



SESSIONS ARE RECORDED

MINNESOTA ACADEMY OF FAMILY PHYSICIANS

MINNESOTA ACADEMY OF FAMILY PHYSICIANS

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YES, THERE'S FREE CME

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Minnesota Medical Association (MMA) through the joint providership of Stratis Health and the Minnesota Academy of Family Physicians. **Stratis Health is accredited by the MMA to provide continuing medical education for physicians.**

Stratis Health designates this educational activity for a maximum of 1 *AMA PRA Category 1 Credits*™.

Physicians should claim credit commensurate with the extent of their participation in the activity.

Continuing Education Credits and Contact Hours for Other Health Professionals

The OUD Education and Treatment ECHO Series may meet continuing education requirements for your focus. It is the responsibility of the individual to determine if this activity fulfills that requirement.

Attendance

- Please chat us the names of people on ECHO if there are multiple people in your room!
- "Re-name" your self so we know who's here!
- Please turn your video on!
 - Human connection!
 - And we do NOT care if you are eating!

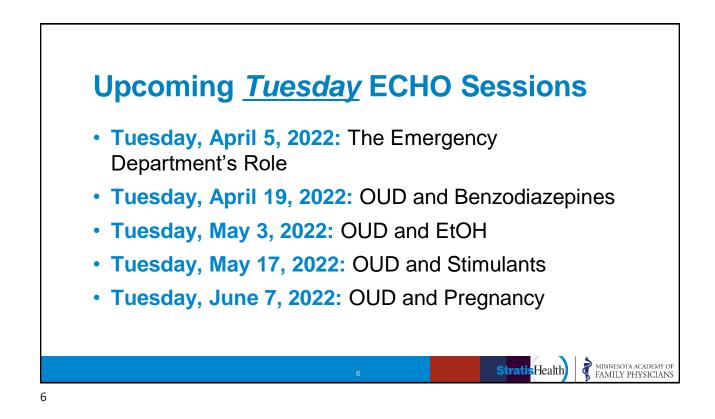


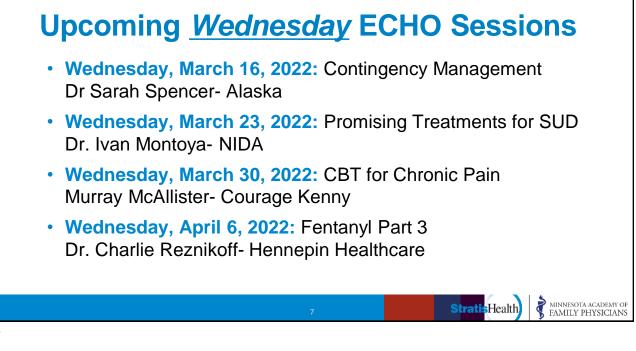
Case Presentations!

The ECHO model is based on case-based learning! The case presentation form is on the MAFP website and also on the announcements email! ***BUT feel free to present in any de-identified format!***



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"The Addiction Connection Podcast"

Weekly addiction topics- Tuesday release day!

www.buzzsprout.com/954034

(Or anywhere you get your podcasts!) Email us questions: theaddictionconnectionpodcast@gmail.com

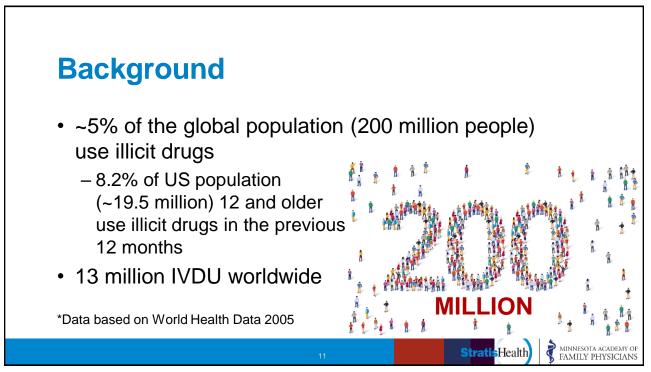






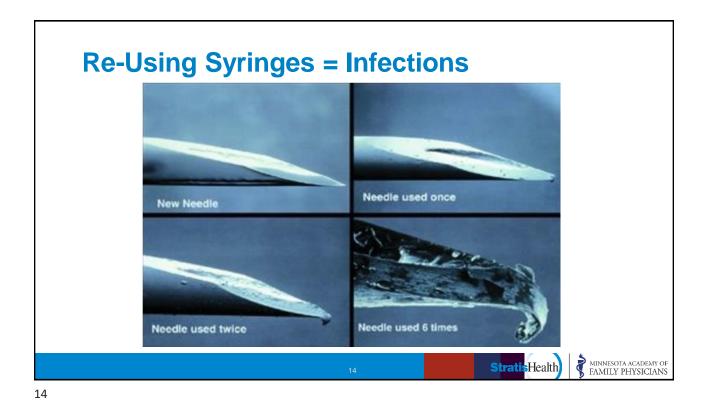
- Identify multiple ways that patients who inject drugs increase their risk of many infections.
- Understand the significant burden of Hepatitis C in patients who inject drugs.
- List the different types of superficial infections related to injecting drugs and which are most common.
- Analyze the harm reduction techniques that can be used to mitigate risks of bacterial and viral infections

