

Faculty of Public Health & Tropical Medicine

Department of Epidemiology

Log Book of the Internship



Student Name:	 	
University ID:	 	
Graduation Year:		

Foreword

It is a great pleasure to introduce this log book of the Internship to our

students who successfully completeld the courses of the Bachelor's Degree in Public

Health, with major in Epidemiology. This log book will help undergraduate students

to keep track of skills that are targeted to be acquired through practical attachment to

different health premises. It also aims to give an opportunity to our students to be

familiar with the health care system of Saudi Arabia and the practical approach for

tackling community health problems.

I would like to thank our Dean, Dr. Mohammed Al Malki and the Vice Dean Mr.

Anwar Alsharif for their continuous support and constructive remarks. I would like

also to acknowledge the serious efforts of all faculty staff members of Epidemiology

Department with special thanks to Prof. Neeraj Bedi, Dr. Sushil Dohare and Dr.

Yasser Hassan for their significant contribution in preparation of this log book.

With Best Wishes.

Prof. Mohammed Kotb Sultan

Head of Epidemiology Department

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Internship Plan

No.	Setting	Duration	
1	Primary Health Care Center	6 Weeks	
2	Preventive Medicine Department	11 Weeks	
3	General Hospital	12 Weeks	
4	Healthcare Quality Administration	2 Weeks	
5	5 National Center of Vector Control / Malaria Plants 15 Weel		
6	6 Statistics Unit 2 Weeks		
	Total 48 Weeks		

Internship Domains

No.	Setting	Domains	Duration
		Demographic & Statistical Data in the Catchment Area	
		Endemic Communicable & Non Communicable Diseases	
		Immunization	
1	Primary Health Care	Nutrition Assessment & Promotion	6 weeks
1	Center	Environmental Sanitation Inspection	o weeks
		Health Education & Promotion	
		Medical Records	
		Healthcare Quality & Accreditation	
	Preventive Medicine	Surveillance of Communicable & Vector Borne Diseases	
2	Department	Outbreak Investigation	11 weeks
	Department	Report Writing & Presentation	
		Infection Control	_
		Healthcare Quality & Accreditation	
3	General Hospital	Management of Hazardous Waste	12 weeks
	•	International Classification of Diseases and Deaths	
		Health Education	
	Haalthaana Oualitu	Standards & Indicators of Healthcare Quality	
4	Healthcare Quality Administration	Quality Improvement	2 weeks
	Aummsuation	Accreditation	
	National Center of	Investigation of Positive Cases of Vector Borne Diseases.	
5	Vector Control /	Prevention & Control Measures for Humans	15 weeks
3	Malaria Plants	Control of Vectors.	13 weeks
	Maiaria I lants	Precautions of Pesticide Application	
6	Statistics Unit	Data management & Analysis Using SPSS	2 weeks
U	Statistics Unit	Vital Statistics	2 WCCRS
		Total	48 Weeks

I. Primary Healthcare Center

(6 weeks)

Name of the PHC:		
Name of the Supervisor:		
Name of the PHC Director:		
Period from	to	
Domains of Training:		

- Domains of Training:
 - 1. Demographic & Statistical Data in the Catchment Area.
 - 2. Endemic Communicable & Non-Communicable Diseases.
 - 3. Immunization.
 - 4. Nutrition Assessment & Promotion.
 - 5. Environmental Sanitation Inspection.
 - 6. Health Education and Promotion.
 - 7. Medical Records.
 - 8. Healthcare Quality & Accreditation.

