WELCOME TO RXVIGILANCE
USER GUIDE

Version 2.0

Updated August 28, 2024

Table of Contents

ACRONYMS

ALT	Alanine transaminase
AST	Aspartate aminotransferase
BMI	Body Mass Index
DIN	Drug Identification Number
EMR	Electronic medical records
IT	Information technology
MED	Morphine equivalents daily
NAPRA	National Association of Pharmacy Regulatory Authorities
NIHB	Non-Insured Health Benefits
ODB	Ontario Drug Benefit Program
OPQ	*Ordre des pharmaciens du Québec*
OTC	Over the counter
PMS	Pharmacy management systems
RAMQ	*Régie de l'assurance maladie du Québec*

DISCLAIMERS

Content availability

This document may mention modules and content that are not available to all users. This can happen when the software license or version (e.g., Essential vs Complete) does not include said modules, or your establishment does not deem them relevant to your practice.

Terminology: Users

Due to the different types of professionals who use our software, we have opted for the generic term "users". Users are usually front-line health care professionals, such as pharmacists, technical assistants, doctors, and nurses.

Terminology: Module

Modules are independent sections of RxVigilance meant to support various facets of clinical work. Essentially, they consist of different documentation and dynamic tools. For example, coverage information, and the interaction checker are considered modules.

Navigation: Redirections & new windows

When navigating RxVigilance, modules are opened, as new window or on the same webpage, to cater to most RxVigilance services integrations with clinical software, such as Pharmacy Management Systems (PMS) or Electronic Medical Records (EMR), where specific modules are usually requested directly.

WELCOME TO RXVIGILANCE
The Pharmacy Clinical Decision Support Tool

Vigilance Santé

Vigilance Santé develops drug treatment software and databases for front-line health care professionals since 1991. Our mission: combine knowledge, intelligence, and technology to empower health care professionals.

RxVigilance

With ever increasing information about medication, health care professionals often have less time to spend with their patients. RxVigilance allows health professionals to swiftly access the data they need to effectively help their patients.

RxVigilance is the ideal assistant when it comes to pharmacological treatment.

- Quickly access drug information, such as indications, and interactions.
- Perform a comprehensive analysis of a patient's pharmacological profile.
- Easily access printable drug information documents with instructions for patients.

Catered by 20 pharmacists, RxVigilance datasets are regularly updated to ensure clinical information is as accurate as possible. Build trust with your patients, ramp up your team's knowledge and overall efficiency by relying on clinically validated medication information.

Trusted by
50,000+ users | 5,500 pharmacies | 220 hospitals
10,000+ physicians (EMR) | 1,500+ iOS users

Technology

RxVigilance has an integration solution for most information technology (IT) setups. Already compatible with top Pharmacy Management Systems (PMS) and Electronic Medical Records (EMR), you can easily introduce this new tool to your portfolio without impacting current procedures.

Because data is today's currency, any piece of information transmitted from (and to) RxVigilance goes through secure protocols and systems. Additionally, when using our patient profile analysis tool, patient information is not saved on our servers.

A Data Gold Mine

Gain access to our inventory of peer-reviewed data: over 1,600 monograph summary pages, a large array of reference material, comparative charts, coverage information, and clinical documentation for both professionals and patients.

NAVIGATE THE RXVIGILANCE HOMEPAGE

Welcome to your new favourite clinical decision support tool for the safe and optimal use of medication. Fundamentally, the RxVigilance homepage is a portal to all the content the application has to offer. From this central point, users can **select a module** or **initiate a search**.
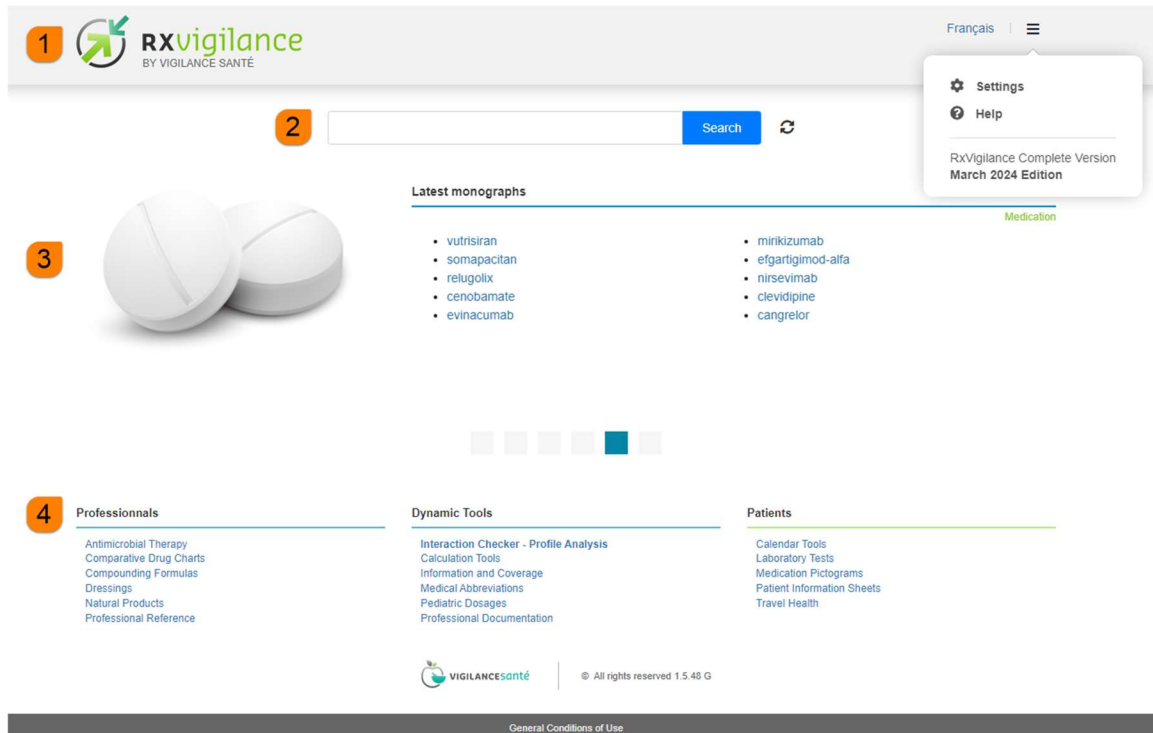
1. Homepage Header

The following components are found in the header and under the menu (≡).

