	Routine Antibiotic Prophylaxis			
IR Procedure		Suggested Antibiotic Regimens	Alternative Antibiotic Regimens	Comments
Implanted central venous access ports	TRA uses antibiotics for ports	1–2 g cefazolin IV	Vancomycin recommended in penicillin-allergic patients	N/A
Tunneled dialysis catheters	Yes, including exchanges	1–2 g cefazolin IV	Vancomycin recommended in penicillin-allergic patients	N/A
Other central venous access catheters, including nontunneled hemodialysis catheters	No, except in high-risk patients, including immunocompromise	High-risk Infection Patients: 1–2 g cefazolin IV	Vancomycin recommended in penicillin-allergic patients	N/A Antibiotics should cover anticipated
		One of folloing single agent: meropenem, imipenem/cilastatin,	Metronidazole in combination with ciprofloxacin, levofloxacin,	organisms for empiric treatment and then be
Percutaneous abscess drainage PleurX Catheter	Yes if not already on antibiotics May consider, yes	doripenem, piperacillin/ tazobactam 1–2 g cefazolin IV	ceftazidime, ampicillin, sulbactam, or cefepime Vancomycin can be considered in patients with penicillin allergy	adjusted for final culture results
Percutaneous transhepatic biliary drain and cholecystostomy placement	Yes for new placement and	1st: 1 g ceftriaxone IV	2nd: 1.5–3 g ampicillin/ sulbactam IV; 3rd: 1 g cetotetan IV plus 4 g meziocillin IV; 4th: 2 g ampicillin IV plus 1.5 mg/kg gentamicin IV. Vancomycin or clindamycin, gentamycin recommended for penicillin- allergic patients	
Percutaneous nephrostomy placement	Yes except in routine catheter exchange for <u>low-risk patients</u>	1st: 1–2 g ceftriaxone IV single dose	Vancomycin recommended in penicillin-allergic patients	Patients with indwelling ureteral catheters, ureteroileal anastomosis should be considered high risk Patients with indwelling ureteral catheters,
Percutaneous nephrostomy Exchange	Yes for high risk patients	1st: 1–2 g ceftriaxone IV single dose	2nd: 1.5–3 g ampicillin/sulbactam IV every 6 h + 5 mg/kg gentamycin IV single dose. Vancomycin recommended in penicillin-allergic patients	ureteroileal anastomosis should be considered high risk
Gastrostomy tube placement	Yes for push and pull type	1–2 g cefazolin IV	Vancomycin or clindamycin-gentamycin is recommended for penicillin- allergic	Special consideration: 1–2 g cefazolin IV pre- procedure for push-type gastrostomies in patients with head and neck cancer
Percutaneous vertebral body augmentation	Yes	1–2 g cefazolin IV	Vancomycin recommended in penicillin-allergic patients	Vancomycin recommended in penicillin- allergic patients
TIPS	Yes	1st: 1 g ceftriaxone IV	2nd: 1.5–3 g ampicillin/ sulbactam	Vancomycin or clindamycin/ gentamycin recommended for penicillin-allergic patients
Uterine artery embolization	Yes	1–2 g cefazolin IV	Cefazolin Allergy: 1st: 900 mg clindamycin IV + 1.5 mg/kg gentamicin; 2nd: 2 g ampicillin IV; 3rd: 1.5-3 g ampicillin/ sulbactam IV; 4th: 100 mg doxycycline twice daily for 7 d (in women with hydrosalpinx)	
Hepatic embolization and chemoembolization		With competent sphincter of Oddi: 1st: 1.5–3 g ampicillin/ sulbactam IV (hepatic chemoembolization) With incompetent sphincter of Oddi: 1st: oral moxifloxacin 400 mg/d begining: 3 d before and continuing for 17 d postprocedure	metronidazole IV (hepatic chemoembolization); 3rd: 2 g ampicilin V + 1.5 mg/kg gentamicn (hepatic chemoembolization), 4tt: g g cefritoxone VV (hepatic chemoembolization) with in competent sphincher of odda iz-di: levoflozation; 500 mg/d + metronidazole 500 mg twice daily beginning 2 wk after 1 g + erythromych lase J g carlly at 12, and 11 PM the day before chemoembolization and 1 g ceftrixanone IV preprocedure; 3rd: 15–3 g ampicilini/subacharg IV, 4th reg. Certaonin IV, 4th: -2 g certaolin IV with 500 mg metronidazole IV preprocedure followed by amoxicillin/davulanic acid for 5 d postickarge	
Trepart emporization and trememourization	Yes, especially in high risk	Ingo degnining o devolve and cohinking for 17 d pospicietade Dowrisk padients: 1–2 g cefazolin IV High risk patients: 1st: oral levofloxacin 500 mg/d + oral metronidazole 500 mg twice daily beginning 2 d before and continuing for 14 d after ablation + neomycin 1 g and erythromycin base 1 g orally at 1, 2, and 11 PM on the day before ablation	High risk patients: 2nd: 1.5 g ampicillin/sulbactam IV; 3rd: vancomycin or clindamycin can be given for Gram positive coverage and gentamicin for Gram negative coverage	
Vascular malformation	Yes	1st: 1–2 g cefazolin for adults	2nd: cefazolin 25 mg/kg for pediatric patients, 3rd: clindamycin 10 mg/kg for oral lesions	Recommendations primarily for percutaneous sclerotherapy/ablation of slow flow venous or venolymphatic malformations.
Radioembolization		With competent sphincter of Oddi: none When infusing proximal to cystic artery: ciprofloxacin 500 mg twice per day for 5 d With incompetent sphincter of Oddi: 1st: oral moxifloxacin 400 mg/d beginning 2d before radioembolization and continued for 10d after	With incompetent sphincter of Oddi: 2nd: oral moxifloxacin 400 mg started 3 d before radioembolization and continued for 18	moxifloxacin
Gastrointestinal embolization	Only for patients with hemobilia	1st: 1 g ceftriaxone IV	2nd: 1.5–3g ampicillin/ sulbactam IV; 3rd: 1 g cefotetan IV þ 4 g mezlocillin IV; 4th: 2 g ampicillin IV þ 1.5 mg/kg gentamicin IV	If penicillin allergic, can use vancomycin or clindamycin and aminoglycoside
	Antibiotics recommended if > 70% of spleen is expected to be	1st: Gentamicin 10 mg/kg/d, cefoxitin sodium 100 mg/kg/d beginning 2 h before and continuing for 5 d after, soaking of embolic spheres with	2nd: 1 g cefoperazone every 12 h postprocedure for 5 d following; 3rd: embolic particles suspended in gentamicin (16 mg) in combination with 5 d course of IV amoxicillin/clavulanate	
Partial splenic embolization for hypersplenism	embolized Only for patients with	1,000,000 U penicillin and 40 mg gentamicin also recommended	(3 g/d) and ofloxacin (400 mg/d)	N/A Clindamycin/ gentamycin recommended for penicillin-allergic
Renal tumor ablation Other tumor ablation (lung, adrenal, bone)	colonized urothelium	1g ceftriaxone IV	N/A	patients Special consideration: for patients with single lung, ablation/amoxicillin clavulanate 2 g or ofloxacin 400 mg/d continued for 3–7 d postablation
other tumor abiation (lung, aurenai, bone)	No consensus	1-2 8 (61920)11 1V	1/2	postablation

Prophylactic antibiotic agents are, by definition, those that are administered before creation of an incision or puncture wound. Recommendations from the governing body on hospital and patient safety standards (The Joint Commission) are that intravenous (IV) antibiotic agents be administered within 1 hour of an incision

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