin terhadap siklus birahi pada mencit. Skripsi Fak. Kedokteran Hewan, UNAIR.
- Arnstadt, K.I. and B. Schmidt-Adamopoulou. 1982. Direct Enzymeimmunoassay for Determination of Progesterone in Milk from Cows. Br.Vet. J. 138, 436-438.

- Ball, P.J.H. and G.S. Pope. 1976. Measurement of Concentrations of Progesterone in Fat-Free cows milk. Its Potential Value in Studies of Reproduction. J.Endoc. 69. 40-41
- Ball, P.J.H., J.Rhodes and D.S. Hewitt. 1980. Postpartum ovarian activity in dairy cows Assessed by Milk Progesterone Profiles. Proc. 9th Int. Cong. Anim. Reprod. and AI. Madrid 3. 27.
- Ball, P.J.H. 1983. Fertility problems in dairy herds. In Practice. 5. p. 198-194.
- Batra, S.K., R.C. Arora, N.K. Bachlaus and R.S. Pandey. 1979. Blood and Milk Progesterone in Pregnant and Non-pregnant Buffalo. J.Dairy. Sci. 62. 1390.
- Berson, S.A. and R.S. Yalow. 1969. Radioimmunoassay Techniques Science. 152. 205.
- Bloomfield, G.A., S.V. Morant and M.J. Duckers. 1986. A Survey of Reproductive performance in Dairy Herds. Characteristic of Patterns of Progesterone Concentrations in Milk. Anim. Prod. 42. 1-10.
- Booth, J.M. 1980. Milk Progesterone Pregnancy Testing In Cattle and Other Species. In: Proc. 9th Int. Cong. Anim. Reprod. and AI, Madrid- Spain. 2. 109-117.

- Boyd, H and C.D. Munro. 1979. Progesterone Assays and Rectal Palpation in Pre-service Management of A Dairy Herd. Vet.Rec.104. 341-343.
- Brander, G.C. and D.M. Pugh. 1977. Veterinary Applied Pharmacology and Therapeutics. 3rd ed. The English language Books Society and Bailliere Tindall. London 134-157.
- Britt, J.H., D.A.Morrow., R.J.Kittock and B.E.Seguin. 1974. Uterine Involution, Ovarian Activity and Fertility After Melengestrol Acetate and Estradiol in Early Postpartum Cows. J.Dairy.Sci. 57. 89-92.
- Bulman, D.C. and G.E. Lamming. 1976. Radioimmunoassay of Progesteron in Milk For Diagnosis and Treatment of Subfertility in Dairy Cows. J.Endocr. 71. 52.
- Bulman, D.C and G.E. Lamming. 1978. Milk Progesterone Levels in Relation to Conception, Repeat Breeding and Factors Influencing Acyclicity in Dairy Cows. J.Reprod. Fertility. 54.447-458.
- Bulman, D.C and P.D.P.Wood. 1980. Abnormal PATTERN of Ovarian Activity in Dairy Cows and Their Relationships with Reproductive Performance. Anim. Prod. 30. 177-188.

- Butler, W.R., R.W. Everett, and C.E. Coppock. 1981. The Relation -Ship Betwen Energy Balance, Milk Production, and Ovulation in Postpartum Holstein Cow. J. Amin. Sci. 53. 742-748.
- Callahan, C.J., R.E. Erb., A.H. Surve and R.D. Randel. 1971. Variables Influencing Ovarian Cycles in Pospartum Dairy Cows. J. Anim. Sci. 33. 1053-1059.
- Carruthers, T.D and H.D. Hafs. 1980. Suckling and Four Times Daily Milking : Influence on Ovulation, Estrus and Serum Luteinizing Hormone, Glucocorticoid and Prolactin In Postpartum Holsteins. J. Anim. Sci. 50. 919-925.
- Casida, L.E. 1968. the postpartum cow - A. Resume. In studies on postpartum cows. Winconsin Res. Bull. 270. 48-54.
- Castellonos, R and L.E. Edqvist. 1978. Evaluation of Radioimmunoassay Technique for Measurement of Progesterone. FAO/SIDA Follow up Seminars On Anim. Reprod. Tirupathi, India. 5-27.
- Cavestany, D and R.H. foote, 1985. The use of milk Progesterone and Electronic vaginal prober as aids in Large Dairy Herd. Reproductive management. Cornell Vet. 75. 441-453.
- Cavestany, D., A.B. El-Wishy and R.H. Foote. 1985. effect. of Season and High Enviranmental temperature on fertility of Holstein cattle. J. Dairy. Sci. 68. 1471-1478.