I. 1. Demographic & Statistical Data in the Catchment Area

C1-:11	Dogovintion	Fulfill	Fulfillment	
Skill	Skill Description		No	
Summarize data in a tabular form.	 Specify the categories of data based on the upper and lower values of the data and the class interval. Specify the table title in terms of time, place and person. Specify the appropriate format and entries. 			
Summarize data in a graphical form.	 Specify the appropriate graphical presentation for each data type Specify the graph title in terms of time, place and person. Create an informative legend for the graph. Develop the population pyramid for the population in the catchment area of the health center. 			
Calculate vital statistics.	 calculate Birth rate, Death rate, and rate of natural increase. Calculate of incidence and prevalence rates of diseases of public health importance. Calculate crude death rate, infant mortality rate, under-5 mortality rates, maternal mortality rates. 			
Communicate Results.	- Communicate results in appropriate verbal and written formate.			

I. 2. Endemic Communicable & Non-communicable Diseases

CI-:II	Description	Fulfillmen	
Skill	Description	Yes	No
Identify locally endemic communicable/non-communicable diseases	Preparing a list of locally endemic communicable/non-communicable diseases of Public Health Importance by review of records and reports available at PHC		
report the mandatory notifiable communicable diseases that are under surveillance in Saudi Arabia	filll up the notification forms of the notifiable communicable diseases and send the completed forms to the preventive medicine department on a daily, weekly or monthly basis according to the regulations of Ministry of Health.		
Investigate food poisoning cases.	 Carry out the Immediate reporting procedure of food poisoning cases Interview patients to fill up the food poisoning questionnaire Collect samples of incriminated food items for laboratory investigation Follow up the results of stool and vomitus samples Refere food handlers for laboratory investigation & check up Investigate sanitary condition of the premesis where food items prepared Write down a concise food poisoning investigation report 		
Investigate a case of acute flaccid paralysis.	 Carry out the Immediate reporting procedure of an AFP case Fill up "the AFP case investigation form of acute flaccid paralysis" Collecte 2 adequate stool samples, at least 24 hours apart Arranging shipment of stool samples to WHO refernce laboratory Follow up of the results of laboratory virological stool analysis Complete "the 60 - day follow up case investigation form" Decide final classification of the case as polio / non-polio 		
Investigate a case of measles.	 Carry out the Immediate reporting procedure of a measles case Fill up the case investigation form of measles Facilitate in diagnosis of measles through arranging for withdrawal of blood sample for confirmatory diagnosis Follow up of the laboratory results for final diagnosis 		
Apply control measures for contacts of pulmonary TB case.	 Ensure regular intake of anti-tuberculous through direct observation and support of patients Advocate preventive methods as use of face mask, avoiding physical proximity, and periodic disinfection of patient sputum Refere close contacts of the patient for check up & tuberculin test Ensure intake of NIH chemoprophylaxis prescribed for close contacts Follow up of patients to ensure complete cure 		
To assees the 'Essential Drugs' availability at PHC	 Check the "WHO list of Essential Drugs for PHC". Calculate the % of drugs available at PHC Check the drugs available for Common Communicable and Non Communicable group of diseases in Saudi Arabia. Check the drugs available for Common Minor Ailments 		

