

Early submission

## Meningitis (bacterial) and meningococcal disease: recognition, diagnosis & management

Review questions

*NICE guideline tbc*

*Review questions*

*May 2023*

*Early submission*



## **Disclaimer**

The recommendations in this guideline represent the view of NICE, arrived at after careful consideration of the evidence available. When exercising their judgement, professionals are expected to take this guideline fully into account, alongside the individual needs, preferences and values of their patients or service users. The recommendations in this guideline are not mandatory and the guideline does not override the responsibility of healthcare professionals to make decisions appropriate to the circumstances of the individual patient, in consultation with the patient and/or their carer or guardian.

Local commissioners and/or providers have a responsibility to enable the guideline to be applied when individual health professionals and their patients or service users wish to use it. They should do so in the context of local and national priorities for funding and developing services, and in light of their duties to have due regard to the need to eliminate unlawful discrimination, to advance equality of opportunity and to reduce health inequalities. Nothing in this guideline should be interpreted in a way that would be inconsistent with compliance with those duties.

NICE guidelines cover health and care in England. Decisions on how they apply in other UK countries are made by ministers in the [Welsh Government](#), [Scottish Government](#), and [Northern Ireland Executive](#). All NICE guidance is subject to regular review and may be updated or withdrawn.

## **Copyright**

© NICE 2023. All rights reserved. Subject to [Notice of Rights](#).

ISBN:

## Contents

<b>Review questions .....</b>	<b>5</b>
-------------------------------	----------

# Review questions

Review questions	
A1	What symptoms and signs, individually or in combination, are associated with bacterial meningitis?
A2	What factors are associated with an increased risk of bacterial meningitis?
A3	What symptoms and signs, individually or in combination, are associated with meningococcal disease?
A4	What factors are associated with an increased risk of meningococcal disease?
B1	What is the accuracy and effectiveness of blood and urine investigations in diagnosing bacterial meningitis?
B2	What is the accuracy and effectiveness of blood and urine investigations in diagnosing meningococcal disease?
B3	What is the accuracy and effectiveness of cerebrospinal fluid investigations in diagnosing bacterial meningitis?
B4	What factors (individually or in combination) are associated with an increased risk of brain herniation following lumbar puncture in people with suspected bacterial meningitis?
B5	What is the role of neuroimaging prior to lumbar puncture?
C1	What is the optimal timing of antibiotic administration for people with suspected bacterial meningitis?
C2	What is the optimal timing of antibiotic administration for people with suspected meningococcal disease?
D1	What antibiotic treatment regimens are effective in treating suspected bacterial meningitis in younger infants (excluding neonates) before identifying the causative infecting organism, or in the absence of identifying the causative infecting organism?
D2	What antibiotic treatment regimens are effective in treating suspected bacterial meningitis in older infants and children before identifying the causative infecting organism, or in the absence of identifying the causative infecting organism?
D3	What antibiotic treatment regimens are effective in treating suspected bacterial meningitis in adults before identifying the causative infecting organism, or in the absence of identifying the causative infecting organism?
E1	What antibiotic treatment regimens are effective in treating bacterial meningitis caused by <i>Streptococcus pneumoniae</i> ?
E2	What antibiotic treatment regimens are effective in treating bacterial meningitis caused by <i>Haemophilus influenzae</i> ?
E3	What antibiotic treatment regimens are effective in treating bacterial meningitis caused by group B streptococcus?
E4	What antibiotic treatment regimens are effective in treating bacterial meningitis caused by Gram-negative bacilli?
E5	What antibiotic treatment regimens are effective in treating bacterial meningitis caused by <i>Listeria monocytogenes</i> ?
E6	What antibiotic treatment regimens are effective in treating bacterial meningitis caused by <i>Neisseria meningitidis</i> ?
F1	What antibiotic treatment regimens are effective in treating suspected or confirmed meningococcal disease?
G1	What is the effectiveness of fluid restriction in bacterial meningitis?
G2	What is the effectiveness of osmotic agents in bacterial meningitis?
G3	What is the effectiveness of intracranial pressure monitoring in bacterial meningitis?

<b>Review questions</b>	
G4	What is the effectiveness of corticosteroid treatment in bacterial meningitis?
H1	What is the effectiveness of corticosteroid treatment in meningococcal disease?
I1	What is the risk of long-term complications in bacterial meningitis?
I2	What is the risk of long-term complications in meningococcal disease?
J1	What additional investigations should be performed in people with recurrent bacterial meningitis?
J2	What additional investigations should be performed in people with recurrent meningococcal disease?
K1	What information is valued by patients, and their families or carers, when concerns arise about the possibility of bacterial meningitis or meningococcal disease?
K2	What support is valued by patients, and their families or carers, when concerns arise about the possibility of bacterial meningitis or meningococcal disease?
K3	What information is valued by patients with confirmed bacterial meningitis or meningococcal disease, and their families or carers?
K4	What support is valued by patients with confirmed bacterial meningitis or meningococcal disease, and their families or carers?