# ASSIGNMENT ON COMMUNITY MEDICINE

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#### **COMMUNICABLE DISEASES**

### 1. Vaccine Preventable Diseases

Disease	Epidemiology	Clinical	Investigatio	Treatment	Complications
Tuberculosis	>Agent - M. tuberculosis M. bovis Atypical mycobacterium >Host - Age : All ages Sex : More in males >	Symptoms - 1) Chronic cough for 3 or more weeks with or without coughing of blood 2) Fever 3) Chest Pain 4) Shortness of breathe 5) Loss of weight  Signs - 1) Crepitation 2) Signs of consolidation, cavitation, fibrosis, pleural effusion and spontaneous pneumothorax	1) ESR 2) Chest X-ray 3) Mantaux test 4) Sputum for AFB 5) Sputum for culture	New Patients 1) Initial phase- 4FDC for 2 months 2(HRZE) 2) Continuation phase - 2FDC for 4 months 4(HR)3  Patients with past history of treatment 1) Initial Phase 4FDC+Inj. Streptomycin for 2 months followed by 4FDC for 1 month 2(HRZE)S + 1(HRZE) 2. Continuation Phase - 2FDC+ Ethambutol for 5 months 5(HR)3 E3	1) Pleurisy 2) Pleural Effusion 3) Pericarditis 4) Pericardial Effusion 5) Pneumothorax 6)Miliary TB 7) Progressive Pulmonary TB 8) Haemoptysis 9) Disseminated Tuberculosis

Name of Epi	idemiology	Clinical Features	Investigation	Treatment	Complication
Diphtheria >Ag Con dip C. g C. r C. i >He Age ma Sex >Er All ma inc	gent - rynebacterium ohteriae gravis mitis intermedius ost - e - 1-5 years ainly x - Both sexes nv Factors - seasons, aximum cidence in nter	1)Respiratory tract forms - a) Pharyngotonsillar diphtheria - Sore throat, Difficulty in swallowing, Low grade fever b) Laryngotracheal diphtheria- Hoarseness of voice and croupy cough c) Nasal diphtheria- It is localized to the sputum or turbinates of one sifde of the nose		1)Notification 2)Isolation 3)Diphtheria antitoxin 4)Anti- Bacterial - a)Penicillin or amoxicillin should be administered for 2 weeks to eliminate C. diphtheriae b) Patients allergic to penicillin can be given Erythromycin 5)Immunized with diphtheria toxoid following recovery 6)Strict isolation 7) Treatment of complications	1) 1st Week - Laryngeal obstruction or paralysis 2) 2nd Week - Myocarditis Acute circulatory failure 3) 3rd Week - Peripheral Neuropathy Palatal Paralysis 4) 4th Week - Paralysis of eye muscles of accomodation 5) 5th Week - Generalized polyneuritis and weakness Paraesthesia 6) 6th Week - Pharyngeal Paralysis Diphragmatic Paralysis

Name of disease	Epidemiology	Clinical Features	Investigation	Treatment	Complication
Pertussis	>Agent - Bordetella pertussis >Host - Age - 1-8 years commonly. Children under 6 months are also affected >Env Factor - Incidence is higher during winter season	1) Catarrhal Stage - Conjunctivitis Rhinitis Unproductive Cough 2) Paroxysmal Stage - Spasmodic cough that ends with an inspiratory whoop, Vomiting, During the spasms the face becomes suffused or frankly cyanosed, Eyelids are swollen and there maybe sub conjunctival haemorrhage 3) Convalescent Stage- Cough becomes less frequent Sputum less tenacious		1)Erythromycin (500mg-4 times a day orally for 10 days) 2)Alternatives- Ampicillin, septran or tetracycline 3) A cough suppressant Eg. Dextromethorpan, Pholcodine	1)Respiratory System - Bronchitis Bronchopneumonia Bronchiectasis Haemoptysis Atelectasis  2)Eye - Sub-Conjunctival Haemorrhage  3)Nose - Epistaxis  4)Brain - Cerebral Haemorrhage  5) Rectum - Rectal Prolapse  6) Tongue - Ulceration of frenulum of tongue in children  7) Umbilicus - Umbilical hernia