I. 3. Immunization

CI II	Skill Description -		Fulfillment	
SKIII			No	
Decord & follow up of	Identify the essential information that should be registered for the			
Record & follow up of vaccination activities	administered vaccine (Batch no., Expiry date, and Manufacturer)			
vaccination activities	Track registration records to identify dropouts of EPI			
	Refrigerator Thermometer:			
	Interpret thermometer temperature (optimum temperature2 –			
	8 °C).			
	Cold Box:			
!	- Appropriately arrange the ice packs inside the cold box to			
	keep vaccines cool outside the refrigerator			
	Vaccine carrier:			
	Appropriately arrange the vaccines inside the vaccine carrier.			
Appropriate use of the	Freezing Indicator:			
cold chain equipments	- Interpret the readings of the freezing indicator and action takn			
	if the temperature goes below zero.			
	Vaccine Vial Monitor (VVM):			
	- Identify the vaccines which have VVM.			
	- Interpret the color changes in the VVM.			
	Water Bottles:			
	Appropriately arrange water bottles inside the refrigerator and			
	realize their significance			
	Check the presence of:			
	- The refrigerator in a shaded place.			
	- Frost in the freezer.			
Conduct a supervisory	- A temperature chart on the refrigerator door.			
assessment of	- Twice daily recording of the temperature.			
refrigerator & vaccines.	- Ice packs in the freezer.			
	- Different types of vaccines in their suitable places.			
	- Water bottles.			
	- Vaccine diluents.			
	- Identify the target population for the vaccine annually (A)			
	- Identify the number of doses required (B)			
	- List vaccine wastage rate (P).			
Assess the vaccine	- Calculate the vaccine wastage multiplication factor (WMF) =			
needs in the catchment	100/[100 – P] (C)			
area.	- Calculate the number of doses required for a specific vaccine			
	annually = $A \times B \times C$			
	- Add 25% as a reserve stock.			
	- Calculate the number of doses required monthly.			
	- Estimate the target population for EPI (under 1 year) = total			
	population \times CBR \times (1 – IMR)			
Monitor and interpret	- Specify the annual coverage objective you want to achieve.			
the vaccination	- Calculate the monthly coverage objective.			
coverage for EPI using	- Record the vaccine doses administered every month.			
a monitoring chart.	- Calculate the cumulative & annual total.			
	- Plot the cumulative administered doses on a monitoring chart.			
	- Interpret the data for decision making.			

I. 4. Nutrition Assessment & Promotion

Skill	Description		ment
SKIII	Description	Yes	No
To assess the nutritional status of population at PHC	 To take the anthropometric measurement of infants, under 5 children, adolescents and adults. To calculate BMI. To interpret anthropometric measurement using the Saudi Growth Curves. 		
Promotion of proper nutrition and life style changes related to food.	 Nutrition education to promote adequate consumption vegetables and fresh fruits. Giving nutrition advice to Hypertension, Diabetic patients, Obese, Malnutrition children. 		

I. 5. Environmental Sanitation Inspection

Skill	Description		lment
SKIII	Description	Yes	No
Collection of water samples for laboratory analysis.	- Follow the standards procedure for sampling tap and botteled water.		
Assessment of the basic environmental sanitation in the catchment area of the PHC	 Prepare a check list to assess the parameters of environmental sanitation. Direct observation through walking around the catchment area of the PHC. Identify sites of potential environmental hazards, such as sewage overflow, unsanitary refuse accumulation and stagnant water. Identify breeding places of houseflies, mosquitos, rodents and stray animals. 		

I. 6. Health Education & Promotion

C1-:11	Description		ment
Skill			No
Identify the health awareness of served population about specific health problems.	Carry out a simple study to assess the Knowledge, attitude and practices of population served, towards prevention, control and treatment of locally endemic communicable and non-communicable diseases - Specify the target population, objectives, method, material, time and place of the health education session.	Yes	
Specify the audience, the health topic, approach and materials.	- Prepare a public health lecture/power point presentation/video/ poster for the public health problems, such as: O Vaccine preventable diseases. O Vector borne diseases: malaria and dengue. O Chronic diseases: diabetes, CVDs. O Life style: smoking, eating habits, khat chewing, physical exercises etc. O Personal hygiene.		
Organize and conduct a health education session.	Select proper time and palce for the session.Ensure efficient audio-visual facilities.Evaluate the knowledge before and after the session.		

I. 7. Medical Records

Skill	Description		Fulfillment	
SKIII	Description	Yes	No	
	- Create medical record for a new family.			
Filling, storage and retrieving of medical records and Referrals	- Save the record in their proper location in the			
	record system.			
	- Retrieve the record.			
	- Adhere to the ethical principles in filing, storing,			
	and retreiving the data.			

I. 8. Healthcare Quality & Accreditation

Skill	Description		ment
SKIII	Description	Yes	No
Identify types of standards in	- Check CBAHI Quality Manual and identify		
healthcare quality, based on	different Standards of Primary Health Care		
CBAHI	Centers.		
Assess the quality of primary health care services using CBAHI standards.	 Prepare a check list to decide whether the Standards are met or unmet. Conduct Internal audit to identify gaps for Standards 		
Conduct quality improvement of primary health care services.	- Prepare and develop a quality improvement using FOCUS-PDCA Model.		

