

Navigating the management of cholestatic pruritus in patients with PBC: Insights from the multidisciplinary team

Practice aid for cholestatic pruritus in PBC

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Burden of cholestatic pruritus in patients with PBC



Occurs in up to **81% of patients** and may persist **chronically** in at least **35%**¹



Pruritus shows inter-and intra-individual variation and is **not linked to PBC stage or severity**^{1,2}



No primary lesions or primary rash, though may see secondary lesions, e.g. excoriations, lichenification, prurigo nodules and scarring^{1,2}



Intensity of itch is **often worse at night**, causing **sleep deprivation**, **exhaustion** and **fatigue**^{1,2}



Itch can have a **significantly detrimental effect on QoL** and can lead to suicidal ideation^{1,3}



Female patients report **more intense** pruritus **during hormonal changes,** e.g. the luteal phase of the menstrual cycle, during pregnancy or when taking HRT^{1,2}

Basic assessment of itch in PBC²

Patients may not associate itching with their PBC, so **may not proactively report their symptoms Cholestatic pruritus should, therefore, be assessed at the time of diagnosis and at all follow-up visits**

Factors to assess include:



Patients may find it useful to **keep a record of pruritic activity in the form of a diary or in a digital format** that can be assessed together with their clinician at follow-up visits



Tools for assessing itch in PBC

NRS: intensity of itching is ranked from 0 (no itch) to 10 (worst itch imaginable)^{4,5}

VAS: intensity of itching marked on a 10 cm ruler (0=no itch; 10=worst itch imaginable)⁴

PGI-S: severity of itching at that time point is ranked from 1 (not present) to 7 (extremely severe)^{6,7}

PGI-C: change in severity of itching since baseline is ranked from 1 (very much improved) to 7 (very much worse)^{6,7}

5-D itch scale: five domains include **degree (severity)**, duration, direction, **disability** and distribution.^{7–9} First four domains measured on a 5-point Likert scale; 'distribution' includes 16 potential locations⁹

PBC-40: assesses **HRQoL** of patients with PBC with 40 questions over six domains (one of which is itch). Itch domain includes three questions to assess impact of itch over the last 4 weeks rated on a 5-point scale (never, rarely, sometimes, most of the time, always)¹⁰

Treatment of cholestatic pruritus in PBC

EASL 2017 guideline recommendations¹¹

| Line of treatment | Agent | МоА | Approval |
|----------------------|---------------------------------------|---|---------------------------|
| First-line | Cholestyramine | Bile acid sequestrant and anion exchange resin ^{2,11,12} | Yes ^{2,12} |
| Second-line | Rifampicin/ rifampin ¹³ | Antibiotic ^{12,14} | Off-label ^{2,12} |
| Third-line | Naltrexone or nalmefene | μ-opioid receptor antagonists ^{2,11,12} | Off-label ^{2,12} |
| Subsequent lines in | Sertraline | SSRI | Off-label ^{2,12} |
| unresponsive disease | Gabapentin | Anticonvulsant ¹⁵ | Off-label ² |

Japanese 2014 guideline recommendations¹⁴

Commonly used to measure pruritus at time of assessment or the worst pruritus in the previous 24 hours⁴

| Line of treatment | Agent |
|-------------------|-----------------------------------|
| First-line | Cholestyramine |
| Subsequent lines | Rifampicin/rifampin ¹³ |

Japanese approvals post-2014 guidelines^{2,12}

| Agent | МоА |
|-------------|---------------------------|
| Nalfurafine | к-opioid receptor agonist |



Liver transplantation when pruritus is 'persistent and intractable' after therapeutic trials¹¹

Practice aid for cholestatic pruritus in PBC

Practical tips for managing cholestatic pruritus

Patients should receive education on pruritus as a symptom of PBC as well as being advised on general pruritus-relieving measures²

Avoid skin dryness/irritation

- X Heat, e.g. heavy or heat-retaining bedclothes^{2,17}
- X Frequent (more than once a day) washing with hot water^{2,17}
- X Extensive rubbing of the skin after showering²
- X Contact with possible irritants, e.g. tea tree oil/chamomile²
- X Overly scented detergents²
- X Tight clothing or clothes made of animal wool^{2,16}
- X Consumption of large amounts of hot and/or spicy food, hot drinks or alcohol²