- **Language** - Select to switch to the specified language (Français or English).
- **Settings** (⚙) - Select to change the default interface language, set your default province, or specify custom printing layout information.
- **Help** (❓) - Select to view user functional documentation such as the self-learning modules and our contact information.
- **Version** - Indicates the RxVigilance version and monthly edition.
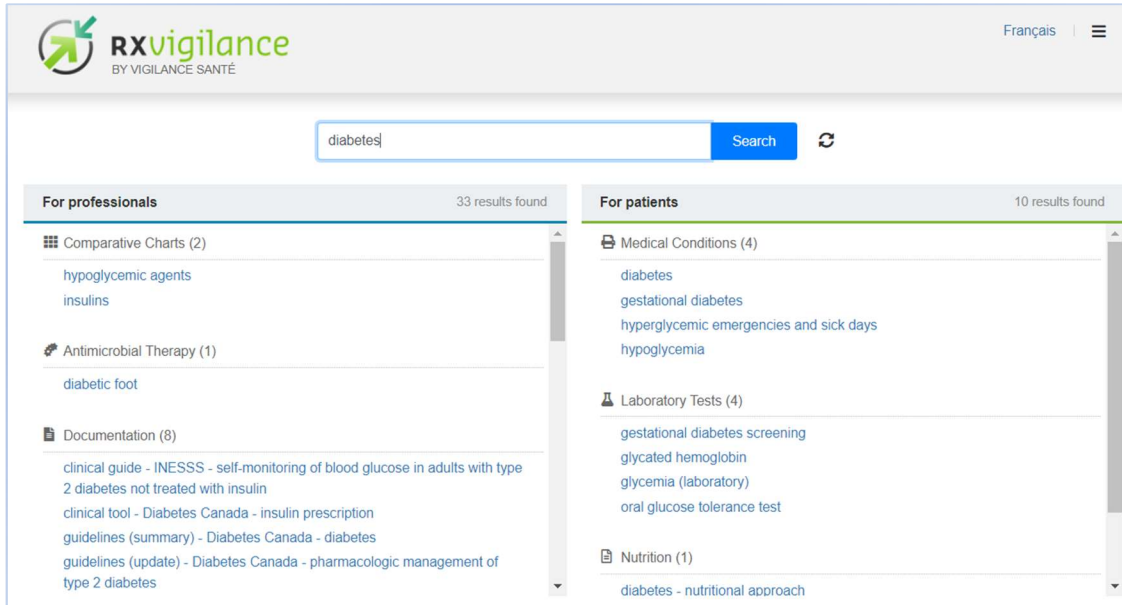
2. Search RxVigilance

The Search field is the best way to look through our entire repertoire of data. All documentation and tools related to the search term(s) will be retrieved.

After entering the nature of your query, press 'Enter' on your keyboard or select the Search button to obtain results. Use the Refresh button (↻) to clear search results. Documentation destined for professionals is located on the left, and those destined for patients is on the right.

What to search for

The term(s) entered can be the name of a medication (active ingredient or brand name), adverse effect, health condition, laboratory test, country, etc. The search feature can also return results based on partial names (e.g., diab), or terms with typos (e.g. dyabeta -> diabeta).

TIP! One-word searches

Get better results by entering part of a name (e.g., oxy, mepraz, psyc), or a single word in the Search field (e.g., flagyl, dizziness, yeast, ALT, Aruba).

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3. Latest News

Each month, along with each release, the latest monographs and products added to our database are displayed in the News section of the homepage. Additionally, new software features and updates deemed relevant by our team of pharmacists are included in the slides.

4. Modules List (Documentation & Tools)

Modules are the different sections of RxVigilance meant to support various facets of clinical work. Essentially, they consist of different documentation and dynamic tools. More details about each module can be found below.

DOCUMENTATION FOR PROFESSIONALS

Essential reference material and professional documentation is at the heart of RxVigilance. This section details the different types of documentation made available to you. Each piece of information has been meticulously curated by our in-house pharmacists to support health care professionals in their daily clinical tasks.

TIP! Start with a search

Navigating to different modules and finding information is a great way to make yourself familiar with the software. However, when time is of the essence, the search engine will locate all related documents, allowing you to jump immediately into an area of interest.

Antimicrobial Therapy

Contains treatment options for different infections (bacterial, fungal, parasitic). Antimicrobial guides usually include recommended medications and doses for adults and children, main pathogens involved, treatment principles, usual treatment durations, and useful links (guidelines, medical protocols).

TIP! First line of therapy

Products that represent the first line of therapy are identified with a green square ■.
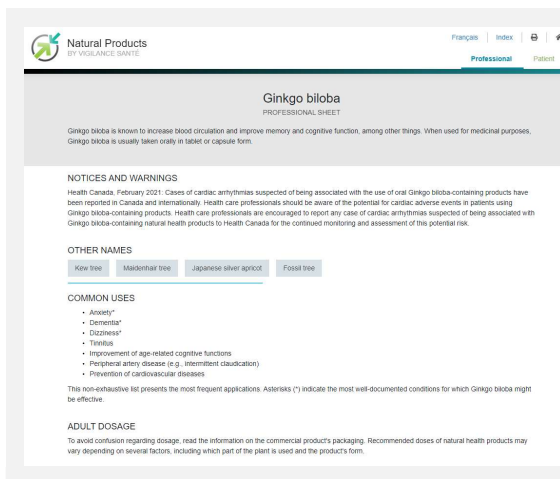
Parenteral Administration Guides

When a medication exists in both injectable and another form, our team creates a separate guide that details its reconstitution and stability, its dosage per parenteral route, and more whenever applicable.