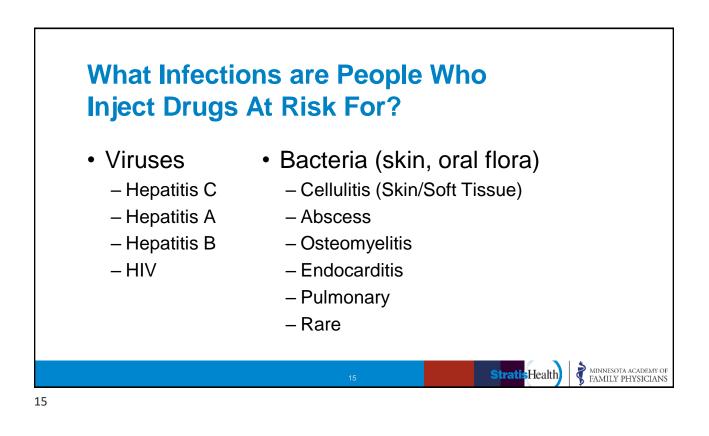


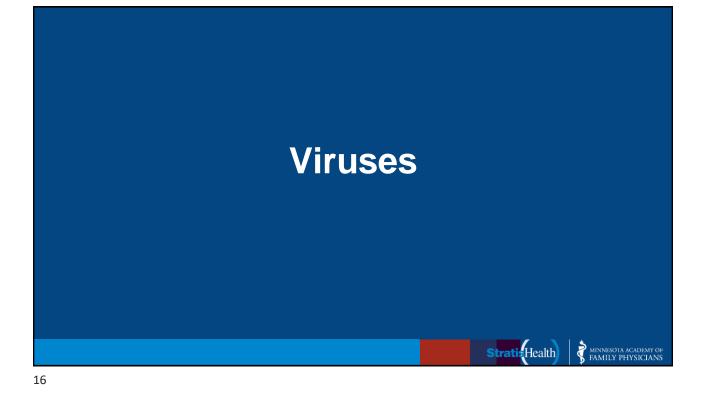


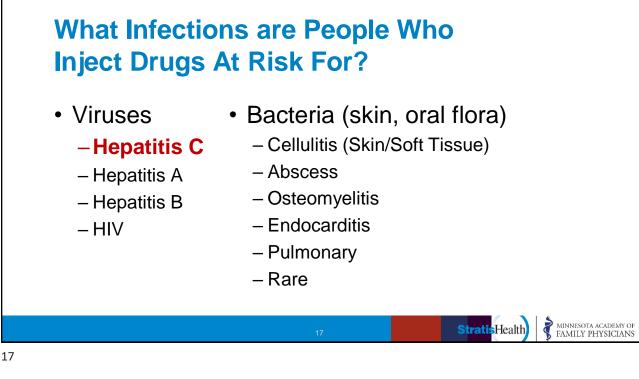


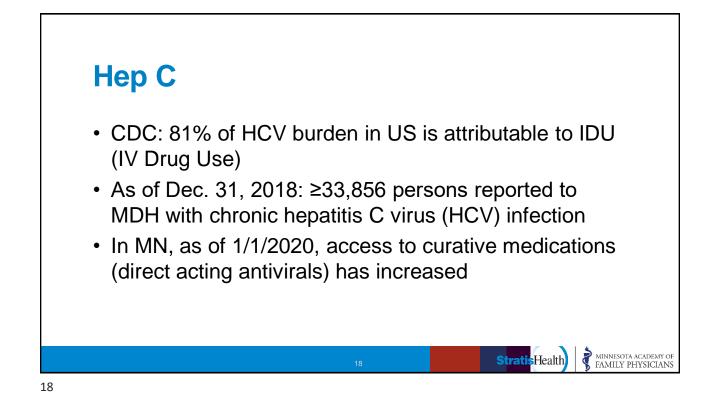
The Injection Process · Lack of any of the following can lead to infections: - Clean surface - Wash hands - Mix drug ("cooking") - Draw through filter (also called a rinse) · Don't share rinses · Discuss risk of re-using - Find site, clean skin - Tourniquet - Inject (don't lick needle!) - Band-aid MINNESOTA ACADEMY OF FAMILY PHYSICIANS **Stratis**Health

