

**Mel and Enid Zuckerman College of Public Health
University of Arizona**

**SYLLABUS
MATERNAL AND CHILD HEALTH
CPH 586**

Course Time: Thursday 12:30 – 3:20 pm
Class Room: Drachman Hall, Room A112

Course Instructor: Dr. Iman Hakim; Tel. 626-5355
e-mail: ihakim@u.arizona.edu
Office Hours: Thursday: 3:00 – 4:30 pm (R A317)

Course TA: Shoroog Shunnag; Tel: 665-8688
e-mail: shunnags@email.arizona.edu;
Office Hours: Tuesday: 1:00 – 3:00 pm

Course Description

This course will focus on current health problems and diseases affecting both pregnant women and children worldwide. The impact of various common health problems at different stages of the life cycle and their functional outcomes in terms of morbidity, mortality, psychological well-being, reproduction and growth will be highlighted. Students will become acquainted with the epidemiology of maternal and childhood diseases in developed and developing countries. Programs and resources available to combat health and nutritional problems related to women and children will be evaluated. Students will learn how to conduct a maternal and child health needs assessment and develop an action plan.

Course Prerequisites

Graduate students in a health related field including biological or social sciences

Learning Objectives of the course

At the end of the course students will be able to:

1. Analyze the causes and effects of the major health problems that are present during pregnancy, infancy, childhood and adolescence.
2. Analyze the impact of the biological and sociological factors that modifies maternal & child health family planning interactions
3. Prioritize factors that need to be considered when developing public health programs for women & children.
4. Conduct county-wide MCH needs assessment and produce a report.

Course Notes and Readings:

They will be posted on D2L.

Course Requirements:

- 1) Student will have to complete a take home midterm and final exams.
- 2) Students' groups will be assigned to 1 of AZ counties. The student will work with his/her group to conduct a county-wide need assessment, prepare and present the final report to the class
- 3) Student will have to actively participate in the class and work with his/her group to prepare and submit power point presentations of the assigned topics as requested.
- 4) Student will have to actively participate in the class and work with his/her group in completing the class quizzes.

Grading System:

A.	Student Evaluation	Points
1.	Tests	
a.	Midterm Examination	30 %
b.	Final Examination	30 %
2.	MCH Needs Assessment	30 %
3.	Class participation	10 %
B.	Grading System	
	<u>Points</u>	<u>Grade</u>
	90 - 100	A
	80 - 89	B
	70 - 79	C
	60 - 69	D
	Below 60	F

Class Attendance/Participation:

Students are expected to attend and actively participate in all the classes. Absences should be pre-approved from the instructor

All holidays or special events observed by organized religions will be honored for those students who show affiliation with that particular religion. Absences pre-approved by the UA Dean of Students (or Dean's designee will be honored.)

Academic Integrity: Students are expected to abide by the University of Arizona Code of Academic Integrity found at <http://w3.arizona.edu/~studpubs/policies/cacaint.htm>.

Classroom Behavior: (Statement of expected behavior and respectful exchange of ideas)

Students are expected to be familiar with the UA Policy on Disruptive Behavior in an Instructional Setting found at http://hr2.hr.arizona.edu/dos/pol_disrupt.htm and the Policy on Threatening Behavior by Students found at http://hr2.hr.arizona.edu/dos/pol_threat.htm.

Grievance Policy: http://grad.arizona.edu/Current_Students/Policies/Grievance_Policy.php

Maternal & Child Health : CPH 586
Room A 112/ Thursday: 12:30-3:20 p.m.
Course Schedule
Fall 2008