- Chard, T. 1982. An Introduction To Radioimmunoassay and Related Techniques. 2nd Ed. Elsevier Biomedical Press, Amsterdam. 49-73.
- Corrie, E. T., 1982. Immunoassays For Steroid Hormones Using Radioiodinated Tracers. Br. Vet. J. 138, 349-442.
- Dawson , F.L.M. (1975). Accuracy of rectal palpation in Diagnosis of Ovarian Function in the Cow. Vet. Rec. 96. 218 - 220.
- Dial, G.D. 1984. Clinical Applications of Prostaglandins in Swine. JAVMA. 185. 1523-1530.
- Diley, R.A., E.K. Inskoop, S.P. Washburn dan J.C. Price. 1983. Use of PGF₂ or GnRH in Treating Problem Breeding Cows. J. Dairy. Sci. 66. 1721-1727.
- Diskin, M.G and J.M. Sreenan. 1982. Induction of Mild Superovulation in the Postpartum. Current Topics in Vet. Med. and Anim. Sci. 80. 548-561.
- Dobson, H., E. Sandie, S.A. Midmer and R.J. Fitzpatrick. (1975). Relationship between Progesterone Concentrations in Milk and Plasma during the Bovine Oestrous Cycle. Vet. Rec. 8. 222-223.
- Dobson, H. and R.J. Fitzpatrick. 1976. Clinical Application of The Progesterone-In-Milk Test. Br. Vet. J. 132. 538-542.

- Duby, R.T., T. Browning, D. Carey and D.L. Black. 1985. Progesteron Synthesis and Histology of Postpartum Bovine Corpora Lutea . Theriogenology. 23. 619-630.
- Echternkamp, S.E. and Hansel, W. (1973). Concurrent Changes in Bovine Plasma Hormone Levels Prior to and during the First Postpartum Oestrous Cycle. J. Anim. Sci. 37. 1362-1370.
- Edqvist, L.E., G. Fredriksson, H. Kindahl, K. Larsson and A. Madej, 1984. Short oestrous cycle Postpartum in cattle. In the use Domestic Buffalo production in Asia. IAEA. Report. 3. Vienna. p. 79-83.
- Edqvist, L.E., 1986. Professor in Dept. of Clinical Chemistry, Swedish University of Agricultural Sciences, Uppsala Sweden. Short Communication.
- Eldon, J., 1988. The postpartum reproductive performance of the Icelandic dairy cow. Ph.D Thesis. Dept. of Obstetrics and Gynaecology, Fac. of Vet. Medicine, Swedish University of Agricultural Sciences, Uppsala, Sweden .
- Eldon, J., Th. Olafsson and Th. Thornsteinsson. 1985. A Survey of the postpartum reproductive performance of dairy cows with fertility problems in Southerned Iceland . Acta.Vet. Scand. 26.431-441.

- Engvall, E. and P. Parlmann. 1972. Enzyme linked Immunosorbent Assay, III. Quantitation of Specific Antibodies by Enzyme-labeled Anti-immunoglobuline in Antigen-coated Tubes . J. Immunology. 109, 129-135.
- Erb, R.E., A.H. Surve., C.J. Callahan., R.D. Randel and H.A. Garverick. 1971. Reproductive Steroids in The Bovine. VII: Changes Postpartum. J. Anim. Sci. 33. 1060-1070.
- Fernades, L.C., W.W. Thatcher, C.J. Wilcox and E.P. Call. 1978. LH Release in Response to GnRH During The Postpartum Period of Dairy cows. J. Anim. Sci. 46. 443-448 .
- Foote, R.H., R.D. Smith, E.A.B. Oltenacu, R.K. Braun, and T.J. Reimers. 1980. Milk Progesterone Assay as a part of Reproductive Management Programme for Dairy Cattle. 1980. In: Proc. 9th Int. Cong Anim. Reprod. and AI. Madrid, Spain. 5. 135-144 .
- Gao, Y., R.V. Short and T.P. Fletcher. 1988. Progesterone Concentration in Plasma, Saliva and Milk of Cows in Different Reproductive States. Br. Vet. J. 144. 262-268.
- Gunzler, O., L. Korndorfer, R. Hamburger and B. Hoffmann .1976. The Importance of Milk Progesterone Test For Fertility Control and Diagnosis of Infertility in The Bovine . In: Proc. 8th Int. Cong. Anim. Reprod. and AI. 4. 582-585.