Name of disease	Epidemiology	Clinical Features	Investigation	Treatment	Complications
Tetanus	>Agent - Clostridium tetani >Host - Age - 5-40 years Sex - Higher incidence in male, female are more exposed to the risk of tetanus during delivery and abortion >Env Factors - a) Occurrence depends upon man's physical and ecological surrounding the soil, agriculture, animal husbandry b) Unhygienic customs and habits c) Unhygienic delivery practice	1) Painful muscle spasms and stiff immovable muscle in jaw 2) Difficulty in swallowing 3) Rigid abdominal muscles		1) Wound cleaning 2) Removal of foreign bodies 3) Removal of necrotic tissue 4) Proper use of antibiotics like penicillin 5)TIG 5000 units i.m is given as soon the diagnosis is clinically arrived. To neutralize absorbed toxin, i.v injection of 3000 IU of antitoxin may also be undertaken.	1) Breathing problems 2) Pulmonary embolism 3) Pneumonia

Dilicipelitis   Policipelitis   Policipeliti
Sore throat

Name of disease	Epidemiology	Clinical Features	Investigation	Treatment	Complications
Measles	>Agent - RNA Paramyxo Virus >Host - Age- 6 <sup>th</sup> month to 3 years of age Sex- Both sexes are affected >Env Factors- Incidence is higher in spring and winter Incidence is higher in densely populated urban areas	1)Prodromal Stage-Day 1-2: Fever, coryza, sneezing, running nose, red watery eyes. Day 2+: Cough, photophobia, Koplik's spots  2) Eruptive Stage-Days 3-4: Maculopapular rash Days 6-7: Fever and rash begins to fade  3) Post-measles Stage-The child will have lost weight and will be weak for a number of days.			1) Effects of measles virus-Stomatitis Enteritis Pnemonia Keratitis Measles associated diarrhoea  2) Secondary bacterial infection-Otitis media Bronchopneumonia Conjunctivitis  3) Neurological Complications-Post-viral encephalitis Sub-acute sclerosing panencephalitis  4) Nutritional-Severe weight loss Kwashiorkor Corneal liberation
Rubella	>Agent- An RNA virus of the toga virus family >Host- Age- 3-10 years Immunity- One attack results in life long immunity.		1) Isolation of virus- Throat swab culture 2) Serology- a)Haemagglutination inhibition test b) ELISA test c) Radio-immune assay (RIA)		

Name of	Epidemiology	Clinical	Investigation	Treatment	Complications
disease		Features			
Viral Hepatitis B	>Agent- Hepatitis B virus double stranded DNA virus >Host- Age- Highest prevalance between 20-40 years of age High risk group- Doctors, nurses, dentist, hospital staff, laboratory workers, percutaneous drug addicts, infants of HBV carrier mothers >Env Factors- May occur around the year and has no seasonal pattern.	1) Clinical infection-Jaundice Flu-like 2) Sub-clinical infection-asymptomatic			1)Fulminant Hepatic failure 2) Chronic Hepatitis 3) Cirrhosis of liver 4) Hepatocellular carcinoma 5) Relapsing hepatic failure 6) Aplastic anaemia 7) Post Hepatic syndrome 8) Connective tissue disease
Influenza	>Agent- Influenza virus types A, B and C >Host- All ages and sexes are equally affected. Maximum age of incidence is between 5-15 years >Env Factors- Disease incidence is higher in colder months, but in Bangldesh the disease may occur around the year. Occurrence is high in crowded population groups			Treatment includes- Basic symptomatic care, early use of antiviral drugs if available, antimicrobials for co-infection. Hospital care requires supplemental oxygen therapy to correct hypoxaemia.	

# 2. Other Communicable Diseases

Name of disease	Epidemiology	Clinical Features	Investigation	Treatment	Complications
Leprosy	>Agent- Mycobacterium leprae	1)Hypopigmented patches	1)Microscopic examination of smears made	1)Multibacillary leprosy- The drugs used	1)Hands and feet deformity
	>Host	2)Partial or total loss of cutaneous	from skin lesions or nasal mucous	are- a)Rifampicin-	2)Blindness
	Age- Infection	sensation in the	membrane	600mg,once	3)Peripheral
	can take place at any age	affected areas.	2) Mouse foot-	monthly, given under	Neuropathy
	Sex- More in men than	3)Presence of thickened nerves	pad culture	supervision b)Dapsone-	4)Multi-organ failure
	women		3) Histamine test	100mg, daily, self	ranare
	>Env Factors-	4)Presence of acid- fast bacilli in the	4) Histological	administered c)Clofazimine-	
	a) Presence of	shin or nasal smears.	examination of biopsy material	300mg, once monthly	
	infectious case			supervised and	
	in that environment.		5)Immunological tests-	50mg daily, selfadministered.	
	b)Humidity		a) Lepromin test	Duration-The	
	favours the survival of		b) Monoclonal	end of combined treatment should	
	M.leprae		antibody test	be for atleast 2 years and	
	c) Overcrowding and lack of		c) FLA-ABS test d)ELISA	continued upto smear negativity	
	ventilation within			2) Paucibacillary	
	households			leprosy- a) Rifampicin-	
				600mg, once a month for 6	
				months, supervised.	
				b) Dapsone,	
				100mg daily for 6 months, self-	
				administered	

