

REFERENCES

- Arias, F. Predictability of complications associated with prolongation of pregnancy. Obstet. Gynecol. 70 (1987): 101-5.
- Ballantyne, J. W. The problem of the postmature infant. J. Obstet. Gynaecol. Br. Emp. 2 (1902): 521-54.
- Barham, K. A. Aust. N. Z. J. Obstet. Gynaecol. 13 (1973): 209.
- Battaglia, F. C., Frazier, T.M., Hellegers, A. E. Birthweight, gestational age, and pregnancy outcome, with special reference to high birthweight - low gestational age infant. Pediatrics 37 (1966): 417-22.
- Beischer, N. A., Brown, J. B., and Townsend, L. Studies in prolonged pregnancy. III: Amniocentesis in prolonged pregnancy. Am.J.Obstet.Gynecol. 103 (1969): 496.
- Berkowitz, G.S., et al. Sonographic estimation of fetal weight and Doppler analysis of umbilical artery velocimetry in the prediction of intrauterine growth retardation: a prospective study. Am.J.Obstet.Gynecol. 158 (May 1988): 1149-53.

- Bernstine, R. L. Clin. Obstet. Gynecol. 3 (1960): 852.
- Boyce, A., Mayaux, M.J., Schwartz, D. Classical and "true" gestational postmaturity. Am. J. Obstet. Gynecol. 125 (1976): 911-4.
- Boyd, M.E., Usher, R.H., McLean, F.H., Kramer, M.S. Obstetric consequences of postmaturity. Am. J. Obstet. Gynecol. 158 (1988): 334-8.
- Browne, J.C.M. Postmaturity. Am. J. Obstet. Gynecol. 85 (1963): 573-82.
- Chevenak, J.L., et al. Macrosomia in postdate pregnancy: is routine ultrasonographic screening indicated? Am. J. Obstet. Gynecol. 161 (1989): 753-6.
- Clifford, S.H. Postmaturity with placental dysfunction; Clinical Syndrome and Pathogenic Findings. J. Pediatr. 44 (1954): 1-13.
- Daichman, I., and Gold, E. M. Postdate labor: Effects on mother and fetus. Am. J. Obstet. Gynecol. 68 (1954): 1129.
- Daikoku, N.H., et al. Patterns of IUGR. Obstet. Gynecol 54 (1979): 211-19.
- Eden, R.D., Seifert, L.S., Winnegar, A., Spellacy, W.N. Perinatal characteristics of uncomplicated postdate pregnancies. Obstet. Gynecol. 69 (1987): 296-9.

- Evans, T.N., Koeff, S.T., Morley, G.W. Am. J. Obstet. Gynecol. 85 (1963): 701.
- Fitzhardinge, P.M., Steven, E.M. The small for date infant. II. Neurological and intellectual sequelae. Pediatrics 50 (1972): 50.
- Gibberd, G.F. The choice between the deaths from postmaturity and deaths from induction of labour. Lancet 1 (1958): 64.
- Golditch, I.M. and Kirkman, K.: The large fetus management and outcome. Obstet. Gynecol 52 (1978): 26-30.
- Green, J.N., Paul, R.H. The value of amniocentesis in prolonged pregnancy. Obstet. Gynecol. 51 (1978): 293-8.
- Gregory, G.A., Goodling, C.A., Phibbs, H., Tooley, W.H.: Meconium aspiration in infants. A prospective study. J. Pediatr. 85 (1974): 848-52.
- Gruenwald, P. The fetus in prolonged pregnancy. Am. J. Obstet. Gynecol. 89 (1964): 503.
- Hertig, A.T., Rock, J., Adams, E.C., Menkin, M.C. Thirty-four fertilized human ova, good, bad, and in different, recovered from 210 women of known fertility. A study of biologic wastage in early human pregnancy. Pediatrics 23 (1959): 202-211.

- Hill, L.M., Breckle, R., Wolfgram, K.R., O'Brien, P.C.
Oligohydramnios: Ultrasonically detected incidence
and subsequent fetal outcome.
Am. J. Obstet. Gynecol 147 (Oct 1983): 407-10.
- Holtorff, J., and Schmidt, H. Zentralbl. Gynaekol.
88 (1986): 441.
- Jenkins, D.M., Farquhar, J.B., Oakey, R.E. Urinary estrogen
excretion in prolonged pregnancies.
Obstet. Gynecol. 37 (1971): 442.
- Kallen, B. Epidemiology of Human Reproduction. 1st ed.
Florida: CRC press, Inc., 1988.
- Karn, M.N., Pencrose, L.S. Ann. Eugenics 16 (1951): 147.
- Klapholz, H., Friedman, E. The incidence of intrapartum
fetal distress with advancing gestational age.
Am.J.Obstet.Gynecol. 127 (1977): 405-7.
- Kloosterman, G.J. Gynaecologia 142 (1956): 373.
- Kramer, M.S., McLean, F.H., User, R.H., Boyd, M.E. The
validity of gestational age estimation by menstrual
dating in term, preterm, and postterm gestations.
J. A. M. A. 260 (1988): 3306-8.
- Kunstadter, R.H., Schnitz, S.E. Postmaturity and placental
dysfunction syndrome. J. A. M. A. 161 (1956):
1551-55.

