Class 16: Zoonotic diseases – prevention and control (Anthrax, Tuberculosis, Brucellosis, and Rabies)

ZOONOSES : Are diseases of animals including Homo sapiens. Its infective agents have become adapted to a particular animal species during course of evolution and can exist in these animals by uninterrupted infection chains. In narrow (epidemiological) sense, transfer of causative agent of an animal disease to human beings is zoonoses.

They are diseases and infections the agents of which are naturallyn tranmitted among other vertebrate animals and man. Also included are a number of infections, which are shared but not naturally transmitted.

Classification

- a. Direct Z. example rabies
- b. Cyclo Z. eg. -teaniasis
- c. Sapro Z. eg. histoplasmosis
- d. Meta Z. eg. Japanese encephalitas
- e. Anthrapo Z. Eg. Brucellosis

Disease	Cause	Non human	Modes of	Symptoms	Class of
		principal	inection		zoonoses
		hosts			
Brucellosis	Brucella	Cattle, goat,	Occupationa	IP 1-3 weeks,	Direct
	abortus	sheep,	l exposure	or month;	anthropozoonosi
	Br.melitensis	swine,	through air,	septicaemic;	S
	Br.Suis	caribou,	contact,	continued,	
	Br.canis	dog.	Ingestion of	intermittent or	
			infected	irregular	
			milk /food	fever, chills,	
				profuse	
				sweating,	
				weakness,	
				fatigue,	

				notionto got un	
				patients get up	
				as normal in	
				the morning to	
				fall in bed	
				with high	
				temperature in	
				the afternoon,	
				insomnia,	
				headache,	
				arthralgia,	
				spleenomegal	
				y, disease lasts	
				for weeks,	
				months or	
				even years.	
Anthrax	Bacillus	Cattle,	Occupationa	1 P.2-5 days	Direct
	anthracis	sheep, goat,	1 exposure	Cutaneous	anthropozoonosi
		horse, wild	through	form : Vesicle	S
		herbivores	contact, air-	develop into	
			borne,	black	
			vehicle	depressed	
			(meat)	eschar,	
				generally	
				uncared, not	
				treated in time	
				resulting into	
				septicaemia	
				and death.	
				Pulmonary	
				(wool sorters	
				disease)	

				resemble	
				common	
				infection of	
				upper	
				respiratory	
				tract : 1, P 3-5	
				days, acute,	
				fever, shock	
				and death.	
				gastrointestina	
				l form IP 4	
				days,	
				gastroenteritis	
				blood in	
				stools, death.	
Tuberculosis	Mycobacteriu	Cattle	Occupationa	Extra	Direct
	m bovis		l exposure	pulmonary	anthropozoonosi
			through	form most	S
			contact;	common.	
			ingestion of	Cervical	
			raw milk,	adenitis,	
			inhalation	genitourniary,	
			inhalation	genitourniary, bone, joint	
			inhalation	genitourniary, bone, joint infections;	
			inhalation	genitourniary, bone, joint infections; meningitis,	
			inhalation	genitourniary, bone, joint infections; meningitis, pulmonary	
			inhalation	genitourniary, bone, joint infections; meningitis, pulmonary form in	
			inhalation	genitourniary, bone, joint infections; meningitis, pulmonary form in occupational	
			inhalation	genitourniary, bone, joint infections; meningits, pulmonary form in occupational	
			inhalation	genitourniary, bone, joint infections; meningits, pulmonary form in occupational groups, transmit back	

Leptosspirosi	Leptospira	Rodent,	Occupationa	IP 1-2 weeks,	Direct
s Weil's	interrogans	domestic	1 and	as short as 2	anthropozoonosi
disease		and wild	recreational	days,	S
		mammals,	exposure	septicaemic	
		contaminate	through	phase (1-10	
		d soil water	contaminate	days),	
		at neutral to	d water,	leptospiruria	
		alkaline pH	ingestion	(1 week to	
				several	
				months)	
				Icteric form	
				(weil's	
				disease),	
				hepatonephriti	
				c form fever,	
				headache	
				conjunctivitis,	
				vomiting,	
				diarrhoea and	
				constipation.	