Canadian Manufacturers Monographs

In addition to the 1,600+ monographs created in-house, over 2,000 Canadian Manufacturers monographs are available in PDF format in RxVigilance and are updated monthly for easy access.
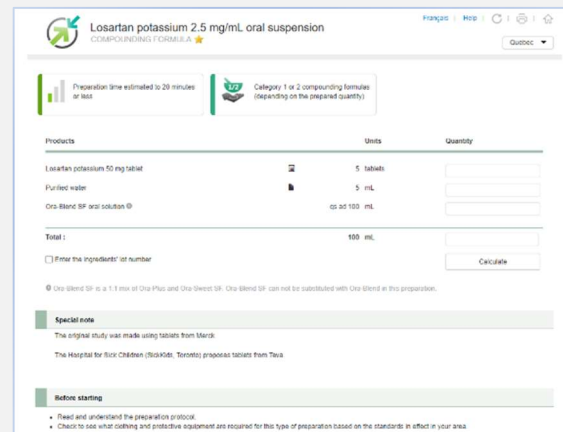
Natural Products

Contains information about natural products such as their alternate names, common uses, adverse effects, warnings and interactions. Printouts for both professionals and patients are available whenever accessing a natural product information page.

Compounding Formulas

Contains over 500 master formulas for non-sterile compounding, including over 30 magic mouthwashes. Each formula lists necessary ingredients, equipment, preparation protocol, packaging, stability and preservation information, estimated preparation time and advice for patient.

Compounding levels and categories are determined by our team's interpretation of existing standards (NAPRA, OPQ).
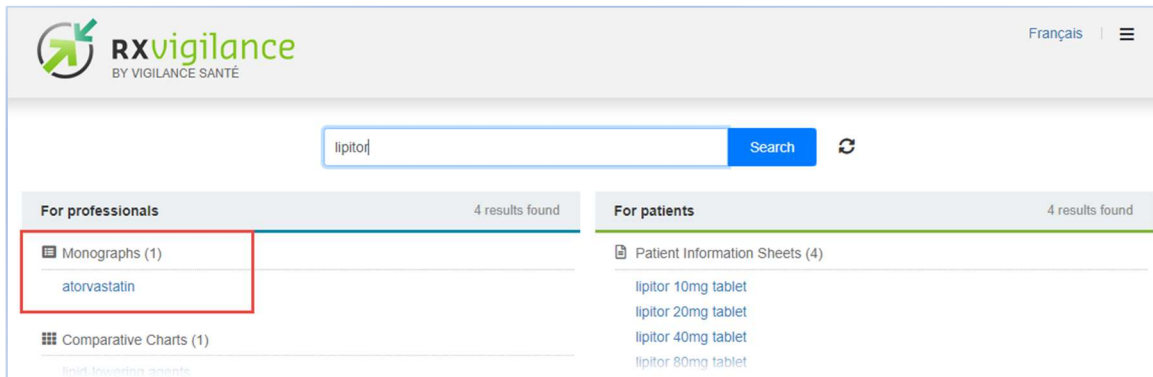

Comparative Drug Charts

Access 100+ medication comparative tables. These charts are broken down by drug class (e.g., cephalosporins, diuretics), or medical condition (e.g., drugs used to treat migraines, or hypertension). Whenever available, charts may include dosage, indications, adverse effects and other pertinent information.

> **More professional documentation**
> You will also find professional reference, dressings information section, medication lists by adverse effect, indications and dosage information per age group, price charts, and more.

MONOGRAPH DEEP DIVE

The means to easily access and consult professional reference material is key to providing accurate information to patients. RxVigilance holds over 1,600 monographs that are continuously reviewed and scrutinized by our team of pharmacists. Their efforts allow the creation of comprehensive monograph summaries that highlight clinically relevant information.


From the homepage Search bar, enter the name, or part of the name, of the medication you wish to consult. Then, select the monograph name to view its summary page.

> **About RxVigilance monographs**
>
> Our monograph list focuses primarily on the medication most often prescribed, or that appears on Canadian lists of covered drugs. This means that some over the counter (OTC) and other drugs may not be available, such as injectable oncology treatments.

Sections Overview

Each monograph is broken down into relevant sections for easy consultation and navigation. Here are the different sections of a monograph.

- General information
- Documentation
- Advisories and warnings
- Adverse effects
- Indications and dosages
- Precautions
- Pharmacokinetics
- Cross allergies
- Interactions
- Commercially available products
- Notes & References

About this guide's monograph documentation
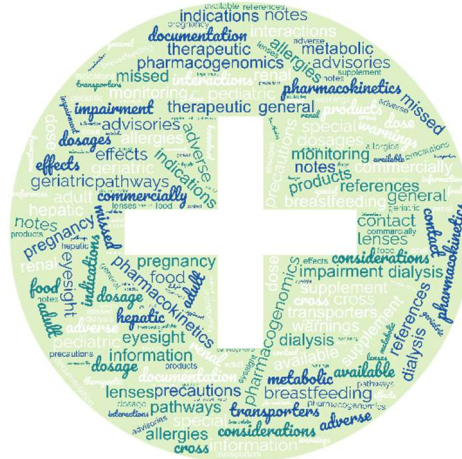
Due to the exhaustive list of elements and features found on a monograph, this document only focuses on the components most valued by our users.