Name of	Epidemiology	Clinical Features	Investigation	Treatment	Complications
disease					
Scabies	>Agent-	1) Intense itching at			1)Glomerulonephritis
	Sarcoptes scabiei hominis	night			2)Phoumatic Foyor
	HOMINIS	2) More than one			2)Rheumatic Fever
	>Host-	member in the family			3)Secondary
	Sex- Both sexes	has been affected in			Infection
	are affected	adults			
					4)Urticaria
	Site of lesion-	3) Face and scalp are			
	Hands and wrists,	not usually affected in			5)Eczema
	extensor aspect of	adults			
	elbow and axillae,				
	genitals of male	4) Itching of nipple in			
	and female,	female and itching of			
	thights and abdomen	papules in males of penis or scrotum.			
AIDS	>Agent-	1)Major Signs-	Serological		1) Unexplained
AIDS	Human	a) Weight loss > 10% of	test for		diarrhoea lasting
	immunodeficiency	body weight	antibody		longer than a month
	Virus	b) Chronic diarrhoea for	detection		J
	>Host-	> 1 month	against the		2) Fatigue
	Age- Mostly 20-49	c) Prolonged fever for >	HIV.		
	years	1 month			3) Malaise
	Sex- Frequently		Specimen		
	among female as	2)Minor Signs-	collection-		4) Loss of more than
	male	a) Persistent cough for >	Blood for		10% of body weight
	>Mode of	1 month	serological		E)
	transmission- Sexual	b) Generalized prurutuc dermatitis	test and culture.		5) Fever
	transmission,	c) History of herpes	culture.		6) Night sweats
	contaminated	zoster			of Might Sweats
	blood, maternal	d) Oropharyngeal			
	foetal	candidiasis			
	Transmission	e)Chronic progressive or			
		disseminated herpes			
		simplex infection			
		f) Generalized			
		lymphadenopathy.			

### 3. Zoonotic Diseases

Name of	Epidemiology	Clinical Features (of	Investigation	Treatment	Complications
disease		rabies in dogs)			
Rabies	>Agent-	1) Furious type-		Human	
	Lyssavirus type-1	a) It is common and		diploid cell	
	(rabies virus)	more frequent		vaccine	
		b) The dog is easily		(HDCV) -	
	>Host- Rabies	irritable and may bite			
	virus can infect all	c) It becomes restless,		6 doses, 1 ml	
	warm blooded	excited, furious, may		each.	
	mammals. Man is	bite anybody and has a			
	infected	tendency to snap at		On days-	
	accidentally.	anything that comes on		0,3,7,14 & 28.	
		its way.			
	>Env Factors-	d) The dog will attemp		Booster dose	
	It may occur at	to eat indigestibles like		on day 90	
	any time but is	stick, straw, paper, etc.			
	more prevalent in				
	the summer	2) Dump type-			
	months.	a) There is no irritability			
		b) The animal hides in			
		dark corners of the			
		house and suffers from			
		sleepiness and			
		melancholia			
		c) Paralysis of jaw and			
		limbs set in			
		d) Dog here usually			
		does not bite			
		e) Death occurs within 3			
		days after the onset			

