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Hypersensitivity

Hypersensi-	There are four types of hypers-
tivity is an	ensitivity reactions: type 1
antigenic	(anaphylactic), type 2 (cytot-
response that	oxic), type 3 (immune complex),
isn't normal;	and type 4 (delayed cell-medi-
allergies are	ated, or delayed hypersensiti-
an example	vity)

Type 1 reactions - anaphylactic reactions

Anaphy-	lgE	There are	Systemic	foo
lactic	antibodies	two types	anaphy-	inh
reactions	bind to	of	laxis is	(thi
occur	mast cells	anaphy-	the result	like
within 2	or	lactic	of an	pol
to 30	basophils;	reactions:	individual,	ant
minutes	causes	systemic	who is	and
of	degran-	anaphy-	sensitized	syn
coming	ulation of	laxis and	to a	dep
into	mast cells	localized	particular	on
contact	or	anaphy-	antigen,	way
with an	basophils,	laxis	is	ant
antigen	and causes		exposed	ent
	the release		to the	the
	of reactive		particular	
	substances		antigen	
	like		again. An	
	histamine		example	
			is an	
			allergic	Mic
			reaction	Ca
			to	asit
			penicillin	

Type 1 reactions - anaphylactic reactions

(cont)					
Localized	Sensit-	Desensi-	Desensi-		
anaphy-	ivity to	tization	tization		
laxis is	an	is one	involves		
the result	antigen	way to	increasing		
of	is	prevent	the		
someone	shown	anaphy-	dosages		
ingesting	by a	lactic	of the		
(eating a	rapid	reactions,	antigen,		
food)	inflam-	and	and		
inhaling	mation	avoiding	carefully		
(things	reaction	the	injecting		
like	that	antigens	the		
pollen) an	causes	known to	dosages		
antigen,	swelling,	cause	beneath		
and the	redness,	reactions	the skin		
symptoms	and	is another			
depend	itching	way to			
on the	at the	prevent			
way the	inocul-	an			
antigen	ation	anaphy-			
entered	site. The	lactic			
the body	inocul-	reaction			
	ation				
	site is				
	called a				
	wheal				
Microbial diseases of the skin					
Caused by bacteria, viruses, and fungi/par-					

aused by bacteria, viruses, and fungi/parites

Bacterial diseases of the skin

The bacteria that cause well known diseases are Staphylococci, Streptococci, Micrococci, Propionibacterium acnes, and Pseudomonas aeruginosa

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Page 1 of 3.

Viral diseases of the skin

The viruses that cause well known skin dis are Morbillivirus, the mumps virus, Togavir Papillomas coxsackievirus/entovirus, Sma and Haemophilus influenzae

Fungal and parasitic diseases of the sk

The fungi and parasites that cause well kn diseases of the skin are ringworm, Candid albicans, and Sarcoptes scabiei mites*

Helminths

Most parasitic animals belong to one of tw Platyhelminthes (flatworms) and Nemato (roundworms)

The Nematodes, aka the roundworms

The	The	The	The
roun-	roundworms	males	free
dworms	are	have	anc
have	dioecious	spic-	par
cylind-		ules,	ner
rical		which	
bodies		are	
and have		used to	
а		take the	
complete		sperm	
digestive		to the	
system		female's	
		genital	
		pore	

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The Protozo	a			The Proto	zoa (cont)			Platyhelmin	ths, aka the	Platyhelmir
The Protozoa The protozoa are unicel- lular eukaryotes that inhabit water and soil	a The protozoans have complex life cycles and animal-like nutrition	They require a large supply of water	Some protozoa have a pellicle, which is an outer protective covering. The protozoa that have pellicles require	The Proto The amebae <i>Acant-</i> <i>hamoeba</i> infects the corneas and causes blindness	zoa (cont) The amebae <i>Balam- uthia</i> causes granul- omatous amebic enceph- alitis	Apicomp- lexa are nonmotile, obligate intrac- ellular parasites that have complex life cycles	The apicom- plexan parasite <i>Plasm-</i> <i>odium</i> causes malaria, and it's transm- itted by insect bites	Platyhelmin flatworms There are two types of flatworms: trem- atodes, or flukes and the cest- odes, or tapewo- rms The lung	ths, aka the The trematodes usually have flat, leaf-s- haped bodies with a ventral sucker and an oral sucker The Asian	flatworms (The head of cestodes is known as the scolex, and the body is made up of segments called
Protozoa's food is digested in vacuoles and wastes are eliminated through an anal pore	There are some medically important protozoa: the Exca- vata, Amebae, Apicomp- lexa, and the Cili- ates	Amebae move by extending pseud- opods*	specialized structures to take in food The amebae <i>Entamoeba</i> <i>histolytica</i> causes amebic dysentery	The apicom- plexan paraside <i>Babesia</i> affects the red blood cells of its host. It causes fever and anemia of immuno- compro- mised	The apicom- plexan parasite <i>Toxop-</i> <i>lasma</i> <i>gondii</i> is transm- itted by cats and causes fetal infections	The apicom parasite <i>Cry</i> <i>dium</i> is tran by feces an waterbone	<i>/ptospori-</i> smitted d causes	fluke (lung trematode) is a member of the Parag- onimus species species The blood flukes (blood trematode) are members of the Schis- tosoma species	liver fluke (Asian liver irematode) is known as <i>Clono-</i> rchis sinensis isnensis The trematodes are given common names according to the tissue of the definitive	Proglot- tids Phylum Pla inthes (flatt The trematodes are also known as the flukes The Parag- onimus
				people. It's transm- itted by an insect bite				The trematodes absorb food through their nonliving outer covering, which is called the cuticle	host that the adult trematodes live in Cestodes are intestinal parasites	species is known as the lung fluke The cestodes are known as the tapeworms

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Phylum Platyhelminthes	(flatw-	Characteristics of helminths		
orms) (cont) The body segments of the cestodes are called proglottids; the proglo-	ed cestode <i>Taenia</i> <i>solium</i> uses humans as a definitive host the cestodes produce cysticerci d in pigs	They might lack a digestive system	They have a reduced nervous system	
ttids have male and female reproductive organs		Their means of moving (locom- otion) are occasi- onally reduced or are completely lacking	The reproductive system is usually complex	
The cestodes that use humans as a definitive host produce eggs in the human, the eggs hatch in to larvae, and				
the larvae bore into the intestinal wall		Adult helminths	Dioecious adult helminths have	
When humans are the intermediate hosts for cestodes, humans ingest the eggs, and the eggs hatch in the intestine. The larvae migrate to the liver or	The cestode species <i>Echin-</i> <i>ococcus</i> <i>granul-</i> <i>osus</i>	life cycle can be dioecious or mono- ecious, or hermap- hroditic	male reproductive organs in one individual, and female reprod- uctive organs in another individual	
the lungs of the host and form a hydatid cyst	uses humans as an interm- ediate	Monoecious adult helminths have male and female reprod- uctive structures in the same individual		

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host

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