

**Maternal and Child Health Specialty Area  
School of Public Health  
University of California, Berkeley**

**PH 212B - REVIEW OF MATERNAL AND PERINATAL HEALTH (2)**

**CC#75909**

**Fall Semester 2001  
Mondays, 2:00 - 4:00 pm  
24 Warren Hall**

**Instructor: Jeffrey Gould, M.D., M.P.H.**

**Course Outline**

The purpose of this course is to provide an overview of contemporary perinatal health from a population based perspective. Beginning with basic concepts in obstetrics, topics include the evaluation of the quality of perinatal care, pregnancy spacing, low birth weight, prenatal care and the organization of perinatal services. Social and ethical issues that impact perinatal health are also considered. An overarching perspective is the importance of socioeconomic, cultural and racial/ethnic factors as determinants of perinatal health and essential components of effective program development.

<b>DATE</b>	<b>TOPIC</b>	<b>SPEAKER</b>
Aug 27	Introduction	J. Gould MD, MPH
<b>Sept 3</b>	<b>LABOR DAY HOLIDAY - NO CLASS</b>	
Sept 10	Evaluating Quality of Care	J. Gould MD, MPH
Sept 17	Regionalized Perinatal Care	J. Gould MD, MPH
Sept 24	Advances in Obstetrics	Nap Hosang MD, MPH, MBA
Oct 1	Pregnancy Spacing	Malcolm Potts MB, PhD
Oct 8	Low Birth Weight Infants	J. Gould MD, MPH
Oct 15	Maternal Mortality	J. Gould MD, MPH
Oct 22	Social Issues in Perinatal Health	J. Gould MD, MPH

<b>Oct 29</b>	<b>Cesarean Section/Multiple Births</b>	<b>J. Gould MD, MPH</b>
Nov 5	Ethical Issues	J. Gould MD, MPH
Nov 12	<b>VETERANS' DAY HOLIDAY – NO CLASS</b>	
Nov 19	Social Issues	J. Gould MD, MPH
Nov 26	Student Presentations ( <b>FINAL PAPER DUE</b> )	J. Gould MD, MPH
Dec 3	Student Presentations and wrap up	J. Gould, MD, MPH

### Weekly Readings

For each lecture several introductory readings will be given. In addition each student will search MedLine, and read at least three abstracts. One article is selected for in depth review and class presentation.

The review package should include:

- 1) Abstract of article (may photocopy)
- 2) Student's Critical Review (limit to one typed page, 1-1/2 spacing)
  - a) Scientific Quality
  - b) Major Findings
  - c) Public Health Importance of Major Findings
- 3) Photocopy of article or its internet address if available

Each week these reviews will be discussed in class and placed in a binder in the Public Health Library Reserves section.

### Term Paper

10-12 pages on a Perinatal topic of your choice with at least 15 primary references due Nov 26.

### **Course Grading:**

- 10% of grade Class participation
- 40% of grade Weekly assignments
- 50% of grade Term paper

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**Course Readings**

<b>DATE</b>	<b>TOPIC</b>	<b>SPEAKER</b>
<b>August 27</b>	<b>Introduction</b>	<b>J. Gould MD, MPH</b>
<b>Sept 3</b>	<b>LABOR DAY HOLIDAY – NO CLASS</b>	
<b>Sept 10</b>	<b>Evaluating Quality of Care</b>	<b>J. Gould MD, MPH</b>

Gaudino JA, Hoyert DL, MacDorman MF, Gazmararian JA, Adams MM, Kiely JL. Fetal Deaths, In: Wilcox LS and Marks JS (Eds): From Data to Action, CDC's Public Health Surveillance for Women, Infants, and Children. CDC Monograph, DHHS, PHS, pages 163-178.

Rowley DL, Iyasu S, MacDorman MF, Atrash HK. Neonatal and Postneonatal Mortality, In: Wilcox LS and Marks JS (Eds): From Data to Action, CDC's Public Health Surveillance for Women, Infants, and Children. CDC Monograph, DHHS, PHS, pages 251-262.

Johnson KA, Little GA. State health agencies and quality improvement in perinatal care, Section 1: Evidence-based quality improvement, principles, and perspectives, Pediatrics, 103(1):233-247, January 1999.

McCarthy B, Use of Vital Record Data in the United States, In: Proceedings of the International Collaborative Effort on Perinatal and Infant Mortality, Volume I, Papers presented at the International Symposium on Perinatal and Infant Mortality, 1984; Bethesda, Maryland; sponsored by National Center for Health Statistics, DHHS, PHS, NCHS, August 1985, IV-77-91.