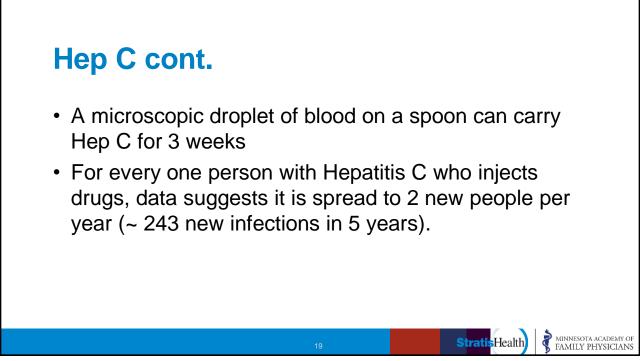


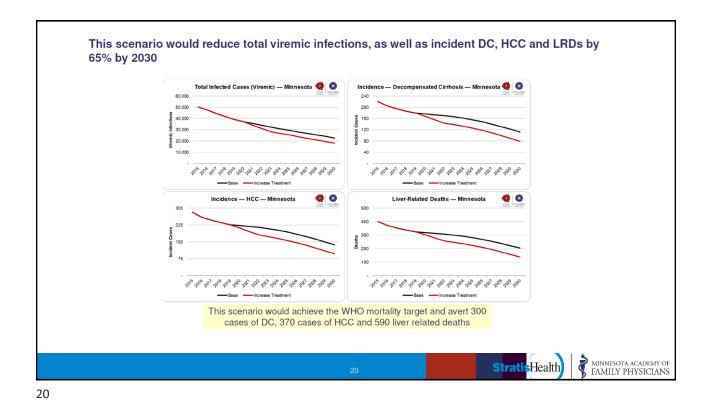


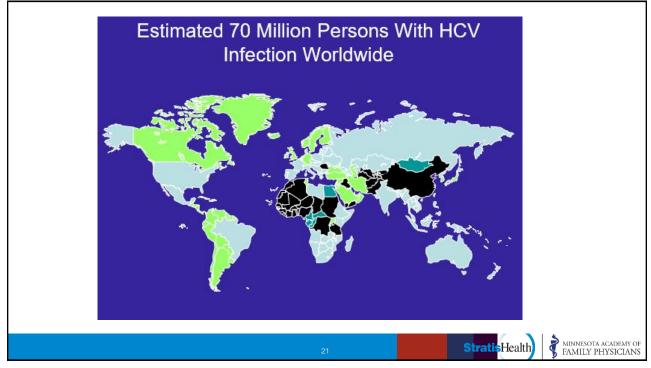


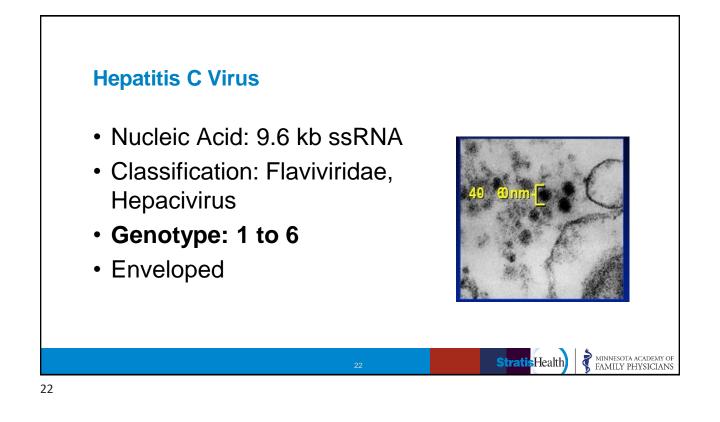


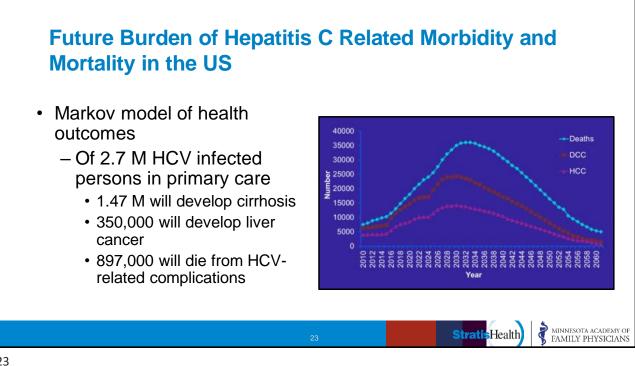


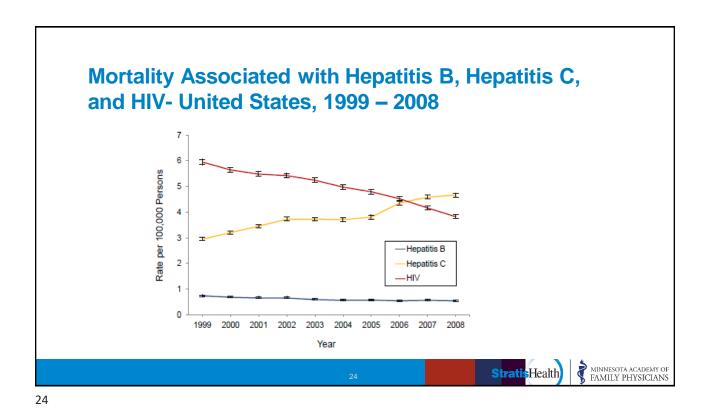


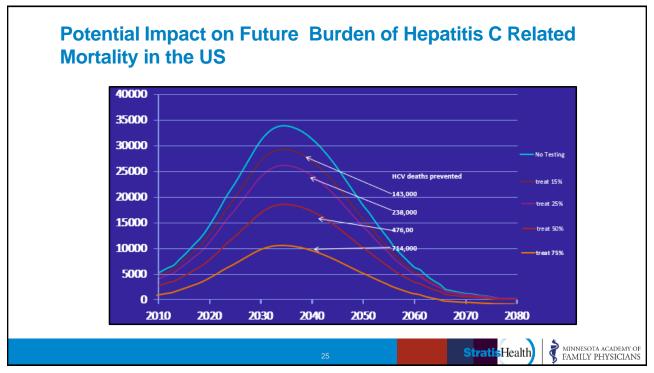


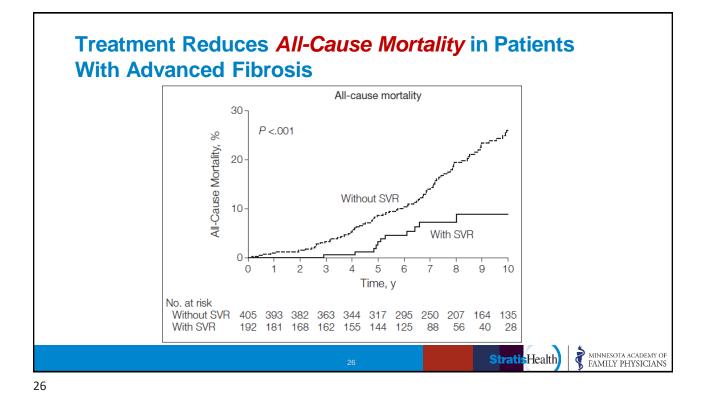


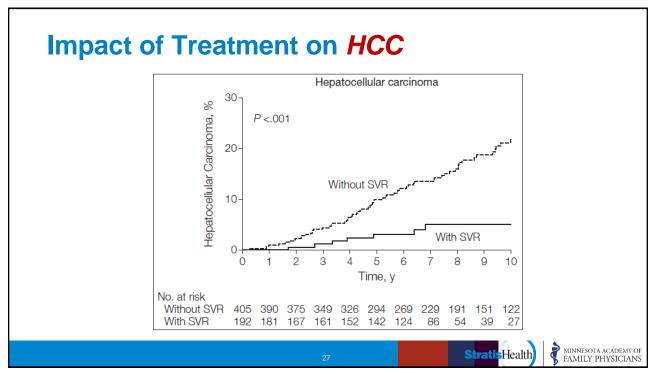


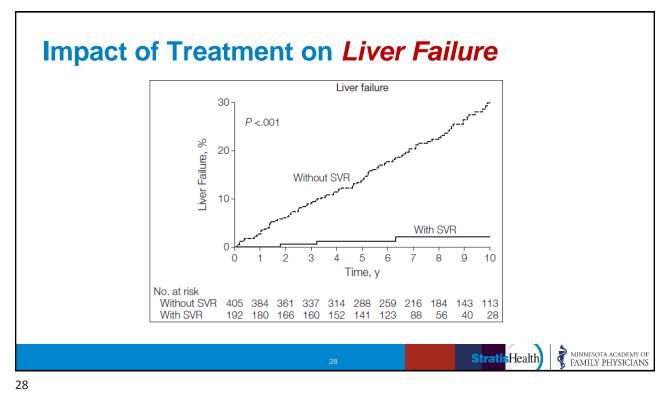












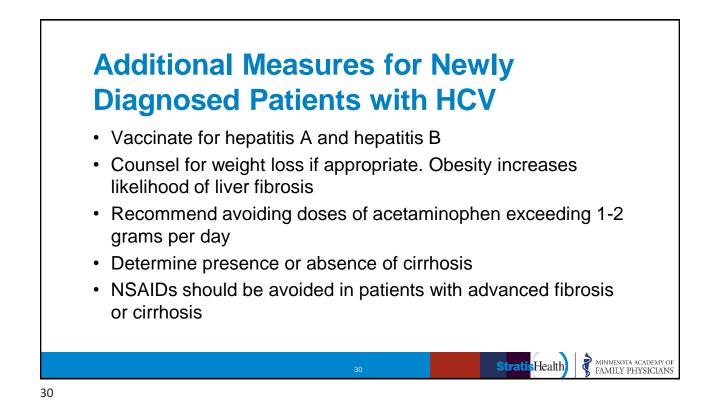
Approach to the Patient with Newly Diagnosed HCV

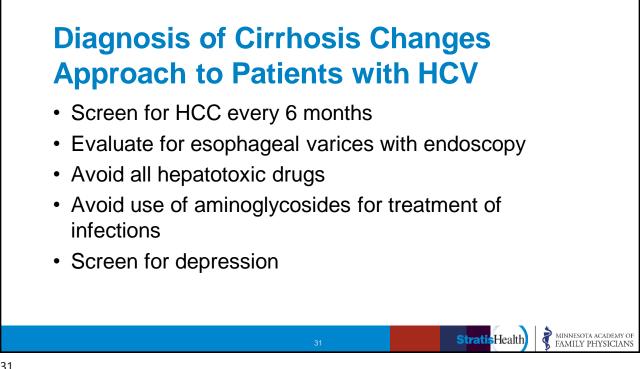
- · Patients need to be educated on
 - The natural history of disease
 - Modes of transmission of
 - How to avoid transmission to family members
 - The availability of effective treatment
 - The promise of new highly effective and safe interferon free treatments in the near future

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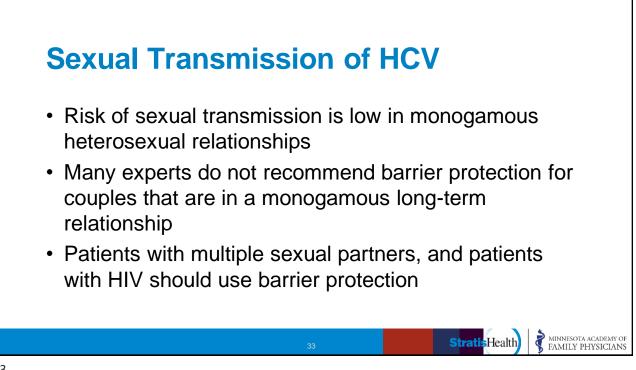
Measures to Avoid Transmission of Hepatitis C

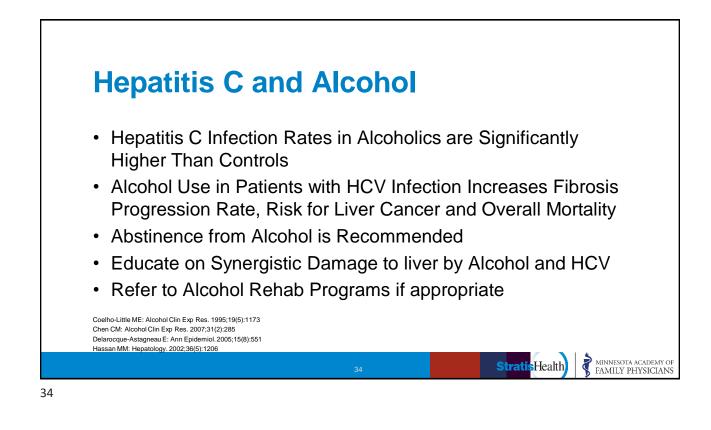
- · Avoid sharing razors or toothbrushes
- Cover bleeding wounds
- Stop injection drug use
- · Advise not to share needles and paraphernalia
- Advise not to donate blood, organs, tissue or semen

