

Canadian Initiatives to Support Safe Use of Acetaminophen (Paracetamol)

EMR Countries Workshop Rabat, Morocco Sylvia Hyland October 2019







Outline

- Canadian Context
- Magnitude of Problem
- Risk-Minimization Strategies
- Finding the Balance in the midst of an Opioid Crisis





Canadian Context

- 4500 Canadians hospitalized annually for overdose (2015)
 - 6% experience liver injury
- Most overdoses are intentional; 20% are unintentional
- The proportion of cases of injury due to unintentional overdose rose from 27% (2006) to 45% (2011)
- There are 500 Acetaminophen containing products marketed in Canada
 - 350 non-prescription products

From Health Canada Summary Safety Review (2015) and Acetaminophen Special Project (2014) cited in: ISMP Canada Safety Bulletin, 2017, Acetaminophen: Preventing Harm through Safe Use. Available from: https://www.ismp-canada.org/download/safetyBulletins/2017/ISMPCSB2017-04-Acetaminophen.pdf





Unintentional Overdoses

Possible causes:

- Belief that non-prescription medications cannot cause harm
- Lack of awareness of maximum daily dose
- Taking more than one product containing acetaminophen (paracetamol)
- Confusion caused by umbrella names
- Pediatric dose calculation/measurement errors

. . .



Canadian Context cont'd

- Most liver injuries are caused by doses higher than 4 g per day
- In the U.S. manufacturers have voluntarily reduced the labelled daily maximum dose for adults from 4 g to 3g.
- The manufacturers have not implemented this labelling change in Canada

ISMP Canada Safety Bulletin, 2017, Acetaminophen: Preventing Harm through Safe Use. Available from: https://www.ismp-canada.org/download/safetyBulletins/2017/ISMPCSB2017-04-Acetaminophen.pdf





Coroner's Office -Public Warning

North

3 deaths in Iqaluit related to prescription Tylenol overdose



'People are assuming that because it's available over the counter it's safe to take at any dose'

CBC News - Posted: Nov 06, 2014 7:05 AM CT | Last Updated: November 7, 2014



Padma Suramala, Nunavut's chief coroner, says lethal amounts of Tylenol are available over the counter. (Vincent Desroslers/CBC)

Nunavut's coroner's office has issued a public warning about the dangers of Tylenol combined with alcohol after three deaths in Iqaluit — a city of about 7,000 people — in the past eight months.

The deaths include a 45-year-old woman who died in March from Tylenol toxicity in Iqaluit.

The next month, a 71-year-old elder died at the Qikiqtani General Hospital due to Tylenol toxicity and liver failure.

Then this month, a 45-year-old man died due to Tylenol overdose with liver and kidney failure.

2014

- Nunavut's Coroner's Office issued a public warning
- 3 deaths due to acetaminophen toxicity
- All 3 individuals had prescriptions for acetaminophen

Available from: https://www.cbc.ca/news/canada/north/3-deaths-in-iqaluit-related-to-prescription-tylenol-overdose-1.2825716 and https://www.cbc.ca/news/canada/kitchener-waterloo/improved-labelling-coming-for-over-the-counter-and-prescription-drugs-1.3665135





Coroner Report - Increased Awareness

The dark side of acetaminophen

By Jennifer Yang Global health reporte Robert Cribb Foreign



2014

Coroner investigating the case of 19-year old Ashley Campbell classified the acetaminophen overdose death as accidental

Ashley's father advocated for greater awareness:

"As a father I thought about pot, I thought about booze...all
the things a dad thinks about with a daughter." "I did not think
about acetaminophen."

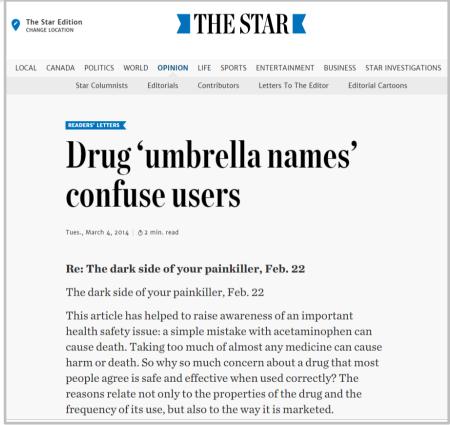
There was a call for stronger warnings on labels

Available from: https://www.thestar.com/news/world/2014/02/21/the dark side of acetaminophen.html





ISMP Canada Letter



Raising awareness of 'umbrella names'

- "The use of 'umbrella names' for marketing purposes is confusing to consumers."
- "This term refers to the use of the same brand name for products that contain different ingredients."
- "Consumers must not assume that they know what a product contains just because it carries a familiar brand name."