	1. Knowledge & Skills (K&S)					
No.	Domains		Grade			1 _
		1	2	3	4	5
1	Demographic & statistical data in the catchment area					
2	Endemic Communicable & Non Communicable Diseases					
3 4	Immunization Nutrition Assessment & Promotion					
5	Environmental Sanitation Inspection					
6	Health Education & Promotion Activities					
7	Medical Records					
8	Healthcare Quality & Accreditation					
Avera	age Score of K & S (Total of all scores of K & S / Number of l	Doma	ins) :	=	• • • • •	
	2. Attitude					
No.	Criteria	1	2	Grad	e 4	5
1	Regular attendance on time					
2	Communicate properly.					
3	Perception of personal limitations and ask for help & advice.					
4	Maintain confidentiality of data.					
5	Show respect for other opinions.					
6	Work cooperatively and is reliable					
7	Complete tasks on time.					
8	Respect colleagues, including non- professionals.					
9	Realize the importance of continuing professional development.					
10	Demonstrate self-analysis to identify strengths and deficiencies.					
Avera	age Score of Attitude (Total of all attitude scores / Number of	Crite	ria) =	=	• • • • •	•••
• N	Name of the Supervisor:	Sign	atu	re:		

II. Preventive Medicine Department

(11 weeks)

Name of the Supervisor:		.
Name of the Director:		
Period from	to	
Domains of Training:		

- 1. Surveillance of Communicable & Vector Borne Diseases.
- 2. Outbreak Investigation.
- 3. Report Writing & Presentation.

II. 1. Surveillance of Communicable & Vector Borne Diseases

Skill	Description		lment
Skiii	Description	Yes	No
Familiarize with various	Prepare a list of Templates/Forms available for Outbreak		
Outbreak Investigations	Investigations for different communicable diseases		
Forms available at PHC			
Summarize the data reported from peripheral health institutions.	 Identify the Various Forms/Templates Used to Collect the Data on Communicable Diseases and Vector Borne Diseases under Surveillance by Saudi Health Ministry Fill up the Various Forms of diseases Summarize data in the form of tables Highlight observed variations 		
Analyze reported data for trend.	 Analyze morbidity data according to Time, place and person using SPSS program Identify rural/ urban and seasonal variation in disease pattern 		
Write feedback reports to reinforce control measures.	 Draw conclusions from analyzed data to reinforce contol measures Prepare a summary to be periodically disseminated to reporting sites 		

II. 2. Outbreak Investigation

C1-:11			lment
Skill	Description	Yes	No
	Confirm medical diagnosis through laboratory investigation		
	2. Verify an outbreak by comparison of repoted cases over time		
	3. Develop case definition based on type of disease or condition		
Recognize the	4. Describe outbreak in time, place, persons and develop hypothesis		
chronological steps of	5. Develop questionnaire for collecting the required data		
outbreak investigation	6. Search for unrecognized cases in hospitals, health center and househlds		
outoreak investigation	7. Select appropriate study design for data analysis.		
	8. Enter, edit, analyze data using SPSS to test hypothesized risk factors		
	9. Implement appropriate control measures.		
	10. Evaluate the effectivess of the implemented contol measures.		
	11. Prepare outbreak investigation report		
	12. Communicate findings		
	- Check Outbreak Reports of Communicable diseases, that have occurred		
	locally, during the last 5 years.		
	- List out the 'Communicable Diseases' outbreaks that have been		
	reported		
	- Critically review "ONE Outbreak Report" for following		
	 Verification of Outbreak. 		
Critically review of a	o confirmation of diagnosis.		
recently local outbreak	 Description of Time, Place and Person. 		
	 Hypothesis causes/risk factors. 		
	 Testing of Hypothesis. 		
	 Assessment of risk factors. 		
	 Suggested preventive and control measures. 		
	 Impact of implementation of Control measures, 		
	 Prepare a 'brief report' after critical review 		

II. 3. Report Writing & Presentation

Skill	Description	Fulfil	lment	
SKIII	Description	Yes	No	
Write a report on one of outbreaks that has recently occurred locally.	 Prepare a structured report of an outbreak that has recently occurred locally. Present the main points of the report by a power point presentation. 			