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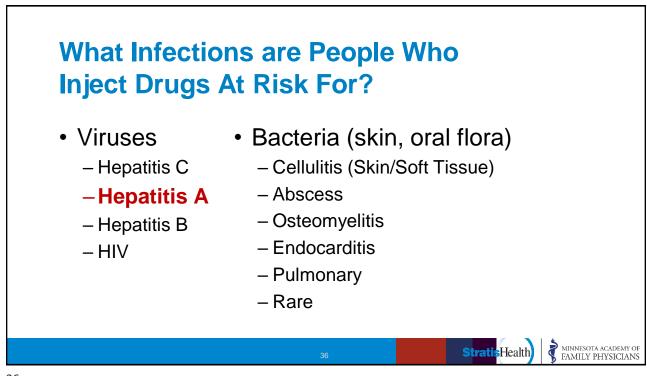




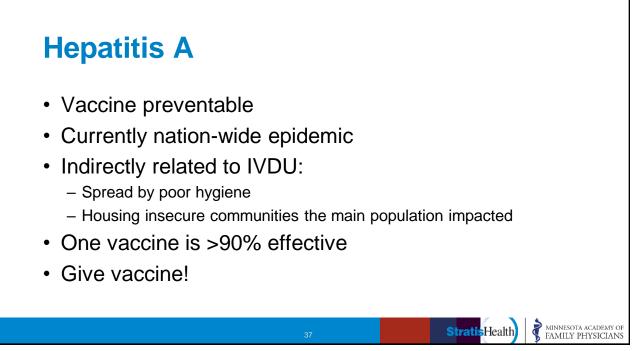


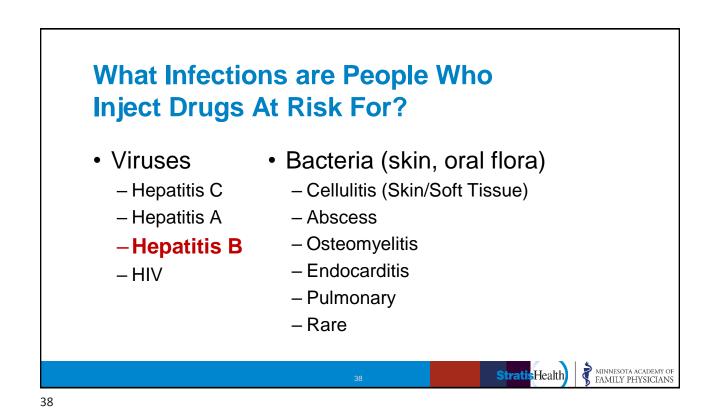
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University of BRISTOL				ograms and Opioid Transmission	
Rederances Rederances Rederances Marine and the second	- 0.387)	PARE (09% C1) 0 de (0.5% C1)	54 Weight 33.88 32.97 718.37 719.37 7	Current OST 12 studies: 6361 participants 1030 HCV cases 50% reduction in HCV	
Reference - - - - - - - - - - - - -		RR (95% CI) 0.63 (0.37, 1.07) 0.77 (0.02, 1.54) 0.24 (0.10, 0.59) 0.15 (0.06, 0.40) 0.29 (0.13, 0.65)	% Weight 35.79 10.33 27.85 26.03 100.00	Little heterogeneity <u>High NSP with OST</u> 4 studies 3356 participants 518 HCV cases	
NOTE: Weights are from	n random effects analysis	5		71% reduction in HCV moderate heterogeneity	
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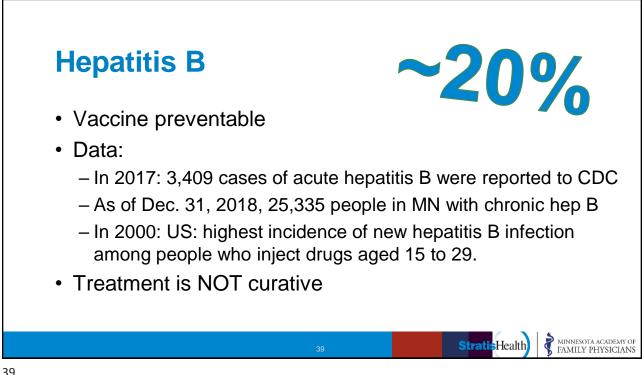
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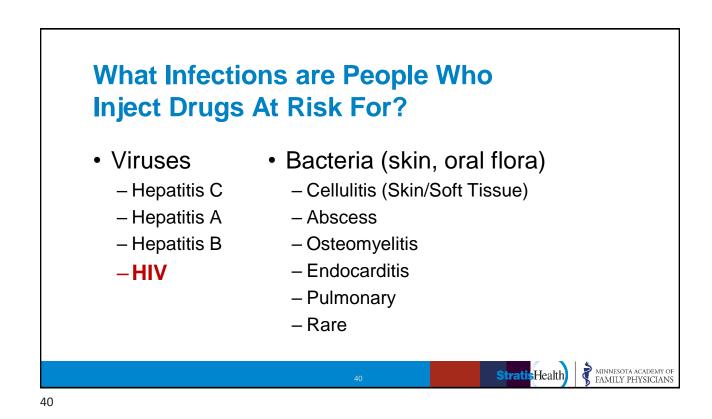


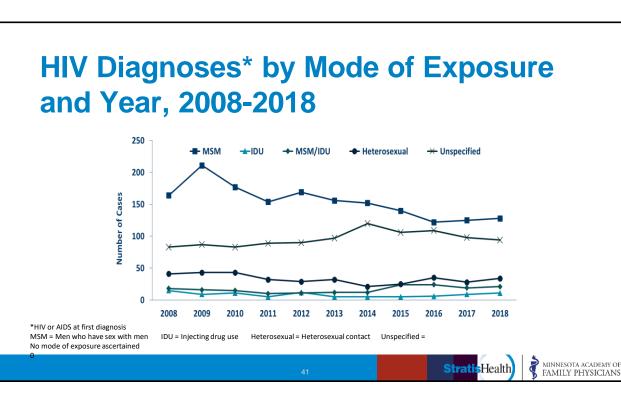












HIV- Number of Cases (per 100,000 persons) of HIV **Diagnosis by Race/Ethnicity & Mode of Exposure** Minnesota 2018

Total Mode of Exposure	(emti	PrEP for ANYONE AT RISK! TRUVADA (emtricitabine/tenofovir disoproxil fumarate)			
MSM		128	45%		
IDU		11	4%		
MSM/IDU		21	7%		
Heterosexual		34	12%	Ī	
Perinatal		1	0%		
Other		0	0%		
Unspecified		91	32%		
Total		286	100%		



Synthetic Opioid Crisis: Fentanyl leads to more withdrawal frequency. Hence, more injection use =

Higher Bacterial Burden

What Infections are People Who Inject Drugs At Risk For?

• Viruses

-HIV

– Hepatitis C

- Hepatitis A

– Hepatitis B

• Bacteria (skin, oral flora)

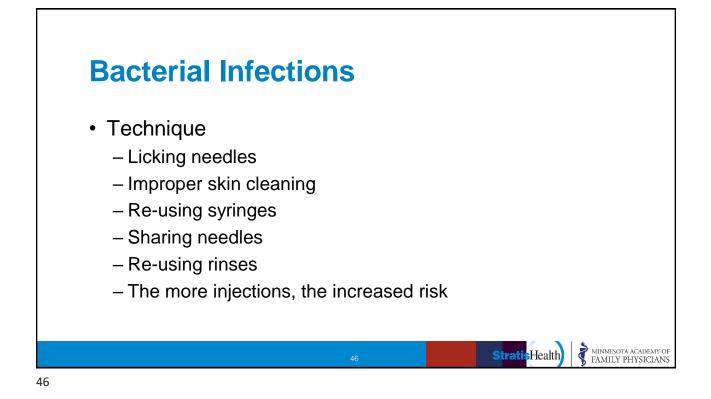
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- Cellulitis (Skin/Soft Tissue)
- Abscess
- Osteomyelitis
- Endocarditis
- Pulmonary
- Rare