Available from https://www.thestar.com/opinion/letters to the editors/2014/03/04/drug umbrella names confuse users.html





Risk-Minimization Strategies

Table 1. Selected risk-minimization strategies

Risk-Minimization Strategy	Considered in the Acetaminophen Safety Review ⁶	Implemented in Other Jurisdictions
Add warnings to packages and inserts	Yes – to strengthen and improve product labelling	Yes (US, ⁶ UK ⁶)
Use blister packs	No	Yes (UK ⁹)
Limit package size	Yes	Yes (UK, 10 AU, 11 NZ6)
Limit the amount of acetaminophen contained in prescription products	Yes – limit amount of acetaminophen contained in opioid combination products	Yes (US ¹²)
Include an accurately calibrated dose-delivery device with all pediatric liquid acetaminophen-containing products	Yes – recommended in 2016 guidance ¹³	Yes (US, ¹⁴ UK ⁸)
Reduce the maximum recommended daily dose	Yes – but not implemented as a result of stakeholder feedback	No – not implemented by the FDA, but voluntarily by Johnson & Johnson in the US ⁷
Limit all products to maximum 325 mg acetaminophen per unit dose	Yes – already in place for prescription products, but lacked sufficient support to be implemented for nonprescription products	Yes (US for prescription products) ⁶
Develop and implement an education strategy	Yes	Yes (US, ⁶ UK ⁶)

ISMP Canada Safety Bulletin, 2017, Acetaminophen: Preventing Harm through Safe Use. Available from: https://www.ismp-canada.org/download/safetyBulletins/2017/ISMPCSB2017-04-Acetaminophen.pdf





2016 Health Canada Labelling Standard

- Clearer instructions on packages emphasizing
 - the lowest effective dose should be used
 - the maximum daily dose should not be exceeded
 - precautions with alcohol
- Enhanced display of information: "Contains Acetaminophen"
- Drug Facts Table (mandatory 2021)
- Calibrated dosing device for liquid products provided in package

Health Canada Revised Guidance cited in: SMP Canada Safety Bulletin, 2017, Acetaminophen: Preventing Harm through Safe Use. Available from: https://www.ismp-canada.org/download/safetyBulletins/2017/ISMPCSB2017-04-Acetaminophen.pdf





Health Canada Revised Guidance Document: Acetaminophen Labelling Standard

Health Santé
Canada Canada

September 15, 2016

Notice

Our file number:

Revised Guidance Document: Acetaminophen Labelling Standard

The final version of the Health Canada Revised Guidance Document - Acetaminophen Labelling Standard is now available. Comments and suggestions received from the consultation between September to December 2015 on the draft version of the guidance were reviewed and considered in the finalization of this document. The labelling standard has been revised based on the outcome of the 2014 acetaminophen review which recommended that the label include stronger alcohol consumption-related warnings, the recommendation that a dosing device be included with children's liquid products and more safety information with regards to the product's content. A copy of the Summary Safety Review - Acetaminophen - Liver Injury can be obtained at the following link: http://www.hc-sc.gc.ca/dhp-mps/medeff/reviews-examens/acetamino-

This labelling standard replaces the October 28, 2009 Acetaminophen Labelling Standard Guidance Document. The updated labelling standard includes a Drug Facts Table that will provide safety information in an easy-to-read format and uses plain language, so that consumers can more easily identify products that contain acetaminophen, understand the risks of liver injury and use the products as directed. The table also includes alcohol-related directions and clearer identification of products that contain acetaminophen.

