Comfort positioning during procedures in pediatric dermatology

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Abstract

Procedures performed in pediatric dermatology can often be painful or distressing for patients and their families. Comfort positioning, which involves sitting the child upright, immobilized and held by a caretaker, is one strategy that may be employed in this setting; this measure has been shown to reduce patient distress, improve cooperation and give caretakers a more active role in the procedure. We demonstrate several positions of comfort for dermatologic procedures involving the arm, cheek, back and leg of a young child.

Introduction

The care of patients in pediatric dermatology often necessitates procedures which may be uncomfortable or painful, including skin biopsy, intralesional injection and cryotherapy. There has been substantial work within the pediatric literature exploring nonpharmacologic strategies for reducing procedural pain and anxiety, including preprocedural preparation, effective and age-
appropriate intraprocedural communication, parental involvement and distraction.1, 2 The use of
cognitive behavioural techniques as well as distraction tools has been described in the setting of
pediatric dermatology in particular.3, 4

Comfort positioning is yet another promising modality that can improve the patient experience
during painful dermatologic procedures. This technique involves the child sitting upright,
immobilized and held by a parent (rather than lying supine on an examination table). Supine
positioning increases the sense of vulnerability felt by the patient and can quickly escalate
preprocedural anxiety.5 In contrast, comfort positioning has been shown to reduce distress in
children during the three periods of a procedure (pre-procedure, procedure and post-procedure)
without, in the case of intravenous catheter insertion, increasing the number of procedure
attempts necessary.6 It also may require fewer people to complete the procedure and can give
parents a more active role in supporting the child, resulting in increased parental satisfaction
scores.7

Through the collaboration of a child life specialist, physicians and nursing staff, comfort
positions were successfully implemented in our pediatric dermatology clinic. In the following,
we present three different comfort positions for dermatologic procedures involving the arm,
cheek, back and leg, respectively, of a young child. We discuss the salient features of each
position and how they may be replicated.

**Comfort Positions**

Each comfort position must begin with an overview of the procedure in order to ensure that the
caregiver feels safe participating. The actual position of comfort should include the child sitting
upright when applicable, as much skin to skin contact with the caregiver as possible, and
immobilization of the procedure site. A staff helper is a critical component of child positioning; immobilization by the staff member ensures safety (whereas caregiver holding is primarily for comfort). Additionally, extraneous people (ie other siblings) should be removed from the room when possible.

The back-to-chest position (Figure 1) has the child sitting with his back to the caregiver's chest allowing the child to be hugged from behind. The position in Figure 1 shows the caregiver securing both arms and legs by crossing her legs over his ankles. The holder staff member immobilizes the child's face, and he is still able to engage in distraction (in this case, watching a video).

The side-sitting position (Figure 2) uses a similar approach to back-to-chest but with the caregiver sitting in a chair so that the examination table may be used as a work surface for the upper extremity. The caregiver is able to secure the opposite arm and legs, while the child is able to engage in distraction. The holder uses the examination table to stabilize her elbow and hand for sufficient immobilization.

The chest-to-chest position (Figure 3) has the child sitting facing the caregiver with her legs off to each side. The patient's arms are secured by the caregiver, and the legs can only kick from the knee down in this position, allowing the provider to have full access to the back. This position can also be used with only one arm secured for an upper extremity procedure and allows the patient to watch or engage in distraction in the opposite direction. In addition, the position can be employed for a procedure on the lower extremity (Figure 4), as the arms and opposite leg are secured and the holder staff member can secure from the knee to ankle. If access to the upper or
inside leg is needed for a procedure, sitting up also helps to limit leg movement more than with the supine position (which allows for more upper leg movement).

**Conclusion**

Comfort positioning techniques are an invaluable tool that has many benefits for patients and families, including decreasing distress during both present and future procedures, increasing a sense of control and improving cooperation.6, 7 With some practice, these techniques may be seamlessly integrated into the procedural workflow of any pediatric dermatologist.
References


Figure 1. Back-to-chest position for a procedure involving the face
Figure 2. Side-sitting position for a procedure involving the upper extremity
Figure 3. Chest-to-chest position for a procedure involving the back
Figure 4. Chest-to-chest position for a procedure involving the lower extremity