- Lin, C.C., Moawad, A.H., Rosenow, P.J., River, P. Acid-Base characteristics of fetuses with IUGR during labor and delivery. Am. J. Obstet. Gynecol 137 (1980): 553-9.
- Low, J.A., et al. The probability of fetal metabolic acidosis during labor in a population at risk as determined by clinical factors. Am. J. Obstet. Gynecol. 141 (1981): 941-51.
- Lowrey, G.H. Growth and Development of children. 8th ed. Chicago year book medical publishers, 1986.
- Lucas, W.E.; Ancil, A.O., Callagan, D.A. The problem of postterm pregnancy. Am. J. Obstet. Gynecol. 91 (1965): 241-50.
- Marsal, K., Persson, P.H. Ultrasonic measurement of fetal blood velocity wave form as a secondary diagnostic test in screening for intrauterine growth retardation. J. C. U 16 (May 1988): 239-44.
- McLean, F.H, Boyd, M.E., Usher, R.H., Kramer, M.S. Postterm infants: Too big or too small? Am. J. Obstet. Gynecol. 164 (1991): 619-24.
- Mintz, N. Cesarean section for fetal distress Am. J. Obstet. Gynecol. 79 (1960): 224.

- Modanlou, H.D., et al. Macrosomia: Causes - Maternal, Fetal and neonatal implications. Obstet. Gynecol 55 (1980): 420-424.
- Modanlou, H.D., Komatsu, G., Dorchester, W., Freeman, R.K., and Bosu, S.K. Large for gestational age neonates. Anthropometric reasons for shoulder dystocia. Obstet. Gynecol 60 (1982): 417-423.
- Morris, E.D. Br. Med. Bull. 24 (1968): 76.
- Nakano, R. Acta Obstet. Gynecol. Scand. 51 (1972): 217.
- Nathason, J.N. The excessively large fetus as an obstetric problem. Am. J. Obstet. Gynecol. 104 (1969): 195-204.
- Nesbitt, R. Prolongation of pregnancy. A review. Obstet. Gynecol. Surv 10 (1955): 311-62.
- Parks, D.G. and Ziel, H.K. Macrosomia-a proposed indication for primary cesarean section. Obstet. Gynecol. 52 (1978): 407-409.
- Pauerstein, C.J. Clinical obstetrics. 1st ed. New York: John Wiley-sons, 1987.
- Perlin, I. A. Postmaturity. Am. J. Obstet. Gynecol. 80 (1960): 1.

- Philipson, E.H., Sokol, B.J., Williams, T. Oligohydramnios: clinical associations and predictive value for intrauterine growth retardation.
Am. J. Obstet. Gynecol 146 (Jun 1983): 271-8.
- Prichard, J.A., MacDonald, P.C., Gant, N.F. Williams obstetrics. 17th ed. Connecticut: Appleton-Century-Crofts, 1985.
- Prichard, J.A., MacDonald, P.C., Gant, N.F. Williams obstetrics. 18th ed. Connecticut: Appleton-Century-Crofts, 1989.
- Sack, R.A. The large infant: A study of maternal, obstetric, fetal, and newborn characteristics; including a long-term pediatric follow-up.
Am.J.Obstet.Gynecol. 104 (1969): 195-204.
- Schneider, J.M., Olson, R.W., Curet, L.B. Screening for fetal and neonatal risk in the postdate pregnancy.
Am. J. Obstet. Gynecol 131 (1978): 473-8.
- Seads, J.W. Impaired fetal growth: Definition and clinical diagnosis. Obstet.Gynecol 64 (1984): 303-320.
- Sjostedt, S., Engleson, G., and Rooth, G. Dysmaturity.
Arch.Dis.Child. 33 (1958): 123.
- Stevenson, D.K., Cohen, R.S., Kerner, J.A. Macrosomia : Causes and consequences .
J.Pediatr. 100 (1982): 515-520.

Strand, A. Acta Obstet. Gynecol. Scand. 35 (1956): 76.

Studd, J., Cardozo, L. Evaluation of labor. In:
StuddJWW, ed. The management of labor.
Oxford: Blackwell Scientific (1985): 123-32.

Tchilinguirian, N. G. O. Clin. Obstet. Gynecol.
16 (1973): 329.

Thaithumyanon, P., Bhongvej, S., Chittinand, S.
Intrauterine growth in a Thai population.
J. Pediatr. Soc. Thai. 23 (Jul.-Dec.1984): 99-106.

Tucker, B.E., Benaron, H.B.W. The postmature baby.
Am. J. Obstet. Gynecol. 73 (1957): 1314-20.

Usher, R.H., Boyd, M.E., McLean, F.H., Kramer, M.S.
Assessment of fetal risk in postdate pregnancies.
Am. J. Obstet. Gynecol. 158 (1988): 259-64.

Varma, T. R. Aust. N. Z. J. Obstet. Gynecol. 13 (1973):
191.