- 8/28 Introduction/ Overview of maternal & child health
Overview of Title V (MCHB)
- 9/4 MCH Needs Assessment: Methodology
- 9/11 Prenatal care and Low birth weight (LBW) (**Dr. Taren**)
Strategies for improving prenatal care & preventing LBW
(Power Point)
- 9/18 Breast feeding (Quiz / Power Point Presentation)
- 9/25 Nutrition and feeding of premature babies (**Dr. Flores**)
(Power Point)
- 10/2 Disabilities and outcome of high-risk neonates (**Dr. Raval**)
(Power point)
- 10/9 Childhood growth (Quiz / Power Point Presentation)
Malnutrition-definitions, diagnosis, causes & effects, prevention & treatment.
Deficiency diseases-definition, diagnosis, causes & effects, prevention & treatment
Midterm examination (distribution)
- 10/16 Obesity-definition, diagnosis, causes & effects, prevention & treatment. (**Dr. Taren**)
(Power Point) / **Midterm exam due**
- 10/23 Reproductive health & HIV (Quiz / Power Point Presentation)
- 10/30 Lead poisoning-definition, diagnosis, causes & effects, prevention & treatment
(Quiz / Power Point Presentation)
- 11/6 Children & environmental exposure to pesticides (**Dr. Mary Kay O'Rourke**)
(Power Point)
- 11/13 Physical Activity (**Dr. Giacobbi**) (Power Point)
- 11/20 Family Planning (Quiz / Power Point Presentation)
- 11/27 HAPPY THANKSGIVING
- 12/4 Needs Assessment Student Presentations: **Distribution of Final Exam**
- 12/11 Dead day / No class
- 12/15 **FINAL EXAMINATION Due** (Return to office before noon)

Maternal & Child Health (CPH 586)
Thursday August 28, 2008

Topic: Introduction

Overview of maternal & child health
Overview of MCH Needs Assessment
Child poverty & community influences on women and children's health

Learning Objectives

1. Understand the perspective that will be presented in this class regarding maternal & child health is a combination of biological, nutritional and social sciences.
2. Be able to identify the primary problems related to women and children
3. Know the assignments that will be given during the semester
4. Know the grading system that will be used for this class.

Readings

MCHB, Fact sheet, Public Health Service, US Department of Health & Human Services.

Woodie Kessel et al., The Social Security Act and Maternal & Child Health Services: Securing a Bright Future. In: Health and Welfare for families in the 21st Century. P 164-170, 2003.

Margaret A. McManus, et al., How Far Have State Medicaid Agencies Advanced in Performance Measurement for Children? Archives of Pediatric & Adolescent Medicine: Vol. 154 No. 7, July 2000

Marian F. Mac Dorman et al., Infant Mortality in the United States: Levels, Trends, and interventions. In: Health and Welfare for families in the 21st Century. P 489-508, 2003.

Deanna M Lyter et al/. Children in Single-parent families living in poverty have fewer supports after welfare reform. Research in Brief. Institute for Women Policy & Research; Sep. 2002

Handler A, Grason H, Ruderman M, Issel M, Turnock B. Assessing capacity and measuring performance in maternal and child health. Matern Child Health J. 2002 Jun;6(2):115-26.

Maternal & Child Health (CPH 586)
Thursday September 4, 2008

Topic: MCH Needs Assessment

Learning Objectives:

- ◆ Understand the necessary components of a comprehensive MCH needs assessment
- ◆ Know how to collect qualitative and quantitative MCH data
- ◆ Know how to access MCH national, state and county data
- ◆ Identify MCH health indicators and performance measures
- ◆ Understand the critical issues in interpreting the data

Readings:

Needs Assessment: A Creative and Practical Guide for Social Scientists. Edited by: R. Reviere, S Berkowitz, C Carter and C Ferguson.

Chapter 5: Planning a Needs Assessment

Chapter 7: Assessing Child and maternal health: The first step in the design of community based interventions.

M Plescia, S Koontz, and S Laurent. Community assessment in a vertically integrated health care system Am J Public Health 2001 91: 811-814.

Maternal & Child Health (COPH 586)
Thursday September 11, 2008

Topic: Prenatal care and low-birth weight (LBW): **Dr. Douglas Taren, Ph.D.**
Strategies for improving prenatal care & preventing LBW

Learning Objectives:

1. Describe the epidemiology of LBW
2. Understand the relationship between maternal nutrition & pregnancy outcome.
3. Justify a strategy that can be used to prevent LBW
4. Evaluate the effect that prenatal care can have on maternal & child health

Readings:

Wilcox A J. On the importance – and the unimportance- of birthweight. *International Journal of Epidemiology* 2001;30:1233-1241.

Petrou S, Sach T, Davidson L. The long-term costs of preterm birth and low birth weight: results of a systematic review. *Child: Care, Health and Development* 2001;27(2):71-115.