<b>Sept 17</b>	<b>Regionalized Perinatal Care</b>	<b>J. Gould, MD, MPH</b>
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Phibbs CS, Bronstein JM, Buxton E, Phibbs RH, The effects of patient volume and level of care at the

hospital of birth on neonatal mortality, JAMA, October 2, 1996, 276(13):1054-1059.

Yeast JD, Poskin M, Stockbauer JW, Shaffer S. Changing patterns in regionalization of perinatal care and the impact on neonatal mortality, Am J Obstet Gynecol, January 1998, 178:131-135.

Gould JB, Sarnoff R, Liu H, Bell DR, Chavez G. Very low birth weight births at non-NICU hospitals: The role of sociodemographic, perinatal, and geographic factors, J Perinatology, 1999, 19(3):197-205.

Gould JB. Vital records for quality improvement, Section 1: Evidence-based Quality Improvement, Principles, and Perspectives, Pediatrics, January 1999, 103(1):278-290.

Pollack LD, Ratner IM, Lund GC. United States Neonatology Practice Survey: Personnel, Practice, Hospital, and Neonatal Intensive Care Unit Characteristics, Pediatrics, March 1998, 101(3): 398-405.

### **Sept 24                      Advances in Obstetrics**

**Nap Hosang MD, MPH, MBA**

Sweeney PJ, Introduction. In: Maternal and Child Health Practices. Wallace HM, Nelson RP, Sweeney PJ (Eds). Oakland, CA: Third Party Publishing Co., 1994, 211-213.

Gold EM, Maternal mortality and reproductive mortality. In: Maternal and Child Health Practices, Wallace HM, Nelson RP, Sweeney PJ (Eds). Oakland, CA: Third Party Publishing Co., 1994, 214-220.

Schneider J, Hadley CB, Prenatal care. In: Maternal and Child Health Practices, Wallace HM, Nelson RP, Sweeney PJ (Eds). Oakland, CA: Third Party Publishing Co., 1994, 221-227.

Stewart GK, Hosang RA, The importance of preconceptional and prenatal care. In: Maternal and Child Health Practices, Wallace HM, Nelson RP, Sweeney PJ (Eds). Oakland, CA: Third Party Publishing Co., 1994, 228-235.

### **Oct 1                              Pregnancy Spacing**

**Malcolm Potts, MB, PhD**

Assorted figures and tables from International Planned Parenthood Federation reports. Dr. Potts was past Medical Director with the International Planned Parenthood Federation.

### **Oct 8                              Low Birth Weight Infants**

**J. Gould, MD, MPH**

Shiono PH, Behrman RE. Low birth weight: Analysis and recommendations, The Future of Children, Spring 1995, 5(1):4-18.

Gould, J.B. The Low-Birth-Weight Infant. In: Human Growth. F. Falkner and J.M. Tanner (Eds.). Plenum Publishing Corp. 1986, Vol 1, 391-413.

Hack M, Taylor HG, Klein N, Mercuri-Minich N. Functional Limitations and Special Health Care Needs of 10- to 14-Year-Old Children Weighing Less Than 750 Grams at Birth, Pediatrics, September 2000, 106(3):554-560.

Rogowski J. Cost-effectiveness of Care for Very Low Birth Weight Infants, Pediatrics, July 1998, 102(1):35-43.

**Oct 15                    Maternal Mortality****J. Gould, MD, MPH**

Maternal Mortality – United States, 1982-1996, CDC Morbidity and Mortality Weekly Report, September 04 1998, 47(34):705-7.

State-Specific Maternal Mortality Among Black and White Women – United States, 1987-1996, CDC Morbidity and Mortality Weekly Report, June 18 1999, 48(23):492-496.

Peters M. Safe Motherhood Beyond the Year 2000: A Global Perspective, Midwifery, 2000, Vol 16, 2-7.

Jowett M. Safe Motherhood Interventions in Low-income Countries: An Economic Justification and Evidence of Cost Effectiveness, Health Policy, 2000, Vol 53, 201-228.

**Oct 22                    Social Issues in Perinatal Health****J. Gould, MD, MPH**

Gould JB, Davey B, LeRoy S. Socioeconomic differentials and neonatal mortality: Racial comparison of California singletons, Pediatrics, February 1989, 83(2):181-186.

