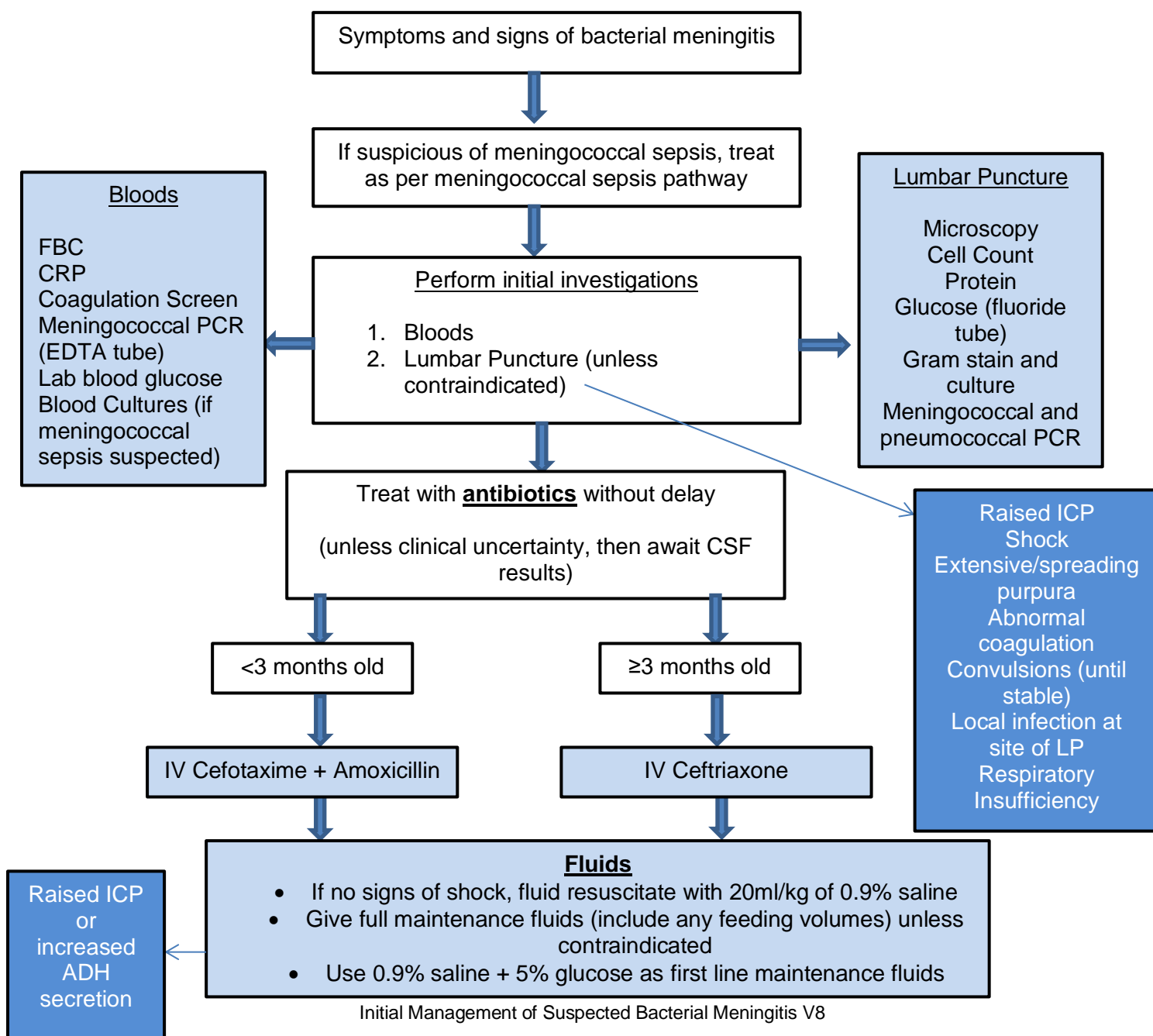


## Initial Management of Suspected Bacterial Meningitis

<b>Key Document code:</b>	WAHT-TP-062	
<b>Key Documents Owner:</b>	Dr V Weckemann	Consultant Paediatrician
<b>Approved by:</b>	Paediatric Quality Improvement meeting	
<b>Date of Approval:</b>	9 <sup>th</sup> March 2024	
<b>Date of review:</b>	9 <sup>th</sup> March 2027	
<b>This is the most current version and should be used until a revised document is in place</b>		

### Key Amendments

Date	Amendment	Approved by
23 <sup>rd</sup> September 2019	Change of wording in Infectious diseases box – grey fluoride tube to fluoride tube	Dr T Dawson/Dr J West
19 <sup>th</sup> Nov 2020	Document extended for 1 year	Dr J West/ Paediatric QIM
26 <sup>th</sup> March 2021	Approved with no amendments	Paediatric QIM
9 <sup>th</sup> March 2024	Document reviewed and amended to include reference and link to NICE CG102	Paediatric Governance Meeting



**Indications for CT head?**

- GCS  $\leq$  8
- GCS drop of  $\geq$  3
- Focal neurological signs

If CT scan indicated, do not delay antibiotics for scanning

**Indications for steroids?**

If  $\geq$  3 months of age +  $<$  12 hours from 1<sup>st</sup> antibiotic dose, if LP shows:

- Frankly purulent CSF
- CSF WCC  $>$  1000/ $\mu$ l
- Raised CSF WCC +protein  $>$ 1g/l
- Bacteria on Gram stain

Consider need for tracheal intubation, mechanical intervention and intensivist input

**Lumbar puncture suggesting meningitis**

- Neonates ( $\leq$  28 days old) -  $\geq$  20 cells/ $\mu$ l
- Older children -  $>$  5 cells/ $\mu$ l or  $>$  1 neutrophil/ $\mu$ l
- Non-specific abnormal CSF + raised blood CRP and/or WCC

**Monitoring**

- Fluid balance
- Signs of raised ICP & GCS
- Blood glucose
- U&Es daily whilst on IV fluids

**Duration of antibiotic therapy**

Specific pathogen confirmed

Unknown pathogen/unconfirmed infection

$<$  3 months of age:

- Group B strep – IV Cefotaxime for  $\geq$  14 days
- Listeria monocytogenes – IV amoxicillin for 21 days + IV Gentamicin for  $\geq$  first 7 days
- Gram-negative bacilli – IV Cefotaxime for  $\geq$  21 days

$\geq$  3 months of age:

- N.meningitidis – IV Ceftriaxone for 7 days
- H.influenzae - IV Ceftriaxone for 10 days
- S.pneumoniae - IV Ceftriaxone for 14 days

$<$ 3 months old

IV Cefotaxime  
+IV Amoxicillin  
for  $\geq$  14 days

$\geq$ 3 months old

IV Ceftriaxone  
for  $\geq$  10 days

**Other considerations for antibiotic therapy**

- Consider **TB meningitis** if raised CSF WCC and risk factors for TB
- If Herpes Simplex meningoencephalitis is considered, give **aciclovir**
- Add **vancomycin** if recently overseas, or prolonged/multiple antibiotic exposure in past 3 months

### Long-term management

- Arrange formal audiological assessment prior to discharge
- On discharge, provide patients/parents with written information regarding potential long term effects of bacterial meningitis
- Offer contact details of patient support organisations
- Follow up appointments with paediatrician within 4-6 weeks of discharge

### References:

1. Meningitis (bacteria) and Meningococcal Septicaemia in under 16s: Recognition, Diagnosis and Management. NICE Guidelines CG102.  
<https://www.nice.org.uk/guidance/cg102>