Protect the skin and decrease pruritic activity

- ✓ Wash with cold or lukewarm water^{2,11,16,17}
- ✓ Use mild/non-alkaline soaps and oils that do not produce a lather^{2,17}
- ✓ Use topical emollients with cooling and/or anaesthetic effects (e.g. emollients containing 1–2% menthol or polidocanol)^{2,11,16,17}
- ✓ Wear soft, breathable clothing^{2,17}
- ✓ Keep nails short to avoid skin damage^{2,17}
- ✓ Try **patting** rather than scratching/rubbing¹⁷
- ✓ Manage stress¹⁷

Some patients may benefit from relaxation techniques or psychological interventions for coping with the itch-scratch cycle²

Collaborating to support patients with PBC and cholestatic pruritus

- To improve disease outcomes, facilitate treatment adherence and increase patient QoL, proactive pruritus management strategies should be implemented, including patient education and counselling¹⁸
- Pruritus in PBC is subjective and carries individual threshold variations, therefore, a comprehensive approach to care is required.¹⁸
 Management of patients with cholestatic pruritus should go beyond symptom monitoring and assume a patient-centric attitude to all symptom management¹⁸
- Signposting patients to patient support groups such as the <u>PBC foundation</u>, or other national organizations can help them find support materials to help them in their daily lives¹⁹

Insights from a patient advocate

"The itch in particular is very difficult to treat for many people, so I think **having the facility to listen to other patients, as well as doctors is very helpful**."²⁰



"Your hepatologist is your partner, you make decisions together, you discuss things together."²⁰



Abbreviations and references

Abbreviations

EASL, European Association for the Study of the Liver; HRQoL, health-related QoL; HRT, hormone replacement therapy; MoA, mode of action; NRS, numerical rating scale; PBC, primary biliary cholangitis; PGI, Patient Global Impression; PGI-C, PGI-change; PGI-S, PGI-severity; QoL, quality of life; SSRI, selective serotonin reuptake inhibitor; VAS, visual analogue scale.

References

- 1. Jones D, et al. Eur Med J Hepatol. 2023;11:24–33.
- 2. Düll MM, Kremer AE. Clin Liver Dis. 2022;26:727–45.
- 3. Patel SP, et al. J Am Acad Dermatol. 2019;81:1371-8.
- 4. Pereira MP, Ständer S. Itch. 2019;4:e29.
- 5. von Maltzahn R, et al. *J Patient Rep Outcomes*. 2024;8:60. doi: 10.1186/s41687-024-00722-y [published online ahead of print].
- 6. Byrom B, et al. *J Rehabil Assist Technol Eng*. 2020;7:2055668319892778.
- 7. Vernon M, et al. J Am Acad Dermatol. 2021;84:1132–4.
- 8. Hegade VS, at al. Frontline Gastroenterol. 2016;7:158–66.
- 9. Elman S, et al. Br J Dermatol. 2010;162:587–93.
- 10. Jacoby A, et al. Gut. 2005;54:1622-9.
- 11. EASL. J Hepatol. 2017;67:145-72.
- 12. Smith HT, et al. Dig Dis Sci. 2023;68:2710–30.
- 13. Beloor Suresh A, et al. 2023. Available at:

https://www.ncbi.nlm.nih.gov/books/NBK557488/ (accessed 16

September 2024).

- 14. Working Subgroup for Clinical Practice Guidelines for Primary Biliary Cirrhosis. *Hepatol Res.* 2014;44(Suppl.S1):71–90.
- 15. Yasaei R, et al. 2024. Available at: <u>www.ncbi.nlm.nih.gov/books/NBK493228/</u> (accessed 16 September 2024).
- 16. Lindor KD, et al. *Hepatology*. 2019;69:394–419.
- 17. Primary Care Dermatology Society. Available at: <u>www.pcds.org.uk/patient-info-leaflets/itch-pruritus-without-a-rash</u> (accessed 16 September 2024).
- 18. Pate J, et al. BMJ Open Gastroenterol. 2019;6:e000256.
- 19. PBC Foundation. Available at: www.pbcfoundation.org.uk/wp-content/uploads/2023/08/HealthcarePractitionerLeafletJanuary2018 .pdf (accessed 16 September 2024).
- 20. Data on File. touchIME, August 2024.

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