

表一、台灣地區外科手術預防性抗生素之建議使用準則¹

手術名稱/部位	可能感染的菌種	建議使用的預防性抗生素	替代療法的預防性抗生素	預防性抗生素使用期間
Large skin (clean)	<i>Staphylococcus aureus</i> CoNS Streptococci	Nil or Cefazolin 1 gm IV at IA	Clindamycin 600 mg IV at IA	1 dose
耳鼻喉科手術				
Head and neck (clean)	<i>S. aureus</i> CoNS	Cefazolin 1-2 gm IV at IA	Clindamycin 600 mg IV at IA	<1 day
Head and neck (clean-contaminated)	<i>S. aureus</i> CoNS Streptococci Enteric GNB	Cefazolin 1-2 gm IV at IA	Clindamycin 600 mg + gentamicin 2mg/kg IV at IA	<1 day
Ear (clean-contaminated)	<i>S. aureus</i> Streptococci	Cefazolin 1-2 gm IV at IA	Clindamycin 600 mg IV at IA	<1 day
Nose and sinus (clean-contaminated)	<i>S. aureus</i> Enteric GNB Anaerobes	Cefazolin 1-2 gm IV at IA	Clindamycin 600 mg IV at IA	<1 day
手術名稱/部位				
Tonsil (clean-contaminated)	<i>S. aureus</i> Enteric GNB Anaerobes	Cefazolin 1-2 gm IV at IA	Clindamycin 600 mg + gentamicin 2 mg/kg IV at IA	<1 day
心血管手術				
Coronary artery graft bypassing (clean)*	<i>S. aureus</i> CoNS	Cefazolin 1-2 gm IV at IA then 1 gm q8h	Vancomycin 1 gm IV on call to OR	<1 day
Prosthetic valve (clean)*	<i>S. aureus</i> CoNS	Cefazolin 1-2 gm IV at IA then 1 gm q8h	Vancomycin 1 gm IV on call to OR	<1 day
Large vessel in abdomen or lower limb (clean)	<i>S. aureus</i> CoNS	Cefazolin 1-2 gm IV at IA then 1 gm q8h	Vancomycin 1 gm IV on call to OR	<1 day
胸腔科手術				
Lung (clean-contaminated), pulmonary resection (lobectomy and pneumonectomy)	<i>S. aureus</i> CoNS Streptococci	Cefazolin 1-2 gm IV at IA then 1 gm q8h	Vancomycin 1 gm IV on call to OR or Clindamycin 600 mg IV + gentamicin 2 mg/kg IV at IA or 2GC 1-2 gm	<2 days
Esophagus (clean-contaminated)	<i>S. aureus</i> CoNS Enteric GNB	Cefazolin 1-2 gm IV at IA then 1 gm q8h	Vancomycin 1 gm IV on call to OR or Clindamycin 600 mg IV + gentamicin 2 mg/kg IV at IA or 2GC 1-2 gm IV at IA	<2 days

骨科手術				
Total hip arthroplasty (clean)*	<i>S. aureus</i> CoNS	Cefazolin 1-2 gm IV at IA then 1 gm q8h	Vancomycin 1 gm IV on call to OR	<2 days
Total knee arthroplasty (clean)*	<i>S. aureus</i> CoNS	Cefazolin 1-2 gm IV at IA then 1 gm q8h	Vancomycin 1 gm IV on call to OR	<2 days
Internal fixation for close reduction (clean)	<i>S. aureus</i> CoNS	Cefazolin 1-2 gm IV at IA then 1 gm q8h	Vancomycin 1 gm IV on call to OR	<1 day
Spine (clean)	<i>S. aureus</i> CoNS	Cefazolin 1-2 gm IV at IA then 1 gm q8h	Vancomycin 1 gm IV on call to OR	<2 days
Other selective, non-prosthesis bone procedures (clean)	<i>S. aureus</i> CoNS	Cefazolin 1-2 gm IV at IA then 1 gm q8h	Vancomycin 1 gm IV on call to OR	<1 day
手術名稱/部位	可能感染的菌種	建議使用的預防性抗生素	替代療法的預防性抗生素	預防性抗生素使用期間
神經科手術				
Craniotomy (clean)	<i>S. aureus</i> CoNS	Cefazolin 1-2 gm IV	Oxacillin 2 gm IV at IA Vancomycin 1 gm IV on call to OR	<1 day
Ventriculo-peritoneal shunting (clean)	<i>S. aureus</i> CoNS	Cefazolin 1-2 gm IV	Oxacillin 2 gm IV at IA Vancomycin 1 gm IV on call to OR	<2 days
大腸直腸肛門外科				
Colorectum (clean-contaminated)	Enteric GNB Anerobes	Oral: Neomycin 1 gm qid + metronidazole 1 gm qid the day before operation or Tinidazole 1 gm the night before operation + Cefoxitin 1-2 gm IV at IA or	Clindamycin 600 mg IV + gentamicin 2 mg/kg IV at IA or Amoxicillin/clavulanate 750 mg IV at IA or Ampicillin/sulbactam 1.5 gm IV at IA	<1 day
手術名稱/部位	可能感染的菌種	建議使用的預防性抗生素	替代療法的預防性抗生素	預防性抗生素使用期間
		Cefmetazole 1-2 gm IV at IA or Cefazolin 1 gm IV at IA ± gentamicin 2 mg/kg ± metronidazole 500 mg IV at IA		
一般外科				
Non-complicated appendectomy (infected)*	Enteric GNB Anerobes	Cefoxitin 1-2 gm IV at IA or Cefmetazole 1-2 gm IV at IA or Cefazolin 1 gm + gentamicin 2 mg/kg + metronidazole 500 mg IV at IA	Clindamycin 600 mg IV + gentamicin 2 mg/kg IV at IA or Amoxicillin/clavulanate 750 mg IV at IA or Ampicillin/sulbactam 1.5 gm IV at IA	<1 day
Open biliary (clean-contaminated)	Enteric GNB	Cefazolin 1 gm IV at IA	Clindamycin 600 mg IV + gentamicin 2 mg/kg IV at IA or 2GC 1-2 gm IV at IA	<1 day
Open cholecystectomy (clean-contaminated)	Enteric GNB	Cefazolin 1 gm IV at IA	Clindamycin 600 mg IV + gentamicin 2 mg/kg IV at IA or 2GC 1-2 gm IV at IA	<1 day

