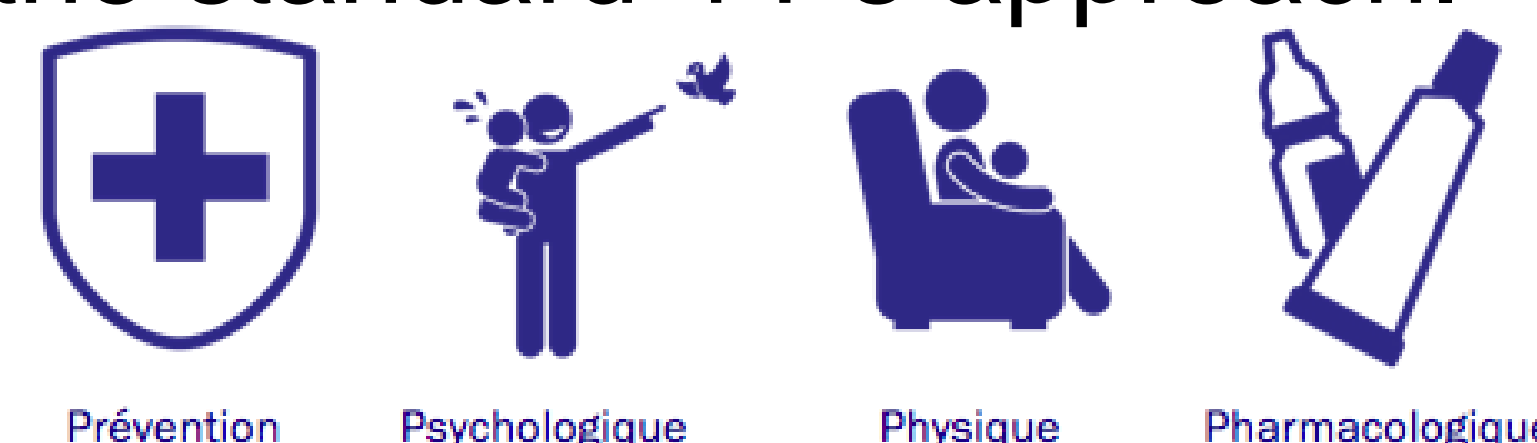


INTRODUCTION

- For some procedures and/or some patients, distraction, comfort positioning and topical anaesthetic will not provide sufficient comfort.
- In these cases, the use of nitrous oxide (N₂O) can be a key adjunct to the standard 4 Ps approach.



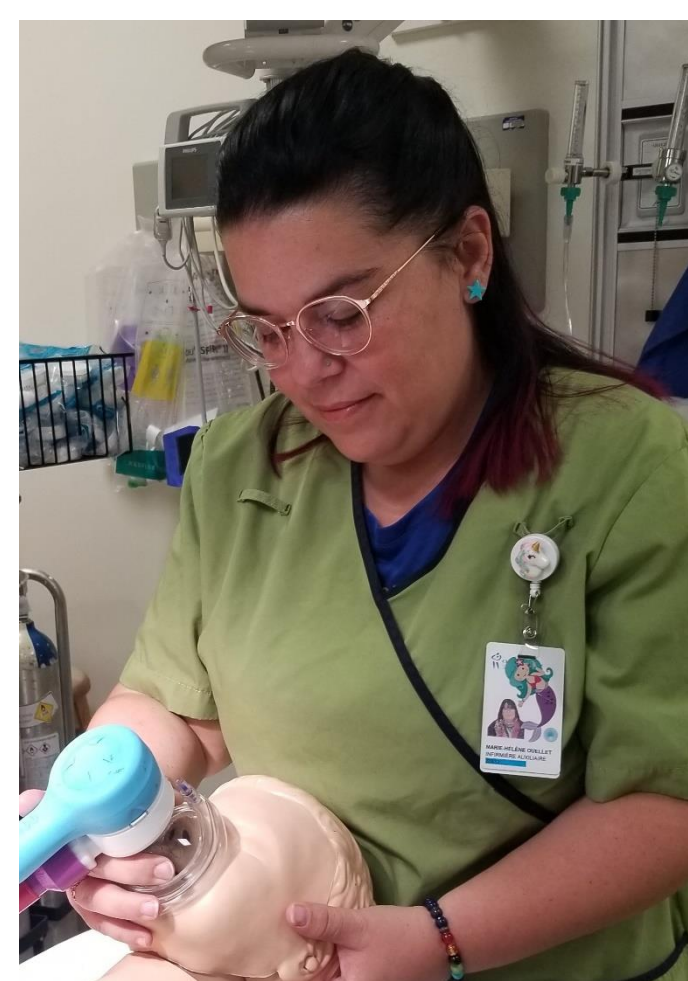
- Tout doux* is a QI hospital-wide initiative, aiming to decrease pain and distress during procedures.