Fiscella K. Racial disparity in infant and maternal mortality: confluence of infection, and microvascular dysfunction. *Maternal and Child Health Journal* 2004; 8(2):45-54.

Rosenberg D, Handler A, Furner S. A new method for classifying patterns of prenatal care utilization using cluster analysis. *Maternal and Child Health Journal* 2004;8(1):19-30

Philip J Steer. Maternal hemoglobin concentration and birth weight. *AJCN*. 71(suppl):1364S-1370S, 2000

Carol A. Hickey. Sociocultural and behavioral influences on weight gain during pregnancy. *Am J Clin Nutr*. 71(suppl):1285S-1287S, 2000

E Eggleston, et al., Unintended pregnancy and low birthweight in Ecuador; *AJPH* 2001 91: 808-810.

LV Klerman, SL Ramey, RL Goldenberg, S Marbury, J Hou, and SP Cliver. A randomized trial of augmented prenatal care for multiple-risk, Medicaid-eligible African American women. *Am J Public Health* 2001 91:105-111.

Jinwen Cai, Gerald L. Hoff, Paul C. Dew, V. James Guillory and Josie Manning. Perinatal Periods of Risk: Analysis of Fetal–Infant Mortality Rates in Kansas City, Missouri ; *MCH Journal*, June 2005

Dubay L, Joyce T, Kaestner R, Kenney GM. Changes in prenatal care timing and low birth weight by race and socioeconomic status: implications for the Medicaid expansions for pregnant women. *Health Serv Res*. 2001 Jun;36(2):373-98

Handler A, Rosenberg D, Raube K, Lyons S. Prenatal care characteristics and African-American women's satisfaction with care in a managed care organization. *Womens Health Issues*. 2003 May-Jun;13(3):93-103.

Maternal & Child Health (CPH 586)
Thursday September 18, 2008

Topic: Breast-feeding & weaning

Learning Objectives

1. Compare the 3 stages of milk production in relation to infant's health
2. Compare the advantages & disadvantages of extended breastfeeding
3. Understand the health factors which may interfere with breast-feeding
4. Describe factors affecting, and related to weaning period.

Readings:

Grace Marquis et al., An overlap of breastfeeding during late pregnancy is associated with subsequent changes in colostrums composition and morbidity rates among Peruvian and their mothers. *J Nutrition*, 2585-91,2003

WHO working group. Growth of healthy infants and the timing, type, and frequency of complementary foods. *AJCN*; 76:620-7;2002

Ruowei Li et al., Maternal Obesity and breast feeding practices. *AJCN*; 77:931-6; 2003

Mary L. Hediger, Mary D. Overpeck, et al., Early infant feeding and growth status of US-Born Infants and children aged 4-71 Mo: analyses from the third National health and Nutrition Examination Survey, 1988-1994. *Am J Clin Nutr*, 72:159-67, 2000.

Coulibaly R, Séguin L, Zunzunegui MV, Gauvin L. Links between maternal breast-feeding duration and Québec infants' health: a population-based study. Are the effects different for poor children? *Matern Child Health J*. 2006 Nov;10(6):537-43.

Freeman K, Bonuck KA, Trombley M. Breastfeeding and infant illness in low-income, minority women: a prospective cohort study of the dose-response relationship *J Hum Lact*. 2008 Feb;24(1):14-22; quiz 23-6.

Oddy WH, Kendall GE, Blair E, De Klerk NH, Stanley FJ, Landau LI, Silburn S, Zubrick S. Breast feeding and cognitive development in childhood: a prospective birth cohort study. *Paediatr Perinat Epidemiol*. 2003 Jan;17(1):81-90.

