



MANIPAL
UNIVERSITY

Global and Public Health

PUBH 220: *Maternal and Child Health*

Please refer to the [faculty page](#) for this semester's instructor.

Course Description

In any community, mothers and children constitute a priority group. This group comprises approximately 71.14% of the population of the developing countries. In India, women of the child bearing age constitute 22.2% and children less than 15 years of age about 35.3% of the total population. By virtue of their numbers, mothers and children are the major consumers of health services. The aim of preventive obstetrics is to ensure that throughout pregnancy and puerperium, the mother will have good health and that every pregnancy may culminate in a healthy mother and a healthy baby. The aim of preventive paediatrics is to improve child health care through such activities as growth monitoring, nutrition surveillance, regular health check up and immunization. In this course the students will be given an overview of preventive obstetrics and preventive paediatrics in developing countries.

Learning Objectives

1. To understand the measures to promote, protect and maintain the health of the mother during pregnancy
2. Preventive measures to prevent complications of the postpartal period
3. The identification of “at risk” infants
4. To understand the growth and development of the child
5. National Nutritional programmes implementation at grass root level in India

Preventive Obstetrics learning objectives:

1. To promote, protect and maintain the health of the mother during pregnancy
2. To detect high risk cases and give them special attention
3. To understand to teach the mother elements of child care, nutrition, personal hygiene and environmental sanitation
4. To sensitise the mother to the need for family planning, including advice to cases seeking medical termination of pregnancy

Preventive Paediatrics learning objectives:

1. To understand the care during pregnancy, intranatal care, and during postnatal period.
2. To understand the importance of breast feeding and complementary feeding
3. Assessment of growth and development
4. Importance of vaccination
5. To understand nutritional surveillance

6. Implementation of national health programmes.

Course Schedule

Please note that students concentrating in public health will also be required to attend weekly academic field visits as part of their coursework.

Session 01/14 Introductory class on antenatal care

Readings:

Park, K. (2013). *Park's Textbook of Preventative and Social Medicine*. 22st edition. Jabalpur, India: Banarsidas Bhanot Publishers. (pp. 480 - 490).

Session 02/14 Preventive, promotive and curative services under MCH programs

Readings:

Park, K. (2013). *Park's Textbook of Preventative and Social Medicine*. 22st edition. Jabalpur, India: Banarsidas Bhanot Publishers. (pp. 514 – 516; 545 - 548).

Session 03/14 High risk pregnancy and intranatal care

Readings:

Park, K. (2013). *Park's Textbook of Preventative and Social Medicine*. 22st edition. Jabalpur, India: Banarsidas Bhanot Publishers. (pp. 488 - 489).

Session 04/14 RCH program

Readings:

Park, K. (2013). *Park's Textbook of Preventative and Social Medicine*. 22st edition. Jabalpur, India: Banarsidas Bhanot Publishers. (pp. 417 – 418).

National Institute of Health and Family Welfare. (2003). Reproductive and Child Health Programme. <http://nihfw.nic.in/ndc-nihfw/html/Programmes/ReproductiveAndChildHealth.htm>

Session 05/14 Nutrition in pregnancy

Readings:

Park, K. (2013). *Park's Textbook of Preventative and Social Medicine*. 22st edition. Jabalpur, India: Banarsidas Bhanot Publishers. (pp. 486).

Ministry of Women and Child Development, Government of India. Nutrition in pregnancy and lactation.

<http://wcd.nic.in/research/nti1947/7.3%20Nutrition%20in%20pregnancy%20and%20lactation%203.2%20prema.pdf>

Session 06/14 **Midterm exam**

Session 07/14 **Postnatal care, growth and development**

Session 08/14 **Low birth weight and its complications**

Readings:

Park, K. (2013). *Park's Textbook of Preventative and Social Medicine*. 22st edition. Jabalpur, India: Banarsidas Bhanot Publishers. (pp. 495 - 497).
Muthaya, S. Maternal nutrition & low birth weight - what is really important? Indian Journal of Medical Research. 130. 2009. pp. 600 – 608.
<http://icmr.nic.in/ijmr/2009/november/1120.pdf>

Session 09/14 **IMNCI Approach**

Readings:

Park, K. (2013). *Park's Textbook of Preventative and Social Medicine*. 22st edition. Jabalpur, India: Banarsidas Bhanot Publishers. (pp. 423 - 424).
UNICEF. (2015). Integrated Management of Neonatal and Childhood Illness.
http://www.unicef.org/india/health_6725.htm

Session 10/14 **Childhood infections**

Readings:

Park, K. (2013). *Park's Textbook of Preventative and Social Medicine*. 22st edition. Jabalpur, India: Banarsidas Bhanot Publishers. (pp. 508 - 510).

Session 11/14 **Vaccines and preventable diseases: Adverse Effects Following Immunization: Universal immunization programme**

Readings:

Park, K. (2013). *Park's Textbook of Preventative and Social Medicine*. 22st edition. Jabalpur, India: Banarsidas Bhanot Publishers. (pp. 99 – 111; 408 - 411).

Session 12/14 **RMNCH+A strategies**

Readings:

Ministry of Health and Family Welfare, Government of India. (2013). A strategic approach to reproductive, maternal, newborn, child and adolescent health (RMNCH+A) in India. http://www.unicef.org/india/1._RMNCHAStrategy.pdf

Session 13/14 **MCH schemes**

Readings:

Park, K. (2013). *Park's Textbook of Preventative and Social Medicine*. 22st edition. Jabalpur, India: Banarsidas Bhanot Publishers. (pp. 546 - 549).