Monograph Information & Documentation

First and foremost, the monograph offers key information and commonly needed links to additional support material. Find the medication's usual dosage, drug comparison charts, claims information, price charts, codification, guidelines, and guides for both professionals and patients.

TIP! Navigate with quick links

On the right-hand side of every monograph is a table of contents that indicates where you are located within the document. Select a title from this list to jump to that section immediately.

Adverse Effects

An important aspect of monograph documentation is identifying adverse effects and their incidence. Select one of the adverse effects to view all medications that can induce it. This section is also split into different tabs:

Summary – When there is a hefty list of adverse effects, the summary tab contains the top ten most pertinent ones for pharmacists.

Detailed list – Find a larger list of adverse effects to consult.

By System – Breaks down adverse effects by body system, and other factors. For example: gastrointestinal, nervous system, dermatologic, lymphatic, etc.

Laboratories – Lists lab results that can be impacted by the medication.

Indications and Dosages

Lists approved indications in Canada and off-label uses as documented in literature. Additionally, the dosage range for adults, pediatric and geriatric populations are listed for every indication, whenever available. Select the clinical indication to view the list of medication used for the same indication.

> **Official Canadian indications**
>
> Any indication that displays a red maple leaf (🍁) is approved by Health Canada.

After this initial list of indications and dosages, consult recommendations for certain conditions such as dialysis, renal and hepatic impairment, or for dosage adjustments based on pharmacogenomics.

Precautions

Review medication usage precautions relative to a wide range of factors, such as pregnancy, breastfeeding, storage, use with contact lenses and food. This section also includes the medication's recommended therapeutic monitoring and warnings in presence of other health conditions.

About Warnings & Alerts

The Warnings section specifies potential risks and factors that require additional caution.

❌ Avoid completely   ⛔ Avoid if possible

Interactions

Monographs would be incomplete without drug interactions. This section lists medication that interacts with the selected product.

Select the medication name to view its monograph or select the interaction alert name to see specific details about that interaction. The document will offer additional details: description of the interaction, intervention level, a discussion intended for the health care professional as a suggestion for a course of action and references.

Commercially Available Products in Canada

At the end of the document, you will find a list of the forms and strengths that are commercialized in Canada.

Select a product to view the list of brands under which the medication is distributed.

DOCUMENTATION FOR PATIENTS
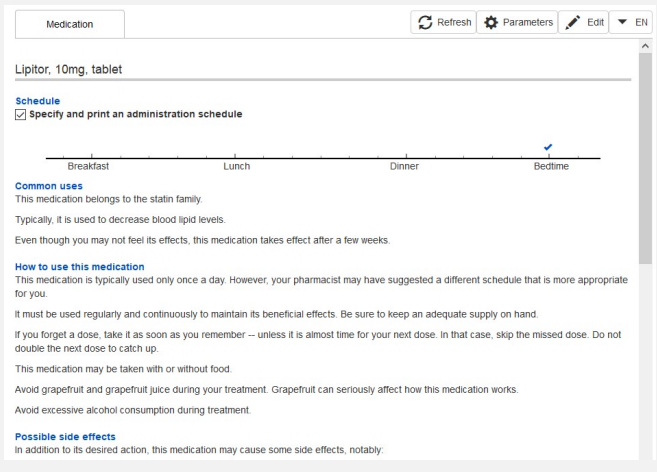
Patients often need additional information when it comes to their medication, their condition, how to prepare for tests, etc. RxVigilance includes tools and documentation destined to help health care professionals support their patients.

Patient-friendly documentation

To better adapt and cater to a general population, RxVigilance patient printouts use simple language, and are never more than a page and half.

Medication Information

Medication information printouts are available for patient distribution. These documents include a medication's common uses, intake, adverse effects, and an administration schedule (when applicable). Some of these printouts also contain illustrated directions for use.

TIP! Distribute in 4 languages

Patient medication documents are available in English, French, Spanish, and Italian.

Laboratory Tests

Access printouts meant to be distributed to patients that explain what to expect from certain medical tests, such as serum potassium, ALT-AST levels, barium meal, colposcopy, and much more.

Travel Health

Share health and safety guidelines related to travelling, such as mountain sickness, traveller's diarrhea, or travelling precautions when pregnant. You can also look up a country to review its immunisation and screening recommendations, and other precautions whenever relevant.

Nutrition

Find diet-specific printouts for patients. Documents deal with health topics such as calcium intake and vitamins, as well as guides to diabetes, GERD, migraines, etc.

Natural Products

Natural products patient printouts contain less technical jargon than their professional version and focus on what is important to the patient.

Medication Pictograms

Access a tool that converts prescription information into graphics, making them easier to understand.
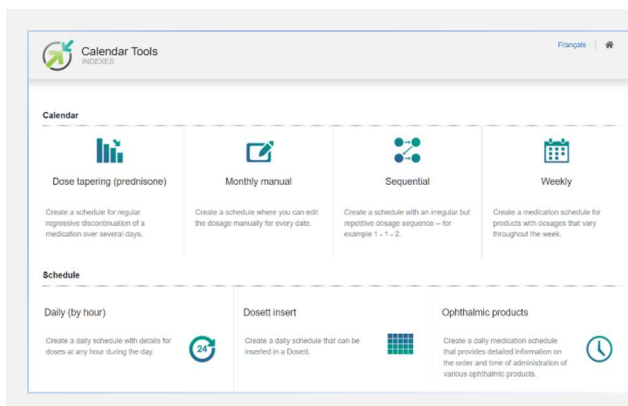
Calendar Tools