Laparoscopic cholecystectomy (clean-contaminated)*	Enteric GNB	Cefazolin 1 gm IV at IA	Clindamycin 600 mg IV + gentamicin 2 mg/kg IV at IA or 2GC 1-2 gm IV at IA	<1 day
Gastroduodenal (clean-contaminated)	Gram-positive cocci Enteric GNB	Cefazolin 1-2 gm IV at IA	Clindamycin 600 mg IV + gentamicin 2 mg/kg IV at IA	<1 day
Intestinal (clean-contaminated)	Gram-positive cocci Enteric GNB	Cefazolin 1-2 gm IV at IA	Clindamycin 600 mg IV + gentamicin 2 mg/kg IV at IA	<1 day
Laparoscopic or non-laparoscopic herniorrhaphy with mesh (clean) *	<i>S. aureus</i> CoNS	Cefazolin 1 gm IV at IA	Clindamycin 600 mg IV at IA	1 dose
手術名稱/部位	可能感染的菌種	建議使用的預防性抗生素	替代療法的預防性抗生素	預防性抗生素使用期間
Laparoscopic or non-laparoscopic herniorrhaphy without mesh (clean) *	<i>S. aureus</i> CoNS	Nil or Cefazolin 1 gm IV at IA	Clindamycin 600 mg IV at IA	1 dose
Breast (clean) *	<i>S. aureus</i> CoNS	Nil or Cefazolin 1-2 gm IV at IA	Clindamycin 600 mg IV at IA	1 dose
Thyroid (clean) *	<i>S. aureus</i> CoNS	Nil or Cefazolin 1-2 gm IV at IA	Clindamycin 600 mg IV at IA	1 dose
泌尿科手術				
Transrectal prostate biopsy *(clean-contaminated)	Enteric GNB	Cefazolin 1 gm IV at IA	Gentamicin 2 mg/kg IV on call to OR or Ciprofloxacin 500 mg oral or 400 mg IV on call to OR	1 dose
Transurethral prostate biopsy	Enteric GNB	Cefazolin 1 gm IV at IA	Gentamicin 2 mg/kg IV on call to OR	<1 day
手術名稱/部位	可能感染的菌種	建議使用的預防性抗生素	替代療法的預防性抗生素	預防性抗生素使用期間
*(clean-contaminated)			or Ciprofloxacin 500 mg oral or 400 mg IV on call to OR	
Transurethral bladder tumor resection (clean-contaminated)	Enteric GNB	Cefazolin 1 gm IV at IA	Gentamicin 2 mg/kg IV on call to OR	<1 day
婦科				
Hysterectomy, abdominal or vaginal *(clean-contaminated)	Enteric GNB Group B streptococcus Anerobes	Cefazolin 1 gm IV at IA or Cefoxitin 1 gm IV at IA or Cefmetazole 1 gm IV at IA	Clindamycin 600 mg IV at IA + gentamicin 2 mg/kg IV at IA or Amoxicillin/clavulanate 750 mg IV at IA or Ampicillin/sulbactam 1.5 gm IV at IA	<1 day
Cesarean section *(clean-contaminated)	Enteric GNB Group B streptococcus Anerobes	Cefazolin 1-2 gm IV immediately after cord clamping	Clindamycin 600 mg IV at IA + gentamicin 2 mg/kg IV at IA	<1 day

1. 縮寫名稱解釋 CoNS = coagulase-negative staphylococci; GNB = Gram-negative bacilli; IA = induction of anesthesia; IV = intravenous; 2GC = second-generation cephalosporins; OR = operating room.

2. vancomycin 只使用於: 1) 對 penicillin 類藥物過敏的病患; 2) 施于手術的醫院為 MRSA 高盛行率者

3. 對於 non-complicated appendicitis 的手術, 當被確立診斷時即應給予第一劑而在誘導麻醉時給予第二劑