Maternal & Child Health (CPH 586)
Thursday September 25, 2008

Topic: Nutrition & feeding of premature babies (Dr. C. Flores, MD)

Learning Objectives:

History of nutrition and feeding practices of premature babies
New directions and outcomes in feeding of prematures

Readings:

Streiner, David L.; Saigal, Saroj; Burrows, Elizabeth; Stoskopf, Barbara; Rosenbaum, Peter; Attitudes of Parents and Health Care Professionals Toward Active Treatment of Extremely Premature Infants. Pediatrics, Jul2001, Vol. 108(1):152-57

Growth of Preterm Infants Fed Nutrient-Enriched or Term Formula After Hospital Discharge. By: Carver, Jane D.; Wu, Paul Y. K.; Hall, Robert T.; Ziegler, Ekhard E.; Sosa, Roberto; Jacobs, Joan; Baggs, Geraldine; Auestad, Nancy; Lloyd, Beate; Pediatrics, Apr2001; 107(4):683-89

Prospective Randomized Trial of Early Versus Late Enteral Iron Supplementation in Infants With a Birth Weight of Less Than 1301 Grams. By: Franz, Axel R.; Mihatsch, Walter A.; Sander, Silvia; Kron, Martina; Pohlandt, Frank; Pediatrics, Oct2000, Vol. 106 Issue 4, p700-7

Kalhan S, Bier D, Yaffe S, Catz C, Grave G. Protein/amino acid metabolism and nutrition in very low birth weight infants. J Perinatol. 2001 Jul-Aug;21(5):320-3.

Maternal & Child Health (CPH 586)
Thursday October 2, 2008

Topic: Disabilities and outcome of high-risk neonates. **[Dr. D. Raval, MD)**

Learning objectives:

1. Describe the epidemiology of the chronically-ill neonates & infants.
2. Understand & describe the different types of long-term childhood illnesses.
3. Understand and analyze the cost of caring for the chronically ill children in the home and the community.

Readings:

Maureen Hack; Deanne Wilson-Costello; Harriet, Friedman; Gerry H. Taylor; Mark Schluchter; Avroy A. Fanaroff. Neurodevelopment and Predictors of Outcomes of Children With Birth Weights of Less Than 1000g, 1992-1995. Archives of Pediatric & Adolescent Medicine: Vol. 154 No. 7, July 2000

Robert F. weir. Life-and-Death Decisions in the Midst of Uncertainty. In: Compelled Compassion; Government intervention in the treatment of critically ill newborns.

Rogowski, Jeannette A.; Horbar, Jeffrey D.; Plsek, Paul E.; Baker, Linda Schuurmann; Deterding, Julie; Edwards, William H.; Hocker, James; Kantak, Anand D.; Lewallen, Patrick; Lewis, William; Lewit, Eugene; McCarroll, Connie J.; Mulsce, Dennis; Payne, Nathaniel R.; Shiono, Patricia; Soll, Roger F.; Leahy, Kathy; Economic Implications of Neonatal Intensive Care Unit Collaborative Quality Improvement. Pediatrics, Jan2001, Vol. 107 Issue 1, p23,

McGrath, Margaret M.; Sullivan, Mary C.; Lester, Barry M.; Oh, William; Longitudinal Neurologic Follow-Up in Neonatal Intensive Care Unit Survivors with Various Neonatal Morbidities. Pediatrics, Dec2000, Vol. 106(6), p1397,

Awasthi S, Verma T, Agarwal M. Danger signs of neonatal illnesses: perceptions of caregivers and health workers in northern India. Bull World Health Organ. 2006 Oct;84(10):819-26.

Maternal & Child Health (CPH 586)
Thursday October 9, 2008

Topic: Childhood Growth.

Malnutrition-definitions, diagnosis, causes & effects, prevention & treatment.
Deficiency diseases-definitions, diagnosis, causes & effects, prevention & treatment

Learning Objectives

1. Understand the different anthropometric measurements.
2. Explain the uses & limitations of growth charts
3. Describe the epidemiology of malnutrition and micronutrient deficiencies
4. Explain the role that each deficiency disease has on childhood morbidity & mortality
5. Compare between the social & biological effects of malnutrition on child development.
6. Justify several strategies that can be used to prevent and treat each deficiency disease.

Readings:

Web Resources:

<http://www.ajcn.org/content/vol72/issue1/>

Curberto Garza & Mercedes De Onis. A New international growth reference for young Children. Am J Clin Nutr, 1999; suppl 169S-72S

David Freedman, Laura Kettle Khan et al., Secular trends in height among children during 2 decades. Arch Pediatr Adolesc Med. 124:155-161, 2000.

Anjali Devi C. Iron Nutrition Status Assessment. Nutrition Research. Vol. 20: 445-448, 2000.

