1 2	NATIONAL INSTITUTE FOR HEALTH AND CARE EXCELLENCE
3	Scope for guideline update (starting 2024)
4 5	Suspected sepsis: recognition, diagnosis and early management
6	
7 8	NICE is further updating its guideline on <u>Suspected sepsis: recognition, diagnosis</u> and early management NG51. The guideline originally published in July 2016.
9 10	In January 2024, NICE updated the recommendations on risk stratification and early management of over 16s with suspected sepsis. The recommendations on
11	identifying the source of infection and involving surgical teams were also broadened
12 13	to cover risk of sepsis in all parts of the body and a wider range of interventions. Details of what recommendations have been updated previously can be found on the
14	suspected sepsis summary page.
15 16 17 18 19 20	During this earlier update, the guideline committee indicated that recommendations on rapid antigen tests and molecular tests for sepsis, indicators of organ hypoperfusion, intravenous fluids, and vasopressors may also need updating. In addition, as part of the consultation on the draft version of this scope, stakeholders shared new evidence on risk factors for sepsis (including groups that may be at higher risk of developing sepsis). These areas will be considered in this update.
21	The update will be developed using the methods and processes outlined in:
22	Developing NICE guidelines: the manual
23	Appendix M: Interim principles for methods and processes for supporting digital
24	living guideline recommendations
25	Appendix N: Multi-criteria decision framework for deciding whether to develop or
26	update recommendations and which methods to use
27	Appendix P: Updating guideline recommendations.

1 Who the guideline update covers

- 2 The guideline covers people of all ages with suspected sepsis.
- Review questions 1 to 6 in this update will focus on people aged 16 or over with
- 4 suspected sepsis, except people who are or have recently been pregnant. These
- 5 questions cover the population and settings in which the national early warning score
- 6 (NEWS2) applies. Review question 7 will cover risk factors for all people.

7 Equality considerations

1

- 8 The <u>equality impact assessment</u> for this update:
- lists the equality issues identified and how they have been addressed and
- explains why any populations were excluded from the scope.

2 Activities, services or aspects of care covered by

this guideline update

13 Areas considered by this update

- 14 We will look at the evidence and consider making new recommendations or updating
- 15 existing recommendations on:
- rapid antigen testing and PCR tests
- indicators of organ hypoperfusion
- intravenous fluid therapy
- 19 vasopressors
- risk factors for sepsis.
- We had planned to update a recommendation on source control, to make it easier to
- implement. However, during the consultation on the January 2024 update,
- 23 stakeholders told us that improving guidance around source control could improve
- patient outcomes. In response to this, we updated recommendation 1.17.4 as part of
- 25 the January 2024 update. We did not review the evidence in this area and the
- changes were made by committee consensus. In January 2024 we added this to the
- 27 revised September 2022 version of the scope.

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- 1 Recommendations in areas that are being retained from the existing guideline may
- 2 be edited to ensure that they meet current editorial standards and reflect the current
- 3 policy and practice context. Any editorial changes made will be in line with the
- 4 <u>section on routine editorial maintenance, in appendix P of the guidelines manual.</u>
- 5 We may also amend recommendations in areas outside of the update if this is
- 6 needed to keep them consistent with new recommendations.
- 7 We will consider creating algorithms that present the recommendations on risk
- 8 assessment and initial management in a visual format.

9 Proposed outline for guideline

Area of care in the 2024 guideline	What NICE plans to do
1.1 When to suspect sepsis	No evidence review: retain
	recommendations from existing
	guideline.
1.2 People who are most vulnerable to	Review evidence and update existing
sepsis	recommendations as needed.
1.3 Face to face assessment of people	No evidence review: retain
with suspected sepsis	recommendations from existing
	guideline.
Under 16s: evaluating risk and	No evidence review: retain
managing suspected sepsis	recommendations from existing
Sections 1.5 to 1.7	guideline.
Pregnant or recently pregnant people:	No evidence review: retain
evaluating risk and managing suspected	recommendations from existing
sepsis	guideline.
Sections 1.8 to 1.10	

Over 16s: evaluating risk and managing	
suspected sepsis	
1.11 Evaluating risk level	Updated in January 2024. No further
	update planned: retain
	recommendations from existing
	guideline.
1.12 Managing suspected sepsis	Intravenous fluid therapy: review
outside acute hospital settings	evidence and update existing
	recommendations as needed.
	Other recommendations: retain
	recommendations from existing
	guideline.
1.13 Managing suspected sepsis in	Rapid antigen tests and molecular tests:
acute hospital settings	review evidence and update existing
	recommendations as needed.
	Indicators of organ hypoperfusion and
	worsening sepsis: review evidence and
	update existing recommendations as
	needed.
	Intravenous fluid therapy: review
	evidence and update existing
	recommendations as needed.
	Vasopressors: review evidence and
	update existing recommendations as
	needed.
	Antibiotic management: updated in
	January 2024. No further update

	planned: retain recommendations from
	existing guideline.
1.14 Choice of antibiotic therapy for	Antibiotic management: updated in
people with suspected sepsis	January 2024. No further update
	planned: retain recommendations from
	existing guideline.
1.15 Intravenous fluids for people with	Intravenous fluids: review evidence and
suspected sepsis	update existing recommendations as
	needed.
	Timing and route of administration of
	vasopressors: review evidence and
	update existing recommendations as
	needed.
1.16: Using oxygen for people with	No evidence review: retain
suspected sepsis	recommendations from existing
	guideline.
Finding the source of infection	Source control: amended in January
Sections 1.17 and 1.18	2024. No further update planned: retain
	recommendations from existing
	guideline.
Information and support for all people	No evidence review: retain
with suspected sepsis	recommendations from existing
Sections 1.19 to 1.23	guideline.
233.313 1.10 10 1.20	
Training and education	No evidence review: retain
Sections 1.24 to 1.25	recommendations from existing
00000113 1.27 to 1.20	guideline.