#### 4. Parasitic Diseases

Name of disease	Epidemiology	Clinical Features	Investigation	Treatment	Complications
Amoebiasis	>Agent- Entamoeba histolytica		1) Demonstration of trophozites containing red cells is diagnostic  2) Serological test-Indirect haemagglutination test (IHA)  3) Newer techniques- Counter immuno-electrpohresis (CIE)  4) ELISA	1)Symptomatic cases- Metronidazole orally 30mg/kg body weight/day, Divided into 3 doses after meals, for 8-10 days.  2) Asymptomatic infections-Oral diodohyroxyquin, 650 mg t.d.s (adults) or 30-40 mg/kg of body weight (children) for 20 days, or oral diloxanide furoate, 500 mg t.d.s for 10 days	
Ascariasis	>Agent- Ascaris Iumbricoides >Host- It may occur in all ages but the highest incidence is found among the group of 15- 25 years >Env Factors- Moist and shady localities with clayish soil is favourable for the worm to thrive	1) Infected child becomes ill. 2)Growth retardation 3)Protein-energy metabolism 4)Vitamin-A deficiency 5)Abdominal pain and discomfort 6)Vomiting 7)Diarrhoea 8)Perverted appetite 9)Pyrexia 10)Intestinal obstruction	1) Demonstration of eggs of Ascaris lumbricoides in the stool. 2) Frequently adult worms can be seen in the stool 3) During pulmonary phase, there may be eosinophilia 4) Larvae are occasionally found in sputum		

### 5. Vector borne diseases

Name of disease	Epidemiology	Clinical Features	Investigation	Treatment	Complications
Malaria	>Agent – 1)Plasmodium vivax 2) Plasmodium falciparum 3) Plasmodium malariae 4) Plasmodium ovale  >Host – human Age – all ages Sex- male>female >Environment – more prevalence from july to November specially rainy season	1)Fever 2)weakness 3)headache 4)bodyache		(A)Uncomplicated malaria 1)Chloroquine 2)Quinine 3)Doxycyclin  (B)Complicated /severe/ cerebral malaria 1)Quinine 2)Artesunate	
Filaria	>Agent – 1) Wuchereria bancrofti 2)Brugia malayi  >Host- human Age – all ages Sex- more common in male  >Environment- Temperature- 22 to 38 degree Celsius Humidity -70 percent	(A)Acute condition 1)Lymphangitis 2)Lymphadenitis 3)Fever  (B) Chronic conditions 1)Hydrocele 2)Elephantiasis 3)Chyluria  (C)Allergic reactions 1)rash 2)itching	1)Microscopic examination by blood smear	Chemotherapy 1)Diethylcarbamazine a)bancroftian filiarisis- 6mg/kg/day for 12 days b)3-6mg/kg/day 2)Ivermectin	1)Bacterial infection in skin 2) Bacterial infection in lymph system 3)hardening and thickening of skin 4)disfigurement 5)sexual disability

Kala Azar	>Agent – Leishmania donovani  >Host – human Age- more common in young adult Sex more common in male  >Environment – usually 3 months after the onset of rains	1)Irregular fever 2)malaise 3)weight loss 4)anorexia 5)anaemia 6)haemorrhage 7)non tender progressive splenomegaly	(A)Serological diagnosis 1)direct agglutination test 2)ELISA test 3)Indirect fluorescent test (B)Parasitological test 1)Leishman staining	1)Sodium stibogluconate - 20mg/kg for 30 days 2)Miltefosine (a)25kg-100mg daily for 28 days (b)<25kg-50mg daily for 28 days 3)Amphotericin – 1mg/kg for 20 days	
Dengue	>Agent – flavivirus of 4 immunological types-1,2,3,4  >Host- human  >Environment- more commonly in rainy season, temperature 28 degree celcius, 80% humidity	(A)Dengue fever 1)abrupt onset of high fever, chills 2)headache 3)retro orbital pain 4)thrombocytopenia 5)rash, nausea, vomiting 6)sore throat  (B)Dengue haemorrhagic fever 1)Fever- very high, long lasting 2)haemorrhagic manifestation- epistaxis, gum bleeding, haematemesis, malena, purpura 3)anorexia, vomiting 4)epigastric discomfort 5)thrombocytopenia 6)generalized abdominal pain	1)Platelet count 2)Total count of WBC 3)Serum enzymes	1)Paracetamol 2)full bed rest 3)corticosteroids 4)fluid replacement 5)blood transfusion	