P. Bhaskaram et al., Vitamin A Deficiency in Infants: Effects of Postnatal Maternal Vitamin A Supplementation on the Growth and Vitamin A Status, Nutrition Research. Vol. 20 (6): 769-778, 2000.

IS Ferraz, JC Daneluzzi and H Vannucchi Vitamin A Deficiency in Children Aged 6 to 24 Months in São Paulo State, Brazil, Nutrition Research Volume. 20 (6):757-768, 2000.

Robert Earl & Catherine E. Woteki. Iron Deficiency Anemia. Recommended Guidelines for the prevention, detection, and management among US Children and women of childbearing age. Institute of Medicine, National Academy Press, Washington , D.C. 1993; p 1-35.

Felicity Savage King & Ann Burgess. Iodine deficiency disorders. In Nutrition for developing countries. 2nd edition. Oxford University Press, 1993 p 277-283.

K Alaimo, CM Olson, EA Frongillo, Jr, and RR Briefel . Food insufficiency, family income, and health in US preschool and school-aged children Am J Public Health 2001 91: 781-786.

Amy L Frith-Terhune, Mary E Cogswell, et al., Ramakrishnan. Iron deficiency anemia: higher prevalence in Mexican American than in non-Hispanic white females in the third National Health and Nutrition Examination Survey, 1988–1994. Am. J. Clinical Nutrition, Oct 2000; 72: 963 – 968

Frank T Wieringa, Marjoleine A Dijkhuizen, et al., Redistribution of vitamin A after iron supplementation in Indonesian infants. Am. J. Clinical Nutrition, Mar 2003; 77: 651 - 657.

Elsa C Muñoz, Jorge L Rosado, et al., Iron and zinc supplementation improves indicators of vitamin A status of Mexican preschoolers. Am. J. Clinical Nutrition, Mar 2000; 71: 789 – 794

Maternal & Child Health (CPH 586)
Thursday October 16, 2008

Topic: Obesity-definition, diagnosis, causes & effects, prevention & treatment. **Dr. Taren**

Learning Objectives:

1. Describe the epidemiology of overweight and obesity on a worldwide & local level.
2. Understand the methods that can be used to determine the prevalence of obesity.
3. Understand & describe the health hazards associated with obesity.
4. Understand & describe the risk factors for childhood obesity.
5. Describe the desirable level of blood lipids in young women & children
6. Justify several strategies that can be used to prevent and treat childhood obesity.

Readings

Shumei Sun Guo., et al., Predicting overweight and obesity in adulthood from body mass index values in childhood and adolescence. *Am. J. Clinical Nutrition*, Sep 2002; 76: 653 - 658.

J Caroline Dekkers, Robert H Podolsky, Frank A Treiber, Paule Barbeau, Bernard Gutin, and Harold Snieder. Development of general and central obesity from childhood into early adulthood in African American and European American males and females with a family history of cardiovascular disease. *Am. J. Clinical Nutrition*, Apr 2004; 79: 661 - 668.

Web Resources: <http://www.ajcn.org/content/vol70/issue1/>

Gillum RF, Mussolino ME, Madans JH. Diabetes mellitus, coronary heart disease incidence, and death from all causes in African American and European American women: The NHANES I epidemiologic follow-up study. *J Clin Epidemiol*. 2000 May;53(5):511-8

Fagot-Campagna A, Pettitt DJ, Engelgau MM, Burrows NR, Geiss LS, Valdez R, Beckles GL, Saaddine J, Gregg EW, Williamson DF, Narayan KM. Type 2 diabetes among North American children and adolescents: an epidemiologic review and a public health perspective. *J Pediatr*. 2000 May;136(5):664-72.

Lovejoy JC, Champagne CM, Smith SR, de Jonge L, Xie H. Ethnic differences in dietary intakes, physical activity, and energy expenditure in middle-aged, premenopausal women: the Healthy Transitions Study. *Am J Clin Nutr*. 2001 Jul;74(1):90-5.