Create a calendar to help patients with their medication schedule. Create a custom intake calendar, or choose a template based on the patient's needs, such as prednisone tapering, regular, irregular, and sequential dosages, Dosett insert, and more.
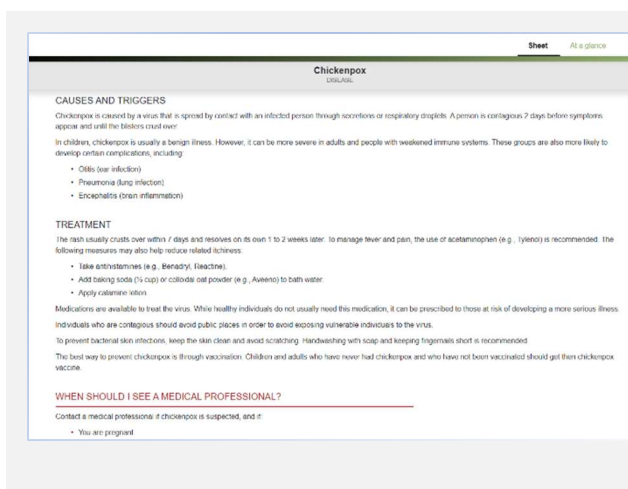
Medical Conditions

Medical condition information printouts are made available under the Patient Information Sheets section to distribute. Find hundreds of health advice for conditions such as depression, diabetes, mumps, menopause, etc.

Toggle to the At a glance version to consult the condition's cheat sheet.
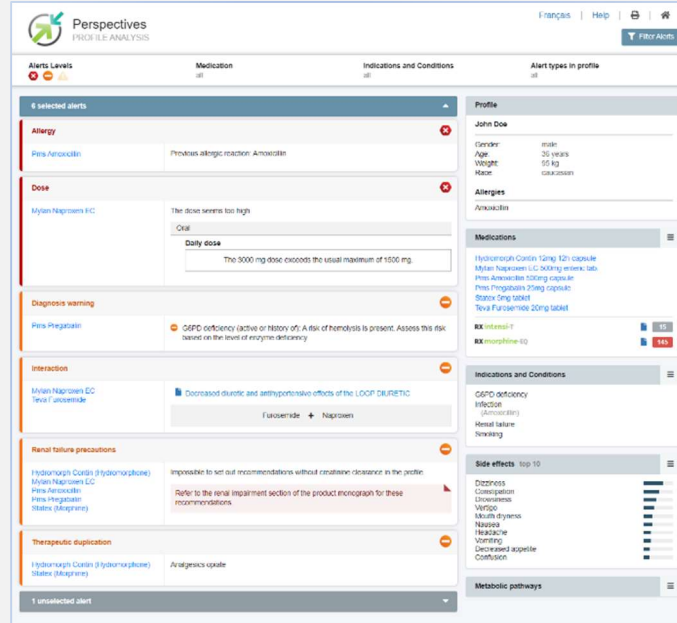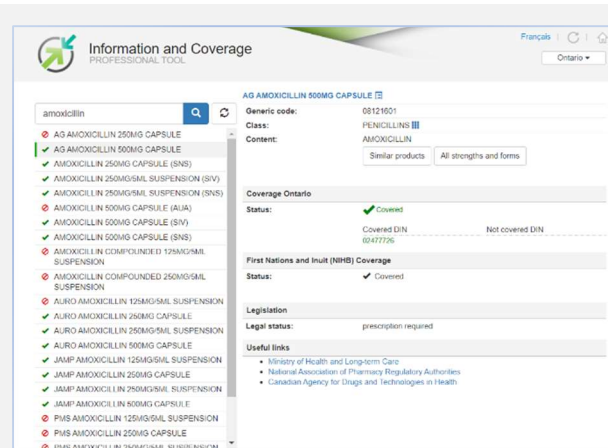
CLINICAL TOOLS FOR PROFESSIONALS

At its core, RxVigilance is an extensive pharmacological database. With all the data we handle, we have created tools that have become indispensable to the clinical practice.

The Interaction Checker & Profile Analysis Tool

While monograph data is the heart of RxVigilance, our analysis engine is the brains. The engine consumes patient profile data (i.e., age, sex, creatinine clearance, medication list, medical conditions, and more), sends it through our validation algorithms, and returns up to 18 potential types of alerts based on the data received, such as interactions, allergies, and warnings.

More details about the interaction checker here.

Coverage Information
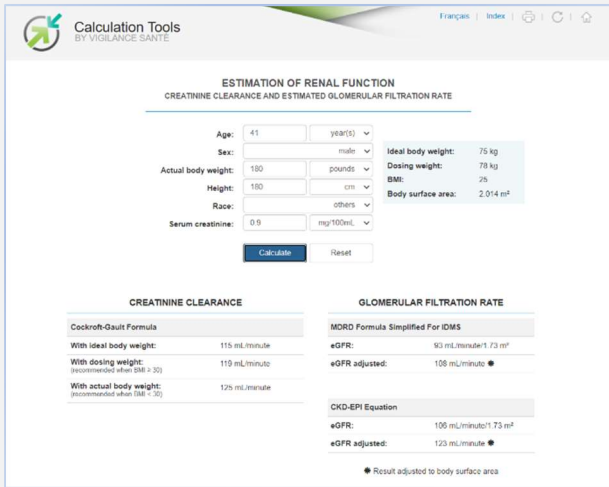
Find coverage information for commercial products available in Canada, based on provincial or federal regulations (e.g., RAMQ, ODB, NIHB). Retrieve details such as therapeutic classifications, legal status, DINs, legal documentation, and similar products that contain the same active ingredient, strength, and form.

Professional Documentation

Access province-specific material, allowing you to leverage administrative forms and resources, consult guidelines, clinical and assessment guides, and review industry standards and regulations.