>Agent – flavi			1)Analgesics	
virus(togavirus				
family)				
			2)fluid and	
>Host - human			electrolyte balance	
			3)blood transfusion	
•				
			4)plasma expanders	
ceicius			Elparitancal dialysis	
			5)peritorieai dialysis	
>Agent- zika	1)Fever	1)Polymerase	1)Adequate rest	
virus(member	•	chain reaction		
of flavi virus)	2)Skin rash		2)Plenty of fluid	
		2) Virus isolation	intake	
>Host- human	3)Conjuctivitis	from blood		
		sample	3)Antipyretic	
>Environment	· -		(paracetamol)	
– more	pain			
	->		4)Treatment of pain	
rainy season	5)malaise			
	6)hoadacho			
	Officadactie			
	virus(togavirus family)  >Host - human  >Environment-temperature 25 degree celcius  >Agent- zika virus(member of flavi virus)  >Host- human  >Environment	virus(togavirus family)  >Host - human  >Environment- temperature 25 degree celcius  >Agent- zika virus(member of flavi virus)  >Host- human  >Environment - more common in  4)muscle and joint pain	virus(togavirus family)  >Host - human  >Environment-temperature 25 degree celcius   >Agent- zika virus(member of flavi virus)  >Host- human  >Environment - more common in rainy season  >Host - human  >Skin rash  1)Fever 2)Skin rash  2) Virus isolation from blood sample	virus(togavirus family)  >Host - human  >Environment- temperature 25 degree celcius  >Agent- zika virus(member of flavi virus)  >Host- human  >Environment  - more common in rainy season  2)fluid and electrolyte balance  3)blood transfusion  4)plasma expanders  5)peritoneal dialysis  1)Polymerase chain reaction 2) Virus isolation from blood sample  3)Antipyretic (paracetamol)  4)Treatment of pain

# 6. Vehicle borne diseases

Name of disease	Epidemiology	Clinical Features	Investigation	Treatment	Complications
Infective hepatitis	>Agent – hepatitis A virus  >Host – human Age- children(infection is mild and subclinical) Adult(severe)  >Environment- increase after flood, heavy rainfall	1)Fever 2)Headache 3)Fatigue 4)Weakness 5)Pain in body 6)Anorexia 7)Nausea 8)Vomiting 9)Dark urine 10)Jaundice and enlarged liver	1)ELISA test 2)Specific viral antigens 3)Abnormal liver function, serum ALT	1)Vaccines- formaldehyde inactivated vaccine, live attenuated vaccine 2)Immunoglobulin	1)Hepatic faliure 2)Cirrhosis of liver 3)Chronic hepatitis 4)Aplastic anaemia 5)Hyperbillirubinemia
Enteric fever (typhoid and paratyphoid)	>Agent 1)Salmonella typhi 2)Salmonella paratyphi >Host – human Age- usually 5 to 19 years >Environment – high in rainy season	1)Chills 2)High fever 3)Malaise 4)Headache 5)Cough 6)Sore throat 7)Abdominal pain 8)Constipation 9)Abdominal distension 10)Bradycardia	1)Microbiological test 2)Serological test 3)IDL Tubex test 4)Widal test	1)Ampicillin(4- 6g/day) 2)Amoxycillin(4- 6g/day) 3)Probenecid(2g)	1)Intestinal haemorrhage 2)Intestinal perforation 3)Urinary retention 4)Pneumonia 5)Thrombophlebitis 6)Myocarditis 7)Psychosis 8)Cholecystitis 9)Nephritis 10)Osteomyelitis
Food poisoning	>Agent Non bacterial-sea food and chemical fertilizer, pesticide) Bacterial- salmonella typhi, campylobacter jejuni, bacillus cereus >Host-human	1)Vomiting 2)Diarrhoea 3)Abdominal pain 4)Fever 5)Tenesmus 6)Dehydration 7)Headache 8)Increased temperature	Laboratory investigation of 1)vomit 2)stool 3)Remnants of food	1)Symptomatic treatment 2)Antibiotic	