- Gunzler, O. and E. Schallenberger. 1981. The Treatment of Ovarian Cysts in Cattle with Prostaglandins, Possibilities and Limitations. Acta.Vet. Scand. Supp. 77. 327-341.
- Hafez, E.S.E. 1980. Reproduction in Farm Animals. 4th.ed . Lea and Febiger, Philadelphia. p. 30-82.
- Hansel,W. 1985. Advance in Physiology of Growth, Reproduction and Lactation. Cornell. Vet. 75. 56-76.
- Hardie, A.R. and R.L. Ax. 1981. A 40-Year Survey of Cystic Ovaries in Dairy Cows Program. Am. Dairy. Sci. Assoc. Lousiana (Suppl 1). 149-150.
- Hardjopranjoto, S., 1983. Fisiologi Reproduksi. Edisi ke 2. Fakultas Kedokteran Hewan, Universitas Airlangga Surabaya.
- Heap, R.B, M. Gwyn, J.A. Laing, and D.E.Walters. 1973. Pregnancy Diagnosis in Cows: Change in Milk Progesterone Concentration During The Oestrous Cycle and Pregnancy Measured by Rapid Radioimmunoassay . J. Agric. Sci.(Cambr) 81. 151-157.
- Heap, R.B., R.J. Holdsworth, J.E. Gadsby, J.A. Laing and D.E. Walters. 1976. Pregnancy Diagnosis in The Cows From Milk Progesterone Concentrations. Br. Vet. J. 132. 445-451.

- Hoffmann, B., O. Gunzler, R. Hamburger and W. Schmidt. 1976. Milk Progesterone as Parameter for fertility control in Cattle : Methodological approaches and present status of application Germany. Brit.Vet.J. 132. 469.
- Holdsworth, R.J. dan J. Davies. 1979. Measurement of Progesterone in Goat's Milk : An Early Pregnancy test Vet. Rec. 105, 535.
- Hoover, J.E., 1975. Remingtons Pharmaceutical Sciences. 17th ed. Mack Publishing Co. Pennsylvania. 920-924.
- Jainudeen, M.R. 1976. Effect of Climate of Reproduction Among female farm animals in Tropics. 8th. Int.Congr.on Anim. Reprod and AI. Krakow . 28-37.
- Jainudeen, M.R. and E.S.E. Hafez. 1980. Gestation, Prenatal Physiology and Parturition. Reproduction In Farm Animals. 4th eds. E.S.E. Hafez. Ed. Lea and Fibeger. Philadelphia. p.282.
- Jainudeen, M.R. 1985. Reproduction in Draught Animal : Does Work Affect Female Fertility. In Proc. at James Cook University, Queensland, 10-16 July. 1985. Ed. J. W. Copland. Aciar Proceeding Series. p. 130-133.
- Jones, D.L. 1982. Fundamentals of Obstetrics and Gynaecology. 3th. Ed. The English Language Book Society and Faber Limited. 53-57.

- Kaltenbach, C.C., and T.G. Dunn. 1980. Endocrinology of Reproduction. Reproduction in Farm Animals. 4th. E.S.E.Hafez ed. p. 97.
- Kesler, D.J., H.A. Garverick, R.S. Youngquist, R.G. Elmore and B.J. Bierschawal. 1977. Effect of Days Postpartum And Endogenous Reproductive Hormones on GnRH-Induced LH Release in Dairy cows. J.Anim Sci. 46. 797.
- Kesler, D.J., H.A. Garverick, R.S. Youngquist, R.G. Elmore, and C.J. Bierschwal. 1978. Ovarian and Endocrine Responses and Reproductive Performance Following Gn RH Treatment in Early Postpartum Dairy Cows. Theriogenology 9 . 363-369.
- Kesler, D.J., H.A. Garverick, C.J. Bierschwal, R.G. Elmore and R. S. Youngquist. 1979. Reproductive Hormones Associated with Normal and Abnormal Changes in Ovarian Follicles in Postpartum Dairy Cows. J.Dairy Sci. 62 . 1290-1296.
- Kesler, D.J., T.R. Troxel and P.L. Hixon. 1980. Effect of Days Postpartum and Endogenous GnRH on Reproductive Hormone and Ovarian Changes in postpartum Suckled Beef cows. Theriogenology. 13, 287-296.