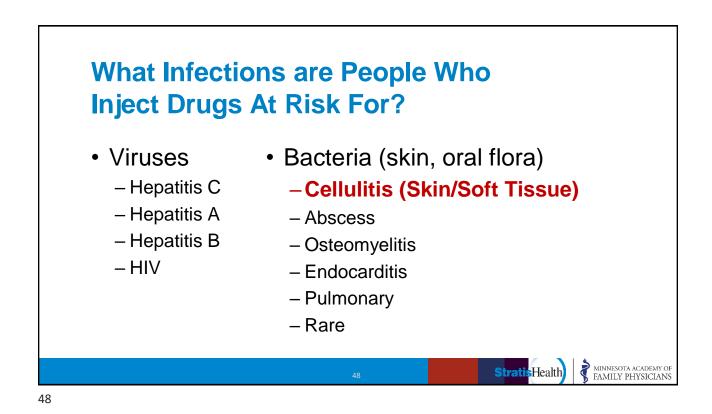


Background - Bacterial

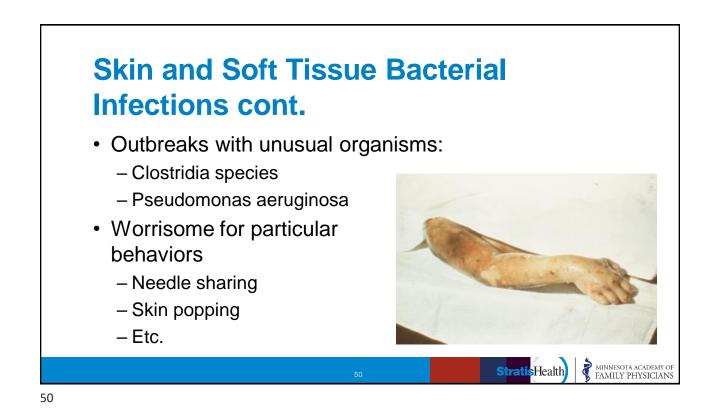
- 21-32% of active IVDUs (in several studies) have current skin infection
- ~70% have a lifetime history of past infection
- Most common: abscess, cellulitis, or both
- Amsterdam study: 1 abscess per 3 years of injection-drug use



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Skin and Soft Tissue Bacterial Infections Am J Drug Alcohol Abuse Study (2010)

- Phillips KT, Stein MD
- · Objective: Rates of bacterial infections among IDUs in Denver, CO
- 51 active heroin, cocaine and methamphetamine IDUs (over 18 years)
 - 60 min interview, \$20 reimbursement
 - Averaged 39.2 years (SD 9.7)
 - 17 (33%) female
 - 57% homeless or in transient housing in last 3 months
 - 62.7% only heroin/49% only cocaine/33.3% speedball/37.3% only meth
 - 75% black tar heroin
 - 49% antecubital fossa (hand>upper arm>forearm>leg>groin>shoulder>neck)

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Skin and Soft Tissue Bacterial Infections Am J Drug Alcohol Abuse Study cont.

- Results:
 - 55% lifetime history of at least 1 skin infection
 - 29% infection in last year
 - If infection in last year, significantly more likely to inject IM (OR = 1.57) and greater heroin injection frequency
 - Heroin and speedball injectors: higher number past abscess compared to meth and cocaine
 - 57% HCV +, 2% HIV +
 - Other infections: endocarditis (11.8%), sepsis (9.8%), Necrotizing fasciitis (3.9%), wound botulism (3.9%) (other: septic arthritis, tetanus, osteomyelitis)



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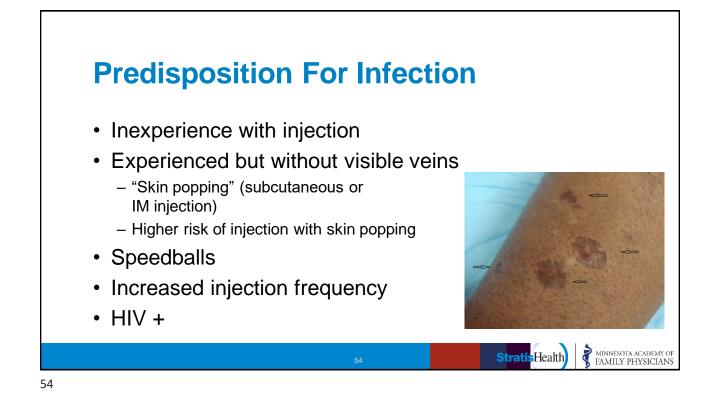
Skin and Soft Tissue Bacterial Infections Am J Drug Alcohol Abuse Study cont.

- Take Home:
 - Increased access to risk(harm) reduction services to decrease rates
 - I.e., Needle exchange
 - HIV/HCV treatment access



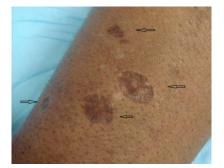
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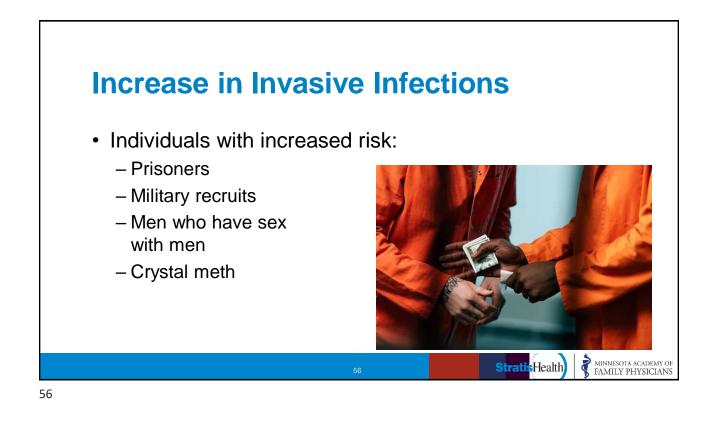


Predisposition For Infection cont.

- · Shared or re-used needles
- Failure to clean skin
- "Booting": repeatedly flushing and pulling back during injection
- Sharing drug paraphernalia
- Drug adulterants (Spores and more when "cut")
- Drug preparation: saliva, solubilizing



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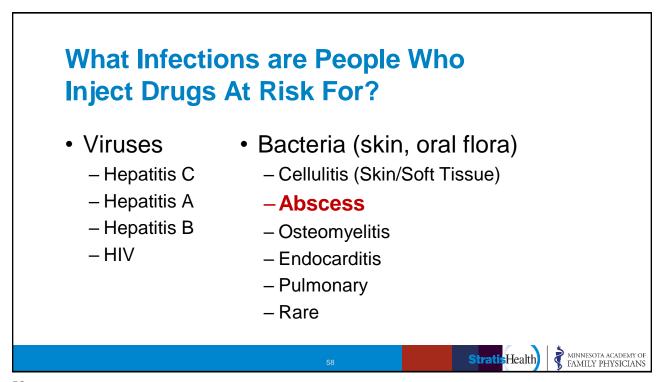


Most Common Types of [Superficial] Infections

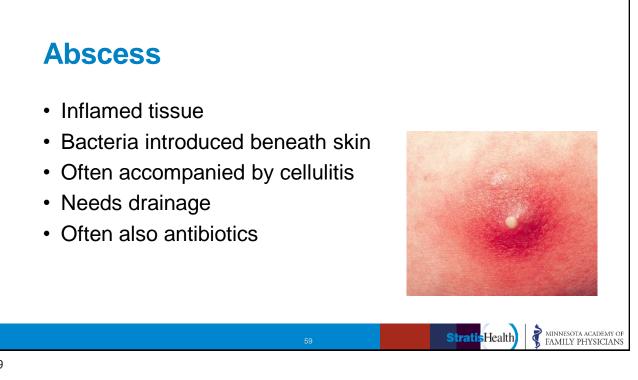
- Cellulitis
- Abscesses
- · Boils (hair follicles)
- Carbuncles (large abscess, several "heads")
- Impetigo
- Styes