# 7. Air Borne Diseases

Name of	Epidemiology	Clinical Features	Investigation	Treatment	Complications
Mumps	>Agent – Mumps virus(member of paramyxovirus)  >Host – Human Age-commonly 5-15 years  >Environment- occur whole year but more commonly in winter	1) Pain and swelling in parotid gland. May also involve sublingual and submandibular gland 2 )Ear ache on affected side 3)Pain and stiffness on opening mouth 4) It also affect testis, pancreas, cns, ovaries, prostate, etc. 5) fever, headache which last 4 to 5 days	1)Serological test 2)CF 3)HI	1)No specific treatment 2)Adequate nutrition 3)Mouth care 4)Analgesics 5)Dry mild heat-application to reduce pain 6)In mumps orchitis – Prednisolone 40mg daily 4 days	A) Frequent complications: 1)Orchitis 2)Ovaritis 3)Pancreatitis 4)Meningo-encephalitis 5)Thyroiditis 6)Neuritis 7)Hepatitis 8)Myocarditis  B) Rare complications: 1)Bilateral orchitis leads to sterility Diabetes  C) Rarer complications: 1)Nerve deafness 2)Polyarthritis 3)Hydrocephalus 4)Encephalitis 5)Cerebellar ataxia
Chicken pox	>Agent – Varicella zoster >Host – human >Environment – more common in winter and spring	1)Rash(macule, papule, vesicle, crustation) 2)Pneumonia 3)Myocarditis 4)Encephalitis 5)Glomerulonephritis	1)Virus isolation on tissue culture 2)Serum antibodies	1)Majority patients – no drug treatment 2)Immuno compromised patients- acyclovir 3)Varicella zoster immunoglobulin (VZIG)	1) Haemorrhage (Varicella haemorrhagica) 2) Pneumonia 3) Encephalitis 4) Acute cerebral Ataxia 5) Reye's syndrome 6) Congenital defects and malformation 7) Oncogenecity 8) Skin infection 9) Septicemia 10) Septic arthritis.

Acute	>Agent	1)Running nose	(A) physical	Cotrimoxazole	
respiratory	(A) Bacteria-	2)cough	examination		
infection	1)Haemophilus	3)sore throat		Less than 2 months –	
(ARI)	influenza	4)difficult breathing	1)Count the	1 tablet twice a day	
	2)Staphyllococc	5)ear problem	breaths in 1	,	
	us aureus	6)fever	minute	2 months to 12	
	(B)Virus -	·	2)Look for	months – 2 tablet	
	1)Adenovirus		chest	twice a day	
	2)Influenza		indrawing	•	
	(C)Mycoplasma		3)Look and	1 year to 5 year – 3	
	pneumoniae		listen for	tablet twice a day	
	-		stridor		
	>Host – young		4)Look for		
	infant,		wheeze		
	malnourished		5)Check if the		
	children		is sleepy		
			6)Check body		
	>Environment-		temperature		
	climate				
	conditions,				
	housing,				
	overcrowded				
	dwellings, poor				
	nutrition				
Small pox	>Agent –	1)Fever		Vaccination	
(Variola)	Variola virus	2)Malaise			
		3)Backache			
	>Host- human	4)Prostration			
		5)Rash			
	>Environment –	6)Bleeding in			
	low	mucous membrane			
	temperature				
	and low				
	humidity				

### 8. Water Borne Diseases

Name of disease	Epidemiology	Clinical Features	Investigation	Treatment	Complications
Diarrhoeal disease	>Agent 1)Viral(Rotavirus, adenovirus, astrovirus) 2)Bacterial(Escherichia coli, shigella) 3)Other(Entamoeba hystolytica, intestinal worms) >Host - human >Environment — mostly in rainy season	1)Dehydration 2)Weight loss 3)weakness 4)Malnutrition 5)Electrolyte imbalance	1)Complete blood count test 2)Lab test of stool sample	Symptomatic treatment 1)Oral rehydration therapy 2)Appropriate feeding 3)Chemotherapy	
Cholera	>Agent – Vibrio cholerae  >Host – human(both child and adult)  >Environment – most commonly in warm season	1)Nausea 2)Diarrhoea(watery) 3)Vomiting 4)Dehydration 5)Electrolyte imbalance 6)Lethargy	1)Culture method by samples of stool	1)Adult – tetracycline 500mg 6 hourly for 3 days 2) children - Erythromycin	
Dysentry	>Agent – Shigella Flexneri, Shigella dysentariae  >Host - human  >Environment – most frequently during warm season	1)Fever 2)Anorexia 3)Irritability 4)Protein losing enteropathy 5)Malnutrition	1)Blood test 2)Lab test of stool samples	1)Cotrimoxazole 2)Ampicillin 3)Ciprofloxacin	