This final labelling standard is effective immediately for all submissions seeking a new market authorization. Holders of market authorizations for existing products are strongly encouraged to effect any necessary labelling changes as soon as possible by submitting an updated label for review via a Post-authorization Division 1 Change. By March 2018, Health Canada expects all products to comply with the new labelling standard and will take appropriate regulatory measures, as circumstances warrant, to deal with any products that remain on the market without updated labelling.

This standard should also be used to inform the labelling of products that contain acetaminophen in addition to other ingredients (other than caffeine and codeine as specified in the standard), but which would not be submitted to Health Canada under the Labelling Standard stream.

As with any Guidance Document or Labelling Standard, alternate approaches may be acceptable provided they are supported by adequate justification and data. In these cases, an application outside of the Labelling Standard should be submitted.

Stronger, clearer labels for over-the-counter acetaminophen products to further address the risk of liver damage

Starting date: Posting date: Type of communication: Subcategory:

Source of recall:

September 15, 2016 September 15, 2016 Information Undate

Drugs, Affects children, pregnant or breast

feeding women Health Canada Labelling and Packaging

What you should do

Audience: General Public Identification number: RA-60198

Media enquiries

Report a Concern

Public enquiries

Issue

issue.

Issue

OTTAWA - Health Canada is releasing an updated Labelling Standard for over-the-counter acetaminophen products to help consumers use these products more safely. Product packages will include clearer instructions and stronger warnings to help reduce the potential for liver damage. This change is one of a number of steps Health Canada is taking in light of a safety review released in 2015.

Acetaminophen is a drug used in a wide range of non-prescription and prescription products, including headache and pain remedies, allergy medicines, cold remedies, and opioid pain relievers. With hundreds of different products available, it is one of the most commonly used pain and fever relievers in

Acetaminophen is used safely by the vast majority of Canadians. But like most health products, it can have risks, especially if too much is taken or if it is taken for longer than directed. These risks include liver damage, which in severe cases can lead to liver failure and even death.

Improvements to the Labelling Standard include:

- clearer instructions on packages that emphasize the importance of using the lowest effective dose; not exceeding the recommended daily maximum (which is 4,000 mg for adults) in a 24-hour period; using these products for no more than five days for pain or three days for fever, and not mixing them with alcohol if drinking three or more drinks in a day.
- displaying the words "contains acetaminophen" in bold, red text in the top right corner of the front of the package to make it easier for consumers to know if a product contains this drug:
- a new <u>Drug Facts</u> table for packages to provide product instructions, warnings and other safety information in a consistent, quick-reference format
- a recommendation that all children's liquid products include a calibrated dosing device, so parents and caregivers can be sure that they're giving

The revised standard and the recommendation for children's dosing devices address recommendations coming out of the safety review. As an added safeguard, Health Canada is also issuing a Notice to industry advising of a policy to limit the amount of acetaminophen in prescription combination

Available from: https://www.canada.ca/en/health-canada/services/drugs-health-products/drug-products/applications-submissions/guidance-documents/revised-guidance-document-acetaminophenlabelling-standard.html and http://healthycanadians.gc.ca/recall-alert-rappel-avis/hc-sc/2016/60198a-eng.php





Principal Display Panel requirements

Declaration of acetaminophen on the product label:

- · Principal display panel:
 - o For single ingredient products:
 - "Contains Acetaminophen" should appear in bold font type, font size 10
 and in red text with a white background in the top right corner of the
 label.
 - o For multi-ingredient products:
 - "Contains Acetaminophen and other Ingredients" should appear in bold font type and font size 10 in the top right corner of the label. In addition, the text for "Contains Acetaminophen" should appear in red with a white background.
 - For small package sized products:
 - Consideration will be given for products with small package size.
 However, the text for "Contains Acetaminophen" should appear prominently in bold font type in red with a white background in the top right corner of the label.

Health Canada will require drug makers to print 'Contains acetaminophen' in bold, red lettering on the product label. (Health Canada)





Drug Facts Table

Drug Facts

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Ask a doctor or pharmacist before use if you are taking the blood thinning shug warfarin.

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Orag Facts (continued):

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Keep out of reach of children.