- Kindahl, H., L.-E. Edqvist, K. Larsson, and A. Malqvist. 1982. Influence of Prostaglandins on Ovarian Function Postpartum . In: Current Topics in Vet. Med. and Anim. Sci. H. Karg and E. Schallenberger. Eds. 20. 173-192.
- Kindahl, H., G. Fredriksson, A. Madej and L.E. Edqvist. 1984. Role of Prostaglandins in Uterine Involution. 1st. Research Coordination Meeting. Vienna International Centre (VIC) Vienna, Austria.
- King, G.J., 1986. Intelligent Use and Potential Abuse of Hormone Assays in Animal Production Research. In: Int. Proc. Symposium On The Use of Nuclear Techniques in Study of Animal Production and Health in Different Environments . IAEA-SM-292/28, Vienna Austria.
- Kummerfeld, H.L., E.A.B. Oltenacue and R.H. Foote. 1978. Embryonic Mortality in Dairy Cows Estimated by Nonreturn to Service, Estrus and Cyclic Milk Progesterone patterns. J. Dairy. Sci. 61. 1773-1777.
- Labhsetwar, A.T., W.E. Collin, W.J. Tyler, and L.E. Casida. 1964. Some Pituitary Ovarian Relationships in the Periparturient Cow. J. Reprod. Fertil. 8 . 85.
- Laing, J.A., 1976. Progesterone Assay of Milk and The Control of Infertility. Br. Vet. J. 132, 534-537.
- Laing, J.A., 1979. Fertility and Infertility in Domestic Animals. Bailliere-Tindall, London. p. 37-54.

- Laitinen, J., E. Remes, M. Fenhunen, O. Hanninen, and M. Alanko. 1985. Milk Progesterone in Finnish Dairy Cows : A Field Study On the Control of Artificial Insemination and Early Pregnancy. Br. Vet. J. 141. 297-307.
- Lamming, G.E., and D.C. Bulman. 1976. The Use of Milk Progesterone Radioimmunoassay in the Diagnosis and Treatment of Subfertility in Dairy Cows. Br. Vet. J. 132 . 507-517.
- Lamming, G.E., D.C. Wathes, and A.R. Peters. 1981. Endocrine Patterns of Postpartum Cows. J. Reprod. Fert. Suppl. 30. 155-170.
- Lamming, G.E., A.R. Peters, G.M. Riley and M.W. Fisher. 1982. Endocrine Regulation in Postpartum Function. Current Topics in Vet. Med. and Anim. Sci. 20, 148-172.
- Larsson, K., L. Janson, B. Berglund, L.E. Edqvist and H. Kindahl. 1984. Postpartum Reproductive Performance in Dairy Cows. Acta vet. Scand. 25. 445-461.
- Lengeman, F.W., T.J. Reimers. 1982. FAO/IAEA Interregional Training Course On Radioimmunoassay and its Application in Research On Animal Reproduction. Solid Phase Radioimmunoassay for Milk Progesterone. New York State College of Vet. Med. Cornell University Ithaca, New York USA.