Course Textbook

Please note that copies of all assigned reading will be provided to students in country. Purchase of these texts by individuals is not required.

Park, K. (2013). *Park's Textbook of Preventative and Social Medicine*. 22st edition. Jabalpur, India: Banarsidas Bhanot Publishers.

Supplemental Course Materials

Dutta, D.C. (2013). *Textbook of Obstetrics & Gynecology*. New Delhi: Jaypee Brothers Medical Publishers Ltd.

Ghai, O.P., Vinod K. Paul, & Arvind Bagga (eds.). (2013). *Textbook of Paediatrics*. 8th edition. CBS Publishers & Distributors Pvt. Ltd.

Government of India: Ministry of Health and Family Welfare. *National Rural Health Mission*. (2014). <http://mohfw.nic.in/NRHM.htm>

Additional Readings

A Strategic Approach to Reproductive, Maternal, Newborn, Child and Adolescent Health (RMNCH+A) in India. (2013). Ministry of Health & Family Welfare, Government of India. http://nrhm.gov.in/images/pdf/RMNCH+A/RMNCH+A_Strategy.pdf

National Health Mission RMNCH+A Maternal Health Guidelines. Ministry of Health & Family Welfare, Government of India. <http://nrhm.gov.in/nrhm-components/rmnch-a/maternal-health/guidelines.html>

Handbook for ANMs, LHV's and Staff Nurses to Provide Skilled Attendance at Birth. (2006). Maternal Health Division, Department of Family Welfare, Ministry of Health and Family Welfare, Government of India. <http://www.jknrhm.com/Guideline/ANM-LHV-SN-Training%20Manuals/handbook.pdf>

Evaluation

Midterm Exam	30%
Final Exam	40%
Field Reports	15%
Attendance	10%

Participation 5%

***At the faculty's discretion, extra assignments may be given.**

Mid-term Exam

Will cover material from the first 5 class sessions, and field visits. Students will be graded on their answers to multiple choice, short answer, and essay questions. Students should demonstrate familiarity with material covered in class meetings and readings. Arguments supported with information from readings and supplemental course materials will receive higher marks than those supported with observation or general supposition.

Instructions for the exam: (Objective Structured Practical Evaluation)

- There will be total of 10 questions
- Total of 2 marks per question
- 5 minutes for each question
- Total duration 50 minutes

Final Exam

Will cover material from the 7th to 13th class sessions, and field visits. Students will be graded on their answers to multiple choice, short answer, and essay questions. Students should demonstrate familiarity with material covered in class meetings and readings. Arguments supported with information from readings and supplemental course materials will receive higher marks than those supported with observation or general supposition.

Instructions for the exam: (Objective Structured Practical Evaluation)

- There will be total of 10 questions
- Total of 2 marks per question
- 5 minutes for each question
- Total duration 50 minutes

Field Reports

Field visits to local health departments and organizations occur every Friday from 9AM to 1 PM. Students are required to attend all field visits to earn credit from this class. Please see the Field Visits Schedule document for a full list of sites visited, the topic focus of each visit, and required readings.

A 500 word (minimum) field report is due to Aarthy Ramaswamy (aarthu28@gmail.com) the Wednesday following your field visit. Late submissions will result in grade deduction.

The report should include your name, the field visit locale and site in the heading, and should briefly address topics and/or questions identified in the field visit information sheet for the particular visit.

Field Report Evaluation Structure: NOTE – a 10 point penalty is applied against all late field report submissions

Element	Marks
Thoroughly addresses assigned questions	50
Includes specific references to field observation and/or lecture	30
Word count, grammar, spelling and citation	20
Total	100

A note on citation: Not all reports will contain referenced works, but citation is required whenever a work is referenced. Any citation style is acceptable, so long as referenced works are noted in either footnotes or a bibliography.

Attendance

A student is allowed 2 excused absences. An excused absence is an absence related to a medical or other emergency about which the student has communicated to the Resident Director and concerned faculty prior to class.

Any additional absence or ANY unexcused absence results in a two point loss to the overall attendance score. Please note attendance requirements through your program as well.

Participation

Faculty give full participation marks to students who are punctual, attentive and engaged in class. Students who are late or inattentive will have points removed from their participation score at the faculty’s discretion.

Grading

Alliance programs utilize the follow standard grading policy well accepted by most US institutions.

Excellent	A	93-100%	Good	B+	87-89%	Acceptable	C+	77-79%
	A-	90-92%		B	83-86%		C	73-76%
				B-	80-82%		C-	70-72%
						Unsatisfactory	D+	67-69%

	D	63- 66%
	D-	60- 62%
Failing	F	<60%

Course Policies

Exams and Assignments

Students are required to take all regularly scheduled exams in courses for which they are registered, and to submit all assignments on time. Any compelling academic, personal, or medical reason that might justify a rescheduled exam or assignment must be brought up to both the Resident Director and course faculty. Failure to take scheduled exams or submit the requisite assignments for a course will adversely affect your grade as per the stated grading criteria for each course.

Classroom Conduct

Student punctuality is extremely important in India. Please do not be late for classes or other activities, as it is considered impolite to do so. It is improper to eat in class, to engage in other activities such as texting, or to slump or nap. Students are expected to be alert and engaged as a sign of respect for their professors.