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MRSA

- Typically appear similar to other abscesses
- · Often confused with spider bites
- More common in:
 - History of MRSA
 - High-risk living situations
 - Not responding to common antibiotics



Group A Strep

- Typically throat and skin
- 15% population carriers
- · Mild to severe infections
- Severe/invasive
 - Reportable
 - Necrotizing fasciitis, toxic shock, sepsis, pneumonia



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Strep Toxic Shock Syndrome Life threatening Injury to major organs with quick shut down Vague symptoms: flu-like, muscle aches, diarrhea, vomiting, confusion, coma Fever, low BP, possible rash MINNESOTA ACADEMY OF FAMILY PHYSICIANS Stratis Health 63

Skin and Soft-Tissue Infections -Treatment

- Uncomplicated:
 - Antibiotic therapy to cover S. aureus and streptococci
 - MRSA if history or colonization
- Complicated:
 - IV antibiotics
 - Necrotizing fasciitis, abscess or pyomyositis:
 - · Also cover gram-negative and anaerobic
 - · Urgent surgical consult
- 10 days- 6 weeks

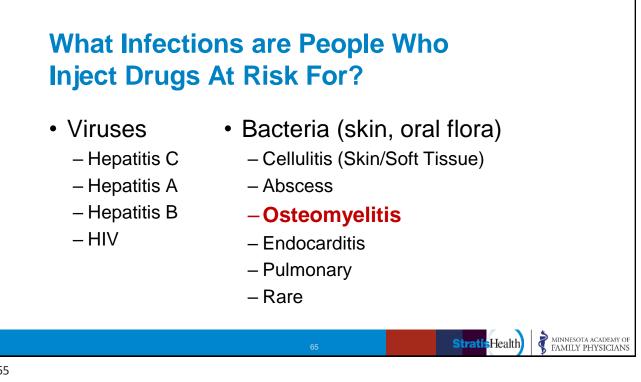


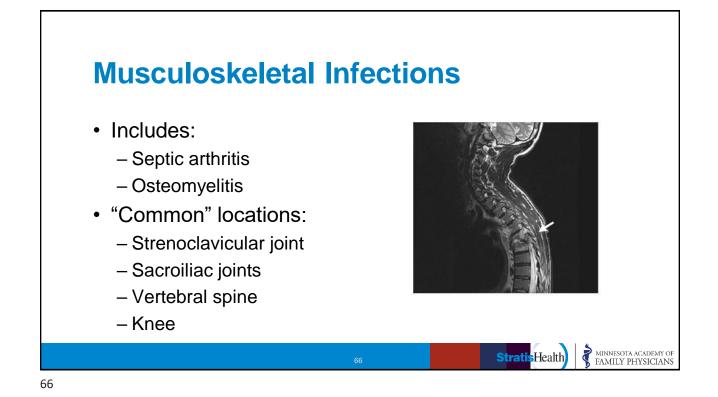
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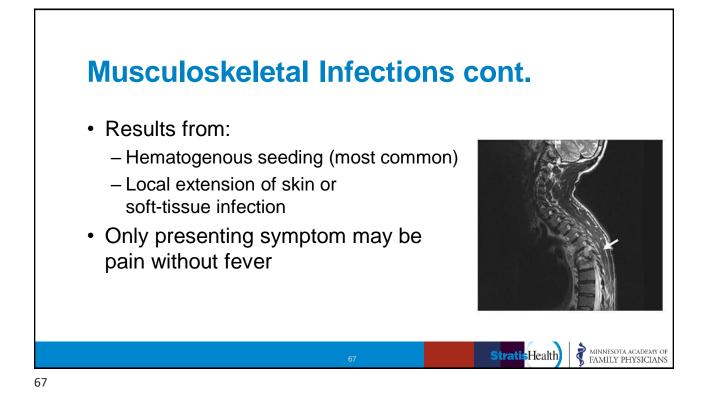
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If bacteremia with S. aureus- >2 weeks of IV therapy and receive an ECHO









Musculoskeletal Infections

- "High-risk" injection sites
 - Jugular vein ("pocket shot")
 - Femoral vein ("groin hit")
- Agent:
 - Polymicrobial
 - Anaerobic
 - * Especially if contaminated with saliva

