

PAIN MANAGEMENT IN DENTISTRY

SAFE AND EFFECTIVE ALTERNATIVES TO OPIOIDS

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CONSUMPTION

- The USA accounts for only 5% of the global population, yet it accounts for 80% of consumption of global Opioid supply.
- It also accounts for 99% of global consumption of Hydrocodone.

PRESCRIPTION

- 12% of immediate release opioids prescribed in the US are prescribed by dentists.
- 15% of immediate release opioids prescribed in the US are prescribed by family physicians.
- Dentists and family physicians prescribe at least 3 times as many opioids as emergency physicians.

ABUSE

- Hydrocodone and Oxycodone are the most commonly abused immediate release opioids.



OPIOID-RELATED HARM IN CANADA



DEATHS

16,364 apparent opioid-related deaths occurred between January 2016 and March 2020.

Between January and March 2020, **1,018** deaths occurred, of which **96%** were accidental.



HOSPITALIZATIONS

Between January 2016 and March 2020, **20,523** opioid-related poisoning hospitalizations occurred in Canada (excluding Quebec).

Between January and March 2020 there were **1,067** hospitalizations due to opioid-related poisoning, of which **64%** were accidental.



EMERGENCY MEDICAL SERVICES

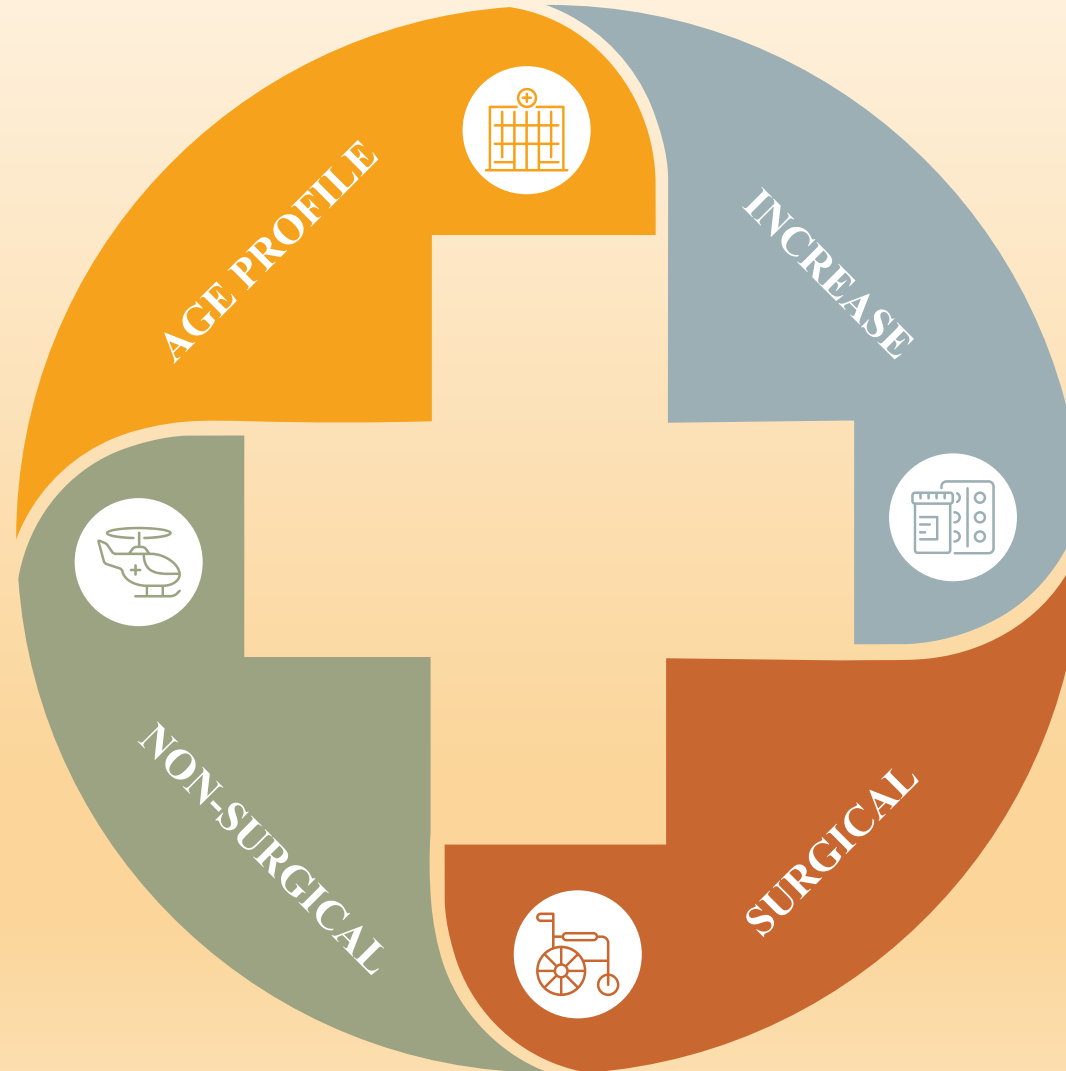
Based on available Emergency Medical Services data from nine provinces and territories, more than **4,560** suspected opioid-related overdoses occurred between January and March 2020.



PRESCRIBING PRACTICES AMONG DENTISTS IN THE US BETWEEN 2010 & 2015

**THE LARGEST
INCREASE IN RATE OF
PRESCRIPTION WAS
AMONG 11-18 YEAR
OLDS**

**31.1% OF OPIOID
PRESCRIPTION WAS
DURING NON-
SURGICAL DENTAL
APPOINTMENTS**



**13.4% INCREASE IN
OPIOID PRESCRIPTION
IN 5 YEARS**

**68.41% OF OPIOID
PRESCRIPTION WAS
RELATED TO DENTAL
SURGERY**

EFFECTIVE ALTERNATIVES TO OPIOIDS IN PAIN MANAGEMENT IN DENTISTRY

IBUPROFEN/ACETAMINOPHEN COMBINATION

- Studies show that the combination of Ibuprofen and Acetaminophen, both in higher and lower doses, increases mean pain relief and for a longer period of time.
- Compared to Ibuprofen monotherapy, a combination of Ibuprofen and Acetaminophen provides faster and longer analgesia in patients with acute lower back pain, with an equally favorable effect functional ability and tolerability.
- For acute extremity pain in emergency departments, there were no statistically significant or clinically important differences in pain reduction after 2 hours between:
 - 400mg Ibuprofen & 100mg Acetaminophen
 - 5mg Oxycodone and 325mg Acetaminophen
 - 5mg Hydrocodone and 300mg Acetaminophen
 - 30mg Codeine and 300mg Acetaminophen

01

NSAIDs

NSAIDs should be considered the drugs of choice to alleviate or minimize pain of endodontic origin.

02

NSAIDs & ACETAMINOPHEN

If NSAIDs are not effective, the combination of NSAIDs with Acetaminophen is recommended.

03

CENTRALLY ACTING DRUGS

If NSAID/Acetaminophen combination is not effective, a combination of NSAIDs and a centrally acting drug is recommended.

04

STERIODS

Use of steroids may be indicated in irreversible pulpitis.