Overdoss warning: In case of overdose, out medical help or contact a Policin Control Center Soft Super (1-406-200-1333) Oxide medical attention is critical for adults as well as for children even il vos do not notice em sione or symptome.

Directions :

do not take more than directed (see eventose worning)

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inactive ingredients

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Questions or comments?

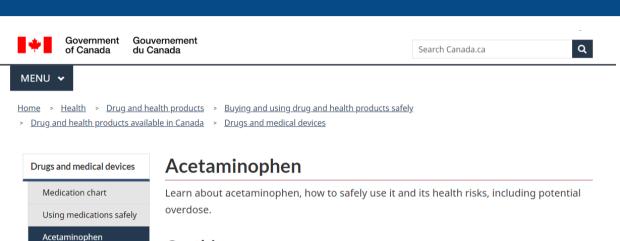
cell 1-877-895-3945 Ind-hed or 215-225-8755 (cellect)







Health Canada's Acetaminophen webpage



On this page

- About acetaminophen
- Safe use
- Health risks
- Overdose
- · For more information

About acetaminophen

Acetaminophen is a drug ingredient found in over 600 different over-the-counter and prescription medicines. It's found in single or multiple ingredient products, under many different brand names, including:

- common pain relievers
- cold and flu medications

Available from: https://www.canada.ca/en/health-canada/services/drugs-medical-devices/acetaminophen.html

The safe use of health products for weight loss

Antidepressant drugs

Acne treatments

Breast implants
Warfarin

Menstrual tampons

children

Safe use of medication for

Ask your doctor about your child's medication

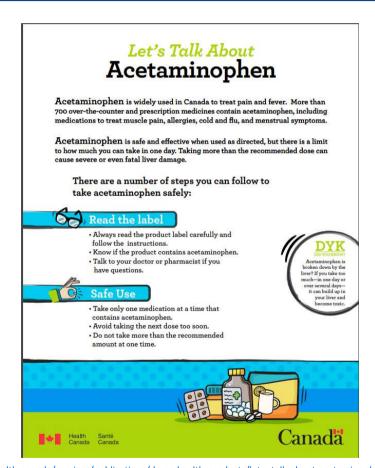
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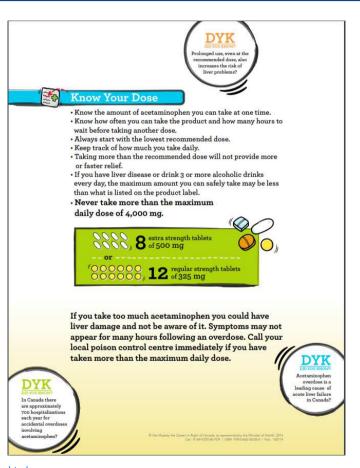




Let's talk about acetaminophen

Health Canada





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Let's talk about acetaminophen

Health Canada

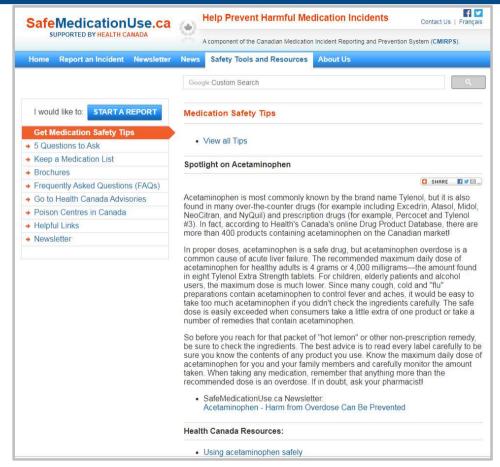


Available from: https://www.canada.ca/content/dam/canada/migration/healthy-canadians/publications/drugs-products-medicaments-produits/poster-acetaminophen-acetaminophene-affiche/alt/pub-eng.pdf





Spotlight on Acetaminophen



SafeMedicationUse.ca webpage - Spotlight on Acetaminophen, Available from: https://safemedicationuse.ca/tools_resources/tips_acetaminophen.html