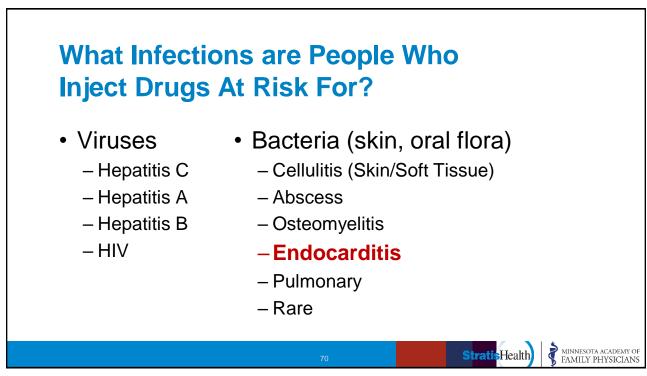


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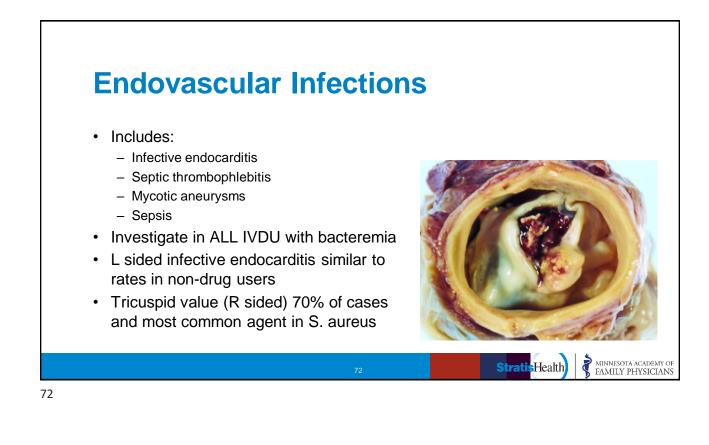
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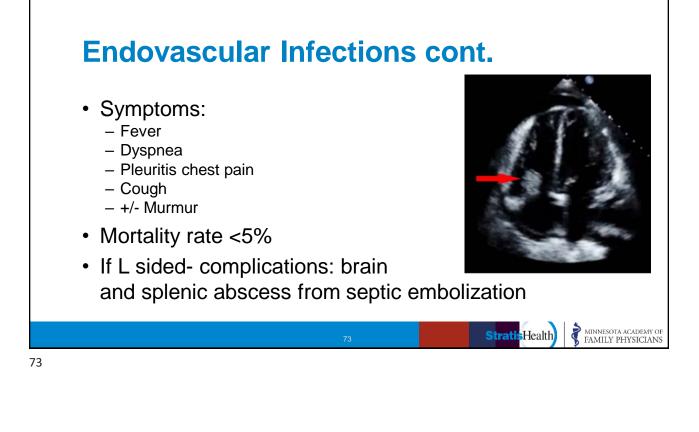
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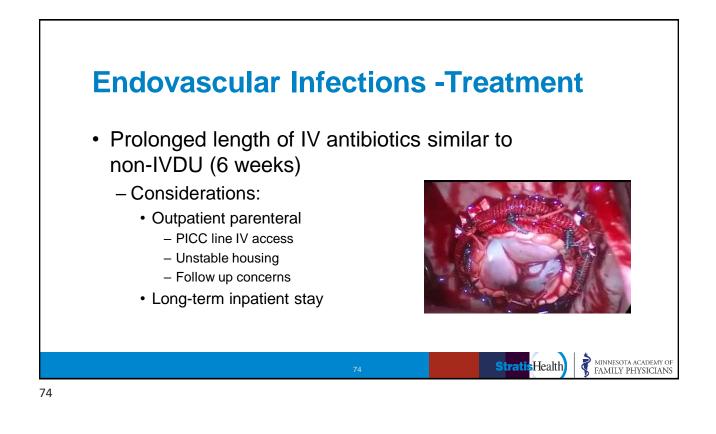
Clinical Scenario	Selected Diagnostic Tests	Empirical Treatment Options†		
		Oral	Parenteral	
Skin or soft-tissue infection in which <i>S. aureus</i> is a likely pathogen	Send drainage for Gram's staining, culture, and susceptibility testing.	Incision and drainage plus wound care may suffice for un- complicated abscesses		
		For methicillin-susceptible S. <i>aureus</i> : dicloxacillin or cephalexin,‡ 500 mg every 6 hr	For methicillin-susceptible S. <i>aureus</i> : nafcillin or ox- acillin, 1–2 g every 4–6 hr; cefazolin,‡ 1–2 g ev- ery 8 hr	
		If MRSA suspected: TMP-SMX.; 6-10 mg/kg of body weight/day (TMP) in divided doses given every 8-12 hr; clin- damycin.§ 300 mg every 6 hr or 450 mg every 8 hr; doxycycline or minocy- cline, 100 mg every 12 hr; linezolid, 600 mg every 12 hr	If MRSA suspected: vancomycin,‡ 15 mg/kg every 12 hr; teicopla- nin,‡¶ 6 mg/kg every 12 hr for 3 doses, then 6 mg/kg every 24 hr; linezolid, 600 mg every 12 hr; daptomycin,‡ 4 mg/kg every 24 hr	
nfections in which oral con- tamination is suspected, including skin or soft-tis- sue and skeletal infec- tions (septic arthritis and bursitis, tenosynovitis, and osteomyelitis)	Send specimens for Gram's staining, culture, and susceptibility testing. Consider imaging to di- agnose or define deep- seated infections. A bone biopsy is important when osteomyelitis is suspected regardless of whether blood-culture results are positive. Specimens for anaero- bic culture require spe- cial handling.	Incision and drainage when a Amoxicillin-clavulanate.‡ 875 mg every 12 hr; For serious penicillin allergy; clindamycin and quino- lone (dose and route based on type and sever- ity of infection)	ppropriate; wound care Ampicillin-sulbactam,‡ 1.5–3.0 g every 6 hr, plus gentamicin,‡ 1.5–2.0 mg/kg every 8 hr for seri- ous or complicated in- fections; piperacillin- tazobactam,‡ 3.375 g ev- ery 4–6 hr or 4.5 g every 6–8 hr; ticarcillin-clavu- lanate,‡ 3.1 g every 4–6 hr; cefepime,‡ 1–2 g every 12 hr; For osteomyellits, serious infections, and possible MRSA infection, add vancomycint\$ or teico-	 MISA deroites methicillin ensistant 5, auroa, TMP-SMX trimethoptim-sallamethoazaole, AFB accid fast BPR rapid plasma regativ. VDRI, Veneral Danasa Resarch Laborator, FTA-MAS fluoresterie tropomal Through values displated and the base of the culture regula and anticotic successfulles. The data mush be adjusted in plasma with reduced containing database successfulles. The data mush be adjusted in plasma with reduced containing transmission and successfulles. The data mush adjusted in plasma with reduced containing database successfulles. The data mush adjusted in plasma with reduced bases. The data plasma successfulles for faure to six weshs. Badabase rai uti powde specific recommendations.



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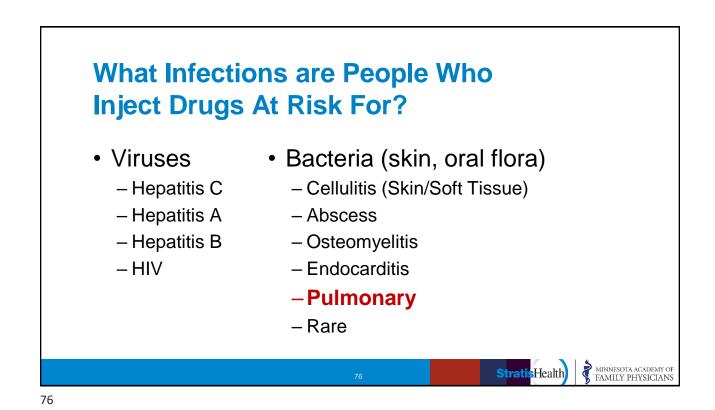
Endovascular Infections-Treatment cont.

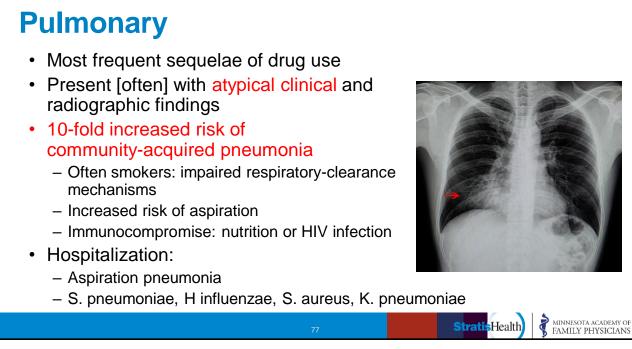
- Short-course
 - · 2-4 weeks IV in combination with oral
 - R sided due to MSSA
- Acute surgery
 - Generally not advisable due to prosthetic value infection
 - 41% survival at 10 years



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Pulmonary cont.

- Ask about history of: TB, HIV, risk for aspiration
 - Atypical presentation of TB with HIV:
 - Without cavitary lesion
 - Negative test (purified-protein-derivative)
 - Hilar or mediastinal lymphadenopathy may be only finding
- Pneumocystis pneumonia: can uncover HIV
- Septic pulmonary emboli from endovascular infections



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Pulmonary-Treatment

- Broad spectrum and hospitalization if any suspicion for IVDU and "ill-appearing"
- Isolation of organism from blood or sputum
- May need prolonged course ~4 weeks
- Empirical treatment for lung abscess to cover S. aureus, Gram-negative bacteria, and anaerobes



