



Mansoura University Faculty of Medicine

Log Book Community Medicine Department 2015 - 2016

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	إيصال تسليم Log Book
	اسم الطالب:
	الفرقـــة:
	رقم الجلوس:
	تاريخ التسليم:
	توقيع المستلم:



Public Health and Community Medicine Department 2015 - 2016

Practical Activity Book

By Staff Members of Public Health and Community Medicine Department

			Photo
Student's Name:			
E-mail Address:			
Serial Number:			
Round Number:		1	1
Group:]		
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Mark:			

Department Stamp

Vision

Promotion of Outstanding Programs of Medical Care to Serve Society & to
Promote Environmental Development

Mission

Development of an Outstanding, Honorable Practitioner, Capable of Providing International Standards of Medical Care & Following Medical Ethics

Preface

Dear students,

The Practical Activity Book is a guide for the fourth year medical students to enhance the specific skills and/or knowledge which should be acquired from careful reading & study of the assignments.

It constitutes an outline which initially conveys the major points or target areas of **The Public Health & Community Medicine** to be studied. Then, after the course is completed, the objectives serve as a review & check for the students, who can use them to determine if sufficient gains have been made in skills and/or understanding.

Practice exercises & solving problems are included within each topic to help students to apply the topic content. Answers to these exercises are valuable study guides for the final examination.

It is our sincere hope that you will find this work to be a profitable & satisfying one. We seek your constructive criticism at all times & ask that you let us know whenever you have problems or need assistance. We shall follow your progress with keen interest.

Head of the Department

Prof. Mohamed Azmy Khafagy

Curriculum Content

Public Health & Community Medicine Course:

Lecture: 128 hoursTutorial: 10 hoursPractical: 54 hours

Academic Teaching Material:

- 1. Principles of Communicable Diseases Studies
- 2. Epidemiology of Some Selected Communicable Diseases
- 3. Epidemiology of Some Selected Non-communicable Diseases
- 4. Principles of Health Care Management
- 5. Management of Specific Health Care Services
- 6. Communication, Health Behavior, & Health Education
- 7. Environmental Health
- 8. Occupational Medicine
- 9. Nutrition
- 10. Research & Medical Statistics

Tutorial & Practical Material:

- 1. Epidemiologic Methods
- 2. Measurements of Health
- 3. Medical Statistics
- 4. Communication & Health Behavior
- 5. Health Education
- 6. Investigation of an Outbreak
- 7. Prevention & Control of an Outbreak
- 8. Epidemiology of Some Selected Communicable Diseases
- 9. Blood Bank
- 10. Health Care Management
- 11. Health Care Quality Management
- 12. Primary Health Care Services
- 13. Occupational Health
- 14. Water & Health
- 15. Nutrition in Health & Disease

Intended Learning Outcomes of Course (ILOs)

[1] Knowledge & Understanding:

- 1. Understand the epidemiology & determinants of communicable & non-communicable life threatening illnesses affecting the body & each of its major organ systems, presenting throughout the age spectrum.
- 2. Identify the prevalent health problems in a community, using various epidemiological strategies.
- 3. Recognize trends in health & disease.
- 4. Enumerate & interpret behavioral & social variables impacting health & disease.
- 5. Identify the risk factors, principles of disease prevention & early detection of common community health problems including nutritional, occupational & environmental health related problems.
- 6. Get insights concerning the principle & organization of National Health Care System.
- 7. Recognize epidemiological principles of demography & biological variability.
- 8. List the principles of disease surveillance & screening.
- 9. Understand communicable disease control & health promotion.
- 10. How to utilize the population-based approaches to health care services & their role in improving medical practice.

[2] Intellectual Skills:

- 1. Design prevention & control programs for communicable & non-communicable health problem of special public concern.
- 2. Select & use appropriate health education methods & materials.
- 3. Apply risk assessment methodology to diverse of health problems & or injuries, to determine strategies for appropriate response.
- 4. Evaluate relevant & current data from literature, using information technologies & library resources, in order to help solve a clinical problem based on evidence (EBM).
- 5. Apply research & statistical methods in studying health problems of public concern
- 6. Formulation of research questions that is pertinent to medicine.
- 7. Precisely collect, analyze & interpret medical data.