Medical Abbreviations

The medical dictionary is renowned for its exhaustive list of abbreviations. Search through a list of over 840 abbreviations frequently used in health care environments.
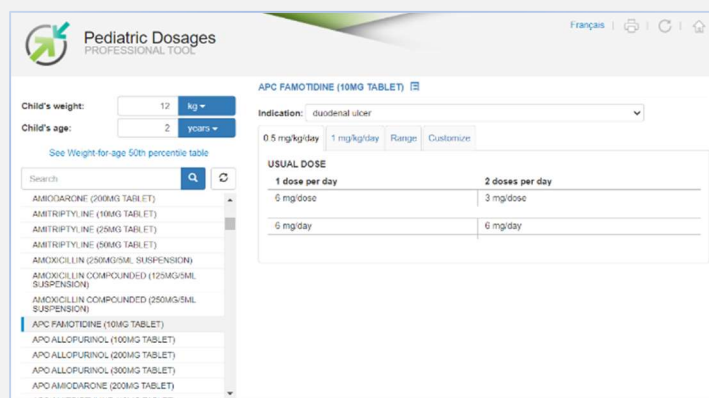
Calculation Tools

Find a wide array of forms that help with clinical calculations, such as estimation of renal function, dosage conversions, stroke risk assessment, calcium level correction, and more.

Simply add the data required for the calculation, select Calculate, and print out results whenever necessary.

Pediatric Dosages

The pediatric dosage module is a dynamic tool that allows you to select a commonly used pediatric oral medication and obtain its appropriate dosage to prescribe children, based on their weight, age, and medication indications.

More professional tools
If RxVigilance can support you even better during clinical work, we want to hear about it.
Contact us here: https://www.vigilance.ca/contact-us

PERSPECTIVES: THE PROFILE ANALYSIS & INTERACTIONS TOOL

Perspectives is the interface our users consult to review a patient profile analysis. Our algorithms detect potential problems by revealing interactions and consequently suggests precautions based on the patient's history, conditions, and medication list.

These warnings are called Alerts.

Depending on the type of software integration, the RxVigilance analysis engine can obtain patient data automatically from a patient management software (e.g., PMS, EMR), or manually from a user entering the data into the Interaction Checker & Profile Analysis tool.

Overview of the Analysis Results Page

1 Alerts List
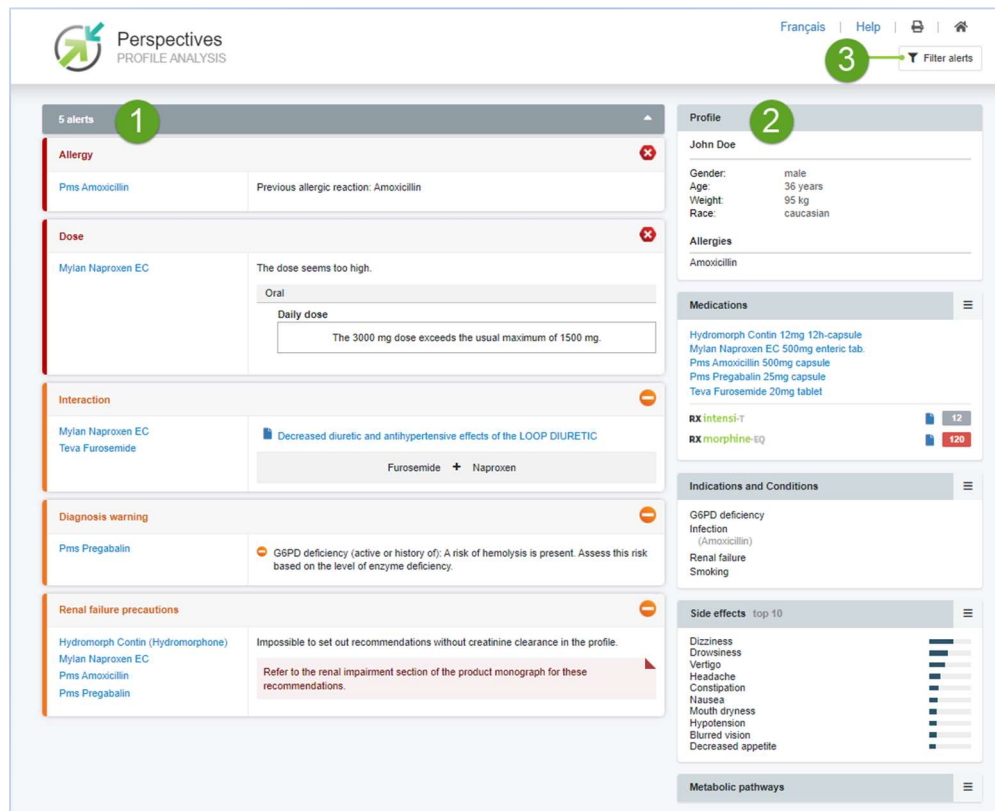
All warnings found during analysis are listed here. Filtered alerts are hidden in a collapsed section at the bottom of the list.

2 Patient Profile

All patient data received for analysis is listed on the right-hand side of the page. Each section contains an Options menu (≡) for more information.

3 Alert Filters

Select the Filter button to restrict the list of alerts to specific medication, alert levels, or alert types.

Potential Analysis Outcomes: Alerts

After an analysis, the engine returns a list of alerts unless no problem is detected, in which case Perspectives will either display a limited analysis warning or give an all-clear.

	No alerts – Limited analysis Some products could not be analyzed because they are not recognized by the engine.
	Managed alerts (licensed service) All alerts found in this profile have been managed.
	No alerts No issues found based on the data provided.