Taveras EM, Sandora TJ, Shih MC, Ross-Degnan D, Goldman DA, Gillman MW. The association of television and video viewing with fast food intake by preschool-age children. *Obesity (Silver Spring)*. 2006 Nov;14(11):2034-41

Vereecken CA, Todd J, Roberts C, Mulvihill C, Maes L. Television viewing behaviour and associations with food habits in different countries. *Public Health Nutr*. 2006 Apr;9(2):244-50

Maternal & Child Health (CPH 586)
Thursday October 23, 2008

Topic: Reproductive health: HIV & STDs Infection

Learning Objectives:

1. Describe the epidemiology of STDs, HIV infection & Aids in women.
2. Describe the ethnic groups at high-risk.
3. Describe the effects of HIV/Aids on pregnancy outcome
4. Justify several strategies that can be used for the prevention, control & management of women and children with HIV/Aids.

Required Readings:

<http://hs.state.az.us/cfhs/owch/>

<http://www.aiph.org/content/vol91/issue8/>

<http://www.aiph.org/content/vol91/issue7/>

Michele Dreyfus & Wafaie Fawzi. Micronutrients & vertical transmission of HIV-1. AJCN; 75:959-70; 2002

Lisa Lee et al., Classification of transmission risk in the national HIV/AIDS Surveillance System. Public Health Report; 118:400407; 2003

Dawn Greensides et al., Alternative HIV testing Methods Among Populations at High risk for HIV infection. Public Health Reports, 118:531-539;2003

Laurie Elam-Evans et al., The Epidemiology of HIV and Aids in the United States. P 422-443; 2003

Jill Clark, et al., Promising Strategies for Preventing Perinatal HIV Transmission: Model Programs from Three States ; MCH Journal, June 2006

Potts M. Thinking about vaginal microbicide testing. Am J Public Health. 2000 Feb;90(2):188-90.

Moodley K. Microbicide research in developing countries: have we given the ethical concerns due consideration? BMC Med Ethics. 2007 Sep 19;8:10.

Johnson-Masotti AP, Pinkerton SD, Sikkema KJ, Kelly JA, Wagstaff DA. Cost-effectiveness of a community-level HIV risk reduction intervention for women living in low-income housing developments J Prim Prev. 2005 Jul;26(4):345-62.

de Zulueta P. Randomised placebo-controlled trials and HIV-infected pregnant women in developing countries. Ethical imperialism or unethical exploitation? Bioethics. 2001 Aug;15(4):289-311.

Guenter D, Esparza J, Macklin R. Ethical considerations in international HIV vaccine trials: summary of a consultative process conducted by the Joint United Nations Programme on HIV/AIDS (UNAIDS). J Med Ethics. 2000 Feb;26(1):37-43.

Maternal & Child Health (CPH 586)
Thursday October 30, 2008

Topic: lead poisoning-definition, diagnosis, causes & effects, prevention & treatment.

Learning Objectives

- 1 Understand & describe the health hazards of childhood lead exposure
2. Understand the methods that can be used to determine the prevalence of childhood lead Poisoning
3. Justify several strategies that can prevent and/or control childhood lead poisoning

Readings:

President's Task Force on Environmental Health Risks and Safety Risks to Children. *Eliminating Childhood Lead Poisoning*: URL: http://www.hud.gov/offices/lead/reports/fed_strategy2000.pdf .

James R. Roberts, et al., Using geographic information systems to assess risk for elevated blood lead levels in children Public Health Reports, 118: 221-229 ; 2003

Bruce P. Lanphear, et al., The effect of soil abatement on blood lead levels in children living near a former smelting and milling operation. *Public Health Reports*, 118: 83-91,2003

Embry M. Howell & Loretta Russette. An Innovative Blood lead screening program for Indian children. *Public Health Reports*; 119:141-143; 2004

Lopez- Carrillo L et al., Prevalence & determinants of lead intoxication in Mexican Children of low socioeconomic status. *Environ. Health Persp.* 1996; 104(11):1208-1211.

Guidotti TL, Ragain L. Protecting children from toxic exposure: three strategies. *Pediatr Clin North Am.* 2007 Apr;54(2):227-35, vii.

Rothman NL, Lourie RJ, Gaughan J; Lead Awareness: North Philly Style Grant Team. Lead awareness: North Philly Style. *Am J Public Health.* 2002 May;92(5):739-41.

