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公共卫生与预防医学专栏(二)

1995至2002年美国产妇试产及与试产相关的新生儿患病率和病死率趋势

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摘要:

目的:目前剖宫产后未经试产的重复剖宫产率不断上升。本研究拟探讨美国产妇试产率的下降与新生儿出生结局之 间的关系。方法:采用1995至2002年间美国出生登记资料进行分析。选取既往剖宫产术分娩过一次单胎的产妇作为 研究对象。通过多元logistic回归估算试产率高和低的两个时段中,新生儿不良出生结局与试产之间的调整OR值。 结果:本研究共选取了1833407名研究对象。美国既往剖宫产产妇再次分娩时的试产率从1995年的38.5%降低至 2002年的15.0%。在此期间产妇的基线资料没有发生具有统计学意义的改变。既往剖宫产产妇再次分娩时未经试 产会增加新生儿发生窒息死亡和患病的风险。通过分析试产率最低的2002年的数据,发现该风险在低危产妇中仍然 / 文章反馈 存在。结论:美国产妇剖宫产后再次分娩时试产率下降导致了新生儿不良结局的发生率上升。

关键词: 试产 选择性剖宫产 长期趋势 新生儿病死率 新生儿患病率

Secular trends in trial of labor and associated neonatal mortality and morbidity in the United States, 1995 to 2002

Secular trends in trial of labor and associated neonatal mortality and morbidity in the United States 1,2,3,4, 99 to 00^{1,2}

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Abstract:

Objective: A proportion of elective repeated cesarean sections where a trial of labor in a uterus with a previous scar was not attempted is on the increase. This study aimed to assess how reduced the use of trial of labor has impacted on neonatal outcomes in the United States.

Methods: Pregnant women with one previous cesarean delivery and a singleton live birth of the index pregnancy were abstracted from the 1995 to 2002 birth registration data of the United States. Adjusted odds ratios for adverse neonatal outcomes of trial of labor were estimated by multiple logistic regression models, in overall study subjects and in the two periods with high and low rates of trial of labor.

Results: A total of 1833407 eligible subjects were included in the analysis. Rate of trial of labor after one previous cesarean section dropped from 38.5% in 1995 to 15.0% in 2002. No significant change was observed in the patient population profile. Successful vaginal birth after cesarean delivery (VBAC) also declined from 76.6% in 1995 to 66.0% in 2002. A trial of labor after one previous cesarean section was correlated with increased risks of asphyxia-related neonatal death and neonatal morbidity. This risk was even more pronounced in low risk women and in the last study years with the lowest rate of trial of labor.

Conclusion: The reduced use of trial of labor after one cesarean delivery in recent years in the United States has actually resulted in increased risk of adverse neonatal outcomes associated with a trial of

Keywords: trial of labor elective cesarean delivery secular trends neonatal mortality neonatal morbidity

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参考文献:

- 1. Jain NJ, Kruse LK, Demissie K, et al. Impact of mode of delivery on neonatal complications: trends between 1997 and 2005 [J]. J Matern Fetal Neonatal Med, 2009, 22(6): 491-500.
- 2. Menacker F, Martin JA. BirthStats: rates of cesarean delivery, and unassisted and assisted vaginal delivery, United States, 1996, 2000, and 2006 [J]. Birth, 2009, 36(2): 167.
- 3. Wen SW, Rusen ID, Walker M, et al. Comparison of maternal mortality and morbidity between trial of labour and elective caesarean section among women with previous delivery, 1988 to 2000 [J]. Am J Obstet Gynaecol, 2004, 191(4): 1263-1269.
- 4. Landon MB. Vaginal birth after cesarean delivery [J]. Clin Perinatol, 2008, 35(3): 491-504.
- 5. Sur S, Murphy KW, Mackenzie IZ. Delivery after caesarean section: consultant obstetricians' professional advice and personal preferences [J]. J Obstet Gynaecol, 2009, 29(1): 212-216.
- 6. Alberman E, Botting B, Blatchley N, et al. A new hierarchical classification of causes of infant deaths in England and Wales [J]. Arch Dis Child, 1994, 70(5): 403-409.
- 7. Dattani N, Rowan S. Office for National Statistics. Causes of neonatal deaths and stillbirths: a new hierarchical classification in ICD-10. Health Statistics Quarterly. NO 15 Autumn 2002[EB/OL].(2010-02-20) http://www.ons.gov.uk/about-statistics/classifications/international/icd-10/comparing-trends/information-on-how-neonatal-deaths-are-affected.pdf.
- 8. Rothman KJ, Greenland S. Modern epidemiology [M]. 2nd ed. Philadelphia: Lippincott Raven Publishers, 1998.
- 9. McMahon MJ, Luther ER, Bowes WA Jr, et al. Comparison of a trial of labor with an elective second cesarean section [J]. N Engl J Med, 1996, 335(10): 689-695.
- 10. Miller DA, Diaz FG, Paul RH. Vaginal birth after cesarean: a 10 year experience [J] . Obstet Gynecol, 1994, 84(2): 255-258.
- 11. Flamm BL, Goings JR, Liu Y, et al. Elective repeat cesarean delivery versus trial of labor: a prospective multicenter study [J] . Obstet Gynecol, 1994, 83(6): 927-932.
- 12. Rosen MG, Dickison JC, Westhoff CL. Vaginal birth after cesarean: a meta-analysis of morbidity and mortality [J] . Obstet Gynecol, 1991, 77(3): 465-470.
- 13. Stone C, Halliday J, Lumlery J, et al. Vaginal births after caesarean (VBAC): a population study [J] . Paediatr Perinat Epidemiol, 2000, 14(4): 340-348.
- 14. Lydon-Rochelle M, Holt V, Easterling TR, et al. Risk of uterine rupture during labor among women with a prior cesarean delivery [J]. N Engl J Med, 2001, 345(1): 3-8.
- 15. Landon MB, Hauth JC, Leveno KJ, et al. Maternal and perinatal outcomes associated with a trial of labor after prior cesarean delivery [J]. N Engl J Med, 2004, 351(25): 2581-2589.
- 16. Wen SW, Henanderz R, Naylor CD. Pitfalls in nonrandomized outcomes studies. The case of incidental appendectomy with open cholecystectomy [J] . JAMA,1995, 274(21): 1687-1691.
- 17. Grobman WA, Lai Y, Landon MB, et al. Can a prediction model for vaginal birth after cesarean also predict the probability of morbidity related to a trial of labor? [J] . Am J Obstet Gynaecol, 2009, 200(1): 56.e1-e6.
- 18. Tan PC, Subramaniam RN, Omar SZ. Labour and perinatal outcome in women at term with one previous lower-segment caesarean: a review of 1000 consecutive cases [J] . Aust N Z J Obstet Gynaecol, 2007, 47(1): 31-36.
- 19. Hall MH, Bewley S. Maternal mortality and mode of delivery [J]. Lancet, 1999, 354(9180): 776.
- 20. Landon MB, Leindecker S, Spong CY, et al. The MFMU Cesarean Registry: factors affecting the success of trial of labor after previous cesarean delivery [J] . Am J Obstet Gynaecol, 2005, 193(3 Pt 2): 1016-1023.
- 21. Coassolo KM, Stamilio DM, Paré E, et al. Safety and efficacy of vaginal birth after cesarean attempts at or beyond 40 weeks of gestation [J]. Obstet Gynecol, 2005, 106(4): 700-706.
- 22. Society of Obstetricians and Gynaecologists of Canada. SOGC clinical practice guidelines. Guidelines for vaginal birth after previous caesarean birth. Number 155 (Replaces guideline Number 147), February 2005 [J] . Int J Gynaecol Obstet, 2005, 89(3): 319-331.
- 23. Hofmeyr GJ, Hannah ME. Planned cesarean section for term breech delivery[CD]. Cochrane Database Syst Rev, 2000(2): CD000166.
- 24. Clark SL, Miller DD, Belfort MA, et al. Neonatal and maternal outcomes associated with elective term delivery [J] . Am J Obstet Gynaecol, 2009, 200(2): 156.e1-e4.
- 25. MacDorman MF, Menacker F, Declercq E. Cesarean birth in the United States: epidemiology, trends, and outcomes [J] . Clin Perinatol, 2008, 35(2): 293-307.

- 26. Cahill AG, Stamilio DM, Odibo AO, et al. Is vaginal birth after cesarean (VBAC) or elective repeat cesarean safer in women with a prior vaginal delivery? [J] . Am J Obstet Gynaecol, 2006, 195(4): 1143-1147.
- 27. Rossi AC, D'Addario V. Maternal morbidity following a trial of labor after cesarean section vs elective repeat cesarean delivery: a systematic review with meta-analysis [J] . Am J Obstet Gynaecol, 2008, 199(3): 224-231.
- 28. Huston P, Naylor CD. Health services research: reporting on studies using secondary data sources [J] . CMAJ, 1996,155(12): 1697-1702.

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