

## Acute Bacterial Prostatitis in Adults - Microbiology Summary Clinical Guideline

Reference number: CG-ANTI/2023/046

Symptoms and signs of acute bacterial prostatitis (e.g. perineal-scrotal pain, urgency, frequency, dysuria, pyuria, prostate tenderness, and prostatomegaly)

Review the past microbiology results, with specific reference to previous genito-urinary samples:

- Culture positive for *Escherichia coli*, and *Proteus*, *Klebsiella*, and *Pseudomonas* species:
  - Noting susceptibility or resistance to first and second line options for acute bacterial prostatitis

AND

Request new pathology investigations:

- Urine for MC&S
- ± Blood cultures
- ± FPU for chlamydia and gonorrhoea, ± urethral swab
- FBC, CRP, ± lactate, U&Es, LFTs, and clotting

Treatment, criteria for intravenous antibiotics:

- (1) Progression of symptoms and signs after 48 hours of per oral antibiotics
- (2) Intolerant of per oral antibiotics
- (3) Acute urinary retention
- (4) Sepsis
- (5) Septic shock

No criteria for intravenous

Criteria (1) or (2)

Criteria (3)

Criteria (4)

Criteria (5)

Per oral antibiotics in the community

Consider intravenous therapy in hospital or via OPAT in the community

Intravenous therapy in hospital

Intravenous therapy in hospital ± in the ICU

Intravenous therapy in the ICU

Empiric antibiotics (please note, page 2)

Directed antibiotics with culture and susceptibilities (please note, microbiology full clinical guideline pages 4-6)

### Empiric antibiotics; without a differential diagnosis of chlamydia/gonorrhoea

	First line <sup>1</sup>	Second line <sup>2</sup>	Third line <sup>2</sup>	Fourth line <sup>2</sup>	Fifth line <sup>2</sup>
Empiric, per oral antibiotics	<a href="#">Ciprofloxacin</a> 500 mg 12 hourly	Trimethoprim <sup>3</sup> 200 mg 12 hourly	Co-amoxiclav <sup>3</sup> 625 mg 8 hourly <b>PLUS</b> amoxicillin 500 mg 8 hourly	Fosfomycin <sup>4</sup> 3 g 24 hourly for 7 days; thereafter, 3 g 48 hourly	-
Empiric, OPAT	Options may include: (i) ceftriaxone <sup>3</sup> 2 g intravenously 24 hourly; (ii) ertapenem <sup>3</sup> 1 g intravenously 24 hourly; and (iii) piperacillin tazobactam 18 g infuser 24 hourly				
Empiric, intravenous antibiotics	<a href="#">Ciprofloxacin</a> 400 mg 12 hourly	Ceftriaxone 2 g 24 hourly <b>and</b> tobramycin stat <sup>5</sup>	Co-trimoxazole 960 mg 12 hourly <b>and</b> tobramycin stat <sup>5</sup>	Co-amoxiclav 1.2 g 8 hourly <b>and</b> tobramycin stat <sup>5</sup>	Fosfomycin <sup>4</sup> 4 g 8 hourly <b>and</b> tobramycin stat <sup>5</sup>

### Empiric antibiotics; with a differential diagnosis of chlamydia/gonorrhoea

	First line <sup>1, 6</sup>	Second line <sup>1, 7</sup>	Third line <sup>2</sup>	Fourth line
Empiric, per oral and intramuscular antibiotics	Ceftriaxone 1 g intramuscular or intravenous single dose <b>and</b> <a href="#">ciprofloxacin</a> 500 mg per oral 12 hourly and doxycycline 100 mg per oral 12 hourly	<a href="#">Ciprofloxacin</a> 500 mg per oral 12 hourly and doxycycline 100 mg per oral 12 hourly	Co-amoxiclav <sup>3</sup> 625 mg 8 hourly <b>PLUS</b> amoxicillin 500 mg 8 hourly <b>and</b> doxycycline <sup>8</sup> 100 mg per oral 12 hourly	-
	First line <sup>1, 6</sup>	Second line <sup>2, 6</sup>	Third line <sup>2, 6</sup>	Fourth line <sup>2, 7</sup>
Empiric, intravenous and per oral antibiotics	Ceftriaxone 1 g intravenous single dose <b>and</b> <a href="#">ciprofloxacin</a> 400 mg intravenously 12 hourly and doxycycline 100 mg per oral 12 hourly	Ceftriaxone 2 g 24 hourly and tobramycin stat <sup>5</sup> <b>and</b> doxycycline <sup>8</sup> 100 mg per oral 12 hourly	Meropenem 1 g intravenously 8 hourly <b>and</b> doxycycline <sup>8</sup> 100 mg per oral 12 hourly	<a href="#">Ciprofloxacin</a> 400 mg intravenously 12 hourly <b>and</b> doxycycline 100 mg per oral 12 hourly

<sup>1</sup> If there is no history of a urogenital procedure/surgery with fluoroquinolone prophylaxis

<sup>2</sup> If there is a history of a urogenital procedure/surgery with fluoroquinolone prophylaxis, or if [ciprofloxacin](#) is contraindicated

<sup>3</sup> Spectrums include common bacterial causes of acute bacterial prostatitis; however, no anti-pseudomonal activity

<sup>4</sup> Fosfomycin and this dosage are unlicensed for acute bacterial prostatitis

<sup>5</sup> Tobramycin stat, [dose as per hospital guidelines](#)

<sup>6</sup> If no penicillin allergy or [if non-immediate without systemic involvement penicillin allergy](#) or if nature of penicillin allergy unknown

<sup>7</sup> [If immediate rapidly evolving or non-immediate with systemic involvement penicillin allergy](#)

<sup>8</sup> If doxycycline is contraindicated, azithromycin 1 g per oral on day 1, 500 mg on day 2, and 500 mg on day 3

## References

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## Document control

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