

Background

Paediatric burns are among the most common serious childhood injuries, with the highest incidence in children under four (1).

These children cannot self-report concerns during clinical encounters, so parents act as their voice but frequently struggle to articulate concerns in time-pressured appointments, risking important issues being missed(2,3).

The Adult Burns Patient Concerns Inventory (AB-PCI) already exists to facilitate structured patient-clinician communication in adult burns care, but no equivalent paediatric tool exists, leaving a significant gap in structured parental proxy communication. (4,5).

Aims

This project employed a two-phase approach to explore and begin development of a Paediatric Burns PCI (PB-PCI).

Phase 1 – Scoping

Exploratory Aims

- Review current literature on unmet needs and concerns in paediatric burns.
- Investigate if prompt sheets and similar tools are used.

Informative Aims

- Determine the most appropriate format(s) for a PB-PCI.
- Identify initial steps toward the design and content of a PB-PCI.

Phase 2 – Survey & Data Collection

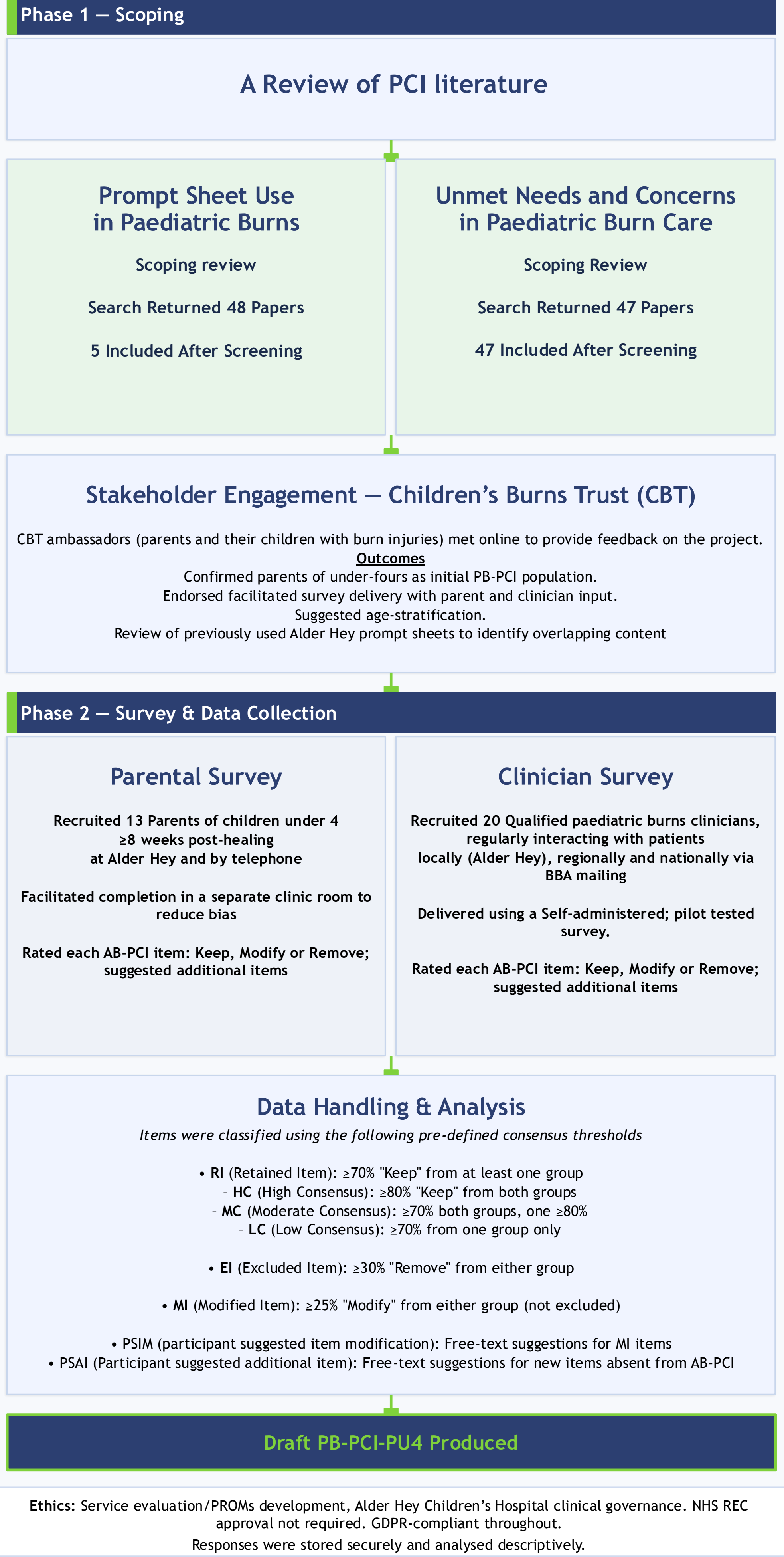
Primary Aims

- Assess which items should be retained.
- Identify items for exclusion.
- Highlight items needing modification.
- Collect item suggestions from parents and clinicians for addition.
- Capture suggestions for modifications to existing AB-PCI items.