- MacCracken, J.A., W. Schramm, B. Barcikowski and L. Wilson jr. 1981. The Identification of Prostaglandin F₂alpha as a Uterine Luteolitik hormon and The hormonal control of its Synthesis. Acta Vet. Scand. 77, 71-88 (suppl).
- Mahaputra, L. 1983. The Postpartum Ovarian Function in Dairy Cattle. Thesis. M.Sc. UPM.
- Mahaputra, L., S. Hardjopranjoto., M. Soerjoatmodjo, dan M. R. Indra. 1986. Defatted Milk Progesteron Radioimmunoassay As a tool to Confirm Estrus, Early Pregnancy and Embryonic Death in Dairy Cattle. In: Proc. Int. Symposium On the Use of Nuclear Techniques in Different Invironments. IAEA-SM-292/6P .Vienna, Austria.
- Mahaputra, L., Wurlina. dan I. Mustofa. 1987. Mikrobiometri Embrio dan Aspek Hormon Progesteron pada Kelinci, Kambing dan Sapi. Seminar .14 Oktober. Fak. Kedokteran Hewan Unair.
- Malven, P.V., 1984. Pathophysiology oh The Puerperium. Difinition of The Problem . Proc. Int. Anim. Reprod. and AI. 9, III,1-8.
- Marion, G. B., H. T. Gier, and J. B. Choudary. 1968. Micromorphology of the Bovine Ovarian Follicular System. J.Anim.Sci. 27. 451-465.

- Martoprawiro, H. M. dan J. Adiwinata. 1984. Pengaruh pemberian Depo medroxy progesterone acetate (DMPA) dini pada induk tikus saat laktasi terhadap pertumbuhan berat bayinya. *Majalah Kedokteran Indonesia*. 34. 349-353.
- Mather, E.C., P.M. Camper, F. Vahdat, H.L. Whitmore, and B.G. Gustafsson. 1978. Assessment of Ovarian Activity in The Postpartum Dairy Cows By Use Of A Milk Progesterone assay. *Theriogenology*, 10. 119-129.
- McDowell, L.R., J.H. Conrad, and J.K. Loosli. 1986. Mineral Imbalances and Their Diagnosis in Ruminants. In: *Int. Symposium on The Use of Nuclear Techniques in Studies of Animal Production and Health in Different Environments*. IAEA-SM-292/25, Vienna, Austria.
- Meyer, H.H.D., 1986. Possibilities to Improve Enzyme Immunoassay (EIA) Techniques and Their Application in Animal Production. In: *Int. Symposium on The Use of Nuclear Techniques In Studies of Animal Production and Health In Different Environments*. IAEA-SM-292/31. Vienna, Austria .
- Miksch, E.D., D.G. Le Fever, G. Mukembo, J.C. Spitzer and J.N. Wiltbank. 1978. Synchronization of oestrus in Beef Cattle. Effeect of an Injection of Norgestomet Implant in Heifers and Cows. *Theriogenology*. 10. 201 - 221.

- Mohamed, A.R., R. Sivakanesan and R. Rajamahendran. 1986. Postpartum Changes, Oestrus Detection and Pregnancy in Some Dairy Herds in Sri Lanka. In: Proc. Int. Symposium on The use of Nuclear Techniques in Different Environments . IAEA-SM-292/10P .Vienna, Austria.
- Morales, T.I., J.F. Woesner, D.S. Howell, J .M. Marsh and W.J.Lemaire. 1978. Prostaglandin F₂ as a luteolytic agent in cattle Biochim. Biophys. Acta. 524 . 428 - 434.
- Morrow, D.A., S.J. Robert, K. McEntee and H.G. Gray. 1966. Postpartum Ovarian Activity, and uterine Involution in Dairy Cattle, J.A.V.M.A. 149.1596-1609.
- Morrow, D. A. 1969. Postpartum Ovarian Activity in Involution of Uterus and Cervix in Dairy Cattle. Vet. Scope. 14. 1-14.
- Morrow, D.A. 1980. Milk Progesteron Assay for Evaluating Reproductive Status in Cattle. Vet. Rec. Continuing Education Artical. 9. S 154 - S 157.
- Mulvany, P. 1977. Dairy cow condition scoring . Nutritional Institute for research in dairying, London. p. 2-3.
- Nadaraja, R. and W. Hansel. 1976. Hormonal Changes Associated With Experimentally Produced Cystic Ovaries in Cow. J. Reprod. Fert. 47.203-208.