Newsletter for Consumers

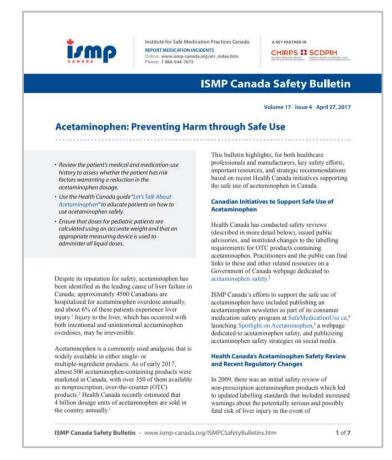


SafemedicationUse.ca Newsletter, 2014, Acetaminophen – Harm from Overdose Can Be prevented, Available form: https://safemedicationuse.ca/newsletter/downloads/201402NewsletterV5N1Acetaminophen.pdf





Safety Bulletin for Health Care Providers



ISMP Canada Safety Bulletin, 2017, Acetaminophen: Preventing Harm through Safe Use. Available from: https://www.ismp-canada.org/download/safetyBulletins/2017/ISMPCSB2017-04-Acetaminophen.pdf





Media Key Messages



CANADA

Health Canada issues new labelling rules for acetaminophen



KELLY GRANT > HEALTH REPORTER PUBLISHED SEPTEMBER 15, 2016 UPDATED MAY 17, 2018

Health Canada is imposing new labelling rules aimed at reducing the risk of liver damage caused by taking too much acetaminophen, best known as the drug in Tylenol.

Health Canada began considering the changes two years ago after a safety review found acetaminophen, considered one of the safest pain relievers available if taken properly, leads to more than 250 serious liver injuries and 4,000 hospitalizations for overdoses in Canada every year.

The new labelling standard that Health Canada announced Thursday will require drug companies to:

- Print clearer warnings about safe doses, including a warning not to mix the drug with more than three alcoholic drinks a day;
- Mark packages with the words "contains acetaminophen" in bold red text;
- Include a calibrated dosing device in products for children so parents can be sure they are not accidentally exceeding the recommended limits.

Available from: https://www.theglobeandmail.com/news/national/health-canada-puts-new-labelling-rules-on-acetaminophen/article31894465/



Media Engagement

⊕ CBC | MENU ~



You may not know that acetaminophen is in a product unless you look at the ingredients. (Institute for Safe Medication Practices Canada)

You may not know that acetaminophen is in a product unless you look at the ingredients. (Institute for Safe

Image provided by ISMP Canada to help demonstrate why we needed the new label standard

- Multiple products containing acetaminophen
- Difficult to identify acetaminophen

Available from: https://www.cbc.ca/news/health/acetaminophen-toxicity-health-canada-1.3764672





Social Media Campaign - twitter



Drinking #alcohol while taking #acetaminophen can cause liver damage. Learn more: ow.ly/vDRK30h4PQb



3:30 PM · 2017-12-16 · Hootsuite





5 Questions to Ask, and Acetaminophen



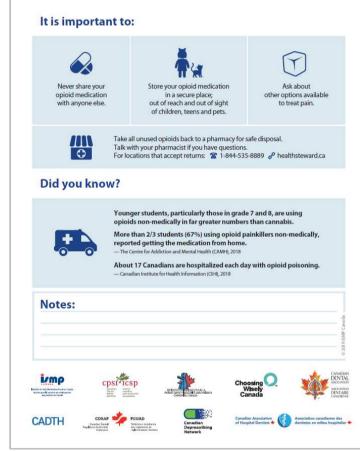


Available from: https://www.ismp-canada.org/medrec/5questions.htm and <a href="https://www.ism



Opioid Crisis and Pain Management



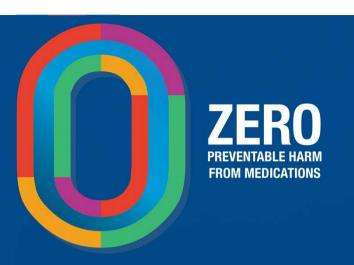


Balancing harms / risks of available therapies:

- Acetaminophen
- NSAIDS
- Opioids

Available from: https://www.ismp-canada.org/download/OpioidStewardship/WisdomTeethRemoval-EN.pdf





Thank you Any Questions?

A Key Partner in the Canadian Medication Incident Reporting and Prevention System

