

# Improving analgesia prescribing and administration for paediatric day case dental surgery

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## BACKGROUND

This quality improvement project builds on previous work aiming to improve perioperative analgesia prescription and administration in paediatric patients undergoing day case dental surgery.

The first PDSA cycle was performed in 2016 and showed poor analgesia administration. A targetted MDT programme of education on perioperative analgesia was delivered. This led to improved administration rates in both 2017 and 2018.

## PROBLEM

The 2018 study had demonstrated poor routine prescribing of perioperative analgesia, particularly NSAIDs

## STRATEGY FOR CHANGE

Introduction of Cerner, an Electronic Patient Record system in November 2019

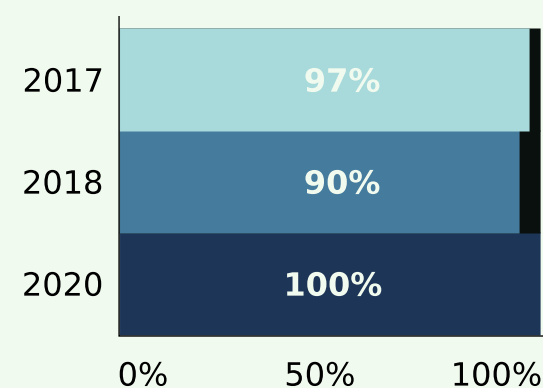
## MEASURES

Standard: All patients should receive paracetamol and a NSAID prior to discharge when not contraindicated

Total	100 patients
Dates	11/02/2020 - 13/03/2020
Sex	M:F 52:48
Age	median 6.4 range 1.3 - 15.8
ASA	median 1

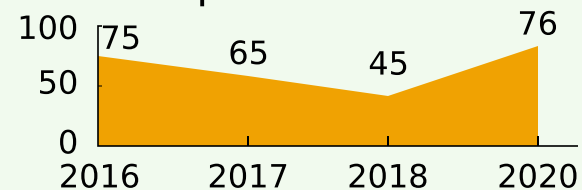
### Paracetamol

Percent administered

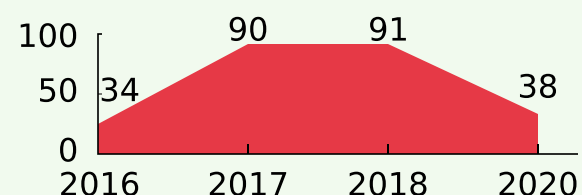


### Ibuprofen

Percent prescribed



Percent administered



## RESULTS

NSAID post-operative prescribing increased from 45% to 76%.

NSAID administration prior to discharge decreased from 91% to 38%.

All patients received paracetamol prior to discharge.

## MESSAGE

The introduction of Cerner was associated with improved prescribing rates of NSAIDs.

Sustaining change is difficult. The success of improved administration of NSAIDs from the previous intervention has been lost in this study.

Going forward there will be a reintroduction of the education programme and training of a nurse champion to sustain the change.