

## **Sepsis: The LightCycler SeptiFast Test MGRADE (and alternative technologies identified during scoping) for the rapid identification of pathogens**

The Light Cycler SeptiFast Test MGRADE (Roche Diagnostics) is a real-time polymerase chain reaction test intended for the detection and identification of bacterial and fungal DNA in people with suspected sepsis. The test is designed to detect and identify the 25 most common pathogens known to cause blood stream infections. No pre-culturing of the blood sample is required and results may be available in six hours. Use of the test may facilitate earlier initiation of targeted antimicrobial therapy for patients with suspected sepsis, and reduce the use of broad-spectrum antimicrobials. This could lead to improved outcomes for patients and facilitate improved antimicrobial stewardship, helping to conserve the effectiveness of existing antimicrobials. The NICE Diagnostics Assessment Programme will assess the clinical and cost-effectiveness of the LightCycler SeptiFast Test MGRADE (and alternative technologies identified during scoping) in order to make recommendations on their use in the NHS.