Secondary Aims

- Collect data on the roles of clinician participants.
- Document demographic details of the children of parental participants.

Methods



Results

Scoping Phase

Unmet Needs and concerns: Identified 6 concern domains (physical/functional well-being, psychological/emotional needs, carer-specific burdens). Evidence of concerns changing with age and widespread parental proxy reporting.

Prompt Sheets: Parental proxy reporting within structured tools was acceptable and reliable. Patient self-reporting preferred where available.

Children's Burns Trust: AB-PCI an appropriate foundation with parental proxy version for under-fours identified as logical starting point. Age-specific versions suggested.

Modified Items

50 items received at least one suggestion for modification. Age relevance was the most common modification category All 6 items were clinician-endorsed for modification

- Anger (35%)
- Flashbacks (40%)
- Work/Education (30%)
- Anxiety (25%)
- Appearance (25%)
- Body image (26%)

Figure 1. AB-PCI Retained Items (RI) Grouped by Consensus Level and Primary Endorsing Group

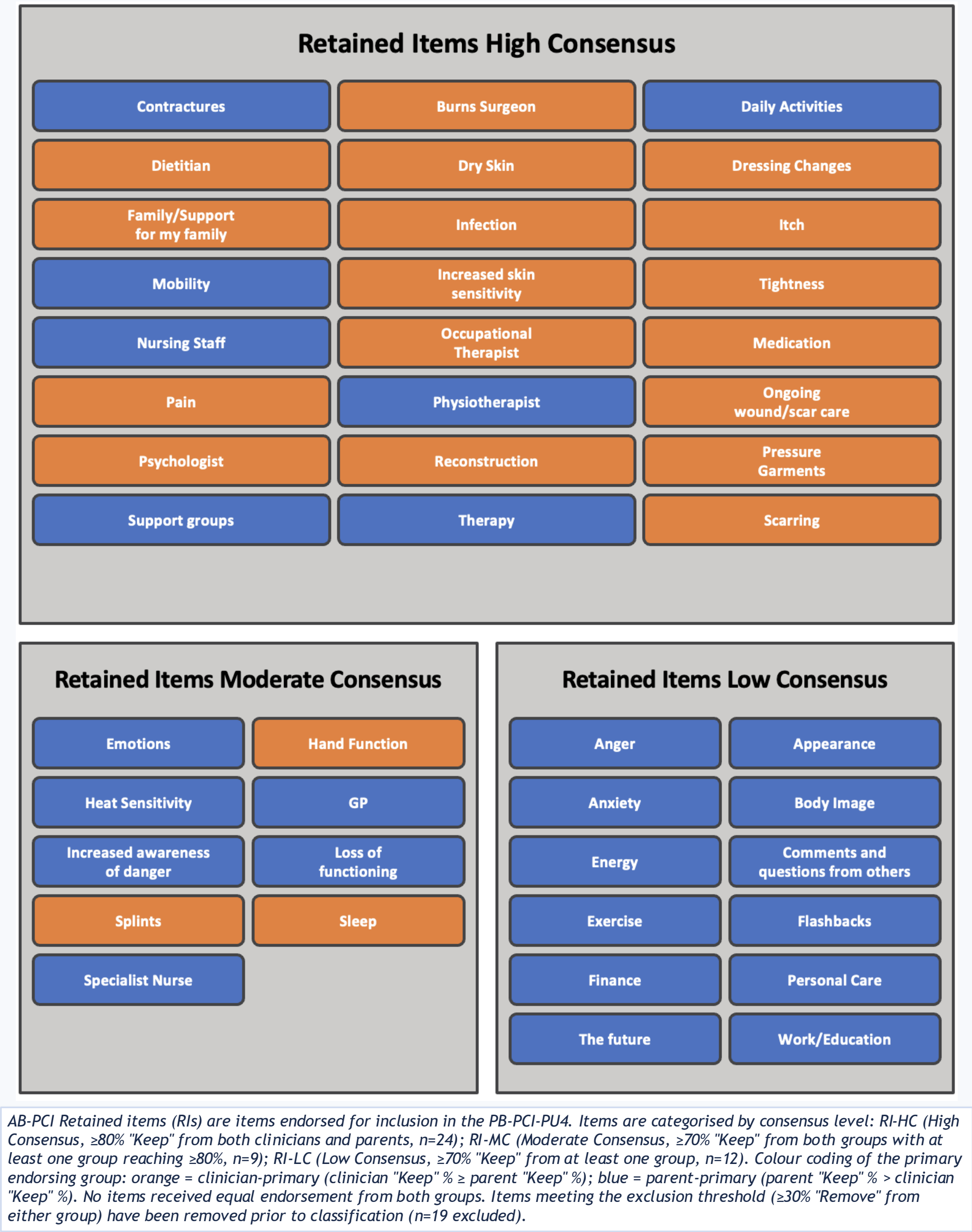
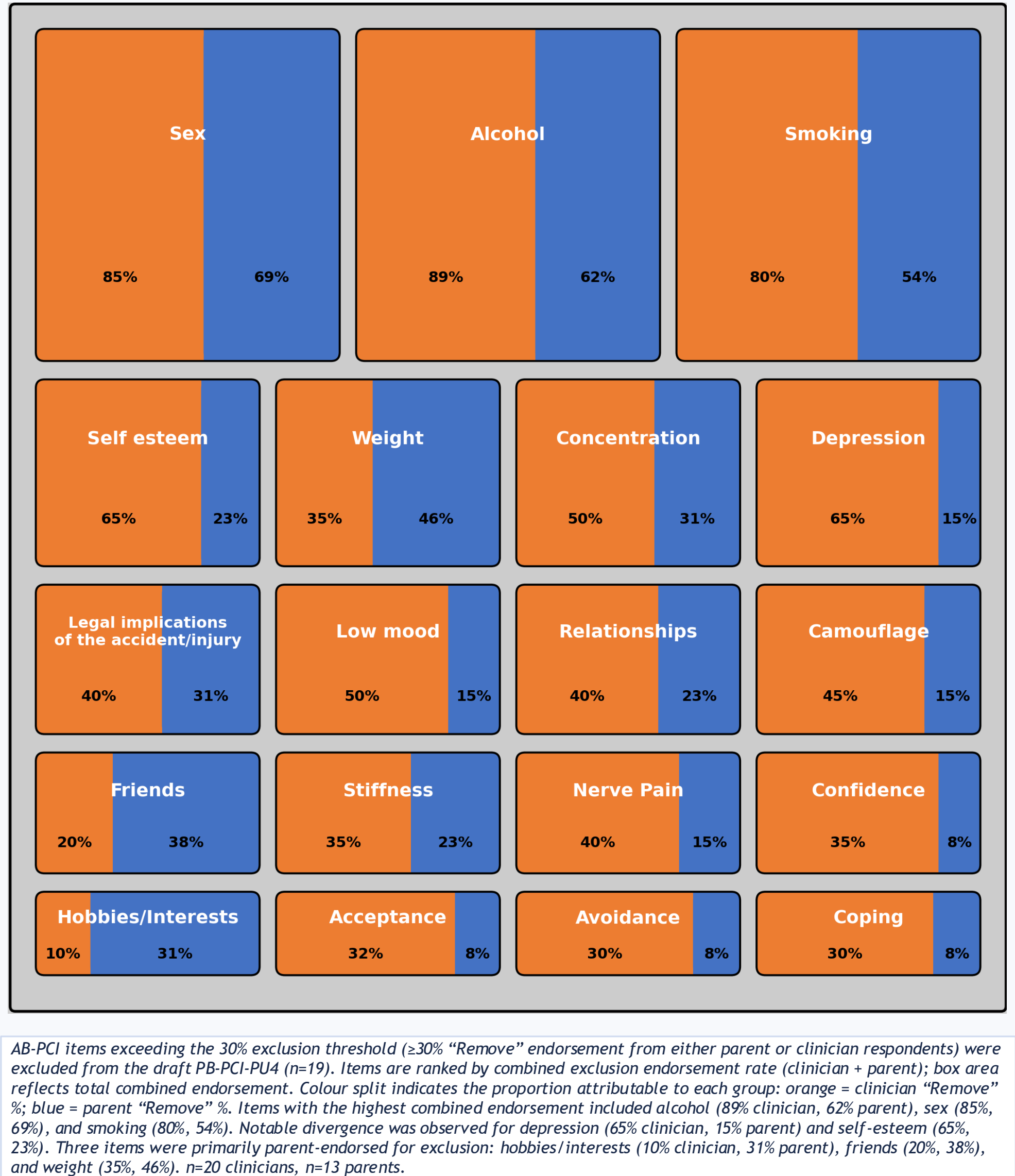


Figure 2. Excluded Items (EI) from the AB-PCI Ranked by Combined Removal Endorsement Rate with Clinician and Parent Contribution



Discussion

This is the first project to adapt the Adult Burns PCI for use in paediatric care, producing a structured tool to help parents of children with burn injuries communicate their concerns during clinic appointments.