Gould JB, Davey B, Stafford RS. Socioeconomic differences in rates of cesarean section, NEJM, July 17, 1989, 321:233-239.

Krieger N, Rowley DL, Herman AA, Avery B, Phillips MT. Racism, sexism, and social class: Implications for studies of health, disease, and well-being, Am J of Preventive Medicine, Supplement to Volume 9(6):82-122, Nov/Dec 1993.

Kramer MS, Seguin L, Lydon J, Goulet L. Socio-economic Disparities in Pregnancy Outcome: Why do the Poor Fare so Poorly? Paediatric and Perinatal Epidemiology, 2000, Vol 14, 194-210.

Braveman P, Egerter S, Marchi K. The Prevalence of Low Income Among Childbearing Women in California: Implications for the Private and Public Sectors, American Journal of Public Health, June 1999, 89(6):868-874.

Malloy MH, Freeman DH Jr. Birth Weight- and Gestational Age-Specific Sudden Infant Death Syndrome Mortality: United States, 1991 Versus 1995, Pediatrics, June 2000, 105(6):1227-1231.

**Oct 29                    Caesarian Section/Multiple Births****J. Gould, MD, MPH**

Greene MF. Vaginal Delivery After Cesarean Section – Is the Risk Acceptable? Editorial, New England Journal of Medicine, July 5 2001, 345(1):54-55.

Lydon-Rochelle M, Holt VL, Easterling TR, Martin DP. Risk of Uterine Rupture During Labor Among Women With a Prior Cesarean Delivery, New England Journal of Medicine, July 5 2001, 345(1):3-8.

Rates of Cesarean Delivery – United States, 1993, CDC Morbidity and Mortality Weekly Report, April 21 1995, 44(15):303-307.

Impact of Multiple Births on Low Birthweight – Massachusetts, 1989-1996, CDC Morbidity and Mortality Weekly Report, April 16 1999, 48(14):289-292.

Contribution of Assisted reproductive Technology and Ovulation-Inducing Drugs to Triplet and Higher-Order Multiple Births – United States, 1980-1997, CDC Morbidity and Mortality Weekly Report, June 23 2000, 49(24):535-538.

Elster N, Institute for Science, Law, and Technology Working Group on Reproductive Technology. Less is More: The Risks of Multiple Births, Fertility and Sterility, October 2000, 74(4):617-623.

## **Nov 5 Ethical Issues**

**J. Gould, MD, MPH**

Silverman WA. Chapter 6, Intruding in private tragedies (1988), Where's the Evidence? Oxford: Oxford University Press, 1998, 23-25.

Silverman WA. Chapter 20, Informing and consenting (1992), Where's the Evidence? Oxford: Oxford University Press, 1998, 78-84.

Silverman WA. Chapter 33, Resolution of insoluble dilemmas (1995), Where's the Evidence? Oxford: Oxford University Press, 1998, 140-148.

Silverman WA. Chapter 38, Who defines "futility"? (1997), Where's the Evidence? Oxford, Oxford University Press, 167-171.

Doron MW, Veness-Meehan KA, Margolis LH, Holoman EM, Stiles AD. Delivery Room Resuscitation Decisions for Extremely Premature Infants, Pediatrics, September 1998, 102(3 pt 1):574-582.

Finer NN, Barrington KJ. Decision-making in Delivery Room Resuscitation: A Team Sport, Commentary, Pediatrics, September 1998, 102(3 pt 1):644-645.

Streiner DL, Saigal S, Burrows E, Stoskopf B, Rosenbaum P. Attitudes of Parents and Health Care Professionals Toward Active Treatment of Extremely Premature Infants, Pediatrics, July 2001, 108(1):152-157.

Stolz JW, McCormick MC. Restricting Access to Neonatal Intensive Care: Effect on Mortality and Economic Savings, Pediatrics, March 1998, 101(3):344-348.

## **Nov 12 VETERANS' DAY HOLIDAY -- NO CLASS**

## **Nov 19 Social Issues**

**J. Gould, MD, MPH**

Mofenson LM, Perinatal Exposure to Zidovudine – Benefits and Risks, Editorial, New England Journal of Medicine, September 14, 2000, 343(11):803-805.

Peckham C, Newell ML.. Preventing Vertical Transmission of HIV Infection, Editorial, New England Journal of Medicine, October 5, 2000, 343(14):1036-1037.

Annas GJ, Testing Poor Pregnant Women for Cocaine – Physicians as Police Investigators, New England Journal of Medicine, May 31, 2001, 344(22):1729-1732.