OBJECTIVES

- To increase the accessibility to N₂O in a pediatric tertiary care hospital in order to improve pain and distress management for selected procedures.

METHODS

- The N₂O project includes:
 - Training of healthcare providers (HP)
 - In the 4Ps approach
 - On N₂O use
 - Type of training included
 - E-learning
 - Formal presentation sessions
 - Certification requires success in
 - 2 simulated case scenarios
 - Supervised first-use with patients
 - Refreshing tools composed of
 - Guideline <http://www.urgencehsj.ca/protocoles/nitronox-protoxyde-dazote/>
 - A prewritten order
- The deployment is planned over a two-year period



IMPROVING ACCESSIBILITY TO N₂O IN A PEDIATRIC HOSPITAL DESPITE A PANDEMIC

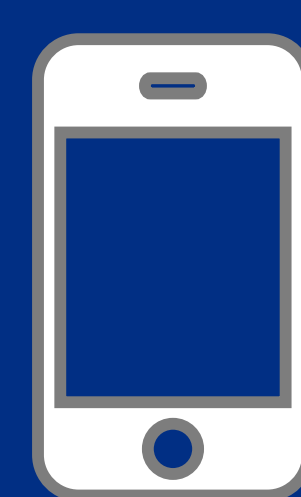
-A *tout doux* project-

E D.Trottier^{1,2}, MJ Doré-Bergeron^{1,3}, J Paquette^{1,4}, P Laforce^{1,4}, A Lacroix^{1,5}, E Villeneuve^{1,6}
¹Tout doux team, ²Paediatric Emergency ³Paediatric, ⁴Pain and sedation nursing advisor, ⁵Nursing Management, ⁶Anaesthesia, CHU Sainte-Justine, Montreal, Quebec

Adaptation of the education initiatives and collaboration successfully improved the access to N₂O in a tertiary pediatric hospital despite the arrival of the pandemic.



HP providers reported successful use for needle procedures in distressed children, in children with special needs and for some procedures that can be particularly distressing such as lumbar puncture



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RESULTS

- 2019:** training offered on general paediatric wards
 - > All nurses: **58**
 - > **Barrier:** Different levels of comfort with N₂O
- Solution:** focus on training selected HPs, titled 'N₂O champions', to increase HP comfort with its use
- 2020:** N₂O champions trained in day hospital, ED
 - > Total of additional 49 HPs.
 - > **Barrier:** covid-19 pandemic
- Solution:** Collaboration of *tout doux* initiative, sedation committee and infection control team
 - > COVID adapted guideline
<http://www.urgencehsj.ca/protocoles/covid-19-sedation/>
 - > Update training sessions for HPs
 - > Refreshing video tool
<http://www.urgencehsj.ca/savoirs/protoxyde-dazote-nitronox>
- 2020-21:** N₂O champions trained in day hospital (18), ED (17), mobile team (7), nursing direction (13) and hematology (27):

> **Total of 141 HPs trained in CHUSJ at the moment**



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