Bradman A, Eskenazi B, Sutton P, Athanasoulis M, Goldman LR. Iron deficiency associated with higher blood lead in children living in contaminated environments. Environ Health Perspect. 2001 Oct;109(10):1079-84.

Maternal & Child Health (COPH 586)
Thursday November 6, 2008

Topic: Children & environmental exposure to pesticides (**Dr. Mary Kay O'Rourke**)

Learning Objectives:

1. Identify the nature of risks from pesticides to children in urban and rural (agricultural) settings.
2. Identify exposure factors to pesticides that are unique to children
3. Examine the distribution of exposure to pesticide among a cross section of Arizona residents and compare it with children's exposure in Yuma county using a multi-pathway and multimedia approach.

Readings:

Michael C.R. Alavanja, Jane A. Hoppin, Freya Kamel. HEALTH EFFECTS OF CHRONIC PESTICIDE EXPOSURE: Cancer and Neurotoxicity. Annual Review of Public Health Apr 2004, Vol. 25: 155-197.

Cynthia Bearer. How are children Different from Adults? . Environ Health Perspect, 103(suppl6):7-12, 1995

Hore P, Robson M, Freeman N, Zhang J, Wartenberg D, Ozkaynak H, Tolve N, Sheldon L, Needham L, Barr D, Lioy PJ. Chlorpyrifos accumulation patterns for child-accessible surfaces and objects and urinary metabolite excretion by children for 2 weeks after crack-and-crevice application. Environ Health Perspect. 2005 Feb;113(2):211-9.

Goldman L, Falk H, Landrigan PJ, Balk SJ, Reigart JR, Etzel RA. Environmental pediatrics and its impact on government health policy. Pediatrics. 2004 Apr;113(4 Suppl):1146-57

Dunn AM, Burns C, Sattler B. Environmental health of children. J Pediatr Health Care. 2003 Sep-Oct;17(5):223-31.

Maternal & Child Health (CPH 586)
Thursday November 13, 2008

Topic: Physical Activity (Dr. Giacobbi)

Objectives:

- Understand the relationship between exercise and women & children health
- Assessment of physical activity frequency questionnaire

Readings:

Ball K; Crawford D; Warren N. How feasible are healthy eating and physical activity for young women? ▶Public Health Nutrition ▶May 2004, vol. 7, no. 3, pp. 433-441(9)

Brown, Wendy J.; Trost, Stewart G . Life transitions and changing physical activity patterns in young women. American Journal of Preventive Medicine, 25(2): 140- , 2003

Hatch M et al., Maternal Leisure-time exercise and timely delivery. AJP 1998; 88(10): 1528-1533.

Maternal & Child Health (CPH 586)
Thursday November 20, 2008

Topic: Teenage pregnancy, causes & effects, epidemiology and prevention.
Family planning, definition, methods, guidelines.

Learning Objectives:

1. Describe the epidemiology of teenage pregnancy.
2. Identify the health and social problems related to teenage pregnancy
3. Justify different strategies that can be used to prevent/control teenage pregnancy
4. Understand and describe different methods in family planning
5. Justify different approaches that can be used to promote family planning

Readings:

Gould Jeffrey, et al., Utility of percentage of births to teenagers as a surrogate for the teen birth rate. AJP, 1998; 88(6): 908-912

Holly Mead. Making birth control more accessible to women. A cost-benefit Analysis of over-the-counter Oral contraceptives. Institute of Women's Policy Research. Feb 2001.

Contraceptive Methods: Fact sheet (Polis Reserve)

Abstinence Programs in AZ: <http://www.azdhs.gov/phs/owch/abstinence.htm>

AZ Office of Women's and Children's Health (OWCH):
<http://www.azdhs.gov/phs/owch/publicat.htm#Needs%20Assessment>

Larissa R. Brunner Huber and Carol J. Hogue The Association Between Body Weight, Unintended Pregnancy Resulting in a Livebirth, and Contraception at the Time of Conception, MCH Journal , October 2005

Fuentes-Afflick E, Hessol NA. Interpregnancy interval and the risk of premature infants. Obstet Gynecol. 2000 Mar;95(3):383-90.

Ventura SJ, Freedman MA. Teenage childbearing in the United States, 1960-1997. Am J Prev Med. 2000 Jul;19(1 Suppl):18-25.