Of 70 AB-PCI items reviewed, 45 were retained across three levels of consensus, covering physical, treatment-related and psychosocial concerns. In total 19 items were excluded for clear adult-orientation.

Notably, parents' and clinicians' opinions sometimes diverged, for example on depression and self-esteem, highlighting the importance of capturing both perspectives.

Strengths: Evidence-based approach; input from both parents and clinicians; systematic item-by-item evaluation.

Limitations: Small parental sample from a single centre; requires formal validation before clinical use. This work demonstrates that developing a paediatric burns concerns checklist is not only feasible but needed. The project acts as a foundation for further validation and age-specific versions that could transform how families and clinicians communicate across all stages of childhood.

Future Directions

Clinical piloting in outpatient burns clinics to assess usability and consultation impact.

Formal validation across multiple UK burns services.

Item refinement through formal focus groups and interviews to confirm items modifications and any additional items prior to finalisation.

Age-appropriate versions for older children and adolescents, including self-reported formats.

Translation into other languages to support non-English-speaking families.

Figure 3. Draft PB-PCI-PU4 Adapted from the AB-PCI

Insert tailored branding for PCI users/Burns services here.

Paediatric Burn Patient Concerns Inventory [PCI] for Parents of Children Under 4

Please choose from the list of issues you would specifically like to talk about in your child's consultation in clinic today. You can choose more than one option (tick boxes).

Physical and functional well-being: ☐ Contractures ☐ Daily Activities ☐ Dry Skin ☐ Energy ☐ Exercise ☐ Hand Function ☐ Heat Sensitivity ☐ Increased skin sensitivity ☐ Itch ☐ Loss of functioning ☐ Mobility ☐ Nerve Pain ☐ Pain ☐ Scarring ☐ Sleep ☐ Stiffness ☐ Tightness ☐ Weight	Psychological, emotional and spiritual well-being: ☐ Acceptance ☐ Alcohol ☐ Anger ☐ Anxiety ☐ Appearance ☐ Body image ☐ Avoidance ☐ Comments and questions from others ☐ Concentration ☐ Confidence ☐ Coping ☐ Depression ☐ Emotions ☐ Flashbacks ☐ Increased awareness of danger ☐ Low mood ☐ Psychological Trauma ☐ Relationships ☐ Self esteem ☐ Sex ☐ Smoking ☐ The future	Treatment related concerns: ☐ Camouflage ☐ Dressing changes ☐ Infection ☐ GP ☐ Medication ☐ Ongoing wound/scar care ☐ Pressure Garments ☐ Reconstruction ☐ Splints ☐ Support groups ☐ Therapy
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Suggested Additions

- Play
- Play Therapist
- Burn Club/Camp
- Starting School
- Development
- Siblings
- Guilt
- Future Treatment

Social Care and Social well-being:

- ☐ Family/Support for my family
- ☐ Finance
- ☐ Friends
- ☐ Hobbies/Interests
- ☐ Legal implications of the accident/injury
- ☐ Personal Care
- ☐ Work/Education

Name: Affix label here

Insert tailored branding for PCI users/Burns services here.

The following page gives you the opportunity to highlight people you may wish to talk to. Are there any people you would specifically like to talk with either in clinic or by referral?

☐ Burns Surgeon	☐ Occupational Therapist
☐ Nursing Staff	☐ Physiotherapist
☐ Specialist Nurse	☐ Other:
☐ Psychologist	
☐ Dietician	

Thank you for your time. All information is confidential. We found PCI has helped patients express issues in their clinic. Please hand this to clinic staff.

© Acknowledgements regarding the creation of the PB-PCI

Name: Affix label here

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References

- Banga AT, Westgarth-Taylor C, Grieve A. The epidemiology of paediatric burn injuries in Johannesburg, South Africa. J Pediatr Surg. 2023;58:287-292.
- Ye J, Yang L, Axelin A, et al. The implementation and strategy of triadic communication in pediatric oncology: a scoping review. Pediatr Res. 2025;97:1803-1822.
- Phillips C, Rumsey N. Considerations for the provision of psychosocial services for families following paediatric burn injury. Burns. 2008;34:56-62.
- Rogers SN, El-Sheikha J, Lowe D. The development of a Patients Concerns Inventory (PCI) to help reveal patients concerns in the head and neck clinic. Oral Oncol. 2009;45:555-561.
- Gibson JAG, Spencer S, Rogers SN, Shokrollahi K. Formulating a Patient Concerns Inventory specific to adult burns patients: learning from the PCI concept in other specialties. Scars Burn Heal. 2018;4:2059513118763382.
- Gibson JAG, Yarrow J, Brown L, Evans I, Rogers SN, Spencer S, et al. Identifying patient concerns during consultations in tertiary burns services: development of the Adult Burns Patient Concerns Inventory. BMJ Open. 2019;9:e032785