- Nessan, G.K., G.J. King, G.W. Mc. Kay, J.D. Thoson. and W. Bertrand. 1977. Treatment of Cystic Ovarian Degeneration in Dairy Cows With GnRH or HCG. Canadian Vet. J. 18.33-37.
- Oltner, R. and L.E. Edqvist. 1981. Progesterone in Defatted Milk : Its Relation to Insemination and Pregnancy in Normal Cows as Compared With Cows on Problem Farms and Individual Problem. Animals. Br. Vet. J. 137.78-87.
- Pennington, J.A., S.L. Spair and J.R. Lodge. 1976. Factors Effecting Progesterone in Milk for Pregnancy Diagnosis in Dairy Cattle. Br. Vet. J. 137.487-496.
- Peters, A.R., G.E. Lamming and M.W. Fisher. 1981. A Comparison of Plasma LH Concentrations in Milked and Suckling Postpartum Cows. J. Reprod. Fert. 62.567-573.
- Petit, M., F. Deletang and M. Thibier. 1978. Reproductive Responses of Beef Heifers and Cows to Exogenous Progesterone Administered in Silatic coils, Oestradiol Benzoate and Pregnant Serum Gonadotropin. Theriogenology. 9. 493-504.
- Pope, G.S., I.Majzlik, P.J.H.Ball and J.D. Leaver. 1976. Use of Progesterone Concentrations in Plasma and Milk in The Diagnosis of Pregnancy in Domestic Cattle. Br.Vet.J. 132 . 497-506.

- Pope, G.S. 1982. Estrogen and Progesterone in Plasma and Milk of Postpartum Dairy Cattle. Current Topics in Vet. Med. and Anim. Sci. 20 . 248-276.
- Reimers, T.J., R.D. Smith and S.K. Newman. 1985. Management factors affecting reproductive performance of dairy cows in the North-eastern United States . J.Dairy.Sci.68. 963-972.
- Riley, G.M., A.R. Peters, and G.E. Lamming. 1981. Induction of Pulsatile LH Release, FSH Release and Ovulation in Postpartum Cyclic beef Cows by Repeated Small Doses of GnRH. J. Reprod. Fert. 63, 559-565.
- Roberts, S.J. 1971. Veterinary Obstetrics and Genital Diseases 2nd ed. Published by Author, Ithaca. New York. p, 35-104.
- Roche, J.F., D.J. Prenderville, and W.D. Davis. 1977. Calving Rate Following Fixed Time Insemination After 12 days Progesterone Treatment in Dairy Cows, Beef Cows and Heifers. Vet. Rec. 101, 417-419.
- Rosenberg, M., Z. Herz, M. Davidson and Y. Folman. 1977. Seasonal Variations in Postpartum Plasma Progesterone Levels and Conception in Premiparous and Multiparous Dairy Cows. J. Reprod. Fert. 51. 363-367.

- Rudd, R. and M. Kopcha. 1982. Therapeutic Use of Prostaglandin F₂alpha. J. Am. Vet. Med. Assoc. 176. 1178-1181.
- Saiduddin, S., J.W. Reisen, W.J. Tyler and L.E. Casida. 1968. Relelation of Postpartum Interval to Pituitary Gonadotropin and Fertility in Dairy Cows. Wis. Agr. Exp. Sta. Res. Bull. 270 . 15-22.
- Schams, D., E. Schallenberger, Ch. Memzer, J. Stangl, K. Zottmaojer, B. Hoffmann, and H. Karg. 1978. Profiles of LH, FSH and Progesterone in Postpartum Dairy Cows and their Relationship to the Commencement of the Cyclic Functions. Theriogenology. 10. 453-459.
- Schiavo, J.J., R.L. Matuszczak , E.B. Altenacu, and R.H. Foote. 1975. Milk Progesterone in Postpartum and Pregnant Cows as a Monitor of Reproductive Status. J.Dairy Sci. 58. 1713-1716.
- Schillo, K.K., D.J. Diersehke and E.R. Hauser. 1982. Regulation of Luteinizing Hormone Secretion in Prepubertal Heifers. Increased Threshold to Negative Feedback Action of Estradiol. J. Anim. Sci. 54, 325-335 .
- Schirar, A. and J. Martinet. 1982. Postpartum Ovarian Activity and Its Interaction with Uterus in Resuming Cyclic Activity Pospartum. Current Topic in Vet. Med. and Anim. Sci. 20. 68-88.