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Acute right-sided infective endocarditis	Diagnosis is based on the modified Duke criteria. ⁷¹ Culture of multiple blood specimens before the initiation of antibiotic therapy is the optimal approach.	Vancomycin, ‡ 15 mg/kg IV every 12 hr (or teicoplanin, ‡¶ 12 mg/kg every 12 hr for 3 doses, then 12 mg/kg every 24 hr), blus gentamicin, 1 mg/kg every 8 hr or consid- er nafcillin or oxacillin, 2 g IV every 4 hr, plus gentami- cin, 1 mg/kg every 8 hr, if MRSA not present in the community; consider broadening coverage (pseudomonal, gram-negative, or fungal antibiotics) on the basis of patient trik factors]	2 mg/kg every blus gentami- sent in the ge antibiotics) imonia: ceftri- hycin, 500 mg one** 300–900 mg IV SMX.\$ 15–20 doses every t findex.html r E). 1 vial, alth authority; hr n tetanus im- dazole, 500 mg robial): ons; ampicil- ncomycin,\$ ¶)↑↑ Fublic health
Pulmonary infection (com- munity-acquired pneu- monia and aspiration pneumonia, pulmonary tuberculosis, and other opportunistic patho- gens) in drug users, in- cluding those with HIV or AIDS or risk factors for HIV infection	Radiographic imaging: Gram's and AFB staining of sputum and cultures of sputum and blood. Bronchoscopy may be needed to diagnose pneumocystis pneu- monia. In certain cases, performing a PPD test or checking for <i>Streptococcus pneu- moniae</i> and legionella urinary antigens may be useful.	Hospitalized with community-acquired pneumonia: ceftri- axone, 1–2 g IV every 24 hr, and azithromycin, 500 mg IV every 24 hr or respiratory fluoroquinolone** Aspiration pneumonia likely: clindamycin, 600–900 mg IV every 8 hr Pneumocystis pneumonia suspected: TMP–SMX.; 15–20 mg/kg/day (TMP dose), given in divided doses every 6–8 hr (with or without corticosteroids) For tuberculosis, see treatment guidelines at www.thoracic.org or www.who.int/tb/en/index.html	
Presentation involving sep- tic or neurologic findings of unknown cause with or without skin or soft- tissue infection	Gram's staining, culture, and susceptibility testing should be done if appli- cable.	For botulism: trivalent antitoxin (type A, B, or E), 1 vial, available from the appropriate public health authority; and penicillin G, ≵ 3 million U IV every 6 hr For tetanus-prone wounds or tetanus: human tetanus im- mune globulin and tetanus toxoid; metronidazole, 500 mg orally or IV every 8 hr For other clostridia species (may be polymicrobial): debridement of skin or soft-tissue infections; ampicil- lin-sulbactam,≵ 3 g IV every 6 hr plus vancomycin,≵ 15 mg/kg IV every 12 hr	
Sexually transmitted infec- tions	Examination and workup are conducted according to local health department guidelines. RPR and VDRL tests may be false positive; confirm results with FTA-ABS test.	Follow CDC treatment guidelines or those of public health authorities (available at www.who.int/topics/ sexually_transmitted_infections/en/)	

What Infections are People Who **Inject Drugs At Risk For?** Viruses Bacteria (skin, oral flora) – Hepatitis C - Cellulitis (Skin/Soft Tissue) – Hepatitis A - Abscess – Hepatitis B - Osteomyelitis -HIV- Endocarditis - Pulmonary -Rare MINNESOTA ACADEMY OF FAMILY PHYSICIANS **Stratis**Health

Rare(r) Infections Tetanus - IVDU accounted for 19 of 130 cases (1998-2000)- 15% - Contamination of drugs with Clostridium tetani Often in clusters Necrotizing fasciitis - With toxic shock syndrome - In 2000: 88 users in England, Scotland and Ireland hospitalized and more than 30 died - C sordellii, C novyi, C perfringens MINNESOTA ACADEMY OF FAMILY PHYSICIANS **Stratis**Health 83

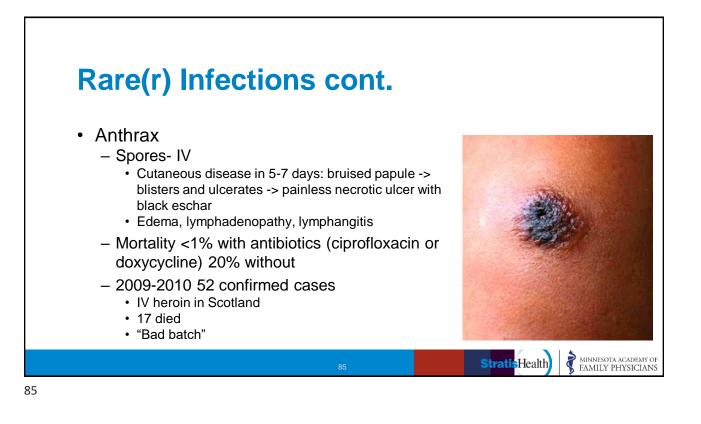
Rare(r) Infections cont.

- Clostridial
 - Black-tar heroin (Mexico)
 - Often with skin popping
 - Epidemic wound botulism in California in 1990s
 - Typical presentation of tetanus (C. botulinum)
 - Descending symmetrical flaccid paralysis, cranial nerve palsies, dysphagia, dysarthria
 - Unusual presentation similar to toxic shock syndrome (C.sordellii)
 - May masquerade as intoxication (slurred speech)
 - Treatment with antitoxin, wound debridement, antibiotics, supportive

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Rare(r) Infections cont.

- Anthrax
 - Inhalation
 - Hemorrhagic mediastinitis
 - · Prodrome: fever, cough, dyspnea
 - · Rapidly fulminant bacteraemic phase
 - · Respiratory failure, shock and death within 5 days
 - · Antibiotics during prodromal phase
 - · Fulminant almost always fatal



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• CXR: widening of mediastinum, +/- pleural effusions, hilar abnormalities, pulmonary infiltrates and consolidations







- Hand hygiene
- Safer injection
 - Hand washing before
 - Cleanse injection site
 - Inject IV only
 - Pre-mixing
 - Avoid infected areas



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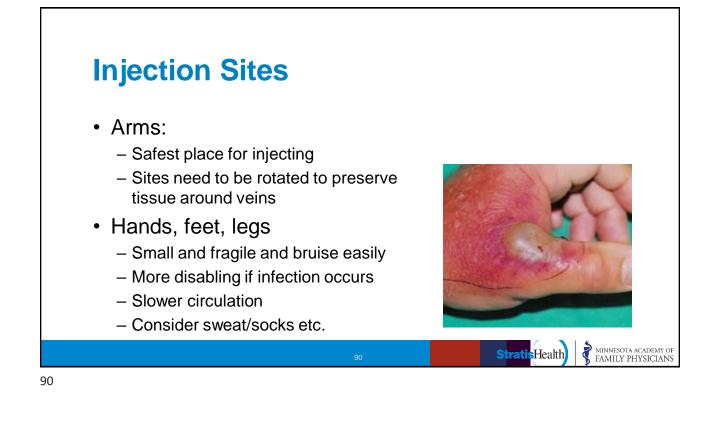
Prevention cont.

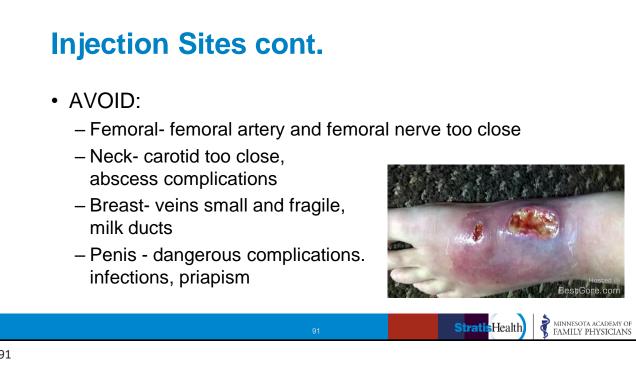
- Avoid
 - Sharing any equipment
 - Licking the needle
 - Re-using a filter
 - Sipping water from the spoon
 - Touching the needle with fingers



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Harm Reduction

Harm Reduction

- Needle exchanges
- Supervised injection facilities
- Injection practices:
 - Boiling the drug
 - Cleaning skin with alcohol
 - Bleaching paraphernalia
 - Avoid sharing
- Co-occurring high risk behaviors: ٠
 - Unprotected sex, multiple partners etc.
 - Vaccinate where able



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