

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%**<sup>1</sup>



Pruritus shows inter-and intra-individual variation and is **not linked to PBC stage or severity**<sup>1,2</sup>



**No primary lesions or primary rash,** though may see secondary lesions, e.g. excoriations, lichenification, prurigo nodules and scarring<sup>1,2</sup>



Intensity of itch is **often worse at night**, causing **sleep deprivation**, **exhaustion** and **fatigue**<sup>1,2</sup>



Itch can have a **significantly detrimental effect on QoL** and can lead to suicidal ideation<sup>1,3</sup>



Female patients report **more intense** pruritus **during hormonal changes,** e.g. the luteal phase of the menstrual cycle, during pregnancy or when taking HRT<sup>1,2</sup>

# Basic assessment of itch in PBC<sup>2</sup>

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)<sup>4,5</sup>

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

PGI-S: severity of itching at that time point is ranked from 1 (not present) to 7 (extremely severe)<sup>6,7</sup>

PGI-C: change in severity of itching since baseline is ranked from 1 (very much improved) to 7 (very much worse)<sup>6,7</sup>

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

**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)<sup>10</sup>

# **Treatment of cholestatic pruritus in PBC**

# EASL 2017 guideline recommendations<sup>11</sup>

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

Japanese 2014 guideline recommendations<sup>14</sup>

Commonly used to measure pruritus at time of assessment or the worst pruritus in the previous 24 hours<sup>4</sup>

Line of treatment	Agent
First-line	Cholestyramine
Subsequent lines	Rifampicin/rifampin <sup>13</sup>

### Japanese approvals post-2014 guidelines<sup>2,12</sup>

Agent	МоА
Nalfurafine	к-opioid receptor agonist



**Liver transplantation** when pruritus is 'persistent and intractable' after therapeutic trials<sup>11</sup>

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# 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 measures<sup>2</sup>

#### Avoid skin dryness/irritation

- X Heat, e.g. heavy or heat-retaining bedclothes<sup>2,17</sup>
- X Frequent (more than once a day) washing with hot water<sup>2,17</sup>
- X Extensive rubbing of the skin after showering<sup>2</sup>
- X Contact with possible irritants, e.g. tea tree oil/chamomile<sup>2</sup>
- X Overly scented detergents<sup>2</sup>
- X Tight clothing or clothes made of animal wool<sup>2,16</sup>
- X Consumption of large amounts of hot and/or spicy food, hot drinks or alcohol<sup>2</sup>

#### Protect the skin and decrease pruritic activity

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

Some patients may benefit from relaxation techniques or psychological interventions for coping with the itch-scratch cycle<sup>2</sup>

# **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 counselling<sup>18</sup>
- Pruritus in PBC is subjective and carries individual threshold variations, therefore, a comprehensive approach to care is required.<sup>18</sup>
  Management of patients with cholestatic pruritus should go beyond symptom monitoring and assume a patient-centric attitude to all symptom management<sup>18</sup>
- 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 lives<sup>19</sup>

# 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**."<sup>20</sup>



"Your hepatologist is your partner, you make decisions together, you discuss things together."<sup>20</sup>



#### 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.

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