			(Frad	P	
No.	Domains	1	2	3	4	5
1	Surveillance of Communicable & Vector Borne Diseases					Ī
2	Outbreak Investigation					
3	Report Writing & Presentation					
Aver	age Score of K & S (Total of all scores of K & S / Number of l	Doma	ins) :	=		
	2. Attitude					
No.	Criteria		(Frad	e	
NO.	Спена	1	2	3	4	5
1	Regular attendance on time					
2	Communicate properly.					
3	Perception of personal limitations and ask for help & advice.					
4	Maintain confidentiality of data.					
5	Show respect for other opinions.					
6	Work cooperatively and is reliable					
7	Complete tasks on time.					
8	Respect colleagues, including non- professionals.					
9	Realize the importance of continuing professional development.					
10	Demonstrate self-analysis to identify strengths and deficiencies.					
Aver	age Score of Attitude (Total of all attitude scores / Number of	Crite	ria) =	=		
		g.	atuı			
	Name of the Supervisor:					

III. General Hospital

(12 weeks)

Name of the Hospital:		
Name of the Supervisor:		
Name of the Director:		
Period from	to	
Period from	to	••••

Domains of Training:

- 1. Infection Control.
- 2. Healthcare Quality & Accreditation.
- 3. Management of Hazardous Waste.
- 4. International Classification of Diseases and deaths.
- 5. Health Education.

III. 1. Infection Control

Skill	Description	Fulfill	ment
SKIII	Description	Yes	No
Identify roles and responsibility of infection control team.	 Check the Infection Control Committee Constitution Document. Check and review the Minutes of Infection Control Committee. 		
Monitor disinfection of surfaces.	 Check Schedule of Disinfection Process Document. Check Standards of Disinfection Process Document. Check the Disinfection by Physical Presence by using a Tool of Check list to be prepared by students. 		
Specify the appropriate methods of sterilization for different items.	Develop a check list.Visit and Check the Sterilization Department Document for sterilization of different items.		
Monitor the efficiency of the sterilization process.	 Check the Register for Tests applied to check the adequacy of Sterilization process- Bow Dick test register. 		

III. 2. Healthcare Quality & Accreditation

C1-:11	Skill Description		ment
SKIII			No
Identify types of standards in healthcare quality.	Check the Quality Manual and identify different Standards of the hospital.		
Assess the quality of health services using CBAHI standards.	Prepare a check list and decide whether the standards are met or unmet and identify the gaps.		
Conduct quality improvement of health services.	 Prepare and develop a quality improvement using FOCUS-PDCA Model. Check the Quality Indicators available in hospital and Prepare a list 		

III. 3. Management of Hazardous Waste

Skill	Description	Fulfill	ment
Skiii	Description	Yes	No
Supervise the collection, segregation, storage, transportation and disposal of hazardous waste.	 Prepare a check list to judge compliance with standards management of Biomedical hazardous waste. Fill up check list through on site direct observation to identify compliance with the standards methods of hazardous waste: collection, segregation, storage, transportation,. 		

