

# **Antibiotic prophylaxis for GI surgery in Adults**

- Colorectal surgery
- Appendicectomy
- Upper gastrointestinal surgery
- Open biliary surgery
- Laparoscopic procedures in high-risk patients
- Pancreatic and liver surgery
- Open or laparoscopic surgery with mesh (eg gastric band / rectopexy) consider antibiotic prophylaxis in high-risk patients
- Hernia repair with or without mesh SIGN guidance does not recommend antibiotic prophylaxis

Antibiotic prophylaxis is a commonly used method of reducing the incidence and impact of surgical site infections in a wide range of procedures. **Patients already on antibiotic treatment for intra-abdominal infection DO NOT require additional prophylaxis.** 

Patients with current or previous infection or colonisation with resistant organisms may require alternative prophylaxis; please contact Microbiology to discuss.

A single (STAT) dose of antibiotic prophylaxis should be written on the STAT side of the inpatient chart. This should be administered at induction of anaesthesia.

In prolonged procedures (>4 hours) or where there is significant blood loss a second dose may be considered.

### Cefuroxime IV 1.5g

#### **PLUS**

### Metronidazole IV 500mg

For biliary surgery in the presence of stents, or pancreaticoduodenectomy, **ADD** 

Gentamicin IV 2mg/kg, maximum dose 160mg

**Cefuroxime** will be restricted to theatres, and should **NOT** be continued for treatment of infection.

Alternative for patients with Type 1 penicillin allergy:

## Gentamicin IV 2mg/kg, maximum dose 160mg

#### **PLUS**

## Metronidazole IV 500mg

#### MRSA status MUST be checked prior to surgery.

For patients known to be currently or previously MRSA positive, **ADD to the above prophylaxis:** 

# Teicoplanin IV 800mg STAT

Written by: Dr Amin (Consultant Microbiologist), June 2013

Agreed by: Antimicrobial Review Group

Review: May 2015



If there is pus found in the abdomen, an acutely inflamed appendix, or bowel perforation has occurred, institute a therapeutic course of antibiotics as per treatment guidelines for intra-abdominal sepsis.

#### References:

- National SIGN guidelines on antibiotic prophylaxis in surgery (2008). <a href="http://www.sign.ac.uk/pdf/sign104.pdf">http://www.sign.ac.uk/pdf/sign104.pdf</a>
  Antibacterial prophylaxis in surgery: 1 Gastrointestinal and biliary surgery. DTB 2003;41:83-86

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