DM				
It risks	-inf			
Reason of inf risk	Patient-related factors -less systemic vascularity: ischemia & growth of anaerobics + less WBCs to that organ & dec their fun when they get there -peripheral sensory loss: minor traumas happen & manifistate to ulcers & feet inf -autonomic: Urine retention & stasis, risk for UTI -hyperglycemia: facilitates inf -immunity disturbance -postsurgery local inf: defects local immunity -hypercolonalization of skin&mucosa (where inj): asymptomatic, high risk of bacteremia Skin colonizators: S.aureus (specially MRSA type) Mucosal colonizators: non-C.albicans (in poorly controlled DM) "vaginal infl - vulvovaginitis" B-related factors (factors that B use with patients suffering from DM) -Candida albicans: glc help it to stick to vagina or buccal ep. "it very strongly sticks that it cant be phagocytosed" -Rhizopus: KB helps it to live in glc rich env. "it causes mucormycosis or zygomycosis"			
Commonly seen in DM	-URTI & LRTI (<u>most lethal</u>) -periodontal (oral) -abdominal -genitourinary (UTI) -skin & soft tissue (diabetic foot)			

URTI				
	-Rhinocerenral Mucormycosis			
Causers	-P.aeruginosa			
	ls	fungus		
	class	very dangerous		
	disease	mucormycosis		
Rhinocerenral	species	Rhizopus, Absidia, Mucor		
Mucormycosis	symptoms	facial&ocular pain, nasal stuffness, malaise, fever, intranasal black eschars, <u>necrotic turbinates</u>		
	Diagnosis	biopsy (seeing necrosis)		
	Treatment	surgical removal & prolonged IV Amphotericin B		
	Invasivion	Yes & malignant (from the external canal into mastoid & temporal bone, eventually reaching the whole skull base)		
	Disease	Otitis Externa		
P.aeruginosa	symptoms	Severe pain, otorrhea & hearing loss.		
	Invst	Intense cellulitis and edema of the ear canal.		
	Diagnosis	Radiology		
	Treatment	surgical removal & IV antipseudomonas (ceftazidime)		
		LRTI		
	Gram posit	ive: S.aureus & S.pneumoniae.		
Causers	Gram negative: Enterobacteria & Legionella.			
	Other : Influenza virus & TB			
Vaccinable	yes			
		Genitourinary		
Causers	Gram negative: rods & group B streptococci. Other: Candida albicans			
Symptoms	-symptoms	appear only if bacteruria is >10^5		
	- Cystitis (incomplete bladder emptying, risk for U-UTI like:			
Diseasos	Bilateral Pyelonephritis & Emphysematous Pyelonephritis;			
Diseases	"mainly targets diabetics 60%, with 30% fatality")			
	-Vulvovaginitis			
Diagnosis	Presence of:			
	-flank mass (gas in kidneys seen by CT)			
	-crepitus (pop-sound of joints & SC tissues)			
Treatment	IV antibiotio	cs & nephrectomy (if needed)		

Abdominal infections					
Causers	Enteric Gram negative bacteria and anaerobes				
	-Gall stone				
signs	-peritonitis				
	-Gas gangrene (perforation may occur)				
Diseases	Severe fulminant(sudden) Cholecystitis				
Treatment	Cholecystectomy & broad spectrum antibiotics				
Skin and soft tissue infections					
	-S.pyogenes	5			
Causers	-S.aureus				
	-CA-MRSA (Methicillin-resistant S. aureus)				
	is	deep infection of SC tissue with progressive			
		destruction of fascia, fat & muscle.			
	special	-group A strept.			
Disease	causers	-anaerobes S.aureus			
(Necrotizing	symptoms	-skin pain & anaesthesia of overlying skin			
fasciitis)		-Violaceous discloration of skin			
lasentisy		-bullae(like burn bubbles)			
		-crepitus			
		-soft tissue gas (seen in CT)			
	Treatment	aggressive surgical removal & IV antibiotics			

Diabetic foot				
Type of inf	soft tissue (Cellulitis: inf reaching inner layers of skin)			
Type of inf Causers	Cellulitis: -beta-hemolytic streotococci: group A & B -S.aureus -Enterobacteria: E.coli, Klebsiella, Proteus spp. (chronic ulcers) ulcer or nail injury -P.aeruginosa (sinuses causer) Deep soft tissue infections -group A strept -gas-producing gram positive bacilli: Clostridium Chronic Osteomyelitis -streotococci: group A & B -S.aureus -Enterobacteria: E.coli ,Proteus mirabilis , K.pneumoniae.			
	-Bacteroides fragilis			

	-chronic Osteomyelitis (bone inf)			
Complications	-gas gangrene -amputation -death.			
Degrees	Range from SF into Osteomyelitis			
Sings	-Sinus tracts within infected tissue			
Pathogen	Ischemia			
Osteomyelitis inf facilitators	 grossly visible bone (surgery) big & deep ulcers 			
	- ulcers staying for >2w			
	Cellulitis			
	-tender -erythematous -non-raised skin lesion			
	-lymphangitis (caused by group A strept)			
	-Bullae (caused by group A strept or S.aureus)			
	Deep soft tissue infections			
Symptoms	-acutely illness			
(pt might	-LL painful induration(hardness) <u>especially the thigh</u>			
have 1+)	-Wounds (caused by anaerobes)			
	Acute Osteomyelitis			
	pain at the involved bone -fever -adenopathy.			
	Chronic Osteomyelitis			
	-fever -foul discharge -pain (rare)			
	-deep penetrating ulcer -sinuses on foot planter surface			
	-evaluate the patient's vascualr and neurological status.			
.	-radiology (& gallium-67)			
Diagnosis	-ulcer examination determine depth & presence of sinus tract			
	-biopsy (culture)			
	-glc homeostasis & hydration			
	Mild cases			
	Surgical removal & Antobiotic therapy			
	(Cloxacillin, cephradine, clindamycin, aminoglycosides &			
Treatment	quinolones)			
	"for CA-MRSA use TMP-SMX"			
	Moderate & severe cases			
	Surgical removal & Antobiotic therapy			
	Amputation if needed			
	- Patient education (Proper foot care)			
Prevention	- diet low in fat and cholesterol			
Prevention	- control DM			
	- Self examination			