III. 4. International Classification of Diseases & Deaths

Skill	Description	Fulfill	ment
Skiii	Description	Yes	No
Code cause of morbidity and mortality using the ICD10	 Determine from the medical records, the condition that to be coded, Use the Alphabetical Index book of "WHO ICD -10" (Vol. 3) to locate the condition and the code. Use the Tabular List book "WHO ICD -10" (Vol. 1) to ascertain that the code found in the Index is correct by reviewing all coding instructions related to that code. Get it confirmed by health officer in charge of medical records department 		

III. 5. Health Education

CI-2II	Down to the	Fulfill	ment
Skill	Description	Yes	No
Conduct a health education session for inpatients.	 Specify the target population, objectives, method, material, time and place of the health education session. Implement and evaluate of the session. 		
To develop communication skills as a Public Health Core Competency	 Prepare a Public Health Lecture/Power Point Presentation/Video/ Poster with health Messages in 'Arabic' and English for all the Public Health Problems (10 slides for 10 minutes duration) Vaccine Preventable Diseases, MERS, CoronaVirus transmission Vector borne diseases- Malaria, Dengue. Diabetes Obesity Hypertension Cancer Life style changes for chronic diseases-smoking, eating habits, khat chewing, physical exercises etc. Personal Hygiene significance with treatment seeking behavior, health seeking behavior. Presentation to Group of patients of 5-10 patients at PHC. 		

•	n .	Grade			e				
No.	Domains				Domains 1 2 3	Domaine		4	5
1	Infection Control								
2	Healthcare Quality & Accreditation								
3	Management of Hazardous Waste								
4	International Classification of Diseases and Deaths								
5	Health Education								
Aver	rage Score of K & S (Total of all scores of K & S / Number of I	Oma	ins) :	=					
	2. Attitude	T		Grad					
No.	Criteria	1	2	3 3	4	5			
1	Regular attendance on time								
2	Communicate properly.								
3	Perception of personal limitations and ask for help & advice.								
4	Maintain confidentiality of data.								
5	Show respect for other opinions.								
6	Work cooperatively and is reliable								
7	Complete tasks on time.								
8	Respect colleagues, including non- professionals.								
9	Realize the importance of continuing professional development.								
10	Demonstrate self-analysis to identify strengths and deficiencies.								
Aver	rage Score of Attitude (Total of all attitude scores / Number of	Crite	ria) =	=					

• Name of the Director: Signature:

IV. Healthcare Quality Administration (2 weeks)

Name of the Supervisor:	
Name of the Director:	
Period from	to

Domains of Training:

- 1. Standards & Indicators of Healthcare Quality.
- 2. Quality Improvement.
- 3. Accreditation.

IV. 1. Standards & Indicators of Healthcare Quality

Skill	Description		ment
SKIII			No
Check standards & indicators of different healthcare services at PHCs.	Obtain CBAHI- primary health care standards; assess compliance with each standard based on four points scale, through interview, observation or document review.		
Check standards & indicators of different healthcare	Obtain CBAHI- hospital standards, assess compliance with each standard based on four points scale, through		
services at hospitals.	interview, observation or document review.		

IV. 2. Quality Improvement

Skill	Description		ment
Skill Description		Yes	No
Plan and conduct quality improvement for specific health services using FOCUS-PDCA.	 Find a problem, organize team, clarify current information about the problem, understand root causes, select the improvement process, plan, do, check, act Write ,prepare and present a report 		

IV. 3. Accreditation

C1-:11	Skill Description		ment
SKIII			No
Conduct internal assessment	Obtain checklist of all applicable standards elements,		
(Mock Survey) to prepare the	assess each standard element on four-point scale,		
health facility for	ensure that all applicable standards are at a		
accreditation.	satisfactory level for accreditation endorsement.		