- Seguin, B.E., E.M. Convey and W.D. Oxender. 1976. Effect of Gonadotropin Releasing Hormone and Human Chorionic Gonadotropin On Cows with Ovarian Follicular Cysts. Amer. J. Vet. Res. 37. 153-157.
- Seguin, B.E. 1980a. Prostaglandin Therapy in Cattle with Unobserved Estrus. Current Therapy in Theriogenology : Diagnosis Treatment and Prevention of Reproductive Diseases in Animals. W. B. Saunders Company Philadelphia. 296-299.
- Seguin, B.E. 1980b. Ovarian Cysts in Dairy Cows. Current Therapy in Theriogenology: Diagnosis, Treatment and Prevention of Reproductive Diseases in Animals. W.B. Saunders Company, Philadelphia. p. 199-204.
- Sharifuddin, W., M.R. Jainudeen, L. Mahaputra and G.W. Manefield. 1983. The Milk Progesterone Assay for Monitoring Fertility of Dairy Cows in Small Holder Farms in Malaysia. Proc. 5th. Wld. Conf. Anim. Prod. 2 : 237. Tokyo, Japan.
- Sharifuddin, W., M.R. Jainudeen, and K. Azizuddin. 1988. The milk Progesterone Radioimmunoassay For Monitoring Fertility In Small Holders Dairy Cattle in Malaysia: Reproductive Performance Of Small Holder Crossbred Dairy Cattle. Application of Radioimmunoassay to Improving The Reproductive Efficiency and Productivity of Large Ruminants. 05-09 Sept, IAEA/FAO Vienna, Austria.

- Sharpe, P.H. and G.J. King. 1981. Postpartum Ovarian Function Of Dairy Cows in A Tropical Environment. J. Dairy. Sci. 64. 672-677.
- Shemesh, M., N. Ayalon, E. Shalev, A. Nerya, H. Schindler, and F. Milguir. 1978. Milk Progesterone Measurement in Dairy Cows : Corelation With Oestrus and Pregnancy Determination. Theriogenology. 9. 343-351.
- Shemesh, M., 1980. Progesterone Cyclicity and The Effect of The Conceptus on Plasma Progesterone in Cattle and Sheep In: Pro. 9th. Int. Cong. Anim. Reprod. and AI. Madrid, Spain 2, 103-108.
- Siegmund, H., 1979. Reproductive and Urinary System. The Marck Veterinary Manual. 5th. ed. Merck & Co., Inc. Rahway, N.J. USA. p. 794-799.
- Snook, R., R. Saatman and W. Hansel. 1971. Serum Progesteron and Lutenizing Hormone levels During Bovine Oestrous Cycle . Endocrinol. 88, 678.
- Snyder, S.H. 1985. The Molecular Basis of Comunication Beetwen Cells. Scientific American. 235. 114-123.
- Soerjoatmodjo, M. 1985. Penggunaan Medroxy Progesteron Asetat untuk Memperpanjang Siklus Birahi pada Sapi. Media Kedokteran Hewan UNAIR. 1. 5-12.

- Sreenan, J.M. and P. Mulvehill. 1975. The Application of Long and Short-term Progestagen Treatments for Oestrous Cycle Control in Heifers. *J. Reprod. Fert.* 45. 367-369.
- Stabenfeldt, G.H., J.P. Hughes, D.P. Neely, H. Kindahl, L.E. Edqvist and B. Gustafsson. 1980. Physiologic and Pathologic Aspects of Prostaglandin F₂alpha during The Reproductive Cycle. *J. Am. Vet. Ass.* 76, 1187-1194 .
- Steel, R.F. and J.H. Torrie. 1980. Principle and Procedures of Statistic. 2nd ed. Mc Graw Hill Book Company Inc., New York.
- Stevenson, J.S., and J.H. Britt. 1979. Relationship Among Luteinizing Hormone, Estradiol, Progesterone, Glucocorticoids, Milk Yield, Body Score, Body Weight and Postpartum Ovarian Activity in Holstein Cows. *J. Anim. Sci.* 48, 570-577.
- Suradisastra, K. and M.F. Nolan. 1983. Consumption of Animal Products Among Traditional Sheep Farmers in Two West Java Village. Univ. of Missouri Small Ruminant CRSP Working Paper, No. 16.
- Subandriyo, P., E. Sitorus dan Triwulanningsih. 1981. Sapi Friesian Lokal di ITPT Baturraden dan P.S. Salib Putih, Jawa Tengah. Research Institute For Animal Production. Bogor. Sept. 1-13.

