

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

Reference number:CG-ANTI/2023/069

Symptoms and signs of chronic 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*, etc.:
  - Noting susceptibility or resistance to first and second line options for chronic bacterial prostatitis



Request new pathology investigations:

- Chronic bacterial prostatitis can be investigated with 'two glass' methodology in theatre:
  - 5-10 ml of pre-prostate massage, cystoscopy urine is sent for MC&S
  - The prostate is next massaged and expressed prostatic secretions are then sent for MC&S
  - ± 5-10 ml of post-prostate massage, cystoscopy urine is also sent for MC&S



Empiric antibiotics

- If there is no history of a urogenital procedure/surgery with fluoroquinolone prophylaxis:
  - First line: [ciprofloxacin](#) 500 mg 12 hourly
- If there is a history of a urogenital procedure/surgery with fluoroquinolone prophylaxis, or if [ciprofloxacin](#) is contraindicated:
  - First line: trimethoprim\* 200 mg 12 hourly
  - Second line: co-amoxiclav\* 625 mg 8 hourly **PLUS** amoxicillin 500 mg 8 hourly
  - Third line: fosfomycin\*\* 3 g 24 hourly for 7 days; thereafter, 3 g 48 hourly
- \* Trimethoprim and co-amoxiclav's spectrums include common bacterial causes of chronic bacterial prostatitis; however, there is no anti-pseudomonal activity
- \*\* Fosfomycin and this dosage are unlicensed for chronic bacterial prostatitis



Directed antibiotics with culture and susceptibilities (please note, microbiology full clinical guideline pages 2-3)

## References

**Bennett, J. E., Dolin, R., and Blaser, M. J.** 2015. Mandell, Douglas, and Bennett's Principles and Practice of Infectious Diseases, 8<sup>th</sup> Edition. Elsevier.

**Bonkat, G., Pickard, R., Bartoletti, R., Cai, T., Bruyere, F., Geerlings, S. E., Koves, B., and Wagenlehner, F.** 2022. EAU Guidelines on Urological Infections.

Available at: [EAU-Guidelines-on-Urological-Infections-2022.pdf](https://www.euro.uptodate.com/consultation/EAU-Guidelines-on-Urological-Infections-2022.pdf)  
([d56bochluxqnz.cloudfront.net](https://d56bochluxqnz.cloudfront.net)).

**Johns Hopkins ABX Guide.** 2016. Prostatitis, Acute Bacterial. Available at: [Prostatitis, Acute Bacterial | Johns Hopkins ABX Guide \(hopkinsguides.com\)](https://www.hopkinsguides.com/hopkins/view/1111823233/1111823233/prostatitis_acute_bacterial.html).

**Karaiskos, I., Galani, L., Sakka, V., Gkoufa, A., Sopilidis, O., Chalikopoulos, D., Alivizatos, G., and Giamarellou, E.** 2019. Oral fosfomycin for the treatment of chronic bacterial prostatitis. Journal of Antimicrobial Chemotherapy.

**Meyrier, A. and Fekete, T.** 2023. Chronic bacterial prostatitis. Available at: [Chronic bacterial prostatitis - UpToDate](https://www.uptodate.com/consultation/Chronic-bacterial-prostatitis).

**National Institute for Health and Care Excellence (NICE).** 2018. Prostatitis (acute): antimicrobial prescribing. Available at: [Prostatitis \(acute\): antimicrobial prescribing \(nice.org.uk\)](https://www.nice.org.uk/guidance/ta674).

**Sanford Guide Antimicrobial Therapy.** 2022. Prostatitis, Bacterial Acute. Available at: <https://www.sanfordguide.com/products/digital-subscriptions/>.

## Document control

<b>Development of guidelines:</b>	Kayleigh Lehal, Dr Peter Slovak, Dr Hayley Wood
<b>Consultation with:</b>	Consultant Genitourinary Medicine, Lead Antimicrobial Pharmacist, Microbiology Consultant,
<b>Version:</b>	2
<b>Approval date:</b>	Antimicrobial Stewardship Group - 25/04/2023 Surgical division - 11/05/2023
<b>Changes from previous version:</b>	Introduction: reworded (minor) and reformatted (minor). Diagnosis: reworded (minor) and reformatted (minor). Investigation: reworded (minor) and reformatted (minor). Treatment: reworded (minor) and reformatted (minor). Management: reworded (minor) and reformatted (minor). References: updated (minor).
<b>Date uploaded:</b>	24/5/2023
<b>Next review date:</b>	June 2026
<b>Key contacts:</b>	Dr Peter Slovak, Microbiology Consultant <a href="mailto:p.slovak@nhs.net">p.slovak@nhs.net</a> Kayleigh Lehal, Lead Antimicrobial Pharmacist <a href="mailto:kayleigh.lehal@nhs.net">kayleigh.lehal@nhs.net</a>