	1. Knowledge & Skills (K&S)			'nod		
No.	Domains	1	2	Frad 3	e 4	5
1	Standards & Indicators of Healthcare Quality	1	4	3	-	٥
2	Quality Improvement					
3	Accreditation					
Aver	age Score of K & S (Total of all scores of K & S / Number of) 2. Attitude	Doma	ins) :	=		
			(Grad	<u>e</u>	
No.	Criteria	1	2	3	4	5
1	Regular attendance on time					
2	Communicate properly.					
3	Perception of personal limitations and ask for help & advice.					
4	Maintain confidentiality of data.					
5	Show respect for other opinions.					
6	Work cooperatively and is reliable					
7	Complete tasks on time.					
8	Respect colleagues, including non- professionals.					
9	Realize the importance of continuing professional development.					
10	Demonstrate self-analysis to identify strengths and deficiencies.					
	age Score of Attitude (Total of all attitude scores / Number of Name of the Supervisor:	Criter Sign				

V. National Center of Vector Control / Malaria Plants (15 weeks)

Name of the Supervisor:		
Name of the Director:		
Period from	to	

Domains of Training:

- 1. Investigation of positive cases of vector borne diseases.
- 2. Prevention & Control Measures for humans.
- 3. Control of Vectors.
- 4. Precautions of Pesticide Application.

V.1. Investigation of Positive Cases of Vector Borne Diseases

Skill Description		Fulfill	ment
SKIII	Description		No
Investigate a positive case of Malaria, Dengue Fever and Rift Valley Fever.	 Fill up the case investigation form of VBD. Classify cases into locally infected or imported. Follow up the cases for final outcome. 		

V.2. Prevention and Control Measures for Humans

Skill	Description		ment
Skiii	Description	Yes	No
	Chemoprophylaxis: taken? If Yes, which type? Primary Prophylaxis: Use of anti-malaria drugs at recommended dosage, started 2 weeks before departure to a malarious area and continued for the		
Identify types & guidelines of administering malaria prophylaxis.	duration of stay and for 4 weeks after return. Causal prophylaxis: This prevents the establishment of infection in the liver by inhibiting the preerythrocytic schizogony. Primaquine and proguanil are effective as causal prophylactic drugs.		
	Terminal Prophylaxis : Terminal prophylaxis is the administration of primaquine for two weeks after cure to tackle the hypnozoites of P. vivax and P. ovale that can cause relapses of malaria.		
Conduct Health education session for at risk individuals about measures of preventing VBDs	Prepare, conduct, evaluate a health education session on: Role of Personal Protection Measures: • Staying in well-screened areas. • Using mosquito nets. • Wearing clothes that cover most of the body. • Use of skin repellents. • Space spraying of insecticides.		

V.3. Control of Vectors

Skill Description		Fulfillment	
		Yes	No
Locate the breeding sites of mosquitoes.	Community survey to locate mosquitos breeding sites.Collect samples of water for detection of larvae.		
Identify different methods of mosquito control.	 Mechanical control e. g., change the character of water. Biological control (by natural enemies e. g., fish). Chemical control (pesticides). 		

V. 4. Precautions of Pesticide Application

Skill	Description	Fulfill	ment
Skiii	Description	Yes	No
Monitor the compliance with protective guidelines.	 Check the label for: The label is in English and in Arabic. Contents indicated. Safety instructions (warnings) are present. Storage and transport: Pesticides is in their original containers. Not accessible to unauthorized people or children Kept in a place where they might not be mistaken for food or drink. Kept dry Kept away from fires and out of direct sunlight Transported in a vehicle that is not used to transport food. Spraying: Protective clothes while handling. Measures in the event of swallowing or contamination. Disposal: Safe disposal by pouring it into a specially dug hole in the ground or a pit latrine Is it disposed of where it may enter water used for drinking or washing, fish ponds or river? Hole at least 100 meters away from streams, wells and houses. In a hilly area the hole is on the lower side of such areas? Containers, boxes and bottles used for pesticides are also buried. Hole is closed as soon as possible. 		