[3] Professional skills:

- 1. Adopt suitable measures for prevention & control of communicable & noncommunicable diseases.
- 2. Utilize communication skills & health education messages in patient care & apply appropriate infection prevention practices/ universal precautions.

[4] General & Transferable Skills:

- 1. Use information & communication technology effectively in the field of public health & preventive medicine.
- 2. Retrieve, manage, & manipulate information by all means, including electronic means.
- 3. Present information related to public health problems clearly in written, electronic & oral forms.
- 4. Communicate ideas & arguments effectively.
- 5. Work effectively within a team, respect patients, their relatives, senior & other colleagues involved in his teaching & subsequently in his future practice.
- 6. Analyze & use numerical data including the use of simple statistical methods & evaluate indicators of health & disease.
- 7. Evaluate their work & that of others using constructive feedback.

Method of Assessment:

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1. End of Round: 60 marks
 Pratical book activities 6 marks
 Continuous assessment (Quizzes) 14 marks
 Round MCQ & Multistations exam 40 marks
2. Final Written exam (2papers): 150 marks
 Time of written exam: (1.5 hour/ paper)
 Type of written exam: short essay questions
3. Final Oral Exam:

4. Final MCQ Exam: 60 marks

Total (300 marks)

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1. Epidemiologic Methods

Answer the following exercises:
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Tutor Signature

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Tutor Signature

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2. Questionnaire

Answer the following exercises:
Tutor Signature

Tutor Signature

3. Hospital Statistics

Answer the following exercises:

Tutor Signature

4. Medical Statistics

Answer the following exercises;

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5. Measurements of Health

Answer the following exercises:

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6. Communication & Health Education

Answer the following exercises:

7. Investigation of an Outbreak

Answer the following exercises:
Tutor Signature

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Tutor Signature

8. Epidemiology of Some Selected Communicable Diseases

8.1 Tuberculosis

Answer the following exercises:

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8.2 Meningococcal Meningitis

Answer the following exercises:

8.3 Diarrheal Diseases

Answer the following exercises:

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Date of session:	/	/ 20
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8.4 Infection Control Measures
1. How many steps of proper hand washing?
2. When should I wash my hands with water & soap?
3. Proper duration of washing your hands with water & soap isand I
you will use alcohol based hand rub is
4. Regular waste should be disposed incolored bags5. Infected waste will be disposed incolored bags.
6. Human tissues & placenta will be disposed incolored bags
1. Example of sharps:
2. If you have to do recapping, you will use
3. Standard precautions of isolation applied to
Types of transmission based isolation precautions
Examples of diseases need air borne precautions
·
Charp containers should be disposed if full
Sharp containers should be disposed iffull.

9. Blood Bank

Answer the following exercises.
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Tutor Signature

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10. Health Care Quality Management

Answer the following exercises.

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11. Maternal & Child Health Care

Tutor Signature	Answer the following exercises.
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12. Expanded Program on Immunization (EPI)

Answer the following exercises.

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13. Occupational Health 13.1 Occupational Devices SPIROMETER



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AUDIOMETER



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 	• • • • • • • • • • • • • • • • • • • •	 	

VIBRAMETER



GEIGER MULLER COUNTER



SOUND LEVEL METER



• • • • • • • • • • • • • • • • • • • •	••••••	
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	•••••	
	•••••	
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• • • • • • • • • • • • • • • • • • • •		
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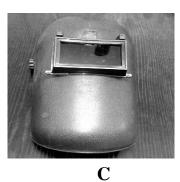
13.2 Personal Protective Equipment (PPE)

I. Eye protection



Indications for use:





Name of equipment:

.....

B

Indications for use: 1.

