

# Antimicrobial Intravenous-to-Oral Switch (IVOS) Decision Aid

# **Based on the National Antimicrobial IVOS Criteria**

Co-produced through a UK-wide multidisciplinary consensus process involving 279 participants

### Why use this IVOS decision aid?

IVOS is an important antimicrobial stewardship intervention.<sup>1,2</sup> Research evidence confirms several IVOS benefits, including decreased risk of bloodstream and catheter-related infections, reduced equipment costs, carbon footprint and hospital length-of-stay, increased patient mobility and comfort, and released nursing time to care for patients.<sup>3,4</sup>

# When to use this IVOS decision aid?

The audit standard recommended for the implementation of this decision aid is that all patients on intravenous (IV) therapy should be reviewed promptly from first dose of IV antimicrobial with formal review completed within 48 hours and daily thereafter, unless clearly documented exemptions.

# Does your patient have an infection that may require special consideration?

Infections that may require special consideration include: deep-seated infections, infections requiring high tissue concentration, infections requiring prolonged intravenous antimicrobial therapy or critical infections with high risk of mortality.

To note: on specialist advice, an IVOS within 48 hours may still be indicated for some patients with these infections.

Infections for special consideration include, but are not limited to, those listed below:

- bloodstream infection Y/N
- empyema Y/N
- endocarditis
- meningitis
- osteomyelitis
- severe or necrotising soft tissue infections
- septic arthritis
- undrained abscess

If YES check for clearly documented plan or seek specialist advice



#### 1a. Enteral route

- 1.1. Is the patient's gastrointestinal tract functioning with no evidence of malabsorption?
- 1.2. Is the patient's swallow or enteral tube administration safe?

Y/N

Y/N

Y/N
Y/N

If NO reassess in 24 hours



# 1b. Enteral route continued

- 1.3. Are there any significant concerns over patient adherence to oral treatment?
- 1.4. Has the patient vomited within the last 24 hours?

Y/N Y/N

Y/N

Y/N

Y/N

Y/N

If YES reassess in 24 hours

If NO continue

# 2. Clinical signs and symptoms

2.1. Are the patient's clinical signs and symptoms of infection improving? Y/N





# 3. Infection markers

- 3.1. Has the patient's temperature been between 36-38°C for the past 24 hours? Temp:....... Y/N
- 3.2. Is the patient's Early Warning Score (EWS) decreasing?
- 3.3. Is the patient's White Cell Count (WCC) trending towards the normal range?\*
- 3.4. Is the patient's C-Reactive Protein (CRP) decreasing?\*

- EWS: ...... Y/N WCC: ...... Y/N
- CRP: ..... Y/N
- reassess in 24 hours



NO

# PROMPT FOR SWITCH:

Nursing/pharmacy teams to prompt prescriber or infection specialist to consider IV to oral switch.

#### **ASSESS FOR SWITCH:**

Prescriber or infection specialist to consider IV to oral switch. Identify whether a suitable oral switch option is available, considering for example oral bioavailability, any clinically significant drug interactions, patient allergies or contra-indications.

\* To note: These infection markers could also indicate inflammation or be affected by for example, steroid treatment, 'Prompt for switch' or 'Assess for switch' may still occur if they are the only markers not met.

# References

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