- Tribble, R.L., A.M. Sorensen, Jr.T.L. Woodward, J.S. Connor, J.R. Beverly and J.L. Flecger. 1973. Serum Proggestins and Luteinizing Hormone Levels in Non Suckled Premiparous Heifers. *Nature Lond.* 246.494-495.
- Van de Wiel, W.Koop and E. Vos, 1986. Enzyme and Radioimmunoassay Techniques for Hormone Determination in Livestock. In: *Int. Symposium on The Use Of Nuclear Techniques in Studies of Animal Production and Health in Different Environments* . IAEA-SM-292/7. Vienna, Austria.
- Vearl,G. and J. Smith. 1979. *Physiology of Lactation*. 4th. ed. Iowa State University Press. Am. Iowa. P. 175-180.
- Voller, A., D.E. Bidwell and A. Bartlett. 1979. *The Enzyme Linked Immunosorbent Assay (ELISA)*. Dynatech Europe, Borough House, RU du Pre, Guernsey, G.B.
- Wagner, W.C. and W. Hansel. 1969. *Reproductive Physiology of Postpartum Cow I. Clinical and Histological Finding*. *J. Reprod. Fert.* 18 . 493-500.
- Wagner, W.C. and S.L. Oxenreider. 1971. *Endocrine Physiology Following Parturition*. *J. Anim. Sci.* 32. 1-16 (Suppl.1)

- Walters, D.L., C.C. Kaltenbach, T.G. Dunn and R.E. Short. 1982 . Pituitary and Ovarian Function in Postpartum Beef Cows Effect of Suckling on Serum and Follicular Fluid Hormones and Follicular Gonadotropin Receptors. Biol. Reprod. 26. 640-646.
- Webb, R., G.E. Lamming, N.B. Haynes and G.R. Foxcroft. 1980. Plasma Progesterone and Gonadotrophin Concentrations and Ovarian Activity in Postpartum Dairy Cows. J. Reprod. Fert. 59. 133-143.
- Wettemann, W.C. 1980. Postpartum Endocrine Function of Cattle, Sheep and Swine. Physiology Following Parturition. J. Anim. Sci. 52, 2-15 (Suppl. 1).
- Whitmore, H.L., W.J. Tyler and L.E. Casida. 1974. Effect of Early Postpartum Breeding In Dairy Cattle. J. Anim. Sci. 38. 339-346.
- Willemse, A.H., H.U.R. Nieuwenhuis, S.J. Dieleman and M.C. Pieterse. 1982. Treatment of True Anoestrus in Dairy Cows With A Progesterone Releasing Intravaginal Device (PRID). In: H. Karg and E. Schallenberger. Eds. Current Topics in Vet. Med. and Anim. Sci. 20. 536-541.
- Williams, G.L., F. Talavera, B.J. Petersen, J.D. Kirsch and J.E. Tilton. 1983. Coincident Secretion of FSH and LH in Early Postpartum Beef Cows. Effect of Suckling and Low Levels Increase of Systemic Progesterone. Biol Reprod. 29. 362-373.

- Wishart, D.F and I.M. Young. 1974. Artificial Insemination of Cattle at a Pre-determinate Time Following Treatment With a Patent Progestagen. Vet. Rec. 95. 503 - 508.
- Zaied, A.A., H.A. Garverick, C.J. Bierschawal, R.G. Elmore, R.S. Yuongquist and A.J. Sharp. 1979. Effect of Ovarian Activity. and Endogenous Reproductive hormones on GnRH Induced Ovarian Cycle in Postpartum Cows. Proc. 71st. Ann. Meet. Am. Soc. Anim. Sci. p.351.
- Zemjanis, R., M.L. Fahming and R.H. Schultz. 1969. Anoestrus The Practitioners Dilemma. Vet. Scope. 14. 15 - 24.
- Zemjanis, R., 1980. Anoestrus in Cattle. Current Therapy in Theriogenology: Diagnosis, Treatment and Prevention of Reproductive Diseases in Animals. W.B. Saunders Company Philadelphia , P. 193-199.
- Zuckerman, H. and S. Harpez-K. 1979. Prostaglandin and Their Inhibitors in Premature Labor : In Practical Applications of Prostaglandin and Their Synthesis Inhibitors. SMM Karim ed. MTP. Press Ltd. Lancaster. p. 412-435 .