Alert Example

The following image highlights the main components found in an alert.
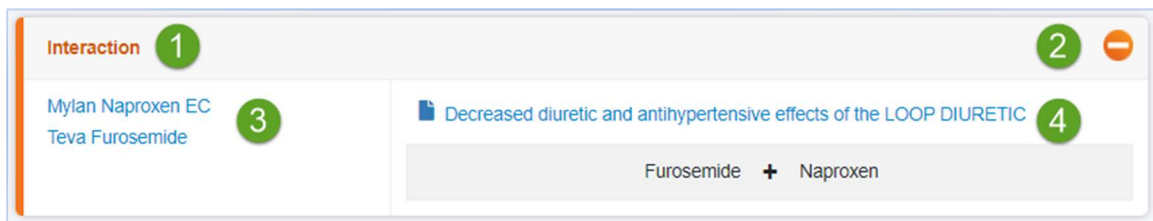
1	Alert type	Reason for the presence of the alert, displayed as a short category name.
2	Alert level	Icon representing the severity of the alert (levels 1, 2, 3 - see Alert Levels section below).
3	Medication	Medication involved in the alert. Select the medication name to view its monograph.
4	Description of the alert and Documentation	Alert descriptions can include details about the nature of the issue, make recommendations, and include links to complementary documentation.

Alert Levels

Each warning is assigned an alert level that corresponds to the clinical intervention needed to address the issue.
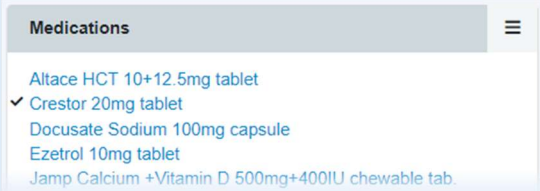
❌	**Level 1**	**Avoid completely.** Indicates a situation that must be avoided. These alerts suggest the removal of a product or a therapeutic substitution.
⛔	**Level 2**	**Avoid if possible**. Indicates a situation that should be avoided, but under certain circumstances, it can be managed by adjusting the therapy.
⚠️	**Level 3**	**Use with caution**. Indicates a situation that can be managed by closely monitoring the patient or by modifying the therapy.

Alert Filters & Categorization

When applying filters to alerts, the analysis engine categorizes them into different sections.

About targeted items

Targeted items are elements selected in the alert filters. This selection can either be done automatically by the software managing the patient profile (e.g., PMS, EMR), or manually checked by a user via the Filter alerts button in Perspectives.

Medications	☰
Altace HCT 10+12.5mg tablet	
✓ Crestor 20mg tablet	
Docusate Sodium 100mg capsule	
Ezetrol 10mg tablet	
Jamp Calcium +Vitamin D 500mg+400IU chewable tab.	

Targeted items are identified by a checkmark

Alert Sections

Alerts - Displays all alerts found. Does not have targeted items.

Selected Alerts - Displays the alerts related to targeted items.

Unselected Alerts - Displayed alerts for items other than those targeted.

Excluded Alerts - Displays excluded alerts. The excluded alerts and personalized result are dependable on the initial settings establish by the institution.

Missing patient data vs Alerts

Alerts are only provided for data transmitted to the analysis engine. E.g., if a patient is pregnant but the condition is not part of the profile, no pregnancy alert will appear.

The Patient Profile

While reviewing the list of potential alerts, the patient's profile remains displayed on the right-hand side of the page for easy consultation.

The Profile

The data displayed in the profile section is the same as the data sent for analysis. Profiles often include a patient's basic information such as their name, age, and gender. Additionally, a complete profile can include weight, height, BMI, creatinine clearance, as well as known allergies, or other types of restrictions.

Please note that some products may not be recognized and considered by the analysis (for example: Centrum® multivitamins).

Analysis Limits

Profile

Gender:	male
Age:	18 years

Medications

Act Amlodipine 10mg tablet
Apo Atorvastatin 40mg tablet
Centrum Femme 50+ tablet

RX intensi-T   6

Analysis Limits

Medications

1 Limited analysis product

- **Centrum Femme 50+ tablet**
  Not all ingredients in this product can be analyzed.

  — Calcium-salts-miscellaneous   Analyzed

  — Multivitamins   Impossible analysis – Vigilance Santé does not precisely identify the ingredients in the product.

Medications

Acetaminophen Odan 500mg tablet
Benadryl Elixir 12.5mg/5mL elixir
Ciprofloxacin 500mg tablet
Statex 5mg tablet
Teva Metformin 500mg tablet
Teva Olanzapine 5mg tablet
Ventolin Inh. 100mcg metered inh.

Undispensed ⏳

Ratio Pregabalin 150mg capsule

RX intensi-T   17

RX morphine-EQ   30

Medications

Select the medication name to view its monograph. Alternatively, select the Options menu icon (≡) and gain direct access to all the documentation we have on hand for each medication: comparative charts, coverage and legal information, and patient documentation.

RxIntensi-T – Profile Complexity

This management tool can be leveraged to categorize patients based on a profile complexity value, allowing the integration of organizational processes, or to measure staff's workload. The higher the value, the more complex a profile.

RxMorphine-EQ

Morphine equivalents daily (MED) calculation is done by adding up a patient's intake of opioids over a period of 24 hours. The result is expressed in mg of oral morphine per day. The literature targets MED thresholds for which the use of opioids require added vigilance to ensure safe use.

Indications and Conditions

Any patient condition included in the profile is listed here. Select the Options menu icon (≡) to access both professional and patient documentation for each condition.

Indications and Conditions	≡
Alcoholism	
Diabetes	
Infection	
(Ciprofloxacin-oral)	
Renal failure	
Smoking	

Side Effects

Based on the patient's medication profile, the top 10 most common side effects are displayed. Select the Options menu icon (≡) to see all potential side effects.