II. Head protection

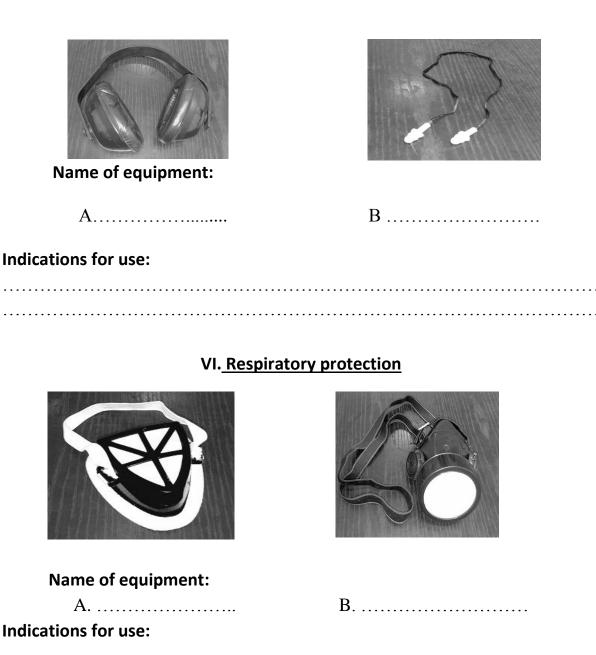
1	• • • • • • • • • • • • • • • • • • • •	 	
2		 	
3		 	0
Requirements:			
Structure:			
• • • • • • • • • • • • • • • • • • • •		 ••••	• • • • • • • • • • • • • • • • • • • •

III. Hand & arm protection



Indications for use:	
IV. <u>B</u>	ody protection
Name of instrument:	ABD ABD
a	b
Indications for use:	

V. Hearing protection



Date of session: /	/ 20
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13.3 Ergonomics

Answer the following exercises.
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Tutor Signature

40

14. Water & Health

Answer the following exercises.
Tutor Signature

41

15. Waste

Answer the following exercises.

16. Nutrition in Health & Disease Assessment of the Nutritional Status

Answer the following exercises.

Public Health & Community Medicine Practical Activity Book,	2015 - 2016
	•••••
	• • • • • • • • • • • • • • • • • • • •
	•••••
	• • • • • • • • • • • • • • • • • • • •
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	Tutor Signature

17. Surveillance for NCDs

Answer the following exercises.
Tutor Signature

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18. Traffic Injuries

Answer the following exercises.
Tutor Signature

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Student Field Visit Forms

Date of session:	/ / 20	Visit Form
Date of session.	/ / 20	VISIT FOLLI

Tuberculosis (Chest Hospital)

	Tutor Signature
	there screening test done for detection of T.B? [] YES [] NO es, what is it?
g	there a health education message given to patients with chest disease in eneral & TB patient in particular? []YES []NO s, what is it?
- Tar	BCG vaccine available in the hospital? []YES []NO get groups for BCG vaccination are:
•••••	hat are the preventive measures applied for different respiratory diseases?
•••••	hat are diseases treated by & admitted to chest hospital during your visit?
1 1	Comment on the following items of hospital design: 1 Site of the building [] Suitable [] Not suitable 2 Number of departments

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7. Steps done to confirm the diagnosis of T.B
8. What are the most common findings in X-ray of T.B patients?
9. Concerning Tuberculin test, complete the following: 1. Indications of the test:
a
10. What is meant by DOTS strategy? Is it practically applied?
11. What are the available anti-TB drugs in the hospital?
12. What are the methods used for sputum disinfection in chest hospital?
13. What are the discharge criteria of a T.B patient from chest hospital?

Date of session: / / 20 Visit Form

Fever Hospital

According to your field visit, answer the questions you have:
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Date of session: / / 20	Visit Form
Blood	Bank
1. What are the duties of the blood bank?	
2. What is meant by provision of safe effective -Safe blood/ products is	e blood & blood products?
-Effective blood/ products is	

3. Comment on the following items of blood bank structure:

	ltem	Present	Absent
Structure:	Suitable site		
	Special departments		
	Toilet for staff		
	Toilet for patients		
	Vehicles		
	Communication equipment (Telephone, Fax. E-mail)		
	Cafeteria		
	Conference hall (seminar)		
	Stores		
	Incinerator		
	Central air conditioners		
	Generators (Emergency power supply		
	Safety measures for fire		
	Refrigerators for Blood Storage		
	Audible alarm system in refrigerator		
	Autoclave with temp. & pressure display		
Manpower:	Medical Officer Manager		
	Doctors		
	Staff Nurses		
	Lab Technician		
	Administrative Staff		
	Drivers		
	Recruiters		
	Medical registers		
	Cleaning workers		
Departments	(services)		
Donation dep	partment		
	Donor education/ motivation material		
	Donors beds, chairs ,tables		
	Recovery bed for donors		