	1. Knowledge & Skills (K&S)						
No.	No. Domains		Grade				
110.	Domanis	1	2	3	4	5	
1	Investigation of Positive Cases of VBD						
2	Prevention & Control Measures for Humans						
3	Control of Vectors.						
4	Precautions of Pesticide Application						
Aver	age Score of K & S (Total of all scores of K & S / Number of I	Ooma	ins) :	=			
	2. Attitude						
No.	Criteria	1	2	Frad 3	e 4	5	
1	Regular attendance on time						
2	Communicate properly.						
3	Perception of personal limitations and ask for help & advice.						
4	Maintain confidentiality of data.						
5	Show respect for other opinions.						
6	Work cooperatively and is reliable						
7	Complete tasks on time.						
8	Respect colleagues, including non- professionals.						
9	Realize the importance of continuing professional development.						
10	Demonstrate self-analysis to identify strengths and deficiencies.						
Aver	age Score of Attitude (Total of all attitude scores / Number of	Crite	ria) =	=		••	
	Name of the Supervisor:	Sign	4				

VI. Statistics Unit

(2 weeks)

Name of the Superviso	r:	
Name of the Director:		
Period from	to	•
Domains of Training:		
1 Data managamant &	Analysis using SDSS	

- 1. Data management & Analysis using SPSS.
- 2. Vital Statistics.

VI. 1. Data Management & Analysis Using SPSS

Skill	Description		ment
SKIII	Description	Yes	No
Using SPSS for data entry	Create variables.Specify the variable attributes.Enter data.Save file.		
- Specify the categories based on the upper and values and the class interval. Tabulate data Specify the table title in terms of time, place person. Specify the appropriate format and entries.			
Present data graphically.	 Specify the appropriate graphical presentation for each data type Specify the graph title in terms of time, place and person. Create an informative legend for the graph. 		
Calculate & interpret: O Measures of central tendency. O Measures of dispersion. O Ratios & proportions. O Incidence & prevalence.	 Define, compare and calculate the mean, median and mode. Calculate and differentiate and interpret the range, inter-quartile range, variance and standard deviation. Calculate and differentiate between ratio and proportion. Calculate and differentiate between incidence and prevalence. 		
Select the appropriate statistical tests based on the type of data and the hypothesis.	 Conduct and interpret parametric tests (e.g., t-test) Conduct and interpret non-Parametric tests (e.g., Mann-Whitney test). 		

VI. 2. Vital Statistics

C1-:11	Description		Fulfillment		
Skill			No		
Calculate incidence & prevalence rates	Identify the numerator and denominator in incidence & prevalence rates.				
Calculate birth rates.	irth rates. Identify the numerator and denominator in birth rates.				
Calculate crude death rate.	Calculate crude death rate. Identify the numerator and denominator in crude death rate.				
Calculate specific death rates. Identify the numerator and denominator in specific death rates.					

				Frad	e			
No.	Domains	1	2	3	4	5		
1	Data management & Analysis using SPSS							
2	Vital Statistics							
Aver	age Score of K & S (Total of all scores of K & S / Number of	Doma	ins) :	=				
	2. Attitude							
Nia	Cuitania	T	Grade					
No.	Criteria	1	2	3	4	5		
1	Regular attendance on time							
2	Communicate properly.							
3	Perception of personal limitations and ask for help & advice.							
4	Maintain confidentiality of data.							
5	Show respect for other opinions.							
6	Work cooperatively and is reliable							
7	Complete tasks on time.							
8	Respect colleagues, including non- professionals.							
9	Realize the importance of continuing professional development.							
10	Demonstrate self-analysis to identify strengths and deficiencies.							
Aver	age Score of Attitude (Total of all attitude scores / Number of	Crite	ria) =	=				
• N	Name of the Supervisor:	Sign	atui	re:				

Overall Internship Evaluation*

No.	Setting	Average Score of K & S	Average Score of Attitude
1	Primary Health Care Centers		
2	Preventive Medicine Department		
3	General Hospitals		
4	Healthcare Quality Administration		
5	Vector Borne Control Centers		
6	Statistics Unit		
Tota	Total of Average Scores		
Over	Overall Average Score (Total of Average Scores / 6)		
Ove	%		

^{*} This evaluation table is filled up by the faculty supervisor

Signature:
Signature:
Signature:

Stamp of the FPHTM