Side effects top 10	≡
Constipation	
Diarrhea	
Dizziness	
Sexual dysfunctions	
Drowsiness	
Nausea	
Mouth dryness	
Vomiting	
Weight gain	
Prolactin elevation	

Manually Enter Patient Data

When a patient profile needs to be entered manually, or for swift medication interaction information, select the Dynamic Tools Interaction Checker- Profile Analysis link from the Homepage module menu.

> **REMINDER. Minimal amount of data required**
>
> While you can submit a patient's full profile, their medication and lab results, the minimal amount of data required to initiate an analysis is one medication. If no patient details are submitted, the engine will run the analysis considering an 18-year-old male patient.

Search Fields

Under the Medication and Laboratory tabs, whenever entering the name of a product, test, or condition, press 'Enter' on the keyboard to initiate a search. Results are displayed as a list below the field. Partial names will also find what you are looking for.

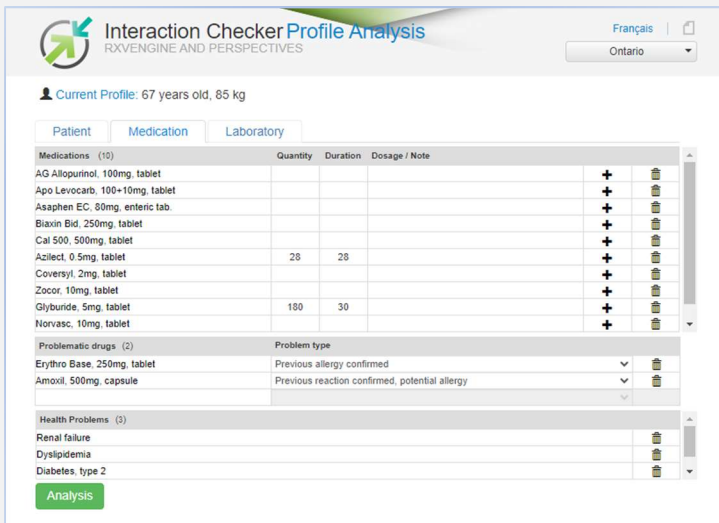| biax	ⓘ
Biaxin Bid, 250mg, tablet	
Biaxin Bid, 500mg, tablet	
Biaxin, 125mg/5mL, suspension	
Biaxin, 250mg/5mL, suspension	

> **TIP! More data for a richer analysis**
>
> Each piece of information sent to the analysis engine is verified against each other, in addition to being parsed by the engine's algorithms. We recommend entering all the patient information available to obtain richer results.

> **IMPORTANT. Double check your location**
>
> For better accuracy, review and select the province where the consultation takes place from the list on the top-right of the page.

Medication

Under the **Medication** tab, list all the patient's active medications and conditions. Select the Medications field, start typing a product's name, and press 'Enter' to initiate a search. Select the appropriate dose and form of the medication in the results list. Specify the prescription's quantity and duration to obtain alerts based on dosages. Add notes whenever necessary.

Fill out the Problematic drugs section if the patient has known allergies or adverse effects related to certain products.

Add patient conditions in the Health problems section, leveraging the same search function when selecting the field.
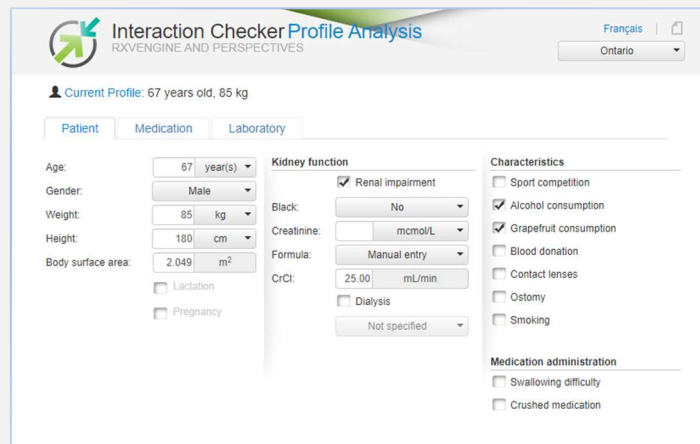
> **Form Actions**
>
> Add other dosages to the same product and review prescription details by selecting the plus icon (+). Alternatively, select the trash icon (🗑) to delete a row.

Patient

Under the **Patient** tab, enter medical information about the patient and select any characteristic that may impact medication intake.
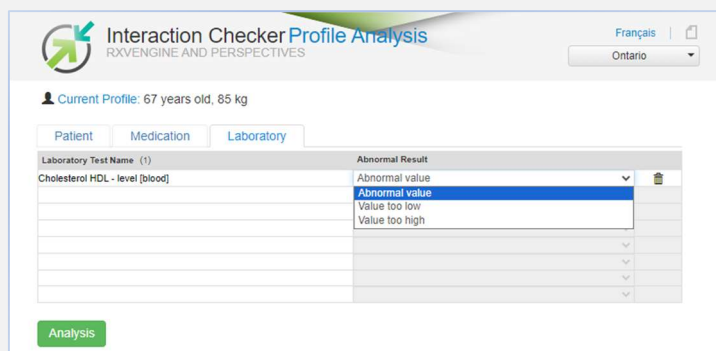
Specify age, gender, weight, and height, as well as non-medical characteristics, like alcohol consumption, difficulty swallowing, smoking, etc.

Laboratory Tests

If a patient has test results that impact their profile, the type of test and its result should be added here. Just like the Medication fields, Laboratory fields also allow searching.

Launch and Relaunch an Analysis

Once satisfied with the data entered, select the Analysis button (Analysis) located at the bottom of the page on any of the tabs. A new window will appear with analysis results.

You can always return to the profile page to add, remove, or modify patient data, and then launch the analysis anew.

Combining knowledge, intelligence, and technology
to empower health care professionals.

https://vigilance.ca