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Donor record details: (Ag	e, Interval between donations, Viral infection,				
History of chronic diseases, Transfusion history)					
Privacy for medical examination of donor					
(Weight, Haemoglobin, BP, Pulse)					
Pediatric Bags	, , , , , , , , , , , , , , , , , , , ,				
Serology department	Hepatitis & HIV tests				
	Syphilis test				
	Malaria test				
	Informing donors in case of +ve results				
	Followed up of HbsAg/ HIV +ve donors				
Components department:	Air-conditioned Blood component room				
	Well lighted Blood component room				
	Separation of blood components to Packed RBC,				
	platelets concentrates & fresh Frozen Plasma				
Quality control department					
	dure for supplies & reagents				
Internal audit					
Issuing department:	Waiting area clean & ventillated				
	Medical report required for issuing				
Theraputic unit deprtment					
Blood transfusion for	haemophilia & thalassemia patients				
Storage					
Blood storage refriger					
	hs preserved with dates				
	od to outside hospital/ blood bank				
Reuse the returned b	ottle				
	umber of camps held per month				
	tary conditions of camps				
Infection control measures					
	r for routine hand washing				
Soap for routine hand					
Use of bleaching solut					
Use of personal protective barriers					
Bags for non medical waste collection					
Colored bags for medical waste collection					
Disposal of sharps in sharp containers					
Bio-medical waste pits set up/ functional					
Incinerator					
	ination with Hepatitis B vaccine				
Protocol for needle st	icks injury				

Tutor	Signature	

Date of session: /	/ 20		Visit Form			
Occupational Health Hazards of Nitrogenous Fertilizer Industry						
a. Collection of da	ta:					
1. Site of the factor	ry					
2. Relation to the r	esidential are	ea				
3. Departments, nu	umber of wor	kers & their ge	nder distribution	:		
Department	Number of	workers in ea	ch department	Male	Female	
4. Materials used in	n the factory:	•			<u></u>	
• Raw materia	ls					
• Intermediate	e/ by- produc	ts				
• End products	s					
• Waste dispos	sal methods					
5. Are there safety						
6. Are there medical records? [] YES [] NO						
7. Occupational he	ealth team in	the factory:				
•••••			•••••			
b. Observe the fol	lowing:					
1- The working envi	ironment for	the following:				
Gases & vap	ors		[] YES	[] NO	
• Dust			[] YES	[] NO	
Abnormal oc	dors		[] YES	l] NO	
Noise			[] YES	l ,] NO	
	fillumination		[] YES	l] NO	
High/ low te	•		[] YES	l] NO	
		& cleanliness	[] YES	l r] NO	
 Washing fac 	ilities		[] YES	Į] NO	
				Т4-	Ciona 4	
			1	Tutor	Signature	

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2- The workers practice:Eating/ drinking/smoking wWorkers unsafe practice	hile working [] YES [] NO [] YES [] NO
3- Workers compliance with person [] Hard hat [] Goggles [] Hearing protecto [] Overalls 4- The safety measures: • Warning & labeling aids • Firefighting equipment • 1st aid boxes & emergency measures.	Safety shoes Safety spectacles Respiratory protection Gloves Present Absent Absent Present Absent Absent Present Absent A
- Environmental monitoring (hazard	
Hazard	Monitoring method
Air borne chemicals	
Noise	
Ionizing radiation	
Vibration	
Heat stress	
Humidity	
 Number of accidents in the land Average number of days lost 	s occur among workersast 6 months in the last 6 months the end of your visit, what are the possible
occupational health hazards in t	
Physical Chemical	3. Mechanical 4. Psychological
	Tutor Signature

Date of session: / / 20 Visit Form

Water & Health (Water Purification Station)

According to your visit to the station, answer the following: The site of water intake is characterized by: The material used in coagulation is in a dose of in order to..... The type of filters used is The type of disinfectant used is in a dose of...... What are the tests done for water before distribution? How often are these tests done? If the sample from potable water shows positive coliform test, - The possible cause is - The measures done for this water are

Date of session: / / 20 Visit Form

Preventive Medicine Administration

1.	Enumerate the sectors of preventive medicine in Dakahleya Governorate:
2.	Mention three measures done by food supervision & monitoring in preventive medicine administration:
3.	Mention three measures for prevention & control of environmental pollution within the last year 2012.
4.	What are the objectives of surveillance system in Egypt?
• •	What are types of surveillance? Give example for each type.
	Give example for disease eradicated in Egypt & last case of disease occurrence
7.	A case of acute flaccid paralysis (AFP) appeared in Aswan in 3 years boy & the central office of preventive medicine in Egyptian ministry of health & population were notified by fax in the same day
	Tutor Signature