### NON-COMMUNICABLE DISEASES

Name of	Epidemioloogy	Clinical	Investigation	Treatment	Complications
disease		Features			
Hypertension	Risk Factors- 1) Modifiable Factors- a)Obesity b)Salt intake c)Saturated fat intake d)Alcohol taking e)Reduced physical activity f)Environmental stress g)Other factors-OCP, noise, temperature, humidity  2) Non-Modifiable Factors- a)Age b)Genetic Factors c)Family History				1) Hypertensive cardiovascular diseases 2) Hypertensive cerebrovascular diseases 3) Hypertensive renal disease 4) Atherosclerotic complication 5) Aortic dissection 6) Hypertensive emergencies-a) Encephalopathy b)Nephropathy c)Retinopathy d)Unstable angina e)MI
Diabetes Mellitus	>Agent- Insulin deficiency  >Host factors- Age Sex Genetic factors Genetic markers Immune mechanisms Obesity Maternal diabetes  >Env factors- Sedentary lifestyle Diet Alcohol Malnutrition Stress Viral infections Chemical agents	<ol> <li>Polyuria</li> <li>Polydipsia</li> <li>Polyphagia</li> <li>Loss of body weight</li> <li>General weakness</li> </ol>			1) Acute complications- a) Diabetic ketoacidosis b) Hypoglycemic coma c) Non-ketotic hyperosmolar diabetic coma d) Lactic acidosis  2) Chronic complication- a) Microvascular- Retinopathy, nephropathy, peripheral neuropathy, automic neuropathy, foot disease b) Macrovascular- Coronary circulation (MI), Cerebral circulation (stroke, transient ischaemic attack), Peripheral circulation (claudication, ischaemia)

Coronary	Risk Factors -				1) Angina pectoris of effort
Heart	1) Non-modifiable				
Disease	factors-				2) Myocardial infarction
	a) Age				
	b) Sex				3) Irregularities of the heart
	c) Family History				
	d) Genetic Factors				4) Cardiac failure
	e)				5, 6, 11, 1, 1,
	Personality				5) Sudden death
	2) Modifiable factors-				
	a)Smoking				
	b)High blood				
	pressure				
	c) Diabetes				
	d) Obesity				
	e) Stress				
	f) Elevated serum				
	cholesterol				
Rheumatic	>Agent -		1)Raised ESR		1) Continuing damage to the
fever	Streptococcus		2)prolonged pr		heart.
			interval in ecg		2) Increasing disabilities.
	>Host- human		3)leucocytosis		3) Repeated hospitalization.
	Age – usually 5to15		4)ASO titre raised		4) Premature death usually by
	years		raiseu		the age of 35 years or even earlier.
					currer.
	>Environment				
Obesity	(A)Behavioural				1)Type 2 Diabetes mellitus
,	1)Sedentary worker				2)Gall stone
	2)Diet				3)Osteoarthritis
	3)Alcohol				4)Obstructive sleep apnea
	4)Smoking				5)Cancer
	5)High blood pressure				6)menstrual irregularity
					7)Stress incontinence
	(B)Genetic factor				
Cancer			1)X ray	1)Surgery	
			2)CBC	2)Radiothe rapy	
			3)Pap smear	3)Chemoth	
			4)Mammogra	erapy	
			phy	',	
			5)Sigmoidosc		
			ору		
	_1	<u> </u>		1	

#### 3. ENTOMOLOGY

Name of Disease	Agent
Malaria	Plasmodium vivax, P. falciparum, P.ovale,
	P. malariae
Filariasis	Wucheria bancrofti, Brugia malayi, Brugia
	timori
Dengue	Dengue virus
Leishmaniasis	Leishmania donovani
Scabies	Sarcoptes scabiei hominis
Yellow fever	Flavivirus
Plague	Yersinia pestis
Japanese encephalitis	Group-B arbovirus
Thyphoid and paratyphoid fever	Salmonella typhi, S. paratyphi
Diarrhoea	E.coli, Shigella, Rotavirus, Norwalk virus,
	Entero virus
Dysentery	Shigella
Cholera	V. cholera
Gastro-enteritis	E.coli
Amoebiasis	E. histolytica
Helminthic infestation	Different helminthes
Conjunctivitis	Haemophilus influenzae, Staphylococci
Poliomyelitis	Polio virus type 1,2,3
Trachoma	Chlamydia trachomatis
Anthrax	B. antracis
Yaws	T. pertenuue
Kala-azar	Phlebotomus argentipes
Sand fly fever	Phlebotomus papatasii
Oriental sore	
Oriental sore	Phlebotomus sergenti
Sand fly fever	Sergentomyia
Epidemic typhus	Rickettsia prowazeki
Relapsing fever	Borrelia recurrentis
Trench fever	Rickettsia quintana
Dermatitis	Due to scratching and secondary infection