Voherr, H., In Wynn, R. M. Editor: Obstetrics and
Gynecology Annual 1974. New York: Appleton-
-Century-Crofts. 3 (1974): 283.

Voherr, H. Placental insufficiency in relation to
postterm pregnancy and fetal postmaturity :
Evaluation of fetoplacental function; management of
the postterm gravida. Am. J. Obstet. Gynecol. 123
(1975): 67-103.

- Belfort, P., Pinotti, J.A., Eskes, T.K.A.B. Advances in gynecology and obstetrics volume 2 : Fetal physiology and pathology. The proceedings of the XIIth Congress of Gynecology and Obstetrics Rio de Janeiro. New Jersey: The Parthenon Publishing Group, 1989.
- Walker, J. J. Obstet. Gynecol. Br. Commonw. 61 (1954): 162.
- Willson, J.R., Carrington, E.R., Ledger, W.J., Laros, R.K., Mattox, J.H. Obstetrics and gynecology. 8th ed. Missouri: The C.V. Mosby Co, 1987.
- Wrigley, A.J. Lancet 1 (1958): 1167.
- Yerushalmy, J. Relation of birth weight, gestational age, and the rate of intrauterine growth to perinatal mortality. Clin. Obstet. Gynecol. 13 (1970): 107-129, 1970.
- Zwerdling, M.A. Factors pertaining to prolonged pregnancy and its outcome. Pediatrics 40 (1967): 202-12.



APPENDICES

ศูนย์วิทยทรัพยากร
จุฬาลงกรณ์มหาวิทยาลัย

APPENDIX A

DATA COLLECTION FORM

Record number :

I/ MATERNAL EXAMINATION

Name of pregnant women :

Age :

Living place :

Education :

Occupation :

The first day of LNMP :

The ultrasound :

DIAGNOSIS

. Term pregnancy /_/_/

. Post term pregnancy /_/_/

II/ NEWBORN INFANT EXAMINATION

Infant sex :

Birth weight :

Apgar score :

Fetal presentation :

Delivery method :

Indication of delivery intervention :

Meconium release :

Postmature signs : (Clifford classification)

STAGE 1

+ Dry, cracked, peeling, loose, wrinkled skin .

Presence /__/

Absence /__/

+ Long nails, abundant hair .

Presence /__/

Absence /__/

+ Loss of vernix .

Presence /__/

Absence /__/

+ Decreased subcutaneous tissue .

Presence /__/

Absence /__/

+ Open-eyed and alert infant .

Presence /__/

Absence /__/

STAGE 2

+ Meconium staining (Greenish) .

Presence /__/

Absence /__/

STAGE 3

+ Meconium staining (yellow) of cord and nails .

Presence /__/

Absence /__/

+ Maceration of skin

Presence /__/

Absence /__/

DIAGNOSIS

- . Normal /__/
- . FGR /__/
- . Placental dysfunction syndrome /__/
- . Large for date /__/
- . LBWI /__/

APPENDIX B

Intrauterine growth in birth weight

(Thaithumyanon, P., 1984)

G.A. (wk)	Mean (gm)	S.D (gm)	Smoothed percentile (gm)		
			10th	50th	90th
28	1,058	202	776	1,012	1,334
29	1,121	140	955	1,180	1,489
30	1,462	308	1,116	1,353	1,661
31	1,568	305	1,264	1,586	1,947
32	1,769	275	1,430	1,769	2,113
33	1,982	272	1,594	1,980	2,290
34	2,132	245	1,788	2,128	2,412
35	2,261	217	1,948	2,259	2,596
36	2,445	297	2,095	2,337	2,803
37	2,515	323	2,232	2,487	3,020
38	2,775	353	2,372	2,697	3,293
39	3,069	412	2,530	2,937	3,504
40	3,176	344	2,637	3,087	3,627
41	3,177	319	2,675	3,115	3,605
42	3,168	453	2,646	3,084	3,645

APPENDIX C

APGAR SCORE

(Pauerstein, C.J., 1987)

Sign	0	1	2
Heart rate	Absent	Slow	> 100/min
Respiration	Absent	Weak cry; hypoventilation	Good; Strong cry
Muscle tone	Limp	Some flexion	Active motion
Reflex irritability (Response to suctioning)	No response	Grimace	Cough or sneeze
Colour	Blue or pale	Body pink; extremities blue	Completely pink

ศูนย์วิทยทรัพยากร
จุฬาลงกรณ์มหาวิทยาลัย

VITAE

Mr. Le Quang Thanh was born on 22nd December, 1964 in Hanoi. In 1987, he graduated from Faculty of Medicine, University of Medicine and Pharmacy of Hochiminh city as Medical Doctor. He has been enrolled in the Master Degree Programme in Health Development (Health Research) at Faculty of Medicine, Chulalongkorn University in Bangkok, Thailand since 1991. His present position is as an obstetrician and gynecologist of Tudu OB/GYN Hospital in Hochiminh city, Vietnam.



ศูนย์วิจัยทางการแพทย์
จุฬาลงกรณ์มหาวิทยาลัย