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	What are emergency responding plan for such as case?
8.	The environmental protection team has taken a water sample from sewage in small village near Giza governorate during routine monitoring of water supply sources. The central & district laboratory reported positive water sample for wild strain type III of poliomyelitis virus that is not commonly found in Egypt.
	What are the measures done for disinfection of water & prevention for current threat?
9.	What is the recommended frequency of notifiable diseases reporting in Egypt? Give examples.
10	. Are there any new vaccinations planned to be added to EPI in Egypt for under five children in near future?

Date of session: / / 20 Visit Form

Malaria Control Unit

According to your field visit, answer the questions you have:
••••••••••••••••••••••••••••••

Date of session: / /20 Visit Form

Family Health Unit

Check the appropriate choice:

Manpower:			Physical Examination		
Medical Staff	Present	Absent	Urine analysis, Hb, Blood		
ivicalcal Staff	TTCSCIIC	Absent	Group, RH Factor		
G.P			Pre-Natal Care: Periodic Visits		
Family Medicine			General Condition	Present	Absent
Specialist			General Genalien	- reseme	7.000110
Internal Medicine			Body Weight		
Pediatrician			Blood Pressure		
Obs-Gyn Specialist			Hemoglobin		
Surgeon			Albumin & sugar		
Anesthetist			Obstetric Examination, US		
Dentist			Pre-Natal Care: Health Education		
Staff Nurses			Personal Hygiene	Present	Absent
Allied Medical Staff	Present	Absent	Nutrition		
Lab Technician			Child Care & Breast feeding		
X Ray Technician			Alarming signs		
Pharmacist			Referral of at risk cases		
Sanitarian			Administration of T.T		
Structure:	Present	Absent	Natal Care Service:	Present	Absent
Generator			Conducting normal deliveries		
Safa water cupply			Referral of operative		
Safe water supply			deliveries		
Toilet for staff			Post Natal Care Services	Present	Absent
Toilet for patients			Routine post natal exam.		
Refrigerator			Tender Calf Muscles exam.		
Blood bank			H.E on general cleanliness		
Ambulance			H.E. of breast feeding		
Maternal Health Care:	Present	Absent	H.E. of contraception method		
Pre-Natal Care: New Attendants			Family Planning Services	Present	Absent
Records for each client			IUD & hormonal methods		

Tutor Signatur	e

				_	, ,
Laboratory Services		Mothers are informed about the			
		time of next dose & session			
Hemogram	Yes	No	Cold Chain System	•	
BT/CT			thermometer inside refrigerator	Yes	No
Blood Sugar			temperature chart on door		
Blood grouping (RH typing)			temperature is recorded twice/d		
Blood Cross matching			Proper arrangement of vaccine		
Urine Albumin/ Urine Sugar			water bottles on the shelves of		
/Urine Pregnancy test			the refrigerator door		
Sputum examination			Infection control measures:	•	
Referral Services	Yes	No	Segregation of waste	Yes	No
Referral linkages with urban			Disposal of sharps		
health centers			Disposal of sharps		
Referral to higher centers			Statistic Presentation	Yes	No
Immunization Service:	Yes	No	Percentage of vaccinated		
ininumzation Service.	163	INO	children		
Hoolth Toom Knowledge			Percentage of pregnant females		
Health Team Knowledge			who were vaccinated against T.T		
Aware of contraindication of			Percentage of drop-out children		
immunization			from doses of vaccination		
Know vaccines doses & method			Plotting immunization coverage		
of administration			curve for different vaccines		
Know the concepts & importance					
of cold chain					
Immunization sessions				Yes	No
Vaccine vials are taken out from re	frigerato	r at arriv	val of first child for immunization		
Vaccine vials are kept throughout the session in a container with ice					
Used & partially used vaccine are discarded at the end of the session					
Drop-out children are identified at the session end					
Recording during the session is done in child card & other related registers					
Vaccines are properly given in regards to dose ,site & method of administration					

Date of session: / /20 Visit Form

Fever hospital

According to your field visit, answer the questions you have:
••••••••••••••••••••••••••••••



Public Health and Community Medicine Department