1 3 Draft review questions

2	We have identified the following draft review questions:			
3	1	In people aged 16 or over with suspected sepsis, what is the diagnostic accuracy of rapid antigen tests and rapid PCR tests for diagnosing specific		
5		infections?		
6		IIIIections:		
7	2	In people aged 16 or over with suspected sepsis, what is the clinical and cost		
8	_	effectiveness of rapid antigen tests and rapid PCR tests for guiding treatment?		
9		choonvolleds of rapid anagen tools and rapid i Ort tools for galaring treatment:		
10	3	In people aged 16 or over with suspected sepsis, what indicators of organ		
11		hypoperfusion and worsening sepsis should be used (in addition to the NEWS2		
12		score) to guide the urgency of referral to, or discussion with, a critical care		
13		specialist or team?		
14				
15	4	In people aged 16 or over with suspected sepsis, what indicators of organ		
16		hypoperfusion and worsening sepsis should be used (in addition to the NEWS2		
17		score) to guide the administration of intravenous fluids for resuscitation?		
18 19	5	In people aged 16 or over with suspected sepsis who require IV fluids for		
20	5	resuscitation, what volume of IV fluid is appropriate, how quickly should IV		
21		fluids be provided, and when should they be stopped?		
22		naids be provided, and when should they be stopped:		
23	6	In people aged 16 or over with suspected sepsis, what is the most clinically and		
24		cost-effective timing and route of administration of vasopressors?		
25				
26	7	Which factors or groups of factors lead to a higher risk of developing sepsis?		
27	4	Economic aspects		
28	We	will take economic aspects into account when making recommendations. We will		
29	review the economic evidence and carry out economic analyses, using an NHS			
30	per	perspective, as appropriate.		

NICE guidance and quality standards that may be affected by this guideline update

- COVID-19 rapid guideline: managing COVID-19 (2023) NICE guideline NG191
- 4 Sepsis (2020) NICE quality standard QS161
- Pneumonia (community-acquired): antimicrobial prescribing (2019) NICE
- 6 guideline NG138
- 7 Pneumonia (hospital-acquired): antimicrobial prescribing (2019) NICE guideline
- 8 NG139
- Intravenous fluid therapy in adults in hospital (2017) NICE guideline CG174
- Intravenous fluid therapy in adults in hospital (2014) NICE Quality Standard QS66
- Procalcitonin testing for diagnosing and monitoring sepsis (2015) NICE diagnostic
- 12 guideline DG18
- Shared decision making (2021) NICE guideline NG197
- Medicines optimisation (2015) NICE guideline NG5
- Patient experience in adult NHS services (2012) NICE guideline CG138
- Service user experience in adult mental health (2011) NICE guideline CG136
- Medicines adherence (2009) NICE guideline CG76
- SepsiTest assay for rapidly identifying bloodstream bacteria and fungi (2020)
- NICE diagnostic guideline DG20

20 6 Areas we're monitoring

- In the future, we plan to review the use of the paediatric early warning score (PEWS)
- 22 and maternity early warning score (MEWS) tools and will consider making
- 23 recommendations on them in the guideline. This may include updating the
- 24 recommendations on rapid antigen tests and molecular tests for sepsis, indicators of
- organ hypoperfusion, intravenous fluids, and vasopressors for these populations.
- 26 Procalcitonin (PCT) testing was also indicated by the guideline committee as a
- 27 possible area for update. However, PCT testing is covered by the <u>NICE diagnostics</u> NICE guideline update: Suspected sepsis: recognition, diagnosis, and early management (update) final scope 7 of 8

- 1 guidance on procalcitonin testing for diagnosing and monitoring sepsis. The ongoing
- 2 PRONTO trial is comparing PCT-supported assessment with standard care for
- 3 suspected sepsis in adults at emergency departments, to measure whether this
- 4 approach reduces antibiotic prescriptions without increasing mortality. We will decide
- 5 whether to update our recommendations on PCT testing once this trial completes.

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7 Further information

- 8 NICE guidelines cover health and care in England. Decisions on how they apply in
- 9 other UK countries are made by ministers in the Welsh Government, Scottish
- 10 Government and Northern Ireland Executive.

The guideline update is expected to be published in 2025.

To follow the progress of the update, see the guideline in development page.

For an overview of current or planned updates, see our <u>suspected sepsis</u> <u>summary page</u>.

Our website has information about how NICE guidelines are developed.

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