

Guidance on management of proven or suspected Staphylococcus aureus bacteraemia (SAB) in adults



Staphylococcus aureus bacteraemia suspected or identified in the laboratory

CLINICAL TEAM INITIAL MANAGEMENT Ensure prompt prescription and administration of empirical IV antibiotic therapy • Discuss with patien

- If NEWS ≥ 5, complete Sepsis 6 bundle
- Consider further microbiology samples (e.g. urine, pus, sputum, prosthetic material)
- Consider risk factors: recent hospitalisation, surgery, vascular device, person who

 injects drugs (PWID), haemodialysis, or previous SAB

Discuss with patient's consultant and consider early infection specialist review

- Ensure clinical management plan is documented in notes
- Discuss all patients with complex/ deep seated/ device-related or persistent SABs, Endocarditis and all PWIDs with an infection specialist

ANTIBIOTIC TREATMENT

 If SAB is healthcare associated discuss with Infection Prevention Control team regarding need for a root cause analysis and consider duty of candour

FURTHER CLINICAL MANAGEMENT

EXAMINE AND INVESTIGATE TO IDENTIFY SOURCE OF SAB MINIMUM 2 WEEKS IV FLUCLOXACILLIN Vascular device, Skin/Soft tissue/Wound, Septic arthritis, Osteomyelitis, Discitis, (or IV Vancomycin if true allergy or MRSA) Endocarditis, Prosthesis, Infected DVT/septic thrombophlebitis, Pneumonia IV FLUCLOXACILLIN is more effective than IV VANCOMYCIN SOURCE CONTROL in flucloxacillin-sensitive SAB Remove infected IV device, involve appropriate surgical specialist to remove drain MRSA accounts for <10% of all SABs in Scotland collections, wash out joints etc. IV FLUCLOXACILLIN 2g 6 hourly (consider dose reduction only if Cr Cl < 10 mls/min) or 4-6 hourly if treating Endocarditis as per local policy If known MRSA carrier or previous MRSA infection use IV VANCOMYCIN but **TRANS THORACIC ECHO (TTE) IN ALL PATIENTS** consider adding IV FLUCLOXACILLIN pending sensitivity results. Consider trans-oesophageal echocardiogram (TOE) if TTE negative and prosthetic Use IV VANCOMYCIN first line if assessed as true Penicillin allergy valve or higher suspicion of endocarditis IV VANCOMYCIN dosing • Intermittent (pulsed) infusions: trough of 15-20 mg/L Continuous infusion: steady state concentration of 20-25 mg/L **REPEAT BLOOD CULTURES 48-96 hours after starting IV antibiotics**

INFECTION SPECIALIST ROLE (ID physician or clinical microbiologist)

- Advice on further investigation (imaging/need for TOE) and source control
- Advice on therapy duration and need for/selection of ongoing oral therapy or OPAT
- Any antibiotic-related adverse events or failure to respond to treatment